Appendix A

NOP/Comments

Appendix A1

NOP/IS

COUNTY OF LOS ANGELES
DEPARTMENT OF PUBLIC WORKS

NOTICE OF PREPARATION
OLIVE VIEW-UCLA MEDICAL CENTER CAMPUS MASTER PLAN ENVIRONMENTAL IMPACT REPORT

To: State Clearinghouse, Responsible and Trustee Agencies, and Interested Individuals

Subject: Notice of Preparation of an Environmental Impact Report, Olive View-UCLA Medical Center Campus Master Plan

Project Title: Olive View-UCLA Medical Center Campus Master Plan

Lead Agency: County of Los Angeles

The County of Los Angeles, as the lead agency, has prepared an Initial Study and will be preparing an Environmental Impact Report for the proposed project described below. The County of Los Angeles Department of Public Works (DPW), on behalf of the County, is soliciting input from members of the public, organizations, and government agencies on the scope and content of the information to be included and analyzed in the Environmental Impact Report. Agencies should comment on the elements of the environmental information that are relevant to their statutory responsibilities in connection with the proposed project.

The project description, location, and potential environmental effects of the proposed project are described in this Notice of Preparation and attached Initial Study. This notice and attached Initial Study meet the requirements set forth in the California Environmental Quality Act (CEQA).

Scoping comments on the Environmental Impact Report should be sent to DPW in writing, no later than **Monday, May 2, 2016**. Please send all written comments, including e-mailed comments, to Clarice Nash at the address below. Comments should include the name of a contact person.

Copies of the Notice of Preparation/Initial Study are available for public review at the following Public Library and County office locations:

Olive View-UCLA Medical Center Health Science Library 14445 Olive View Dr Sylmar, CA 91342 (818) 364-4240	Sylmar Branch Library 14561 Polk Street Sylmar, CA 91342 (818) 367-6102
County of Los Angeles Department of Public Works Project Management Division I 900 S. Fremont Ave. Alhambra, CA 91803-1331	San Fernando Library 217 N. Maclay Ave. San Fernando, CA 91340 (818) 365-6928

The Notice of Preparation/Initial Study is also available for public review at the following website: http://dpw.lacounty.gov/pmd/CampusMasterPlans/.

Interested parties may submit their comments to:

Clarice Nash, Project Manager
County of Los Angeles Department of Public Works
Project Management Division I
900 S. Fremont Ave.
Alhambra, CA 91803-1331
E-mail: cnash@dpw.lacounty.gov

Questions regarding this notice should be directed to Clarice Nash at (626) 300-2363 or at the e-mail shown above, Monday through Thursday, between 7:30 a.m. and 6:00 p.m.

A public scoping meeting will be held on Thursday, April 14th, 2016 from 4:30 p.m. to 7:30 p.m., at the location identified below, to solicit input from interested parties on the scope and content of the Environmental Impact Report in conformance with Section 21083.9 of the Public Resources Code.

Location: Olive View-UCLA Medical Center
14445 Olive View Dr
Sylmar, CA 91342

Project Location:

The Olive View-UCLA Medical Center campus is located at 14445 Olive View Drive on several parcels of land owned by the County of Los Angeles in the Sylmar community of the City of Los Angeles, California. Specifically, the site is generally bounded by the Angeles National Forest on the north, Olive View Drive on the south, Wilson Canyon Park on the east, and Bucher Avenue to the west. Kennedy Road and Cobalt Street intersect the project site. The site is located east of the I-5 freeway and north of the I-210 freeway.

Project Description:

An Environmental Impact Report (EIR) will be prepared for the proposed Olive View-UCLA Medical Center Campus Master Plan Project (proposed project). The Master Plan will guide future development of the campus and the delivery of health care services and health related community programs. For the purposes of the EIR, two tiers of development will be analyzed. Tier I entails near-term projects constructed before 2035, including an Ambulatory Care Center, research and development buildings, a Community Center, improvements to the existing hospital, appurtenant parking facilities, and other medical center campus improvements that would be located predominantly in the eastern third of the current campus. Tier II development would occur beyond 2035, and would include the construction of a new inpatient hospital, support services building, mental health outpatient care facility, long-term care and recuperative housing, retail space, County department buildings, and the reuse and renovation of the existing inpatient hospital for other purposes. Full build-out of the Master Plan could result in a total of approximately 1,382,000 square feet of development throughout the campus.

Potential Environmental Effects:

The Initial Study contains a preliminary analysis of the environmental impacts of the proposed project in accordance with the CEQA Guidelines that identify 16 areas where impacts could occur. These impacts, which will be analyzed in detail in the Environmental Impact Report, include: aesthetics, air quality, biological resources, greenhouse gas emissions, cultural resources, hazards and hazardous materials, hydrology and water quality, geology and soils, recreation, population and housing, public services, utilities and service systems, land use and planning, noise, transportation and traffic, and impacts under mandatory findings of significance.

Si desea obtener más información o necesita que la notificación sea traducido a otro idioma, por favor llame al (626) 300-2363.

Upon 72 hours' notice, Public Works can provide program information and publications in alternate formats or make other accommodations for people with disabilities. In addition, program documents are available at our main office in Alhambra (900 S. Fremont Ave.), which is accessible to individuals with disabilities. To request accommodations ONLY or for more Americans with Disabilities Act information, please contact our departmental Americans with Disabilities Act Coordinator at (626) 458-4081 or by TDD (626) 282-7829, Monday through Thursday, from 7:00 a.m. to 5:30 p.m.

INITIAL STUDY – CHECKLIST

FOR THE PROPOSED

OLIVE VIEW-UCLA MEDICAL CENTER CAMPUS MASTER PLAN PROJECT

SYLMAR, CALIFORNIA

Prepared at the Direction of

County of Los Angeles
By the Department of Public Works
900 South Fremont Avenue
Alhambra, California 91803

Lead Agency Pursuant to the California Environmental Quality Act

Prepared by

March 2016

Environmental Checklist

1. Project Title: Olive View-UCLA Medical Center Campus Master Plan Project

2. Lead Agency Name and Address: County of Los Angeles
by the Department of Public Works
900 South Fremont Avenue
Alhambra, California 91803

3. Contact Person and Phone Number: Clarice Nash
(626) 300-2363

4. Project Location:

The Olive View-UCLA Medical Center campus is located at 14445 Olive View Drive on several parcels of land owned by the County of Los Angeles in the Sylmar community of the City of Los Angeles, California. Specifically, the site is generally bounded by the Angeles National Forest on the north, Olive View Drive on the south, Wilson Canyon Park on the east, and Bucher Avenue to the west. Kennedy Road and Cobalt Street intersect the project site. The site is located east of Interstate 5 and north of Interstate 210. See Figures 1 and 2 for the project location.

5. Project Sponsor's Name and Address: County of Los Angeles
by the Department of Public Works
900 South Fremont Avenue
Alhambra, California 91803

6. General Plan Designation:

Public Facilities (P)

7. Zoning:

Public Facilities (PF)

8. Description of Project:

An Environmental Impact Report (EIR) will be prepared for the proposed Olive View-UCLA Medical Center Campus Master Plan Project (proposed project). The Master Plan will guide future development of the campus and the delivery of health care services and health related community programs. For the purposes of the EIR, two tiers of development will be analyzed. Tier I entails near-term projects constructed before 2035, including an Ambulatory Care Center, research and development buildings, a Community Center, improvements to the existing hospital, appurtenant parking facilities, and other medical center campus improvements that would be located predominantly in the eastern third of the current campus. Tier II development would occur beyond 2035, and would include the construction of a new inpatient hospital, support services building, mental health outpatient care facility, long-term care and recuperative housing, retail space, County department buildings, and the reuse and renovation of the existing inpatient hospital for other purposes. Full build-out of the Master Plan could result in a total of approximately 1,382,000 square feet of development throughout the campus.

Environmental Factors Potentially Affected

The environmental factors checked below could be affected by this project (i.e., the project would involve at least one impact that is a "potentially significant impact"), as indicated by the checklist on the following pages.

☒ Aesthetics	☒ Agriculture and Forestry Resources	☒ Air Quality
☒ Biological Resources	☒ Cultural Resources	☒ Geology/Soils
☒ Greenhouse Gas Emissions	☒ Hazards and Hazardous Materials	☒ Hydrology/Water Quality
☒ Land Use/Planning	☐ Mineral Resources	☒ Noise
☒ Population/Housing	☒ Public Services	☒ Recreation
☒ Transportation/Traffic	☒ Utilities/Service Systems	☒ Mandatory Findings of Significance

Determination

On the basis of this initial evaluation:

☐ I find that the proposed project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.

☐ I find that although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because revisions to the project have been made by or agreed to by the project proponent. A MITIGATED NEGATIVE DECLARATION will be prepared.

☒ I find that the proposed project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required.

☐ I find that the proposed project MAY have an impact on the environment that is "potentially significant" or "potentially significant unless mitigated" but at least one effect (1) has been adequately analyzed in an earlier document pursuant to applicable legal standards and (2) has been addressed by mitigation measures based on the earlier analysis, as described on attached sheets. An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed.

☐ I find that although the proposed project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately in an earlier ENVIRONMENTAL IMPACT REPORT or NEGATIVE DECLARATION pursuant to applicable standards and (b) have been avoided or mitigated pursuant to that earlier ENVIRONMENTAL IMPACT REPORT or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the project, nothing further is required.

Signature	Date: 3/25/2016
Printed Name: Lee Lisecki, Consultant – ICF International	For: County of Los Angeles

Evaluation of Environmental Impacts

1. A brief explanation is required for all answers except "No Impact" answers that are adequately supported by the information sources a lead agency cites in the parentheses following each question. A "No Impact" answer is adequately supported if the referenced information sources show that the impact simply does not apply to projects like the one involved (e.g., the project falls outside a fault rupture zone). A "No Impact" answer should be explained if it is based on project-specific factors as well as general standards (e.g., the project will not expose sensitive receptors to pollutants, based on a project-specific screening analysis).
2. All answers must take account of the whole action involved, including off-site as well as on-site, cumulative as well as project-level, indirect as well as direct, and construction as well as operational, impacts.
3. Once the lead agency has determined that a particular physical impact may occur, the checklist answers must indicate whether the impact is potentially significant, less than significant with mitigation, or less than significant. "Potentially Significant Impact" is appropriate if there is substantial evidence that an effect may be significant. If there are one or more "Potentially Significant Impact" entries when the determination is made, an environmental impact report (EIR) is required.
4. "Negative Declaration: Less than Significant with Mitigation Incorporated" applies when the incorporation of mitigation measures has reduced an effect from a "Potentially Significant Impact" to a "Less-than-Significant Impact." The lead agency must describe the mitigation measures and briefly explain how they reduce the effect to a less-than-significant level. (Mitigation measures from the "Earlier Analyses" section may be cross-referenced.)
5. Earlier analyses may be used if, pursuant to tiering, program EIR, or other California Environmental Quality Act (CEQA) processes, an effect has been adequately analyzed in an earlier EIR or negative declaration [Section 15063(c)(3)(D)]. In this case, a brief discussion should identify the following:
    a. *Earlier Analysis Used*. Identify and state where earlier analyses are available for review.
    b. *Impacts Adequately Addressed*. Identify which effects from the above checklist were within the scope of and adequately analyzed in an earlier document pursuant to applicable legal standards and state whether such effects were addressed by mitigation measures based on the earlier analysis.
    c. *Mitigation Measures*. For effects that are "Less than Significant with Mitigation Incorporated," describe the mitigation measures that were incorporated or refined from the earlier document and the extent to which they address site-specific conditions for the project.
6. Lead agencies are encouraged to incorporate into the checklist references to information sources for potential impacts (e.g., general plans, zoning ordinances). Reference to a previously prepared or outside document should, when appropriate, include a reference to the page or pages where the statement is substantiated.
7. *Supporting Information Sources*: A source list should be attached, and other sources used or individuals contacted should be cited in the discussion.
8. This is only a suggested form, and lead agencies are free to use different formats; however, lead agencies should normally address the questions from this checklist that are relevant to a project's environmental effects in whatever format is selected.
9. The explanation of each issue should identify:
    a. The significance criteria or threshold, if any, used to evaluate each question; and
    b. The mitigation measure identified, if any, to reduce the impact to a less-than-significant level.

		Potentially Significant Impact	Less-than-Significant Impact with Mitigation	Less-than-Significant Impact	No Impact
I.	**AESTHETICS –** Would the project:				
a)	Have a substantial adverse effect on a scenic vista? The project site is located at the base of the foothills of the San Gabriel Mountains and is visible from the surrounding area. The proposed project would involve the construction of new medical center buildings and facilities and related campus improvements including new landscaping, pedestrian pathways, and open space. New buildings and structures would require the demolition of a number of existing buildings on the campus to accommodate future development. The proposed project would also include wellness trails to increase access to gardens, riparian areas, and the surrounding mountains and canyons. The proposed project is not expected to have a significant adverse effect on scenic vistas including any existing scenic views of the San Gabriel Mountains from off-campus locations in the surrounding community. Nonetheless, this issue will be analyzed further in the Environmental Impact Report (EIR).	☐	☐	☒	☐
b)	Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a State Scenic Highway? The proposed project is not located within the vicinity of a designated State Scenic Highway (California Scenic Highways Mapping System). The proposed project, however, would include the demolition of a number of buildings on the campus, some of which may be considered historical and/or visual resources, and the removal of some existing trees and landscaping. This issue will be analyzed further in the EIR.	☒	☐	☐	☐
c)	Substantially degrade the existing visual character or quality of the site and its surroundings? The proposed project would include the implementation of a master plan that would guide future development of the campus and the delivery of health care services and health related community programs. The proposed project would include demolition of existing and construction of new buildings, potential renovation and reuse of existing buildings, and the development of public outdoor areas. Campus improvements would include new landscaping, signage, and pedestrian pathways and open space, which could improve the aesthetic appearance of the campus. Therefore, it's not expected that implementation of the proposed master plan would substantially degrade the existing visual quality of the site and surroundings. However, since implementation of the master plan would result in temporary as well as long-term changes to the visual appearance of the campus and may include the demolition of buildings or structures or removal of trees and landscaping that are considered significant visual resources, this issue will be analyzed further in the EIR.	☒	☐	☐	☐

		Potentially Significant Impact	Less-than-Significant Impact with Mitigation	Less-than-Significant Impact	No Impact
	Mitigation: Should the Draft EIR identify significant impacts to aesthetics, appropriate mitigation measures will be proposed to reduce impacts to less than significant to the extent practicable.				
II.	**AGRICULTURE AND FOREST RESOURCES –** In determining whether impacts on agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Department of Conservation as an optional model to use in assessing impacts on agriculture and farmland. In determining whether impacts on forest resources, including timberland, are significant environmental effects, lead agencies may refer to information compiled by the California Department of Forestry and Fire Protection regarding the state's inventory of forestland, including the Forest and Range Assessment Project and the Forest Legacy Assessment Project, and the forest carbon measures methodology provided in the Forest Protocols adopted by the California Air Resources Board. Would the project:				
	a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance, as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to nonagricultural use? The project site is largely developed with existing medical center facilities and is located in a developed portion of the Sylmar community in the City of Los Angeles. The project site is not located on Prime Farmland, Unique Farmland, or Farmland of Statewide Importance. Therefore, the proposed project would not convert such farmland to nonagricultural use. No further analysis is warranted.	☐	☐	☐	☒
	b) Conflict with existing zoning for agricultural use or a Williamson Act contract? The site is not under Williamson Act contract (California Department of Conservation, 2008), nor is it zoned, designated, or used for agricultural purposes. The project site is an existing medical center that includes a hospital and other medical related buildings, surface parking lots, as well as some open space areas. There is no nearby agricultural land. The proposed project would, therefore, have no potential to conflict with agricultural zoning, or lead to other changes in the existing environment that could lead to farmland conversion. No further analysis is warranted.	☐	☐	☐	☒
	c) Conflict with existing zoning for or cause rezoning of forestland (as defined by Public Resources Code Section 12220 (g)), timberland (as defined by Public Resources Code Section 4526), or timberland zoned Timberland Production (as defined by U.S. Government Code Section 51104(g))?	☐	☐	☐	☒

			Potentially Significant Impact	Less-than-Significant Impact with Mitigation	Less-than-Significant Impact	No Impact
		The project site is not zoned as forestland, timberland, or timberland zoned Timberland Production. The project site does not contain forestland or timberland. Therefore, the proposed project would not conflict with existing zoning for or cause rezoning of forest or timberland. No impact is anticipated, and thus no further analysis is warranted.				
	d)	Result in the loss of forestland or conversion of forestland to non-forest use? The project site is bordered by the Angeles National Forest to the north. However, the project would not include development on current forestland. Therefore, the project would not result in the loss or conversion of forestland. No impact is anticipated, and thus no further analysis is warranted.	☐	☐	☐	☒
	e)	Involve other changes in the existing environment that, because of their location or nature, could result in the conversion of farmland to nonagricultural use or the conversion of forestland to non-forest use? The project site is largely developed with existing medical center facilities and is located in a developed portion of the Sylmar community in the City of Los Angeles. The proposed project would not convert farmland or forestland to nonagricultural or non-forest use, respectively. No impact is anticipated, and thus no further analysis is warranted.	☐	☐	☐	☒
III.	**AIR QUALITY –** Where available, the significance criteria established by the applicable air quality management or air pollution control district may be relied upon to make the following determinations. Would the project:					
	a)	Conflict with or obstruct implementation of the applicable air quality plan? The project site is within the South Coast Air Basin (Basin), in which air quality is managed by the South Coast Air Quality Management District (SCAQMD). Potential emissions associated with construction and operation of the project will be evaluated in the EIR for compliance with all applicable air quality plans.	☐	☐	☒	☐
	b)	Violate any air quality standard or contribute substantially to an existing or projected air quality violation? The proposed project would involve construction and redevelopment of the Olive View-UCLA Medical Center campus. The potential exists for construction and net operational emissions to exceed the SCAQMD's thresholds of significance. Therefore, the project could violate an air quality standard or contribute substantially to an existing or projected air quality violation. This issue will be analyzed further in the EIR.	☒	☐	☐	☐

		Potentially Significant Impact	Less-than-Significant Impact with Mitigation	Less-than-Significant Impact	No Impact
c)	Result in a cumulatively considerable net increase in any criteria pollutant for which the project region is in nonattainment status under an applicable federal or state ambient air quality standard (this includes the release emissions the exceed quantitative thresholds for zone precursors)? Los Angeles County is currently designated a nonattainment area for the federal 8-hour ozone and fine particulate matter (PM2.5) standards and a nonattainment area for the state 8-hour ozone, PM2.5, and coarse particulate matter (PM10) standards. Net operational emissions may contribute to a cumulatively considerable net increase of these pollutants. This issue will be analyzed further in the EIR.	☒	☐	☐	☐
d)	Expose sensitive receptors to substantial pollutant concentrations? Sensitive receptors are located within the site (patients) and in the surrounding area (residences south of Olive View Drive and further to the east and west of the campus). The potential exists for exposure of these sensitive receptors to pollutant concentrations during construction and operation of the project. This issue will be analyzed further in the EIR.	☒	☐	☐	☐
e)	Create objectionable odors that would affect a substantial number of people? Odor emissions could be produced during project construction, although these emissions would be temporary and would cease once construction is complete. This issue will be analyzed further in the EIR.	☐	☐	☒	☐
	Mitigation: Should the Draft EIR identify significant impacts to air quality, appropriate mitigation measures will be proposed to reduce impacts to less than significant to the extent practicable.				
IV.	**<u>BIOLOGICAL RESOURCES</u> –** Would the project:				
a)	Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special-status species in local or regional plans, policies, or regulations or by the California Department of Fish and Wildlife or the U.S. Fish and Wildlife Service? Due to the medical center campus' proximity to open space and recreational areas, as well as its location at the foothills of the San Gabriel Mountains on the edge of the Angeles National Forest, development of new campus facilities or infrastructure has the potential to affect on- and off-site biological resources. Special-status plant and wildlife species that may occur within the project vicinity, include the California gnatcatcher and least Bell's vireo. Additionally, proposed development under the master plan may disturb or remove some mature trees located on the site. These trees may include oak trees protected by the Los Angeles	☐	☒	☐	☐

		Potentially Significant Impact	Less-than-Significant Impact with Mitigation	Less-than-Significant Impact	No Impact
	County's Oak Tree Ordinance. The trees also have the potential to serve as habitat for nesting birds. This issue will be analyzed further in the EIR.				
b)	Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, or regulations or by the California Department of Fish and Wildlife or the U.S. Fish and Wildlife Service? Given the medical center campus' proximity to open space, canyon drainages, and recreational areas within the adjacent national forest, there is a potential for impacts to riparian or other sensitive natural communities. This issue will be analyzed further in the EIR.	☐	☒	☐	☐
c)	Have a substantial adverse effect on federally protected wetlands, as defined by Section 404 of the Clean Water Act (including marshes, vernal pools, coastal areas, etc.), through direct removal, filling, hydrological interruption, or other means? Given the campus' proximity to canyon drainages, there is the possibility that federally protected wetlands could be located in the immediate vicinity of and adversely affected by proposed campus development. This issue will be analyzed further in the EIR.	☐	☒	☐	☐
d)	Interfere substantially with the movement of any native resident or migratory fish or wildlife species or established native resident or migratory wildlife corridors or impede the use of native wildlife nursery sites? Due to the medical center campus' proximity to open space, including the San Gabriel Mountains and Angeles National Forest, development of new campus facilities or infrastructure has the potential to affect on-and off-site biological resources. Proposed development under the master plan may disturb or remove some mature trees located on the site that may have the potential to serve as habitat for nesting birds. This issue will be analyzed further in the EIR.	☐	☒	☐	☐
e)	Conflict with any local policies or ordinances to protect biological resources, such as a tree preservation policy or ordinance? The proposed project would include the demolition of campus buildings and the construction of new buildings at the project site. As a consequence, tree removal is likely to occur due to proposed development under the master plan. However, any tree removal would follow applicable local policies and ordinances aimed at tree preservation, including Los Angeles County's Oak Tree Ordinance. This issue will be analyzed further in the EIR.	☐	☐	☒	☐

		Potentially Significant Impact	Less-than-Significant Impact with Mitigation	Less-than-Significant Impact	No Impact
f)	Conflict with the provisions of an adopted habitat conservation plan, natural community conservation plan, or other approved local, regional, or state habitat conservation plan? The project site is developed with the current Olive View-UCLA Medical Center campus. The project site is not located within an area covered under a habitat conservation plan or natural community conservation plan, and no impacts are anticipated. Therefore, further analysis is not warranted.	☐	☐	☐	☒
	Mitigation: Should the Draft EIR identify significant impacts to biological resources, appropriate mitigation measures will be proposed to reduce impacts to less than significant to the extent practicable.				
V.	**CULTURAL RESOURCES –** Would the project:				
a)	Cause a substantial adverse change in the significance of a historical resource as defined in Section 15064.5 of the State CEQA Guidelines? The project site contains buildings older than 50 years that have not been evaluated for historical significance. These buildings would need to be evaluated to determine historical significance prior to any proposed demolition and construction proposed under the proposed project. This issue will be analyzed further in the EIR.	☐	☒	☐	☐
b)	Cause a substantial adverse change in the significance of an archaeological resource pursuant to Section 15064.5 of the State CEQA Guidelines? Given that the project site is largely developed with existing medical center facilities and structures, there is a low probability of unearthing archeological resources during project construction. Nonetheless, since it's still possible for archaeological resources to be encountered, especially in areas that haven't been disturbed by prior construction, this issue will be analyzed further in the EIR.	☐	☒	☐	☐
c)	Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature? Given the extent of previous ground disturbances due to development of the medical center campus, there is a low probability of unearthing significant paleontological resources during project construction. Nonetheless, the potential for unearthing paleontological resources still exists, especially in areas that haven't been disturbed by prior construction. This issue will be analyzed further in the EIR.	☐	☒	☐	☐
d)	Disturb any human remains, including those interred outside of formal cemeteries?	☐	☐	☐	☒

		Potentially Significant Impact	Less-than-Significant Impact with Mitigation	Less-than-Significant Impact	No Impact
	The project site is not located in an area that contains formal or known informal cemeteries. No impacts are anticipated, however, the issue will be further analyzed in the EIR.				
	Mitigation: Should the Draft EIR identify significant impacts to cultural resources, appropriate mitigation measures will be proposed to reduce impacts to less than significant to the extent practicable.				
VI.	**GEOLOGY AND SOILS –** Would the project:				
a)	Expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death, involving:				
	i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.	☐	☒	☐	☐
	The project site is located within a State of California Earthquake Fault Zone (formerly Alquist-Priolo Special Studies Zone), and there is a possibility for seismic surface rupture to occur at the site. The project site was previously subjected to substantial ground shaking, surface rupture and earthquake-related damages resulting from the 1971 San Fernando Earthquake (also known as the Sylmar Earthquake). The M 6.5 earthquake included roughly 12 miles of surface rupture in the site vicinity. Damage to the site included the collapse of stair towers adjacent to buildings, the partial collapse of medical buildings, and the collapse of parking structures. Some structures damaged in the earthquake were later demolished. Geologic evaluations for detailed design of the project would include fault investigations and review by the California Geological Survey. In addition, the proposed project would be required to comply with applicable provisions of the most recently adopted version of the California Building Code (CBC) and County building regulations. The impacts related to surface rupture are potentially significant, but can be reduced with methods such as detailed fault trenching investigations, development of structural setback zones and structural design. Where, feasible, mitigation will be incorporated. This issue will be analyzed further in the EIR.				
	ii) Strong seismic ground shaking?	☐	☒	☐	☐
	The project site is mapped as being underlain by the active Santa Susana fault and is located in a seismically active region of Southern California. Accordingly, the site is susceptible to strong seismic ground shaking conditions, which are a common hazard in most of Southern California. Future large earthquakes along active faults in the Southern California				

		Potentially Significant Impact	Less-than-Significant Impact with Mitigation	Less-than-Significant Impact	No Impact
	region could cause sustained ground shaking in the vicinity of the proposed project. The proposed project would involve the construction and operation of medical, office, and community facilities. Newly constructed facilities would comply with applicable provisions of the most recently adopted version of the CBC and County building regulations. Therefore, a substantial risk to life or property from strong seismic ground shaking would not occur. Nonetheless, this issue will be further analyzed in the EIR.				
	iii) Seismically related ground failure, including liquefaction?	☐	☒	☐	☐
	Liquefaction is a condition that occurs when unconsolidated, saturated soils change to a near-liquid state during ground shaking. The northeastern portion of the project site is located within a potential liquefaction zone as identified on the State of California Seismic Hazards Zone Map, San Fernando Quadrangle (California Department of Conservation, March 1999). This issue will be analyzed further in the EIR.				
	iv) Landslides?	☐	☒	☐	☐
	Landslides typically occur on steep slopes and can be exacerbated where slopes have been subjected to fire and/or lack vegetation. The northern portion of the project site contains steep, natural slopes that have been subjected to fires. In addition, portions of the slopes on the northern part of the site have been designated as a zone of required investigation for earthquake–induced landslides on the State Seismic Hazard Zones Map (California Department of Conservation, Division of Mines and Geology 1999). Therefore, there is a potential for landslides to affect or be affected by the project, which will be analyzed further in the EIR.				
b)	Result in substantial soil erosion or the loss of topsoil?	☐	☒	☐	☐
	Construction of the proposed project could result in ground surface disruption, including disruptions from grading and excavation activities. Such activities could result in erosion at the project site during construction. Additionally, portions of the campus are currently undeveloped and subject to potential water- and wind-related soil erosion. Soil erosion and soil runoff from natural drainages and non-vegetated areas on the adjacent slopes has the potential to affect the site. However, construction projects that result in ground disturbance of 1 acre or more must apply for a Stormwater General Permit under the National Pollutant Discharge Elimination System (NPDES). All construction would follow best management practices (BMPs) to prevent erosion that might move off-site, as required under the Stormwater Pollution Prevention Plan (SWPPP) for compliance with State Water Resources Control Board NPDES Construction General Permit 2009-0009. In accordance with				

		Potentially Significant Impact	Less-than-Significant Impact with Mitigation	Less-than-Significant Impact	No Impact
	existing regulations, the SWPPP would be prepared to identify BMPs that would be implemented to prevent construction area runoff and sediment from entering the storm drain system. The SWPPP would be implemented during construction. This issue will be analyzed further in the EIR.				
c)	Be located on a geologic unit or soil that is unstable or that would become unstable as a result of the project and potentially result in on- or off-site landslides, lateral spreading, subsidence, liquefaction, or collapse? An area in the northeast portion of the project site is located within a potential liquefaction zone as identified on the State of California Seismic Hazards Zone Map, San Fernando Quadrangle (California Department of Conservation, March 1999). Other areas of the site not indicated on the state map could also be subject to liquefaction. Liquefaction and its associated manifestations could cause damage to future project improvements if not mitigated during detailed project design, and could have potential impacts on the project. Newly constructed facilities would comply with applicable provisions of the most recently adopted version of the CBC and County building regulations. Therefore, a substantial risk to life or property from strong seismic ground shaking would not occur. This issue will be analyzed further in the EIR.	☐	☒	☐	☐
d)	Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial risks to life or property? Expansive soils contain minerals that absorb water when wet. This causes the soil to expand. Based on geologic maps, the soil units underlying the project site are composed of coarse-grained bedrock and fine to coarse-grained surficial alluvial soils. Such materials may have the potential to include expansive soils. Geotechnical investigations during the detailed design stage of the project will evaluate the potential for expansive soils, and recommendations would be developed to mitigate the impacts of expansive soils to less than significant levels. This issue will be further analyzed in the EIR.	☐	☒	☐	☐
e)	Have soils that are incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater? The project would not propose the use of septic tanks or alternative wastewater disposal systems; therefore, further analysis is not warranted.	☐	☐	☐	☒
	Mitigation: Should the Draft EIR identify significant impacts to geology and soils, appropriate mitigation measures will be proposed to reduce impacts to less than significant to the extent practicable.				

		Potentially Significant Impact	Less-than-Significant Impact with Mitigation	Less-than-Significant Impact	No Impact
VII.	**GREENHOUSE GAS EMISSIONS –** Would the project:				
a)	Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment? The proposed project would generate greenhouse gas (GHG) emissions during development. Development of the project would result in a long-term net source of GHG emissions, which may exceed thresholds of significance recommended and adopted by expert agencies. Accordingly, direct and indirect emissions may have a cumulatively considerable GHG impact. This issue will be analyzed further in the EIR.	☒	☐	☐	☐
b)	Conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing emissions of greenhouse gases? The State adopted Assembly Bill 32 (AB 32) in 2006, which identifies a statewide GHG reduction goal of achieving 1990 emissions levels by 2020. The County has also enacted a variety of policies and plans to reduce GHG emissions, including *Los Angeles County Community Climate Action Plan.* Based on the sustainability strategies that would be incorporated into the project design, near-term (2020) emissions are not likely to impede implementation of County or State GHG reduction plans. GHG reduction goals for 2030 and 2050 have been articulated in executive orders, and there are proposals before the State legislature to adopt such goals. However, long-term GHG reduction plans have not yet been developed by the State or County, and recent legal challenges brought under CEQA have successfully raised consistency with the executive order goals as an issue for CEQA review. AB 32 and the *Los Angeles County Community Climate Action Plan* currently only include strategies to reach 2020 targets. While the State is currently updating the AB 32 Scoping Plan, without statewide policies and a framework in place to share the burden of GHG reduction, the project may result in long-term GHG emissions that conflict with the trajectory of statewide plans, policies, or regulations. This issue will be analyzed further in the EIR.	☒	☐	☐	☐
	Mitigation: Should the Draft EIR identify significant impacts to greenhouse gas emissions, appropriate mitigation measures will be proposed to reduce impacts to less than significant to the extent practicable.				
VIII.	**HAZARDS AND HAZARDOUS MATERIALS –** Would the project:				
a)	Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?	☐	☒	☐	☐

		Potentially Significant Impact	Less-than-Significant Impact with Mitigation	Less-than-Significant Impact	No Impact
	The proposed project would involve the demolition of structures as well as the construction of new structures on the campus. Given the prevalence of asbestos as a prevalent building material and lead paint in the past, it is reasonable to assume that asbestos-containing materials (ACMs) and lead-based paint (LBP) would be encountered during demolition activities. All demolition activities would be performed in a manner consistent with Occupational Safety and Health Administration standards, AQMD Rule 1403, and National Emission Standards for Hazardous Air Pollutants. Further analysis will determine risks related to hazardous materials on or near the project site. If any contaminated soil is encountered, it would be removed and disposed of in accordance with all applicable regulations governing hazardous waste. During project operation, medical wastes, standard janitorial, and paint chemicals, as well as minor amounts of pesticides and/or herbicides for landscaped areas would be used. These chemicals would be secured and safely stored and disposed of, and are not anticipated to pose risks to the public or the environment. With the exception of these chemicals, no other chemicals would be routinely used, transported, or disposed of during project operation. This issue will be analyzed further in the EIR.				
b)	Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment? Given the prevalence of asbestos as a building material and lead-based paint in the past, it is likely that ACMs and LBP would be encountered during demolition activities on the project site. Compliance with asbestos and LBP removal and demolition regulations would minimize the risk of release into the environment. There is also potential that excavation activities would uncover contaminated soil, but standard construction practices would be observed so that any released hazardous materials would be appropriately contained and remediated as required by local, state, and federal law. No reasonably foreseeable upset and accident conditions are expected during project operation, as the few chemicals used for building and grounds maintenance would be securely stored. Nonetheless, this issue will be analyzed further in the EIR.	☐	☒	☐	☐
c)	Emit hazardous emissions or require the handling of hazardous or acutely hazardous materials, substances, or waste within 0.25 mile of an existing or proposed school?	☐	☐	☒	☐

		Potentially Significant Impact	Less-than-Significant Impact with Mitigation	Less-than-Significant Impact	No Impact
	The project boundary is not located within a quarter-mile an existing school. A new child-care facility has been constructed on the campus but is not yet open. It is possible that ACM, LBP, and contaminated soils would be encountered during the construction period. These materials would need to be transported from the project site, although it is unlikely that haul routes would be located near schools. During project operation, hazardous wastes associated with the medical uses on the campus would be routinely transported, as is the case under existing conditions. This issue will be analyzed further in the EIR.				
d)	Be located on a site that is included on a list of hazardous materials sites compiled pursuant to U.S. Government Code Section 65962.5 and, as a result, create a significant hazard to the public or the environment? According to the State Water Resources Control Board (SWRCB) GeoTracker database and Department of Toxic Substances Control (DTSC) EnviroStor database, there are several off-site locations within one mile of the project site listed as potentially contaminated. This issue will be analyzed further in the EIR.	☐	☒	☐	☐
e)	For a project located within an airport land use plan or, where such a plan has not been adopted, within 2 miles of a public airport or public use airport, would the project result in a safety hazard for people residing or working in the project area? The project site is not located within an airport land use plan area or within 2 miles of a public airport or public use airport. Further analysis is not warranted.	☐	☐	☐	☒
f)	For a project in the vicinity of a private airstrip, would the project result in a safety hazard for people residing or working in the project area? The project site is not located in the vicinity of a private airstrip. The campus hospital, however, does have its own heliport (CA64). The environmental impacts of any changes to heliport operations will be discussed further in the EIR.	☐	☐	☒	☐
g)	Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan? The proposed project would not impair or physically interfere with adopted emergency response or evacuation plans. During construction, temporary lane closures may be required, but vehicular access to existing medical facilities would be maintained at all times. The proposed project includes a direct route for emergency vehicles to the emergency department, which would likely enhance emergency response and access. This issue will be analyzed further in the EIR.	☐	☐	☒	☐

		Potentially Significant Impact	Less-than-Significant Impact with Mitigation	Less-than-Significant Impact	No Impact
h)	Expose people or structures to a significant risk of loss, injury, or death involving wildland fires, including areas where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands? The project site is bordered by the San Gabriel Mountains and the Angeles National Forest, as well as the Wilson Debris Basin. Implementation of the master plan would increase overall building square footage on the campus and the number of employees and/or visitors to the campus. Thus, the proposed project could expose more people to local hazards. It's not expected, however, that the master plan would exacerbate these hazards.	☐	☐	☒	☐
	Mitigation: Should the Draft EIR identify significant impacts to hazards and hazardous materials, appropriate mitigation measures will be proposed to reduce impacts to less than significant to the extent practicable.				
IX.	**HYDROLOGY AND WATER QUALITY –** Would the project:				
a)	Violate any water quality standards or waste discharge requirements? The proposed project could alter site drainage patterns and increase impermeable areas or runoff. There is evidence of areas where substantial erosion has occurred on the project site. Implementation of standard BMPs would decrease the potential for any erosion or sedimentation from the soil disturbing activities during the construction period. Standard construction practices related to erosion control, such as the use of tarps to cover stockpiled soil, would apply. During project operation, a campus-wide stormwater management system would be implemented, which would treat runoff before it leaves the site. This issue will be analyzed further in the EIR.	☐	☒	☐	☐
b)	Substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level (e.g., the production rate of pre-existing nearby wells would drop to a level that would not support existing land uses or planned uses for which permits have been granted)?	☐	☐	☒	☐

		Potentially Significant Impact	Less-than-Significant Impact with Mitigation	Less-than-Significant Impact	No Impact
	Groundwater accounts for approximately 13 percent of water supply for the City of Los Angeles, but has accounted for as much as 30 percent of the total water supply in drought years (LADWP 2013). During the construction period, water would be used for activities including controlling fugitive dust emissions and mixing of concrete. Project operation would require water for cleaning, irrigation of landscaping, and the operation of sinks and restroom facilities within the buildings. The proposed project would result in an increase in the amount of impermeable surface area (i.e., buildings, pavement, etc.), but may also result in an increase in stormwater infiltration (Low Impact Development [LID]) features such as bioretention, vegetated swales, and permeable pavement on the site and may contribute to groundwater recharge. Additionally, the proposed project would increase the number of patients and staff on the campus, further increasing potable water supply needs. This issue will be analyzed further in the EIR.				
c)	Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, in a manner that would result in substantial erosion or siltation on- or off-site? The Olive View site sits between the Schoolhouse and Wilson Canyon Debris Basins. Minor alterations of the existing drainage patterns on the project site may occur related to the implementation of the campus-wide stormwater management system and due to construction of new facilities and improvements, but no change to the course of a stream or river would occur. This issue will be analyzed further in the EIR.	☐	☒	☐	☐
d)	Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner that would result in flooding on- or off-site? Due to the increase in impervious cover there is a potential for the increase of surface runoff on site. This could alter drainage patterns and lead to flooding. Implementation of LID or other stormwater features would be required to control the rate of runoff. This issue will be analyzed further in the EIR.	☐	☒	☐	☐
e)	Create or contribute runoff water that would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?	☐	☒	☐	☐

		Potentially Significant Impact	Less-than-Significant Impact with Mitigation	Less-than-Significant Impact	No Impact
	The proposed project would potentially increase runoff in the area. Although, the project site is primarily impermeable, occupied by buildings and parking facilities, there are sizeable tracts of undeveloped, permeable land in and around the campus. The proposed project would increase impervious cover on the campus. Implementation of a campus-wide stormwater management system and LID and stormwater features would handle and control stormwater runoff during project operation. Sedimentation and siltation of runoff during the construction period would be addressed through the implementation of standards BMPs. This issue will be analyzed further in the EIR.				
f)	Otherwise substantially degrade water quality? As discussed above, the proposed project would include improvements to stormwater quality through the implementation of a campus-wide stormwater management system. Furthermore, construction-phase Best Management Practices (BMPs) would be implemented in accordance with the County of Los Angeles Department of Public Works *Construction Site BMPs Manual* (2007) and the SWPPP that would be prepared in accordance with the requirements of the NPDES Stormwater General Permit. Construction-phase BMPs for the proposed project may involve scheduling, silt fencing, street sweeping and vacuuming, storm drain protection, stabilized construction entrances/exits, water conservation practices, paving and grinding operations, as well as procedures and practices pertaining to vehicle equipment cleaning, vehicle equipment fueling, and vehicle equipment maintenance. Post-construction BMPs may include source control BMPs as well as LID features as required by the City and County of Los Angeles. This issue will be analyzed further in the EIR.	☐	☒	☐	☐
g)	Place housing within a 100-year flood hazard area, as mapped on a Federal Flood Hazard Boundary Map or Flood Insurance Rate Map or other flood hazard delineation map? The project site is not located within a 100-year flood hazard area. While there is a 100-year flood plain associated with the Wilson Canyon Drain through the project vicinity, the 100-year flood plain is contained within this channel. No further analysis is warranted.	☐	☐	☐	☒
h)	Place within a 100-year flood hazard area structures that would impede or redirect flood flows? The project site is not located within a 100-year flood hazard area. While there is a 100-year flood plain associated with the Wilson Canyon Drain in the project vicinity, the 100-year flood plain is contained within this channel. No further analysis is warranted.	☐	☐	☐	☒

		Potentially Significant Impact	Less-than-Significant Impact with Mitigation	Less-than-Significant Impact	No Impact
i)	Expose people or structures to a significant risk of loss, injury, or death involving flooding, including flooding as a result of the failure of a levee or dam? Given that the area in which the proposed project would be located is outside the 100-year flood plain, the proposed project would not result in increased exposure to loss, injury, or death involving flooding. Potential for flooding due to dam failure of the debris dams will be investigated further in the EIR.	☐	☐	☒	☐
j)	Inundation by seiche, tsunami, or mudflow? The project site is located approximately 28 miles from the Pacific Ocean, so there is negligible risk to the site from tsunamis. The Pacoima Reservoir, located 4.5 miles east of campus, is unlikely to produce seiches that would affect the project site. Mudflows could pose a potential risk to the project as the site borders the Angeles National Forest, the entire northern border of campus being wildland area. This issue will be analyzed further in the EIR.	☐	☐	☒	☐
	Mitigation: Should the Draft EIR identify significant impacts to hydrology and water quality, appropriate mitigation measures will be proposed to reduce impacts to less than significant to the extent practicable.				
X.	**LAND USE AND PLANNING –** Would the project:				
a)	Physically divide an established community? The proposed Olive View-UCLA Medical Center Campus Master Plan proposes the development of new buildings and facilities within the boundaries of the existing campus. No structures would be constructed that would divide an established community. Additionally, existing communities to the south of the campus, across Oliver View Drive, would continue to have access to the hiking and equestrian trails to the north of the campus. No impacts would occur. No further analysis is warranted.	☐	☐	☐	☒
b)	Conflict with any applicable land use plan, policy, or regulation of any agency with jurisdiction over the project (including a general plan, specific plan, local coastal program, or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect? The project site is designated Public Facilities, with the Wilson Canyon Debris Basin and Channel that runs through the site designated as Open Space. The Public Facilities land use designation allows for public facilities such as fire stations, libraries, schools, parks, and police stations. The project site has a zoning designation of Public Facilities – PF. The master plan proposes uses that would be consistent with these	☐	☐	☒	☐

		Potentially Significant Impact	Less-than-Significant Impact with Mitigation	Less-than-Significant Impact	No Impact
	designations. Nonetheless, a consistency analysis with applicable land use plans and specific environmental protection policies in those plans will be included in the EIR.				
c)	Conflict with any applicable habitat conservation plan or natural community conservation plan? The project site does not contain any areas within the boundaries of any applicable habitat conservation plan or natural community conservation plan. Therefore, no further analysis is warranted.	☐	☐	☐	☒
	Mitigation: Should the Draft EIR identify significant impacts to land use and planning, appropriate mitigation measures will be proposed to reduce impacts to less than significant to the extent practicable.				
XI.	**MINERAL RESOURCES –** Would the project:				
a)	Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state? The project is not within a mineral resource zone. Therefore, the proposed project would not result in the loss of availability of a known mineral resource that is of value to the region and the residents of the state. No further analysis is warranted.	☐	☐	☐	☒
b)	Result in the loss of availability of a locally important mineral resource recovery site delineated in a local general plan, specific plan, or other land use plan? The project site is not located in a locally important mineral resource discovery site, and thus would not result in the loss of availability of a locally important mineral resource recovery site. Therefore, no further analysis is warranted.	☐	☐	☐	☒
XII.	**NOISE –** Would the project result in:				
a)	Exposure of persons to or generation of noise levels in excess of standards established in the local general plan or ordinance or applicable standards of other agencies? Increased noise levels are anticipated to occur in the vicinity of the proposed project during the construction phase. The project site is located in close proximity to sensitive receptors both on the site and in the immediate vicinity. The nearest noise-sensitive land uses consist of medical uses on the site itself. The nearest off-site noise-sensitive receptors are residences to the west, to the south (across Olive View Drive), and to the east. Undeveloped open space to the north of the project site may include habitat for endangered bird species that would be	☒	☐	☐	☐

		Potentially Significant Impact	Less-than-Significant Impact with Mitigation	Less-than-Significant Impact	No Impact
	considered noise-sensitive during the nesting season. Construction and/or operational noise could exceed the exterior or interior noise standards contained in the County noise ordinance during construction. This issue will be analyzed further in the EIR.				
b)	Exposure of persons to or generation of excessive groundborne vibration or groundborne noise levels? Increased groundborne vibration or groundborne noise levels are anticipated to occur in the vicinity of the proposed project during the construction phase. Operation of the proposed project would not have the potential to expose persons to or generate excessive groundborne vibration or noise levels. Given the proximity of the nearby residences and the on-campus medical facilities, the potential exists for construction of the proposed project to expose persons to or generate excessive groundborne vibration or noise levels. Therefore, this issue will be analyzed further in the EIR.	☒	☐	☐	☐
c)	A substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project? On-site project-related operational noise would mostly be interior to buildings, but some activities would occur outdoors. These outdoor activities may be carried out in close proximity to the medical center and other sensitive receptors including residents in the immediate vicinity of the project site. In addition project-related traffic noise could affect the surrounding community. Therefore, this issue will be analyzed further in the EIR.	☐	☐	☒	☐
d)	A substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project? Construction activities associated with the proposed project would involve the use of noise-generating construction equipment, resulting in a temporary and periodic increase in noise levels at specific locations. The increased noise levels, including noise from trucks hauling material and debris during construction, could occur in close proximity to sensitive uses. This issue will be analyzed further in the EIR.	☒	☐	☐	☐
e)	For a project located within an airport land use plan or, where such a plan has not been adopted, within 2 miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels? The project site is not located within an airport land use plan or within 2 miles of a public airport or public use airport; therefore, no impacts would occur. No further analysis is warranted.	☐	☐	☐	☒

			Potentially Significant Impact	Less-than-Significant Impact with Mitigation	Less-than-Significant Impact	No Impact
	f)	For a project in the vicinity of a private airstrip, would the project expose people residing or working in the project area to excessive noise levels? No private airstrips are located in the project vicinity. However, both the existing Olive View-UCLA Medical Center campus and the proposed Master Plan include an on-site helipad for air ambulance operations, Therefore, this issue will be analyzed further in the EIR.	☐	☐	☒	☐
		Mitigation: Should the Draft EIR identify significant impacts to noise, appropriate mitigation measures will be proposed to reduce impacts to less than significant to the extent practicable.				
XIII.		**POPULATION AND HOUSING –** Would the project:				
	a)	Induce substantial population growth in an area, either directly (e.g., by proposing new homes and businesses) or indirectly (e.g., through the extension of roads or other infrastructure)? The proposed project consists of a master plan that would guide future development of the Olive View-UCLA Medical Center campus and the delivery of health care services and health related community programs. Proposed development and improved services that could occur with implementation of the master plan may result in indirect growth. This issue will be analyzed further in the EIR.	☐	☐	☒	☐
	b)	Displace substantial numbers of existing housing units, necessitating the construction of replacement housing elsewhere? Implementation of the master plan would not displace existing housing. No impacts would occur. No further analysis is warranted.	☐	☐	☐	☒
	c)	Displace substantial numbers of people, necessitating the construction of replacement housing elsewhere? The proposed project would not displace existing housing nor would it require the construction of replacement housing. No further analysis is warranted.	☐	☐	☐	☒
XIV.		**PUBLIC SERVICES**				
	a)	Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities or the need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, to maintain acceptable service ratios, response times, or other performance objectives for any of the following public services:				
		i) Fire protection?	☐	☐	☒	☐

		Potentially Significant Impact	Less-than-Significant Impact with Mitigation	Less-than-Significant Impact	No Impact
	Fire protection services in the project area would be provided by the Los Angeles Fire Department. Los Angeles Fire Station #91, located at 14430 Polk St is located approximately 1.2 miles from the project site. The proposed project may result in intermittent access restrictions for emergency responders during construction. The County would implement traffic control plans in construction areas to accommodate first responders and emergency vehicles and ensure that access would not be obstructed. Operation of proposed new master plan facilities could increase the demand for fire protection services, especially in light of the campus' proximity to wildland fire hazards. This issue will be analyzed further in the EIR.				
ii)	Police protection?	☐	☐	☒	☐
	Police protection services on-site are provided by the Los Angeles County Sheriff's Department. Streets and areas surrounding the campus are policed by the Los Angeles Police Department (LAPD). The Mission Community Police Station is located at 11121 N. Sepulveda Blvd in Mission Hills, California, and is located about 4 miles from the project site. Proposed new development under the master plan would increase the number of employees and visitors to the campus, which could increase the demand for police protection services. Impacts to police services will be analyzed further in the EIR.				
iii)	Schools?	☐	☐	☒	☐
	The proposed project would not include new housing that could directly increase enrollment at local schools. However, indirect impacts on student enrollment could occur due to potential increase in the number of employees on the campus. This issue will be evaluated further in the EIR.				
iv)	Parks?	☐	☐	☒	☐
	Increases in the number of medical center campus employees and visitors that could occur due to proposed development under the master plan are not expected to substantially increase the demand for and use of offsite recreational and park facilities. However, implementation of the proposed project could improve connectivity to hillside recreational areas north of the campus and result in increased use of those areas. Although impacts are not expected to be significant, this issue will be analyzed further in the EIR.				

		Potentially Significant Impact	Less-than-Significant Impact with Mitigation	Less-than-Significant Impact	No Impact
	v) Other public facilities? The project would not direct result in significant population growth that would substantially increase the demand for other public facilities or services. No other public facilities are expected to be significantly affected by the project. Nonetheless, this issue will be analyzed further in the EIR.	☐	☐	☒	☐
XV.	**RECREATION**				
a)	Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facilities would occur or be accelerated? Increases in the number of medical center campus employees and visitors that could occur due to the proposed development under the master plan are not expected to substantially increase the use of existing neighborhood and regional parks or other recreational facilities. However, the proposed project could improve connectivity to hillside recreational areas north of the campus and result in increased use of those areas. Although impacts are not expected to be significant, this issue will be further analyzed in the EIR.	☐	☐	☒	☐
b)	Does the project include recreational facilities or require the construction or expansion of recreational facilities that might have an adverse physical effect on the environment? The proposed project would include the development of recreation areas and courtyard gardens. Additionally, the proposed project would develop outdoor public areas on the project site for community engagement and recreation. The impacts due development of these facilities will be analyzed further in the EIR.	☐	☐	☒	☐
XVI.	**TRANSPORTATION/TRAFFIC –** Would the project:				
a)	Conflict with an applicable plan, ordinance, or policy establishing measures of effectiveness for the performance of the circulation system, taking into account all modes of transportation, including mass transit and non-motorized travel, and relevant components of the circulation system, including intersections, streets, highways and freeways, pedestrian and bicycle paths, and mass transit? Construction and operation of the proposed project would result in increased vehicle trips to the site and may alter access to the existing Olive View-UCLA Medical Center campus. A detailed traffic impact analysis will be prepared for the proposed project. Conclusions of the traffic impact analysis will be included in the EIR.	☒	☐	☐	☐

		Potentially Significant Impact	Less-than-Significant Impact with Mitigation	Less-than-Significant Impact	No Impact
b)	Conflict with an applicable congestion management program, including LOS and travel demand measures, or other standards established by the county Congestion Management Agency for designated roads or highways? The proposed project would result in increased vehicle trips to the site and may alter access to the existing Olive View-UCLA Medical Center campus. A detailed traffic impact analysis will be prepared for the proposed project. This issue will be analyzed in the EIR.	☒	☐	☐	☐
c)	Result in a change in air traffic patterns, including either an increase in traffic levels or a change in location that would result in substantial safety risks? The proposed project is not expected to result in changes to how the heliport on the campus operates. Nonetheless, this issue will be addressed further in the EIR.	☐	☐	☒	☐
d)	Substantially increase hazards due to a design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)? There are no significant changes associated with the proposed project that are anticipated to substantially increase hazards due to a design feature or incompatible uses. Nonetheless, this issue will be analyzed further in the EIR.	☐	☐	☒	☐
e)	Result in inadequate emergency access? The proposed project may result in intermittent access restrictions during construction. However, the construction phase of the project would be temporary and would cease once construction activities have been completed. The county would implement traffic control plans in areas where construction is occurring to accommodate first responders and emergency vehicles, and ensure that emergency access is not obstructed. Under operation, the proposed project would provide emergency vehicles a direct route to the emergency department at the Olive View-UCLA Medical Center. This issue will be analyzed further the EIR.	☐	☐	☒	☐
f)	Conflict with adopted policies, plans, or programs regarding public transit, bicycle facilities, or pedestrian facilities or otherwise decrease the performance or safety of such facilities? The proposed project would improve pedestrian mobility and vehicular circulation within the project site. The proposed project would not result in changes to the public transportation system that would conflict with adopted policies plans or programs. Nonetheless, this issue will be analyzed further in the EIR.	☐	☐	☒	☐

		Potentially Significant Impact	Less-than-Significant Impact with Mitigation	Less-than-Significant Impact	No Impact
	Mitigation: Should the Draft EIR identify significant impacts to traffic, appropriate mitigation measures will be proposed to reduce impacts to less than significant to the extent practicable.				
XVII.	**UTILITIES AND SERVICE SYSTEMS –** Would the project:				
a)	Exceed wastewater treatment requirements of the applicable Regional Water Quality Control Board? Implementation of the master plan would result in the construction and operation of new medical center buildings and facilities, which would generate wastewater. It's not expected that the wastewater generated by new facilities would exceed the wastewater treatment requirements. Additionally, the project site is located in an urban area that is currently served by wastewater infrastructure.	☐	☐	☒	☐
b)	Require or result in the construction of new water or wastewater treatment facilities or the expansion of existing facilities, the construction of which could cause significant environmental effects? Proposed new medical center buildings and facilities would increase the demand for water and would generate wastewater. However, it's not expected that this increased demand would require the construction of new or expanded water or wastewater treatment facilities. Nonetheless, this issue will be analyzed further in the EIR.	☐	☐	☒	☐
c)	Require or result in the construction of new stormwater drainage facilities or the expansion of existing facilities, the construction of which could cause significant environmental effects? The project site is located in a developed area that is served by existing stormwater drainage facilities. Proposed new medical center buildings and facilities, however, may require new or modified storm drains on the campus to accommodate the new development. This issue will be analyzed further in the EIR.	☐	☐	☒	☐
d)	Have sufficient water supplies available to serve the project from existing entitlements and resources, or are new or expanded entitlements needed? The proposed project would require the use of water during both construction and operation. Proposed water consumption will be analyzed further in the EIR.	☐	☐	☒	☐
e)	Result in a determination by the wastewater treatment provider that serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to existing commitments?	☐	☐	☒	☐

		Potentially Significant Impact	Less-than-Significant Impact with Mitigation	Less-than-Significant Impact	No Impact
	The project would include uses or activities that would generate wastewater and require treatment. Therefore, this issue will be analyzed further in the EIR.				
f)	Be served by a landfill with sufficient permitted capacity to accommodate the project's solid waste disposal needs? Solid waste would be generated during both construction and operation of proposed new master plan buildings and facilities. It is anticipated that adequate landfill capacity exists to accommodate the potential increases in solid waste generated by the new development that could occur under the master plan. Nonetheless, this issue will be analyzed further in the EIR.	☐	☐	☒	☐
g)	Comply with federal, state, and local statutes and regulations related to solid waste? Disposal of all solid waste generated by the proposed project would comply with federal, state, and local statutes and regulations related to solid waste. Nonetheless, this issue will be analyzed further in the EIR.	☐	☐	☒	☐
XVIII.	**MANDATORY FINDINGS OF SIGNIFICANCE**				
a)	Does the project have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal, or eliminate important examples of the major periods of California history or prehistory? As stated in response to V Cultural Resources, the proposed project may result in potentially significant impacts to historic resources. As stated in response to IV Biological Resources, the proposed project may also result in potentially significant impacts to special-status plant and wildlife species including the California gnatcatcher, least Bell's vireo, and oak trees. These issues will be analyzed further in the EIR.	☒	☐	☐	☐
b)	Does the project have impacts that are individually limited but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects.) The EIR will analyze the proposed project's potential to result in cumulative impacts in conjunction with other past, present and future projects. This topic will be analyzed further in the EIR.	☒	☐	☐	☐

		Potentially Significant Impact	Less-than-Significant Impact with Mitigation	Less-than-Significant Impact	No Impact
c)	Does the project have environmental effects that could cause substantial adverse effects on human beings, either directly or indirectly? The EIR will analyze the proposed project's potential to result in significant air quality and noise impacts on individuals in the project area or expose construction workers or other individuals on the site to contaminated soils and groundwater or hazardous materials and wastes during construction and demolition activities.	☒	☐	☐	☐

Figure 1
Regional Location
Olive View-UCLA Medical Center Master Plan

K:\Irvine\GIS\Projects_ACPW000678 - 15\mxd\cdcr\Fig02 Project Vicinity.mxd Date: 3/9/2016 25119

Figure 2
Project Vicinity
Olive View-UCLA Medical Center Master Plan

Figure 3
Olive View Site Plan—Full Build Out
The Smith Group

Appendix A2

NOP/IS Public Comments and Responses to Comments

STATE OF CALIFORNIA
NATIVE AMERICAN HERITAGE COMMISSION
1550 Harbor Blvd., Suite 100
West Sacramento, CA 95691
Phone (916) 373-3710
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March 30, 2016

Clarice Nash
Los Angeles County Department of Public Works
900 South Fremont Avenue
Los Angeles, CA 91803

sent via e-mail:
cnash@dpw.lacounty.gov
Number of pages: 4

RE: SCH# 2016031090 Olive View- UCLA Medical Center Campus Master Plan Project, Draft Environmental Impact Report, Community of Sylmar, Los Angeles County, California

Dear Ms. Nash:

The Native American Heritage Commission has received the Notice of Preparation (NOP) for the project referenced above. The California Environmental Quality Act (CEQA) (Pub. Resources Code § 21000 et seq.), specifically Public Resources Code section 21084.1, states that a project that may cause a substantial adverse change in the significance of an historical resource is a project that may have a significant effect on the environment. (Pub. Resources Code § 21084.1; Cal. Code Regs., tit.14, § 15064.5 (b) (CEQA Guidelines Section 15064.5 (b)). If there is substantial evidence, in light of the whole record before a lead agency, that a project may have a significant effect on the environment, an environmental impact report (EIR) shall be prepared. (Pub. Resources Code § 21080 (d); Cal. Code Regs., tit. 14, § 15064 subd.(a)(1) (CEQA Guidelines § 15064 (a)(1)). In order to determine whether a project will cause a substantial adverse change in the significance of a historical resource, a lead agency will need to determine whether there are historical resources with the area of project effect (APE).

CEQA was amended significantly in 2014. Assembly Bill 52 (Gatto, Chapter 532, Statutes of 2014) (AB 52) amended CEQA to create a separate category of cultural resources, "tribal cultural resources" (Pub. Resources Code § 21074) and provides that a project with an effect that may cause a substantial adverse change in the significance of a tribal cultural resource is a project that may have a significant effect on the environment. (Pub. Resources Code § 21084.2). Public agencies shall, when feasible, avoid damaging effects to any tribal cultural resource. (Pub. Resources Code § 21084.3 (a)). **AB 52 applies to any project for which a notice of preparation or a notice of negative declaration or mitigated negative declaration is filed on or after July 1, 2015.** If your project involves the adoption of or amendment to a general plan or a specific plan, or the designation or proposed designation of open space, on or after March 1, 2005, it may also be subject to Senate Bill 18 (Burton, Chapter 905, Statutes of 2004) (SB 18). **Both SB 18 and AB 52 have tribal consultation requirements**. If your project is also subject to the federal National Environmental Policy Act (42 U.S.C. § 4321 et seq.) (NEPA), the tribal consultation requirements of Section 106 of the National Historic Preservation Act of 1966 (154 U.S.C. 300101, 36 C.F.R. § 800 et seq.) may also apply.

The NAHC recommends consultation with California Native American tribes that are traditionally and culturally affiliated with the geographic area of your proposed project as early as possible in order to avoid inadvertent discoveries of Native American human remains and best protect tribal cultural resources. Below is a brief summary of portions of AB 52 and SB 18 as well as the NAHC's recommendations for conducting cultural resources assessments. **Consult your legal counsel about compliance with AB 52 and SB 18 as well as compliance with any other applicable laws.**

AB 52

AB 52 has added to CEQA the additional requirements listed below, along with many other requirements:

1. Fourteen Day Period to Provide Notice of Completion of an Application/Decision to Undertake a Project: Within fourteen (14) days of determining that an application for a project is complete or of a decision by a public agency to undertake a project, a lead agency shall provide formal notification to a designated contact of, or tribal representative of, traditionally and culturally affiliated California Native American tribes that have requested notice, to be accomplished by at least one written notice that includes:
   a. A brief description of the project.
   b. The lead agency contact information.
   c. Notification that the California Native American tribe has 30 days to request consultation. (Pub. Resources Code § 21080.3.1 (d)).
   d. A "California Native American tribe" is defined as a Native American tribe located in California that is on the contact list maintained by the NAHC for the purposes of Chapter 905 of Statutes of 2004 (SB 18). (Pub. Resources Code § 21073).

2. Begin Consultation Within 30 Days of Receiving a Tribe's Request for Consultation and Before Releasing a Negative Declaration, Mitigated Negative Declaration, or Environmental Impact Report: A lead agency shall begin the consultation process within 30 days of receiving a request for consultation from a California Native American tribe that is traditionally and culturally affiliated with the geographic area of the proposed project. (Pub. Resources Code § 21080.3.1, subds. (d) and (e)) and prior to the release of a negative declaration, mitigated negative declaration or environmental impact report. (Pub. Resources Code § 21080.3.1(b)).
   a. For purposes of AB 52, "consultation shall have the same meaning as provided in Gov. Code § 65352.4 (SB 18). (Pub. Resources Code § 21080.3.1 (b)).

3. Mandatory Topics of Consultation If Requested by a Tribe: The following topics of consultation, if a tribe requests to discuss them, are mandatory topics of consultation:
   a. Alternatives to the project.
   b. Recommended mitigation measures.

c. Significant effects. (Pub. Resources Code § 21080.3.2 (a)).

4. Discretionary Topics of Consultation: The following topics are discretionary topics of consultation:
   a. Type of environmental review necessary.
   b. Significance of the tribal cultural resources.
   c. Significance of the project's impacts on tribal cultural resources.
   d. If necessary, project alternatives or appropriate measures for preservation or mitigation that the tribe may recommend to the lead agency. (Pub. Resources Code § 21080.3.2 (a)).

5. Confidentiality of Information Submitted by a Tribe During the Environmental Review Process: With some exceptions, any information, including but not limited to, the location, description, and use of tribal cultural resources submitted by a California Native American tribe during the environmental review process shall not be included in the environmental document or otherwise disclosed by the lead agency or any other public agency to the public, consistent with Government Code sections 6254 (r) and 6254.10. Any information submitted by a California Native American tribe during the consultation or environmental review process shall be published in a confidential appendix to the environmental document unless the tribe that provided the information consents, in writing, to the disclosure of some or all of the information to the public. (Pub. Resources Code § 21082.3 (c)(1)).

6. Discussion of Impacts to Tribal Cultural Resources in the Environmental Document: If a project may have a significant impact on a tribal cultural resource, the lead agency's environmental document shall discuss both of the following:
   a. Whether the proposed project has a significant impact on an identified tribal cultural resource.
   b. Whether feasible alternatives or mitigation measures, including those measures that may be agreed to pursuant to Public Resources Code section 21082.3, subdivision (a), avoid or substantially lessen the impact on the identified tribal cultural resource. (Pub. Resources Code § 21082.3 (b)).

7. Conclusion of Consultation: Consultation with a tribe shall be considered concluded when either of the following occurs:
   a. The parties agree to measures to mitigate or avoid a significant effect, if a significant effect exists, on a tribal cultural resource; or
   b. A party, acting in good faith and after reasonable effort, concludes that mutual agreement cannot be reached. (Pub. Resources Code § 21080.3.2 (b)).

8. Recommending Mitigation Measures Agreed Upon in Consultation in the Environmental Document: Any mitigation measures agreed upon in the consultation conducted pursuant to Public Resources Code section 21080.3.2 shall be recommended for inclusion in the environmental document and in an adopted mitigation monitoring and reporting program, if determined to avoid or lessen the impact pursuant to Public Resources Code section 21082.3, subdivision (b), paragraph 2, and shall be fully enforceable. (Pub. Resources Code § 21082.3 (a)).

9. Required Consideration of Feasible Mitigation: If mitigation measures recommended by the staff of the lead agency as a result of the consultation process are not included in the environmental document or if there are no agreed upon mitigation measures at the conclusion of consultation, or if consultation does not occur, and if substantial evidence demonstrates that a project will cause a significant effect to a tribal cultural resource, the lead agency shall consider feasible mitigation pursuant to Public Resources Code section 21084.3 (b). (Pub. Resources Code § 21082.3 (e)).

10. Examples of Mitigation Measures That, If Feasible, May Be Considered to Avoid or Minimize Significant Adverse Impacts to Tribal Cultural Resources:
    a. Avoidance and preservation of the resources in place, including, but not limited to:
       i. Planning and construction to avoid the resources and protect the cultural and natural context.
       ii. Planning greenspace, parks, or other open space, to incorporate the resources with culturally appropriate protection and management criteria.
    b. Treating the resource with culturally appropriate dignity, taking into account the tribal cultural values and meaning of the resource, including, but not limited to, the following:
       i. Protecting the cultural character and integrity of the resource.
       ii. Protecting the traditional use of the resource.
       iii. Protecting the confidentiality of the resource.
    c. Permanent conservation easements or other interests in real property, with culturally appropriate management criteria for the purposes of preserving or utilizing the resources or places.
    d. Protecting the resource. (Pub. Resource Code § 21084.3 (b)).
    e. Please note that a federally recognized California Native American tribe or a nonfederally recognized California Native American tribe that is on the contact list maintained by the NAHC to protect a California prehistoric, archaeological, cultural, spiritual, or ceremonial place may acquire and hold conservation easements if the conservation easement is voluntarily conveyed. (Civ. Code § 815.3 (c)).
    f. Please note that it is the policy of the state that Native American remains and associated grave artifacts shall be repatriated. (Pub. Resources Code § 5097.991).

11. Prerequisites for Certifying an Environmental Impact Report or Adopting a Mitigated Negative Declaration or Negative Declaration with a Significant Impact on an Identified Tribal Cultural Resource: An environmental impact report may not be certified, nor may a mitigated negative declaration or a negative declaration be adopted unless one of the following occurs:
    a. The consultation process between the tribes and the lead agency has occurred as provided in Public Resources Code sections 21080.3.1 and 21080.3.2 and concluded pursuant to Public Resources Code section 21080.3.2.
    b. The tribe that requested consultation failed to provide comments to the lead agency or otherwise failed to engage in the consultation process.
    c. The lead agency provided notice of the project to the tribe in compliance with Public Resources Code section 21080.3.1 (d) and the tribe failed to request consultation within 30 days. (Pub. Resources Code § 21082.3 (d)).

This process should be documented in the Cultural Resources section of your environmental document.

The NAHC's PowerPoint presentation titled, "Tribal Consultation Under AB 52: Requirements and Best Practices" may be found online at: http://nahc.ca.gov/wp-content/uploads/2015/10/AB52TribalConsultation_CalEPAPDF.pdf

SB 18

SB 18 applies to local governments and requires local governments to contact, provide notice to, refer plans to, and consult with tribes prior to the adoption or amendment of a general plan or a specific plan, or the designation of open space. (Gov. Code § 65352.3). Local governments should consult the Governor's Office of Planning and Research's "Tribal Consultation Guidelines," which can be found online at: https://www.opr.ca.gov/docs/09_14_05_Updated_Guidelines_922.pdf

Some of SB 18's provisions include:

1. Tribal Consultation: If a local government considers a proposal to adopt or amend a general plan or a specific plan, or to designate open space it is required to contact the appropriate tribes identified by the NAHC by requesting a "Tribal Consultation List." If a tribe, once contacted, requests consultation the local government must consult with the tribe on the plan proposal. **A tribe has 90 days from the date of receipt of notification to request consultation unless a shorter timeframe has been agreed to by the tribe.** (Gov. Code § 65352.3 (a)(2)).
2. No Statutory Time Limit on SB 18 Tribal Consultation. There is no statutory time limit on SB 18 tribal consultation.
3. Confidentiality: Consistent with the guidelines developed and adopted by the Office of Planning and Research pursuant to Gov. Code section 65040.2, the city or county shall protect the confidentiality of the information concerning the specific identity, location, character, and use of places, features and objects described in Public Resources Code sections 5097.9 and 5097.993 that are within the city's or county's jurisdiction. (Gov. Code § 65352.3 (b)).
4. Conclusion of SB 18 Tribal Consultation: Consultation should be concluded at the point in which:
    a. The parties to the consultation come to a mutual agreement concerning the appropriate measures for preservation or mitigation; or
    b. Either the local government or the tribe, acting in good faith and after reasonable effort, concludes that mutual agreement cannot be reached concerning the appropriate measures of preservation or mitigation. (Tribal Consultation Guidelines, Governor's Office of Planning and Research (2005) at p. 18).

Agencies should be aware that neither AB 52 nor SB 18 precludes agencies from initiating tribal consultation with tribes that are traditionally and culturally affiliated with their jurisdictions before the timeframes provided in AB 52 and SB 18. For that reason, we urge you to continue to request Native American Tribal Contact Lists and "Sacred Lands File" searches from the NAHC. The request forms can be found online at: http://nahc.ca.gov/resources/forms/

NAHC Recommendations for Cultural Resources Assessments

To adequately assess the existence and significance of tribal cultural resources and plan for avoidance, preservation in place, or barring both, mitigation of project-related impacts to tribal cultural resources, the NAHC recommends the following actions:

1. Contact the appropriate regional California Historical Research Information System (CHRIS) Center (http://ohp.parks.ca.gov/?page_id=1068) for an archaeological records search. The records search will determine:
    a. If part or all of the APE has been previously surveyed for cultural resources.
    b. If any known cultural resources have been already been recorded on or adjacent to the APE.
    c. If the probability is low, moderate, or high that cultural resources are located in the APE.
    d. If a survey is required to determine whether previously unrecorded cultural resources are present.

2. If an archaeological inventory survey is required, the final stage is the preparation of a professional report detailing the findings and recommendations of the records search and field survey.
    a. The final report containing site forms, site significance, and mitigation measures should be submitted immediately to the planning department. All information regarding site locations, Native American human remains, and associated funerary objects should be in a separate confidential addendum and not be made available for public disclosure.
    b. The final written report should be submitted within 3 months after work has been completed to the appropriate regional CHRIS center.

3. Contact the NAHC for:
    a. A Sacred Lands File search. Remember that tribes do not always record their sacred sites in the Sacred Lands File, nor are they required to do so. A Sacred Lands File search is not a substitute for consultation with tribes that are traditionally and culturally affiliated with the geographic area of the project's APE.
    b. A Native American Tribal Consultation List of appropriate tribes for consultation concerning the project site and to assist in planning for avoidance, preservation in place, or, failing both, mitigation measures.

4. Remember that the lack of surface evidence of archaeological resources (including tribal cultural resources) does not preclude their subsurface existence.
    a. Lead agencies should include in their mitigation and monitoring reporting program plan provisions for the identification and evaluation of inadvertently discovered archaeological resources per Cal. Code Regs., tit. 14, section 15064.5(f) (CEQA Guidelines section 15064.5(f)). In areas of identified archaeological sensitivity, a certified archaeologist and a culturally affiliated Native American with knowledge of cultural resources should monitor all ground-disturbing activities.
    b. Lead agencies should include in their mitigation and monitoring reporting program plans provisions for the disposition of recovered cultural items that are not burial associated in consultation with culturally affiliated Native Americans.
    c. Lead agencies should include in their mitigation and monitoring reporting program plans provisions for the treatment and disposition of inadvertently discovered Native American human remains. Health and Safety Code section 7050.5, Public Resources Code section 5097.98, and Cal. Code Regs., tit. 14, section 15064.5,

subdivisions (d) and (e) (CEQA Guidelines section 15064.5, subds. (d) and (e)) address the processes to be followed in the event of an inadvertent discovery of any Native American human remains and associated grave goods in a location other than a dedicated cemetery.

Please contact me if you need any additional information at gayle.totton@nahc.ca.gov.

Sincerely,

Gayle Totton, M.A., PhD.
Associate Governmental Program Analyst

cc: State Clearinghouse

U.S. Department of Homeland Security
FEMA Region IX
1111 Broadway, Suite 1200
Oakland, CA. 94607-4052

FEMA

April 12, 2016

Clarice Nash, Project Manager
County of Los Angeles, Department of Public Works
Project Management Division
900 South Fremont Avenue
Alhambra, California 91803-1331

Dear Ms. Nash:

This is in response to your request for comments regarding the Notice of Preparation of the Olive View-UCLA Medical Center Campus Master Plan Environmental Impact Report project.

Please review the current effective countywide Flood Insurance Rate Maps (FIRMs) for the County of Los Angeles (Community Number 065043), Maps revised January 6, 2016. Please note that the County of Los Angeles, California is a participant in the National Flood Insurance Program (NFIP). The minimum, basic NFIP floodplain management building requirements are described in Vol. 44 Code of Federal Regulations (44 CFR), Sections 59 through 65.

A summary of these NFIP floodplain management building requirements are as follows:

- All buildings constructed within a riverine floodplain, (i.e., Flood Zones A, AO, AH, AE, and A1 through A30 as delineated on the FIRM), must be elevated so that the lowest floor is at or above the Base Flood Elevation level in accordance with the effective Flood Insurance Rate Map.

- If the area of construction is located within a Regulatory Floodway as delineated on the FIRM, any ***development*** must not increase base flood elevation levels. **The term *development* means any man-made change to improved or unimproved real estate, including but not limited to buildings, other structures, mining, dredging, filling, grading, paving, excavation or drilling operations, and storage of equipment or materials.** A hydrologic and hydraulic analysis must be performed *prior* to the start of development, and must demonstrate that the development would not cause any rise in base flood levels. No rise is permitted within regulatory floodways.

- All buildings constructed within a coastal high hazard area, (any of the "V" Flood Zones as delineated on the FIRM), must be elevated on pilings and columns, so that the lowest horizontal structural member, (excluding the pilings and columns), is elevated to or above the base flood elevation level. In addition, the posts and pilings foundation and the structure attached thereto, is anchored to resist flotation, collapse and lateral movement due to the effects of wind and water loads acting simultaneously on all building components.

- Upon completion of any development that changes existing Special Flood Hazard Areas, the NFIP directs all participating communities to submit the appropriate hydrologic and hydraulic data to FEMA for a FIRM revision. In accordance with 44 CFR, Section 65.3, as soon as practicable, but not later than six months after such data becomes available, a community shall notify FEMA of the changes by submitting technical data for a flood map revision. To obtain copies of FEMA's Flood Map Revision Application Packages, please refer to the FEMA website at http://www.fema.gov/business/nfip/forms.shtm.

Please Note:

Many NFIP participating communities have adopted floodplain management building requirements which are more restrictive than the minimum federal standards described in 44 CFR. Please contact the local community's floodplain manager for more information on local floodplain management building requirements. The Los Angeles County floodplain manager can be reached by calling George De La O, Senior Civil Engineer, at (626) 458-7155.

If you have any questions or concerns, please do not hesitate to call Michael Hornick of the Mitigation staff at (510) 627-7260.

Sincerely,

Gregor Blackburn, CFM, Branch Chief
Floodplain Management and Insurance Branch

cc:
George De La O, Senior Civil Engineer, County of Los Angeles
Garret Tam Sing/Salomon Miranda, State of California, Department of Water Resources, Southern Region Office
Michael Hornick, NFIP Planner, DHS/FEMA Region IX
Alessandro Amaglio, Environmental Officer, DHS/FEMA Region IX

South Coast
Air Quality Management District
21865 Copley Drive, Diamond Bar, CA 91765-4178
(909) 396-2000 • www.aqmd.gov

April 14, 2016

Clarice Nash, Project Manager
County of Los Angeles Department of Public Works
Project Management Division I
900 S. Fremont Avenue
Alhambra, CA 91803-1331

Notice of Preparation of a CEQA Document for the
Olive View - UCLA Medical Center Campus Master Plan Project

The South Coast Air Quality Management District (SCAQMD) staff appreciates the opportunity to comment on the above-mentioned document. The SCAQMD staff's comments are recommendations regarding the analysis of potential air quality impacts from the proposed project that should be included in the Draft EIR. Please send the SCAQMD a copy of the CEQA document upon its completion. Note that copies of the Draft EIR that are submitted to the State Clearinghouse are not forwarded to the SCAQMD. Please forward a copy of the Draft EIR directly to SCAQMD at the address in our letterhead. **In addition, please send with the Draft EIR all appendices or technical documents related to the air quality and greenhouse gas analyses and electronic versions of all air quality modeling and health risk assessment files. These include original emission calculation spreadsheets and modeling files (not Adobe PDF files). Without all files and supporting air quality documentation, the SCAQMD will be unable to complete its review of the air quality analysis in a timely manner. Any delays in providing all supporting air quality documentation will require additional time for review beyond the end of the comment period.**

Air Quality Analysis

The SCAQMD adopted its California Environmental Quality Act (CEQA) Air Quality Handbook in 1993 to assist other public agencies with the preparation of air quality analyses. The SCAQMD recommends that the Lead Agency use this Handbook as guidance when preparing its air quality analysis. Copies of the Handbook are available from the SCAQMD's Subscription Services Department by calling (909) 396-3720. More recent guidance developed since this Handbook was published is also available on SCAQMD's website here: http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/ceqa-air-quality-handbook-(1993). SCAQMD staff also recommends that the Lead Agency use the CalEEMod land use emissions software. This software has recently been updated to incorporate up-to-date state and locally approved emission factors and methodologies for estimating pollutant emissions from typical land use development. CalEEMod is the only software model maintained by the California Air Pollution Control Officers Association (CAPCOA) and replaces the now outdated URBEMIS. This model is available free of charge at: www.caleemod.com.

The Lead Agency should identify any potential adverse air quality impacts that could occur from all phases of the project and all air pollutant sources related to the project. Air quality impacts from both construction (including demolition, if any) and operations should be calculated. Construction-related air quality impacts typically include, but are not limited to, emissions from the use of heavy-duty equipment from grading, earth-loading/unloading, paving, architectural coatings, off-road mobile sources (e.g., heavy-duty construction equipment) and on-road mobile sources (e.g., construction worker vehicle trips, material transport trips). Operation-related air quality impacts may include, but are not limited to, emissions from stationary sources (e.g., boilers), area sources (e.g., solvents and coatings), and vehicular trips (e.g., on- and off-road tailpipe emissions and entrained dust). Air quality impacts from indirect sources, that is, sources that generate or attract vehicular trips should be included in the analysis.

The SCAQMD has also developed both regional and localized significance thresholds. The SCAQMD staff requests that the Lead Agency quantify criteria pollutant emissions and compare the results to the recommended regional significance thresholds found here: http://www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf. In addition to analyzing regional air quality impacts, the SCAQMD staff recommends calculating localized air quality impacts and comparing the results to localized significance thresholds (LSTs). LSTs can be used in addition to the recommended regional significance thresholds as a second indication of air quality impacts when preparing a Draft EIR. Therefore, when preparing the air quality analysis for the proposed project, it is recommended that the Lead

Agency perform a localized analysis by either using the LSTs developed by the SCAQMD or performing dispersion modeling as necessary. Guidance for performing a localized air quality analysis can be found at: http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/localized-significance-thresholds.

In the event that the proposed project generates or attracts vehicular trips, especially heavy-duty diesel-fueled vehicles, it is recommended that the lead agency perform a mobile source health risk assessment. Guidance for performing a mobile source health risk assessment ("*Health Risk Assessment Guidance for Analyzing Cancer Risk from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis*") can be found at: http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/mobile-source-toxics-analysis. An analysis of all toxic air contaminant impacts due to the use of equipment potentially generating such air pollutants should also be included.

In addition, guidance on siting incompatible land uses (such as placing homes near freeways) can be found in the California Air Resources Board's *Air Quality and Land Use Handbook: A Community Perspective*, which can be found at the following internet address: http://www.arb.ca.gov/ch/handbook.pdf. CARB's Land Use Handbook is a general reference guide for evaluating and reducing air pollution impacts associated with new projects that go through the land use decision-making process.

Mitigation Measures

In the event that the project generates significant adverse air quality impacts, CEQA requires that all feasible mitigation measures that go beyond what is required by law be utilized during project construction and operation to minimize or eliminate these impacts. Pursuant to CEQA Guidelines §15126.4 (a)(1)(D), any impacts resulting from mitigation measures must also be discussed. Several resources are available to assist the Lead Agency with identifying possible mitigation measures for the project, including:

- Chapter 11 of the SCAQMD *CEQA Air Quality Handbook*
- SCAQMD's CEQA web pages at: http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/mitigation-measures-and-control-efficiencies.
- CAPCOA's *Quantifying Greenhouse Gas Mitigation Measures* available here: http://www.capcoa.org/wp-content/uploads/2010/11/CAPCOA-Quantification-Report-9-14-Final.pdf.
- SCAQMD's Rule 403 – Fugitive Dust, and the Implementation Handbook for controlling construction-related emissions
- Other measures to reduce air quality impacts from land use projects can be found in the SCAQMD's Guidance Document for Addressing Air Quality Issues in General Plans and Local Planning. This document can be found at the following internet address: http://www.aqmd.gov/docs/default-source/planning/air-quality-guidance/complete-guidance-document.pdf.

Data Sources

SCAQMD rules and relevant air quality reports and data are available by calling the SCAQMD's Public Information Center at (909) 396-2039. Much of the information available through the Public Information Center is also available via the SCAQMD's webpage (http://www.aqmd.gov).

The SCAQMD staff is available to work with the Lead Agency to ensure that project emissions are accurately evaluated and mitigated where feasible. If you have any questions regarding this letter, please contact Gordon Mize, Air Quality Specialist by e-mail at gmize@aqmd.gov or by phone at (909) 396-3302.

Sincerely,

Jillian Wong

Jillian Wong, Ph.D.
Program Supervisor
Planning, Rule Development & Area Sources

LAC160407-12
Control Number

Los Angeles Unified School District

Office of Environmental Health and Safety

MICHELLE KING
Superintendent of Schools

THELMA MELÉNDEZ, PH.D.
Chief Executive Officer, Office of Educational Services

ROBERT LAUGHTON
Director, Environmental Health and Safety

CARLOS A. TORRES
Deputy Director, Environmental Health and Safety

April 15, 2016

Clarice Nash, Project Manager
County of Los Angeles Department of Public Works
Project Management Division I
900 S. Fremont Ave.
Alhambra, CA 91803-1331

Submitted via electronic mail

SUBJECT: Olive View-UCLA Medical Center Campus Master Plan

Presented in this email are comments submitted on behalf of the Los Angeles Unified School District (LAUSD) relating to the proposed Olive View-UCLA Medical Center Campus Master Plan Project (proposed project). The proposed project would entail development of the Olive View-UCLA Medical Center Campus and the ongoing delivery of health care services and programs. LAUSD appreciates the opportunity to be a part of the County of Los Angeles' (County's) environmental planning process and looks forward to working with the County to identify and mitigate potential environmental impacts on schools located within the impact zone of the proposed project.

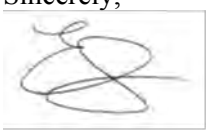
Specific environmental impact categories that are of particular concern to LAUSD include, but are not limited to:

- Air Quality (Construction - cumulative net increases in criteria air pollutants in the region)
- Hazards & Hazardous Materials (Construction & Operation - hazards/hazardous materials transport)
- Traffic & Transportation (Construction & Operation - traffic and pedestrian safety)

LAUSD's charge is to protect the health and safety of students and staff, and the integrity of the learning environment. If additional issues are identified by LAUSD, we will bring them to the attention of the County.

Thank you for your attention to this matter. Please include LAUSD on all future notices related to the proposed project. If you need additional information regarding our schools, you may contact me at (213) 241-3417.

Sincerely,



Eimon Smith
CEQA Project Manager/Contract Professional
LAUSD, Office of Environmental Health & Safety

Rudy Ortega Jr.
Tribal President

Fernandeño Tataviam Band of Mission Indians
Tribal Historic & Cultural Preservation

Tribal Historic & Cultural Preservation Committee
Steve Ortega
Chairman
Arturo Paredes Jr.
David Ortega

April 21, 2016

County of Los Angeles
Department of Public Works
Project Management Division I
P.O Box 1460
Alhambra, CA 91802-1460

RE: Formal Request for Tribal Consultation Pursuant to the California Environmental Quality Act (CEQA), Public Resources Code section 21080.3.1, subdivision (b), (d) and (e) for Olive View-UCLA Medical Center Campus Master Plan

Dear Mr. Moey,

This letter constitutes a formal request for tribal consultation under the provisions of the California Environmental Quality Act (CEQA) (Public Resources Code section 21080.3.1 subdivisions (b), (d) and (e)) for the mitigation of potential impacts to tribal cultural resources for the above referenced project (Project).

The Fernandeño Tataviam Band of Mission Indians requests that the lead agency forward to the contact below the estimated cubic yards of soil disturbance for the Project. Additional data may be requested from your agency. Please contact Caitlin Gulley with any questions or for additional information:

Caitlin Gulley, Director
Tribal Historic and Cultural Preservation Department
1019 Second St.
San Fernando, CA 91340

Sincerely,

Sedna Villavicencio
Tribal Historic and Cultural Preservation Department

COUNTY OF LOS ANGELES

FIRE DEPARTMENT

1320 NORTH EASTERN AVENUE
LOS ANGELES, CALIFORNIA 90063-3294

DARYL L. OSBY
FIRE CHIEF
FORESTER & FIRE WARDEN

April 25, 2016

Clarice Nash, Project Manager
Department of Public Works
Project Management Division I
900 South Fremont Avenue
Alhambra, CA 91803

Dear Ms. Nash:

NOTICE OF PREPARATION ENVIRONMENTAL IMPACT REPORT, "OLIVE VIEW-UCLA MEDICAL CAMPUS MASTER PLAN", GUIDES FUTURE DEVELOPMENT OF THE CAMPUS AND THE DELIVERY OF HEALTH CARE SERVICES AND HEALTH RELATED COMMUNITY PROGRAMS, 14445 OLIVE VIEW DRIVE, SYLMAR (FFER 201600049)

The Notice of Preparation Environmental Impact Report has been reviewed by the Planning Division, Land Development Unit, Forestry Division, and Health Hazardous Materials Division of the County of Los Angeles Fire Department. The following are their comments:

PLANNING DIVISION:

1. The subject property is entirely within the City of Los Angeles, which is not a part of the emergency response area of the Los Angeles County Fire Department (also known as the Consolidated Fire Protection District of Los Angeles County). Therefore, this project does not appear to have any impact on the emergency responsibilities of this Department.

LAND DEVELOPMENT UNIT:

The Land Development Unit is reviewing the proposed "Olive View-UCLA Medical Center Campus Master Plan" for access and water system requirements, along with Fuel Modification. The Land Development Unit comments are only general requirements. Specific fire and life safety requirements will be addressed during the review for building and fire plan check phases. There may be additional requirements during this time.

The development of this project must comply with all applicable code and ordinance requirements for construction, access, water mains, fire flows, and fire hydrants.

Access Requirements

1. The proposed development will require multiple ingress/egress access for the circulation of traffic and emergency response issues.

2. All on-site Fire Department's vehicular access roads shall be labeled as "Private Driveway and Fire Lane" on the site plan along with the widths clearly depicted on the plan. Labeling is necessary to assure the access availability for Fire Department use. The designation allows for appropriate signage prohibiting parking.

    a. The Fire Apparatus Access Road shall be cross-hatch on the site plan with the width clearly noted on the plan.

3. Every building constructed shall be accessible to Fire Department's apparatus by way of access roadways with an all-weather surface of not less than the prescribed width. The roadway shall be extended to within 150 feet of all portions of the exterior walls when measured by an unobstructed route around the exterior of the building.

4. Fire Apparatus Access Roads must be installed and maintained in a serviceable manner prior to and during the time of construction.

5. The edge of the Fire Apparatus Access Road shall be located a minimum of 5 feet from the building or any projections there from.

6. The Fire Apparatus Access Roads and designated fire lanes shall be measured from flow line to flow line.

7. The dimensions of the approved Fire Apparatus Access Roads shall be maintained as originally approved by the fire code official.

8. Provide a minimum unobstructed width of 28 feet, exclusive of shoulders and an unobstructed vertical clearance "clear to sky" Fire Department's vehicular access to within 150 feet of all portions of the exterior walls of the first story of the building as measured by an approved route around the exterior of the building when the height of the building above the lowest level of the Fire Department's vehicular access road is more than 30 feet high or the building is more than three stories. The access roadway shall be located a minimum of 15 feet and a maximum of 30 feet from the building and shall be positioned parallel to one entire side of the building. The side of the building on which the aerial fire apparatus access road is positioned shall be approved by the fire code official.

9. If the Fire Apparatus Access Road is separated by island, provide a minimum unobstructed width of 20 feet, exclusive of shoulders and an unobstructed vertical clearance "clear to sky" Fire Department's vehicular access to within 150 feet of all portions of the exterior walls of the first story of the building as measured by an approved route around the exterior of the building.

10. Dead-end Fire Apparatus Access Roads in excess of 150 feet in length shall be provided with an approved Fire Department turnaround. Include the dimensions of the turnaround, with the orientation of the turnaround shall be properly placed in the direction of travel of the access roadway.

11. Fire Department Access Roads shall be provided with a 32 foot centerline turning radius. Indicate the centerline, inside, and outside turning radii for each change in direction on the site plan

12. Fire Apparatus Access Roads shall be designed and maintained to support the imposed load of fire apparatus weighing 75,000 lbs., and shall be surfaced so as to provide all-weather driving capabilities. Fire apparatus access roads having a grade of 10 percent or greater shall have a paved or concrete surface.

13. Provide approved signs or other approved notices or markings that include the words "NO PARKING - FIRE LANE". Signs shall have a minimum dimension of 12 inches wide by 18 inches high and have red letters on a white reflective background. Signs shall be provided for fire apparatus access roads, to clearly indicate the entrance to such road, or prohibit the obstruction thereof and at intervals, as required by the Fire Inspector.

14. A minimum 5 foot wide approved firefighter access walkway leading from the fire department access road to all required openings in the building's exterior walls shall be provided for firefighting and rescue purposes. Clearly identify firefighter walkway access routes on the site plan. Indicate the slope and walking surface material. Clearly show the required width on the site plan.

15. Fire Apparatus Access Roads shall not be obstructed in any manner including by the parking of vehicles or the use of traffic calming devices including but not limited to, speed bumps, or speed humps. The minimum widths and clearances established in Fire Code Section 503.2.1 shall be maintained at all times.

16. Traffic Calming Devices including but not limited to, speed bumps, and speed humps shall be prohibited unless approved by the fire code official.

17. Security barriers, visual screen barriers, or other obstructions shall not be installed on the roof of any building in such a manner as to obstruct firefighter access or egress in the event of fire or other emergency. Parapets shall not exceed 48 inches from the top of the parapet to the roof surface on more than two sides. Clearly indicate the height of all parapets in a section view.

18. Approved building address numbers, building numbers, or approved building identification shall be provided and maintained so as to be plainly visible and legible from the street fronting the property. The numbers shall contrast with their background, be Arabic numerals or alphabet letters, and be a minimum of 4 inches high with a minimum stroke width of 0.5 inch.

19. Multiple residential and commercial buildings having entrances to individual units not visible from the street or road shall have unit numbers displayed in groups for all units within each structure. Such numbers may be grouped on the wall of the structure or mounted on a post independent of the structure and shall be positioned to be plainly visible from the street or road as required by Fire Code 505.3 and in accordance with Fire Code 505.1.

20. Gate Requirements: The method of gate control shall be subject to review by the Fire Department prior to approval. All gates, to control vehicular access, shall be in compliance with the following:

    a. Any single gated opening used for ingress and egress shall be a minimum of 28 feet in-width, clear-to-sky.

b. Any divided gate opening (when each gate is used for a single direction of travel i.e., ingress or egress) shall be a minimum width of 20 feet clear-to-sky.

c. Gates and/or control devices shall be positioned a minimum of 50 feet from a public right-of-way and shall be provided with a turnaround having a minimum of 32 feet of turning radius. If an intercom system is used, the 50 feet shall be measured from the right-of-way to the intercom control device.

d. The security gate shall be provided with an approved means of emergency operation and shall be maintained operational at all times and replaced or repaired when defective. Electric gate operators, where provided, shall be listed in accordance with UL 325. Gates intended for automatic operation shall be designed, constructed and installed to comply with the requirements of ASTM F220. Gates shall be of the swinging or sliding type. Construction of gates shall be of materials that allow manual operation by one person.

e. Gate plans shall be submitted to the Fire Department prior to installation. These plans shall show all locations, widths, and details of the proposed gates.

Water System Requirements

1. All fire hydrants shall measure 6"x 4"x 2-1/2" brass or bronze, conforming to current AWWA standard C503 or approved equal and shall be installed in accordance with the County of Los Angeles Fire Department Regulation 8.

2. The development may require fire flows up to 8,000 gallons per minute at 20 pounds per square inch residual pressure for up to a five-hour duration. Final fire flows will be based on the size of buildings, the installation of an automatic fire sprinkler system, and type(s) of construction used.

3. The fire hydrant spacing shall be every 300 feet for both the public and the on-site hydrants. The fire hydrants shall meet the following requirements:

   a. No portion of lot frontage shall be more than 200 feet via vehicular access from a public fire hydrant.

b. No portion of a building shall exceed 400 feet via vehicular access from a properly spaced public fire hydrant.

c. Additional hydrants will be required if hydrant spacing exceeds specified distances.

4. All required PUBLIC fire hydrants shall be installed, tested, and accepted prior to beginning construction.

5. All private on-site fire hydrants shall be installed, tested, and approved prior to building occupancy.

   a. Plans showing underground piping for private on-site fire hydrants shall be submitted to the Sprinkler Plan Check Unit for review and approval prior to installation.

6. An approved automatic fire sprinkler system is required for the proposed buildings within this development. Submit design plans to the Fire Department Sprinkler Plan Check Unit for review and approval prior to installation.

Fuel Modification

1. This property is located within the area described by the Fire Department as the Very High Fire Hazard Severity Zone. A "Preliminary Fuel Modification Plan" shall be submitted and approved prior to public hearing. For details, please contact the Department's Fuel Modification Unit which is located at Fire Station 32, 605 North Angeleno Avenue in the City of Azusa CA 91702-2904. They may be reached at (626) 969-5205.

For any questions regarding the report, please contact FPEA Wally Collins at (323) 890-4243, or at Wally.Collins@fire.lacounty.gov.

FORESTRY DIVISION – OTHER ENVIRONMENTAL CONCERNS:

1. The statutory responsibilities of the County of Los Angeles Fire Department's Forestry Division include erosion control, watershed management, rare and endangered species, vegetation, fuel modification for Very High Fire Hazard Severity Zones or Fire Zone 4, archeological and cultural resources, and the County Oak Tree Ordinance. Potential impacts in these areas should be addressed.

HEALTH HAZARDOUS MATERIALS DIVISION:

1. The Health Hazardous Materials Division (HHMD) of the Los Angeles County Fire Department has no comment regarding the project at this time.

If you have any additional questions, please contact this office at (323) 890-4330.

Very truly yours,

KEVIN T. JOHNSON, ACTING CHIEF, FORESTRY DIVISION
PREVENTION SERVICES BUREAU

KTJ:ad

DEPARTMENT OF TRANSPORTATION
DISTRICT 7-OFFICE OF TRANSPORTATION PLANNING
100 S. MAIN STREET, MS 16
LOS ANGELES, CA 90012
PHONE (213) 897-9140
FAX (213) 897-1337
www.dot.ca.gov

Serious drought.
Help save water!

April 27, 2016

Ms. Clarice Nash
Los Angeles County
Department of Public Works
900 South Fremont Ave.
Los Angeles, CA 91803

RE: Olive View-UCLA Medical Center
Campus Master Plan
Vic. LA-210/PM R1.945
SCH # 2016031090
IGR/CEQA No. 160402AL-NOP

Dear Ms. Nash:

Thank you for including the California Department of Transportation (Caltrans) in the environmental review process for the above referenced project. The project, Master Plan, will guide future development of the campus and the delivery of health care services and health related community programs. Full build-out of the Master Plan could result in a total of approximately 1,382,000 square feet of development throughout the campus.

To assist in evaluating the impacts of this project on State transportation facilities, a traffic study should be prepared prior to preparing the Draft Environmental Impact Report (DEIR). Please refer the project's traffic consultant to Caltrans' traffic study guide Website:

http://www.dot.ca.gov/hq/tpp/offices/ocp/igr_ceqa_files/tisguide.pdf

Listed below are some elements of what is generally expected in the traffic study:

1. Presentations of assumptions and methods used to develop trip generation, trip distribution, choice of travel mode, and assignments of trips to I-210 and all off ramps at Roxford St. The traffic consultant should work with Caltrans to identify and confirm the final off-ramp study locations prior to the preparation of the traffic study. The traffic study should also analyze the storage for left-turn pocket at Roxford St. to WB I-210 on-ramps.

For this project, the City should conduct an off-ramp queuing analysis utilizing the Highway Capacity Manual (HCM) queuing analysis methodology. The capacity of the off-ramp should be calculated by the actual length of the off-ramp between the terminuses to the gore point with some safety factor or referenced to Highway Design Manual at 23' point (Figure 504.2A Single Lane Freeway Entrance) or any other justified methods. The queue length should be calculated from the traffic counts and the percent of truck assignments (data from Caltrans) to the ramp with a passenger car equivalent factor of 3.0 (worst case scenario preferred). The analyzed result may need to be calibrated with actual signal timing, not optimal (default) signal timing when necessary. It is also recommended that the City determine whether the existing, existing plus project, and project-related plus cumulative traffic are expected to cause long queues on the on and off-ramps.

2. Project travel modeling should be consistent with other regional and local modeling forecasts and travel data. Caltrans uses the indices to verify the results and any differences or inconsistencies must be thoroughly explained. Please submit modeling assumptions for Caltrans review and comment.

3. Trip generation rates for the project should be based on the nationally recognized recommendations contained in "Trip Generation" manual, 9th edition, published by the Institute of Transportation Engineers (ITE).

4. Analysis of ADT, AM and PM peak-hour volumes for both the existing and future conditions in the affected area with and without project. Utilization of transit lines and vehicles, and of all facilities, should be realistically estimated. Future conditions should include build-out of all projects and any plan-horizon years.

5. Include all appropriate traffic volumes. The analysis should include existing traffic, traffic generated by the project, cumulative traffic generated from all specific approved developments in the area, and traffic growth other than from the project and developments.

6. A discussion of mitigation measures appropriate to alleviate anticipated traffic impacts should also be included. Any mitigation involving transit or Transportation Demand Management (TDM) should be justified and the results conservatively estimated.

7. A fair share contribution toward pre-established or future improvements on the State Highway System is considered acceptable mitigation. (Please see Appendix "B" of the Guide for more information).

We look forward to reviewing the traffic study and expect to receive a copy from the State Clearinghouse when the DEIR is completed. Should you wish to expedite the review process or receive early feedback from Caltrans please feel free to send a copy of the DEIR directly to our office.

Caltrans is committed in working with the City to solve traffic congestion on the State facilities. If you have any questions, please feel free to contact Mr. Alan Lin the project coordinator at (213) 897-8391 and refer to IGR/CEQA No. 160402AL.

Sincerely,

Alan Lin for

DIANNA WATSON
IGR/CEQA Branch Chief

cc: Scott Morgan, State Clearinghouse

SOUTHERN CALIFORNIA ASSOCIATION of GOVERNMENTS

Main Office

818 West 7th Street

12th Floor

Los Angeles, California

90017-3435

t (213) 236-1800

f (213) 236-1825

www.scag.ca.gov

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Energy & Environment
Deborah Robertson, Rialto

Transportation
Alan Wapner, San Bernardino Associated Governments

May 2, 2016

Ms. Clarice Nash, Project Manager
County of Los Angeles, Department of Public Works
900 South Fremont Avenue
Alhambra, California 91803-1331
E-mail: cnash@dpw.lacounty.gov

RE: SCAG Comments on the Notice of Preparation of a Draft Environmental Impact Report for the Olive View-UCLA Medical Center Campus Master Plan [SCAG NO. IGR8822]

Dear Ms. Clarice Nash

Thank you for submitting the Notice of Preparation of a Draft Environmental Impact Report for the Olive View-UCLA Medical Center Campus Master Plan ("proposed project") to the Southern California Association of Governments (SCAG) for review and comment. SCAG is the authorized regional agency for Inter-Governmental Review (IGR) of programs proposed for federal financial assistance and direct development activities, pursuant to Presidential Executive Order 12372. Additionally, SCAG reviews the Environmental Impact Reports of projects of regional significance for consistency with regional plans pursuant to the California Environmental Quality Act (CEQA) and CEQA Guidelines.

SCAG is also the designated Regional Transportation Planning Agency under state law, and is responsible for preparation of the Regional Transportation Plan (RTP) including the Sustainable Communities Strategy (SCS) pursuant to Senate Bill (SB) 375. As the clearinghouse for regionally significant projects per Executive Order 12372, SCAG reviews the consistency of local plans, projects, and programs with regional plans.[1] Guidance provided by these reviews is intended to assist local agencies such as local jurisdictions and project proponents to take actions that help contribute to the attainment of the regional goals and policies in the RTP/SCS.

SCAG staff has reviewed the Notice of Preparation of a Draft Environmental Impact Report for the Olive View-UCLA Medical Center Campus Master Plan in unincorporated Los Angeles County. The proposed project includes a master plan that will guide future development of the campus and the delivery of health care services and health related community programs on the 31.7 acre project site.

When available, please send environmental documentation to SCAG's *office in Los Angeles or by email to sunl@scag.ca.gov* providing, at a minimum, the full public comment period for review. If you have any questions regarding the attached comments, please contact the Inter-Governmental Review (IGR) Program, attn.: Lijin Sun, Senior Regional Planner, at (213) 236-1882 or sunl@scag.ca.gov. Thank you.

Sincerely,

Ping Chang

Ping Chang
Acting Manager, Compliance and Performance Monitoring

[1] Lead agencies such as local jurisdictions have the sole discretion in determining a local project's consistency with the 2016 RTP/SCS for the purpose of determining consistency for CEQA. Any "consistency" finding by SCAG pursuant to the IGR process should not be construed as a determination of consistency with the 2016 RTP/SCS for CEQA.

COMMENTS ON THE NOTICE OF PREPARATION OF A DRAFT ENVIRONMENTAL IMPACT REPORT FOR THE OLIVE VIEW-UCLA MEDICAL CENTER CAMPUS MASTER PLAN [SCAG NO. IGR8822]

CONSISTENCY WITH RTP/SCS

SCAG reviews environmental documents for regionally significant projects for their consistency with the adopted RTP/SCS. For the purpose of determining consistency with CEQA, lead agencies such as local jurisdictions have the sole discretion in determining a local project's consistency with the RTP/SCS.

2016 RTP/SCS GOALS

The SCAG Regional Council adopted the 2016 RTP/SCS in April 2016. The 2016 RTP/SCS seeks to improve mobility, promote sustainability, facilitate economic development and preserve the quality of life for the residents in the region. The long-range visioning plan balances future mobility and housing needs with goals for the environment, the regional economy, social equity and environmental justice, and public health (see http://scagrtpscs.net/Pages/FINAL2016RTPSCS.aspx). The goals included in the 2016 RTP/SCS may be pertinent to the proposed project. These goals are meant to provide guidance for considering the proposed project within the context of regional goals and policies. Among the relevant goals of the 2016 RTP/SCS are the following:

SCAG 2016 RTP/SCS GOALS	
RTP/SCS G1:	*Align the plan investments and policies with improving regional economic development and competitiveness*
RTP/SCS G2:	*Maximize mobility and accessibility for all people and goods in the region*
RTP/SCS G3:	*Ensure travel safety and reliability for all people and goods in the region*
RTP/SCS G4:	*Preserve and ensure a sustainable regional transportation system*
RTP/SCS G5:	*Maximize the productivity of our transportation system*
RTP/SCS G6:	*Protect the environment and health for our residents by improving air quality and encouraging active transportation (e.g., bicycling and walking)*
RTP/SCS G7:	*Actively encourage and create incentives for energy efficiency, where possible*
RTP/SCS G8:	*Encourage land use and growth patterns that facilitate transit and active transportation*
RTP/SCS G9:	*Maximize the security of the regional transportation system through improved system monitoring, rapid recovery planning, and coordination with other security agencies** **SCAG does not yet have an agreed-upon security performance measure.*

For ease of review, we encourage the use of a side-by-side comparison of SCAG goals with discussions of the consistency, non-consistency or non-applicability of the goals and supportive analysis in a table format. Suggested format is as follows:

SCAG 2016 RTP/SCS GOALS		
	Goal	Analysis
RTP/SCS G1:	*Align the plan investments and policies with improving regional economic development and competitiveness*	*Consistent: Statement as to why;* *Not-Consistent: Statement as to why;* *Or* *Not Applicable: Statement as to why;* *DEIR page number reference*
RTP/SCS G2:	*Maximize mobility and accessibility for all people and goods in the region*	*Consistent: Statement as to why;* *Not-Consistent: Statement as to why;* *Or* *Not Applicable: Statement as to why;* *DEIR page number reference*
etc.		etc.

2016 RTP/SCS STRATEGIES

To achieve the goals of the 2016 RTP/SCS, a wide range of land use and transportation strategies are included in the 2016 RTP/SCS. Technical appendances of the 2016 RTP/SCS provide additional supporting information in detail. To view the 2016 RTP/SCS, please visit: http://scagrtpscs.net/Pages/FINAL2016RTPSCS.aspx. The 2016 RTP/SCS builds upon the progress from the 2012 RTP/SCS and continues to focus on integrated, coordinated, and balanced planning for land use and transportation that the SCAG region strives toward a more sustainable region, while the region meets and exceeds in meeting all of applicable statutory requirements pertinent to the 2016 RTP/SCS. These strategies within the regional context are provided as guidance for lead agencies such as local jurisdictions when the proposed project is under consideration.

DEMOGRAPHICS AND GROWTH FORECASTS

Local input plays an important role in developing a reasonable growth forecast for the 2016 RTP/SCS. SCAG used a bottom-up local review and input process and engaged local jurisdictions in establishing the base geographic and socioeconomic projections including population, household and employment. At the time of this letter, the most recently adopted SCAG jurisdictional-level growth forecasts that were developed in accordance with the bottom-up local review and input process consist of the 2020, 2035, and 2040 population, households and employment forecasts. To view them, please visit http://www.scag.ca.gov/Documents/2016GrowthForecastByJurisdiction.pdf. The growth forecasts for the region and applicable jurisdictions are below.

	Adopted SCAG Region Wide Forecasts			Adopted Unincorporated Los Angeles County Forecasts		
	Year 2020	Year 2035	Year 2040	Year 2020	Year 2035	Year 2040
Population	19,663,000	22,091,000	22,138,800	1,106,600	1,216,100	1,273,700
Households	6,458,000	7,325,000	7,412,300	332,700	371,800	392,400
Employment	8,414,000	9,441,000	9,871,500	237,500	272,400	288,400

MITIGATION MEASURES

SCAG staff recommends that you review the Final Program Environmental Impact Report (Final PEIR) for the 2016 RTP/SCS for guidance, as appropriate. SCAG's Regional Council certified the Final PEIR and adopted the associated Findings of Fact and a Statement of Overriding Considerations (FOF/SOC) and Mitigation Monitoring and Reporting Program (MMRP) on April 7, 2016 (please see: http://scagrtpscs.net/Pages/FINAL2016PEIR.aspx). The Final PEIR includes a list of project-level performance standards-based mitigation measures that may be considered for adoption and implementation by lead, responsible, or trustee agencies in the region, as applicable and feasible. Project-level mitigation measures are within responsibility, authority, and/or jurisdiction of project-implementing agency or other public agency serving as lead agency under CEQA in subsequent project- and site- specific design, CEQA review, and decision-making processes, to meet the performance standards for each of the CEQA resource categories.

Los Angeles Department of Water & Power

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MARCIE L. EDWARDS
General Manager

June 15, 2016

Ms. Clarice Nash
County of Los Angeles Department of Public Works
Project Management Division I
900 South Fremont Avenue
Alhambra, CA 91803-1331

Dear Ms. Nash:

Subject: Draft Environmental Impact Report for Olive View – UCLA Medical Center Campus Master Plan

The Los Angeles Department of Water and Power (LADWP) appreciates the opportunity to review the Draft Environmental Impact Report (DEIR) for the Olive View-UCLA Medical Center Campus Master Plan Project. The mission of LADWP is to provide clean, reliable water and power to the City of Los Angeles. The following comments reflect our review for matters related to water resources for the project; you may receive additional comments from other divisions at LADWP separately referring to other respective areas in the DEIR.
The following comments reflect our review:

Water Resources Comments:

1. The project's water demand should be estimated in the DEIR.

   For estimating a project's indoor water demand, we use applicable sewer generation factors (sgf). Please refer to the current factors at the following link: http://www.lacitysan.org/fmd/pdf/sfcfeerates.pdf

   For outdoor (landscape) water demand, we use California Code of Regulations Title 23. Division 2. Chapter 2.7. Model Water Efficient Landscape Ordinance. Please refer to the following link: http://www.water.ca.gov/wateruseefficiency/landscapeordinance/

   If the proposed project scope includes cooling tower(s), then water demand should also be estimated. A mechanical engineer might be one source for this estimate.

   Applicants are encouraged to commit to water conservation measures that are beyond the current codes and ordinances to lower the net additional water demand for the proposed project.

RECEIVED
JUN 23 2016
PROJECT MANAGEMENT DIVISION I
DEPARTMENT OF PUBLIC WORKS

111 N. Hope Street, Los Angeles, California 90012-2607 *Mailing address:* Box 51111, Los Angeles, CA 90051-5700
Telephone: (213) 367-4211 www.LADWP.com

2. The City's water supply and demand projections should be discussed, including the multiple dry years scenario. The most current Urban Water Management Plan (UWMP) can be used for this discussion. The current document is 2010 UWMP, but 2015 UWMP is expected to be approved by the Board of Water and Power Commissioners in June 2016.

   Link to 2010 UWMP: http://www.ladwp.com/docs/QOELLADWP005416.

   Link to **DRAFT** 2015 WUMP: https://www.ladwp.com/ladwp/faces/wcnav_externalId/a-w-sos-uwmp?_adf.ctrl-state=yhgfnqtbd_4&_afrLoop=92064751715759

3. The DEIR should state that the proposed project will comply with the latest water conservation codes and ordinances. The latest water conservation codes and ordinances can be obtained from https://www.ladwp.com/ladwp/faces/ladwp/aboutus/a-water/a-w-conservation/a-w-c-ordinanceandcodes?_adf.ctrl-state=3tyeqnxor_4&_afrLoop=490627735098901, or by visiting www.ladwp.com and selecting "About Us", "Water", "Water Conservation", and "Ordinance and Codes", and from http://clkrep.lacity.org/onlinedocs/2015/15-0458_ORD_184248_6-6-16.pdf.

   Additionally, applicants are encouraged to implement voluntary water conservation measures beyond those required by codes and ordinances to further reduce water use. DEIR should list the project's voluntary water conservation measures. A few examples of voluntary water conservation measures are waterless urinals and a high percentage of drought tolerant plants of the total landscape area, etc.

4. Discuss whether the project is consistent with the most current Regional Transportation Plan (RTP) demographic projections from the Southern California Association of Governments (SCAG).

5. Discuss the basis for concluding the City has sufficient water supplies to serve the project.

   The LADWP works closely with the City of Los Angeles, Department of City Planning to develop and update our UWMP every five years. The UWMP is the planning document for future water demands for the City. The UWMP identifies short-term and long-term water resources management measures to meet growing water demands during normal, single-dry, and multiple-dry years over a 20-year horizon. The City's water demand projection in the UWMP was developed based on the RTP demographic projection by SCAG.

   In general, projects that conform to the demographic projection from RTP by SCAG and are currently located in the City's service area are considered to have been included in LADWP's water supply planning efforts in the UWMP; therefore, projected water supplies would meet projected demands.

CITY OF LOS ANGELES
CALIFORNIA

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FAX: (323) 342-6210
WWW.LACITYSAN.ORG

August 16, 2016

DEPARTMENT OF PUBLIC WORKS
PROJECT MANAGEMENT DIVISION I
AUG 23 2016
RECEIVED

Clarice Nash, Project Manager
County of Los Angeles
Department of Public Works
900 S. Fremont Ave.
Alhambra, CA 91803

Dear Clarice Nash:

OLIVE VIEW – UCLA MEDICAL CENTER CAMPUS MASTER PLAN – NOTICE OF PREPERATION OF AN ENVIRONMENTAL IMPACT REPORT

This is in response to your April 13, 2016 letter requesting a review of your proposed medical project located at 14445 Olive View Drive, Sylmar, CA 91342. LA Sanitation has conducted a preliminary evaluation of the potential impacts to the wastewater and stormwater systems for the proposed project.

WASTEWATER REQUIREMENT

LA Sanitation, Wastewater Engineering Services Division (WESD) is charged with the task of evaluating the local sewer conditions and to determine if available wastewater capacity exists for future developments. The evaluation will determine cumulative sewer impacts and guide the planning process for any future sewer improvement projects needed to provide future capacity as the City grows and develops.

Projected Wastewater Discharges for the Proposed Project:

Type Description	Average Daily Flow per Type Description (GPD/UNIT)	Proposed No. of Units	Average Daily Flow (GPD)
Proposed			
Hospital - Beds	70 GPD/BED	239 BEDS	16,730
Ambulatory Care Center	250 GPD/1000 SQ.FT	296,000 SQ.FT	74,000
Community Center	250 GPD/1000 SQ.FT	20,000 SQ.FT	5,000
Administration	120 GPD/1000 SQ.FT	96,000 SQ.FT	11,520
Materials Management	250 GPD/1000 SQ.FT	30,500 SQ.FT	7,625
Central Utility Plant	50 GPD/1000 SQ.FT	77,000 SQ.FT	3,850
Total			**118,725**

SEWER AVAILABILITY

The sewer infrastructure in the vicinity of the proposed project includes an existing 15-inch line on Olive View Drive. The sewage from the existing 15-inch line splits on an18-inch on Herrick Avenue then joins on a 30-inch line on Hubbard Street before discharging into a 30-inch sewer line on Arleta Avenue. Figure 1 shows the details of the sewer system within the vicinity of the project. The current flow level (d/D) in the 15-inch line cannot be determined at this time without additional gauging.

The current approximate flow level (d/D) and the design capacities at d/D of 50% in the sewer system are as follows:

Pipe Diameter (in)	Pipe Location	Current Gauging d/D (%)	50% Design Capacity
15	Olive View Dr.	*	1.55 MGD
18	Herrick Ave.	47	2.09 MGD
15	Herrick Ave.	20	2.50 MGD
18	Sayre St.	40	3.89 MGD
21	Hubbard St	53	5.03 MGD
30	Hubbard St.	53	8.70 MGD
18	San Fernando Rd	18	2.67 MGD
12	San Fernando Rd.	48	1.80 MGD
15	San Fernando Rd.	53	1.64 MGD
30	Arleta Ave.	35	9.53 MGD
30	Arleta Ave.	37	7.78 MGD

* No gauging available

Based on the estimated flows, it appears the sewer system might be able to accommodate the total flow for your proposed project. Further detailed gauging and evaluation will be needed as part of the permit process to identify a specific sewer connection point. If the public sewer has insufficient capacity then the developer will be required to build sewer lines to a point in the sewer system with sufficient capacity. A final approval for sewer capacity and connection permit will be made at that time. Ultimately, this sewage flow will be conveyed to the Hyperion Water Reclamation Plant, which has sufficient capacity for the project.

If you have any questions, please call Eduardo Perez of my staff at (323) 342-6207.

STORMWATER REQUIREMENTS

LA Sanitation, Watershed Protection Division (WPD) is charged with the task of ensuring the implementation of the Municipal Stormwater Permit requirements within the City of Los Angeles. We anticipate the following requirements would apply for this project.

POST-CONSTRUCTION MITIGATION REQUIREMENTS

The project requires implementation of stormwater mitigation measures. These requirements are based on Stormwater Low Impact Development (LID) requirements. The projects that are subject to LID are required to incorporate measures to mitigate the impact of stormwater runoff. The requirements are outlined in the guidance manual titled "*Development Best Management Practices Handbook – Part B: Planning Activities*". Current regulations prioritize infiltration, capture/use, and then biofiltration as the preferred stormwater control measures. The relevant documents can be found at: www.lastormwater.org. It is advised that input regarding LID requirements be received in the early phases of the project from WPD's plan-checking staff.

GREEN STREETS

The City is developing a Green Street Initiative that will require projects to implement Green Street elements in the parkway areas between the roadway and sidewalk of the public right-of-away to capture and retain stormwater and urban runoff to mitigate the impact of stormwater runoff and other environmental concerns. The goals of the Green Street elements are to improve the water quality of stormwater runoff, recharge local ground water basins, improve air quality, reduce the heat island effect of street pavement, enhance pedestrian use of sidewalks, and encourage alternate means of transportation. The Green Street elements may include infiltration systems, biofiltration swales, and permeable pavements where stormwater can be easily directed from the streets into the parkways and can be implemented in conjunction with the LID requirements.

CONSTRUCTION REQUIREMENTS

The project is required to implement stormwater control measures during its construction phase. All projects are subject to a set of minimum control measures to lessen the impact of stormwater pollution. In addition for projects that involve construction during the rainy season that is between October 1 and April 15, a Wet Weather Erosion Control Plan is required to be prepared. Also projects that disturb more than one-acre of land are subject to the California General Construction Stormwater Permit. As part of this requirement a Notice of Intent (NOI) needs to be filed with the State of California and a Storm Water Pollution Prevention Plan (SWPPP) needs to be prepared. The SWPPP must be maintained on-site during the duration of construction.

If there are questions regarding the stormwater requirements, please call Kosta Kaporis at (213) 485-0586, or WPD's plan-checking counter at (213) 482-7066. WPD's plan-checking counter can also be visited at 201 N. Figueroa, 3rd Floor, Station 18.

GROUNDWATER DEWATERING REUSE OPTIONS

The Los Angeles Department of Water and Power (LADWP) is charged with the task of supplying water and power to the residents and businesses in the City of Los Angeles. One of the sources of water includes groundwater. The majority of groundwater in the City of Los Angeles is adjudicated, and the rights of which are owned and managed by various parties. Extraction of groundwater within the City from any depth by law requires metering and regular reporting to the appropriate Court-appointed Watermaster. LADWP facilitates this reporting process, and may assess and collect associated fees for the usage of the City's water rights. The party performing the dewatering should inform the property owners about the reporting requirement and associated usage fees.

On April 22, 2016 the City of Los Angeles Council passed Ordinance 184248 amending the City of Los Angeles Building Code, requiring developers to consider beneficial reuse of groundwater as a conservation measure and alternative to the common practice of discharging groundwater to the storm drain (SEC. 99.04.305.4). It reads as follows: "Where groundwater is being extracted and discharged, a system for onsite reuse of the groundwater, shall be developed and constructed. Alternatively, the groundwater may be discharged to the sewer."

Groundwater may be beneficially used as landscape irrigation, cooling tower make-up, and construction (dust control, concrete mixing, soil compaction, etc.). Different applications may require various levels of treatment ranging from chemical additives to filtration systems. When onsite reuse is not available the groundwater may be discharged to the sewer system. This allows the water to be potentially reused as recycled water once it has been treated at a water reclamation plant. If groundwater is discharged into the storm drain it offers no potential for

reuse. The onsite beneficial reuse of groundwater can reduce or eliminate costs associated with sewer and storm drain permitting and monitoring. Opting for onsite reuse or discharge to the sewer system are the preferred methods for disposing of groundwater.

To help offset costs of water conservation and reuse systems, LADWP offers the Technical Assistance Program (TAP), which provides engineering and technical assistance for qualified projects. Financial incentives are also available. Currently, LADWP provides an incentive of $1 75 for every 1,000 gallons of water saved during the first two years of a five-year conservation project. Conservation projects that last 10 years are eligible to receive the incentive during the first four years. Other water conservation assistance programs may be available from Metropolitan Water District of Southern California. To learn more about available water conservation assistance programs, please contact LADWP Rebate Programs 1-888-376-3314 and LADWP TAP 1-800-544-4498, selection "3".

For more information related to beneficial reuse of groundwater, please contact Greg Reed, Manager of Water Rights and Groundwater Management, at (213)367-2117 or greg.reed@ladwp.com

SOLID RESOURCE REQUIREMENTS

The City has a standard requirement that applies to all proposed residential developments of four or more units or where the addition of floor areas is 25 percent or more, and all other development projects where the addition of floor area is 30 percent or more. Such developments must set aside a recycling area or room for onsite recycling activities. For more details of this requirement, please contact Daniel Hackney of the Special Project Division at (213)485-3684.

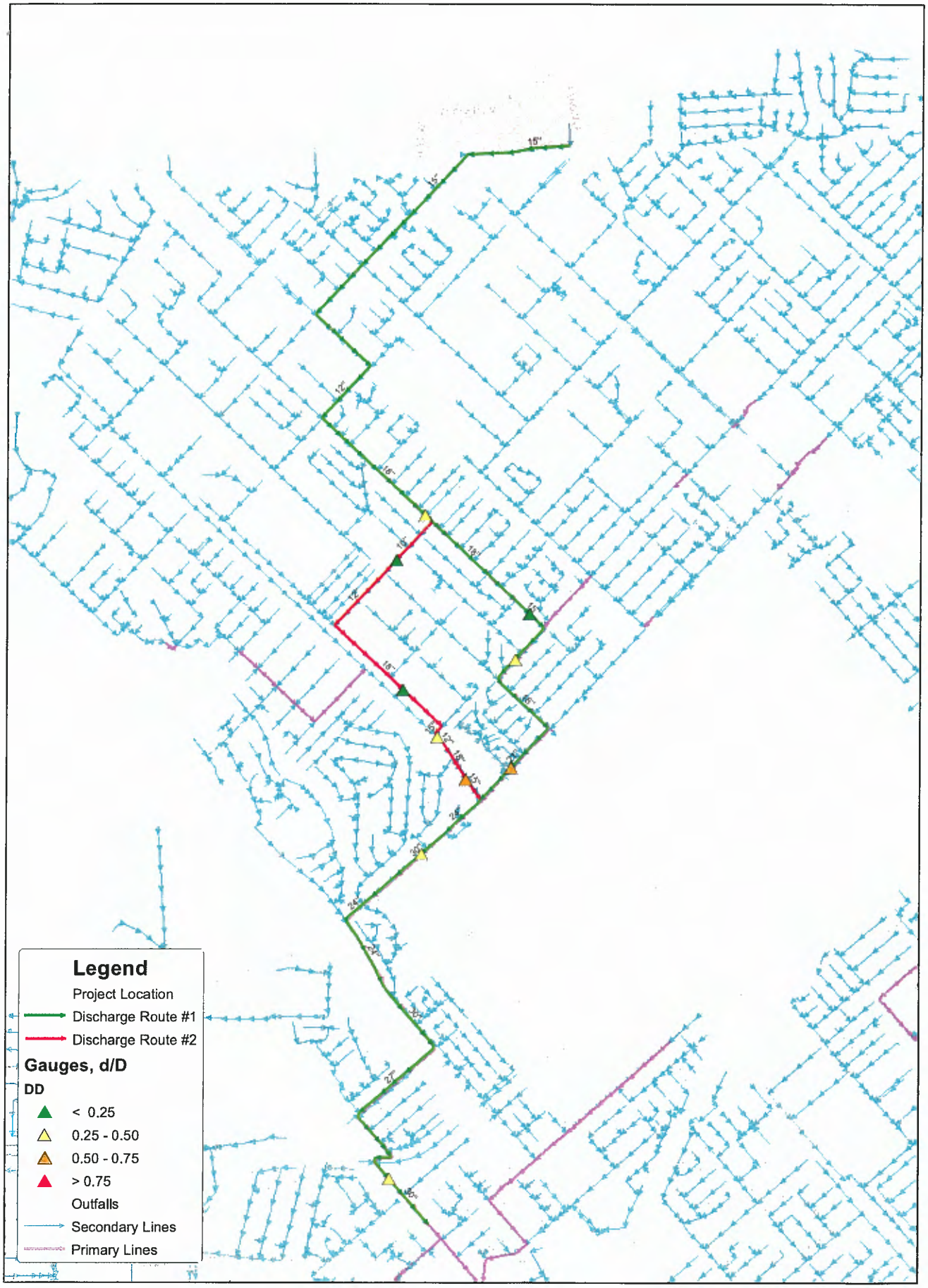
Sincerely,

Ali Poosti, Division Manager
Wastewater Engineering Services Division
LA Sanitation

EP/AP:as

Attachment Figure 1 – Sewer Map

c: Kosta Kaporis, LASAN
Daniel Hackney, LASAN
Eduardo Perez, LASAN



Wastewater Engineering Services Division
LA Sanitation
City of Los Angeles

Figure 1
Olive View - UCLA Medical Center
Campus Master Plan
Sewer Map

N
W E
S

0 500 1,000 2,000 3,000 4,000
Feet

Thomas Brother Data reproduced with permission granted by THOMAS BROS MAP

Olive View – UCLA Medical Center Campus Master Plan
Environmental Impact Report Scoping Meeting

Comment Sheet/Oja de Comentarios

April 14, 2016

Name/Nombre: DONNA GOOLEY

Affiliation/ Affiliación :

Address/Dirección:

Phone Number / Teléfono:	**Email Address/ Correo electrónico:**

NEED SIGNALS OLIVE VIEW/KENNEDY & OLIVE VIEW/BLEDSOE

Please return this comment sheet at the sign- in table or mail your comments by May 2, 2016 to:
County of Los Angeles Department of Public Works
Attention: Clarice Nash
Project Management Division I
900 S. Fremont Ave., Alhambra, California 91803-1331
Or by email to cnash@dpw.lacounty.gov

Olive View – UCLA Medical Center Campus Master Plan
Environmental Impact Report Scoping Meeting

Comment Sheet/Oja de Comentarios

April 14, 2016

Name/Nombre: William Payne

Affiliation/ Affiliación :

Address/Dirección: 13780 Gladstone Ave. Sylmar CA. 91342

Phone Number / Teléfono: 818-362-5033

Email Address/ Correo electrónico: billwpayne@gmail.com.

2035 Improvements needed to accommodate raised solar paneling, and electrical car charging station.

Provision for fire station coverage; no increases since 1956. stressed to the limit. contact Mr. Holmes. 3rd Thurs.

Please return this comment sheet at the sign- in table or mail your comments by May 2, 2016 to:
County of Los Angeles Department of Public Works
Attention: Clarice Nash
Project Management Division I
900 S. Fremont Ave., Alhambra, California 91803-1331
Or by email to cnash@dpw.lacounty.gov

Olive View – UCLA Medical Center Campus Master Plan
Environmental Impact Report Scoping Meeting

Comment Sheet/Oja de Comentarios

April 14, 2016

Name/Nombre:
Anthony Castro

Affiliation/ Afiliación :

Address/Dirección:
13769 Berg street Sylmar, CA 91342

Phone Number / Teléfono:	**Email Address/ Correo electrónico:**
(818) 938-5759	AnthonyEAguilar@yahoo.com

APR. 25, 2016

Parental & Religious Freedom National Security / Foreign Policy Opportunities For Middle Class Families Expand Veterans Services Welfare Reform Safety Net & Opportunity Expanding Opportunities For Seniors Student Loan optional Repayment Opportunities Fair & Balanced Immigration Reform Protect & Support 2nd Amendment Expanding Proven Youth Intervention Programs

Life changing Homeless Solutions

My name is Tony Castro

Please return this comment sheet at the sign- in table or mail your comments by May 2, 2016 to:
County of Los Angeles Department of Public Works
Attention: Clarice Nash
Project Management Division I
900 S. Fremont Ave., Alhambra, California 91803-1331
Or by email to cnash@dpw.lacounty.gov

No.	Date	Agency, Organization, Individual	Topic (Air Quality, Noise, Traffic, etc.)	Comment	Response to Comment
Public Agencies/Organizations					
1	3/30/2016	Native American Heritage Commission	Tribal cultural resources and tribal consultation under AB 52 and SB 18	The NAHC recommends consultation with California Native American tribes that are traditionally and culturally affiliated with the geographic area of the proposed project as early as possible and provides a brief summary of portions of AB 52 and SB 18 as well as the NAHC's recommendations for conducting cultural resources assessments to adequately assess the existence and significance of tribal cultural resources, and planning for their avoidance, preservation in place, or barring both, mitigation of project –related impacts to tribal cultural resources.	Consultation with tribes that have requested consultation has been initiated and is underway, and this letter has been forwarded to the project archaeologists to ensure compliance with recommendations by NAHC.
2	4/12/2016	Federal Emergency Management Agency (FEMA)	Floodplain management	Please review the current effective countywide Flood Insurance Rate Maps (FIRMs) for the County of Los Angeles (Community Number 065043), Maps revised January 6, 2016. Please note that the County of Los Angeles, California is a participant in the National Flood Insurance Program (NFIP). The minimum, basic NFIP floodplain management building requirements are described	The most current FIRMs will be used for the EIR. Development under the proposed Master Plan will comply with NFIP floodplain management building requirements as described in Vol. 44 Code of Federal Regulations (44 CFR), Sections 59 through 65. Development under the proposed Master Plan will adhere to Local floodplain management building requirements, and coordination with the County's floodplain manager will

No.	Date	Agency, Organization, Individual	Topic (Air Quality, Noise, Traffic, etc.)	Comment	Response to Comment
				in Vol. 44 Code of Federal Regulations (44 CFR), Sections 59 through 65. Many NFIP participating communities have adopted floodplain management building requirements which are more restrictive than the minimum federal standards described in 44 CFR. Please contact the local community's floodplain manager for more information on local floodplain management building requirements. The Los Angeles County floodplain manager can be reached by calling George De La O, Senior Civil Engineer, at (626) 458-7155.	occur as needed during development of the Master Plan projects.
3	4/14/2016	South Coast Air Quality Management District	Recommendations regarding analysis of potential air quality impacts	Recommendations for air quality analysis, mitigation measures, and data sources to be used in the EIR.	The air quality analysis as part of this EIR will be prepared per these guidelines and recommendations
4	4/15/2016	Los Angeles Unified School District, Office of Environmental Health and Safety	Air Quality; Hazards & Hazardous Materials; Traffic & Transportation	Concerned with construction-cumulative net increases in criteria air pollutants in the region Concerned with hazards/hazardous materials transport during construction and operation Concerned with traffic and pedestrian safety during construction and operation	An analysis of criteria air pollutants during construction and their cumulative effects will be included in the Air Quality section of this EIR, along with any identified mitigation measures, as required. This issue will be analyzed in the Hazards and Hazardous Materials section of the EIR, along with any identified mitigation measures, as required. Any special considerations for traffic and pedestrian safety during construction and operation of the project, as required, along with any

No.	Date	Agency, Organization, Individual	Topic (Air Quality, Noise, Traffic, etc.)	Comment	Response to Comment
					identified mitigation measures, will be included in the Transportation section of this EIR.
5	4/21/2016	Fernandeño Tataviam Band of Mission Indians, Tribal Historic & Cultural Preservation Committee	Tribal cultural resources	Formal request to for tribal consultation under the provisions of CEQA PRC section 21080.3.1 subdivisions (b), (d), and (e)) and request for the estimated cubic yards of soil disturbance for the Project.	Response letter has been sent, including the estimated cubic yards of soil disturbance for the Project.
6	4/25/2016	County of Los Angeles Fire Department	Comments regarding fire/life/safety design requirements and various CEQA issues	Response jurisdiction; Access requirements; water system requirements; Preliminary Fuel Modification Plan; erosion control; watershed management; rare & endangered species; archaeological and cultural resources; County Oak Tree Ordinance	All of these topics will be addressed in the EIR, with the exception of specific building access and water system requirements that will be submitted for fire department approval during the individual building permitting process.
7	4/27/2016	California Department of Transportation, District 7 – Office of Transportation Planning	Traffic study	Guidance for what Caltrans would like included in the traffic study, and a request to review the traffic study when it is completed as part of the DEIR.	Fehr & Peers has been in coordination with Caltrans, and Caltrans input/recommendations are included in the traffic analysis, as appropriate.
8	5/2/2016	Southern California Association of Governments	Request to review Draft EIR	When available, please send environmental documentation to SCAG's office in Los Angeles or by email to sunl@scag.ca.gov	The Draft EIR will be submitted to SCAG as requested.
9	6/15/2016	Los Angeles Department of Water & Power	Water Resources	The Project's water demand should be estimated in the DEIR; the most current Urban Water Management Plan should be used (expected approval June 2016); DEIR should include discussion of water conservation codes and ordinances;	These concerns raised in the comment letter will be addressed in the Draft EIR (DEIR) as well as in the project's water supply assessment, in coordination with LADWP.

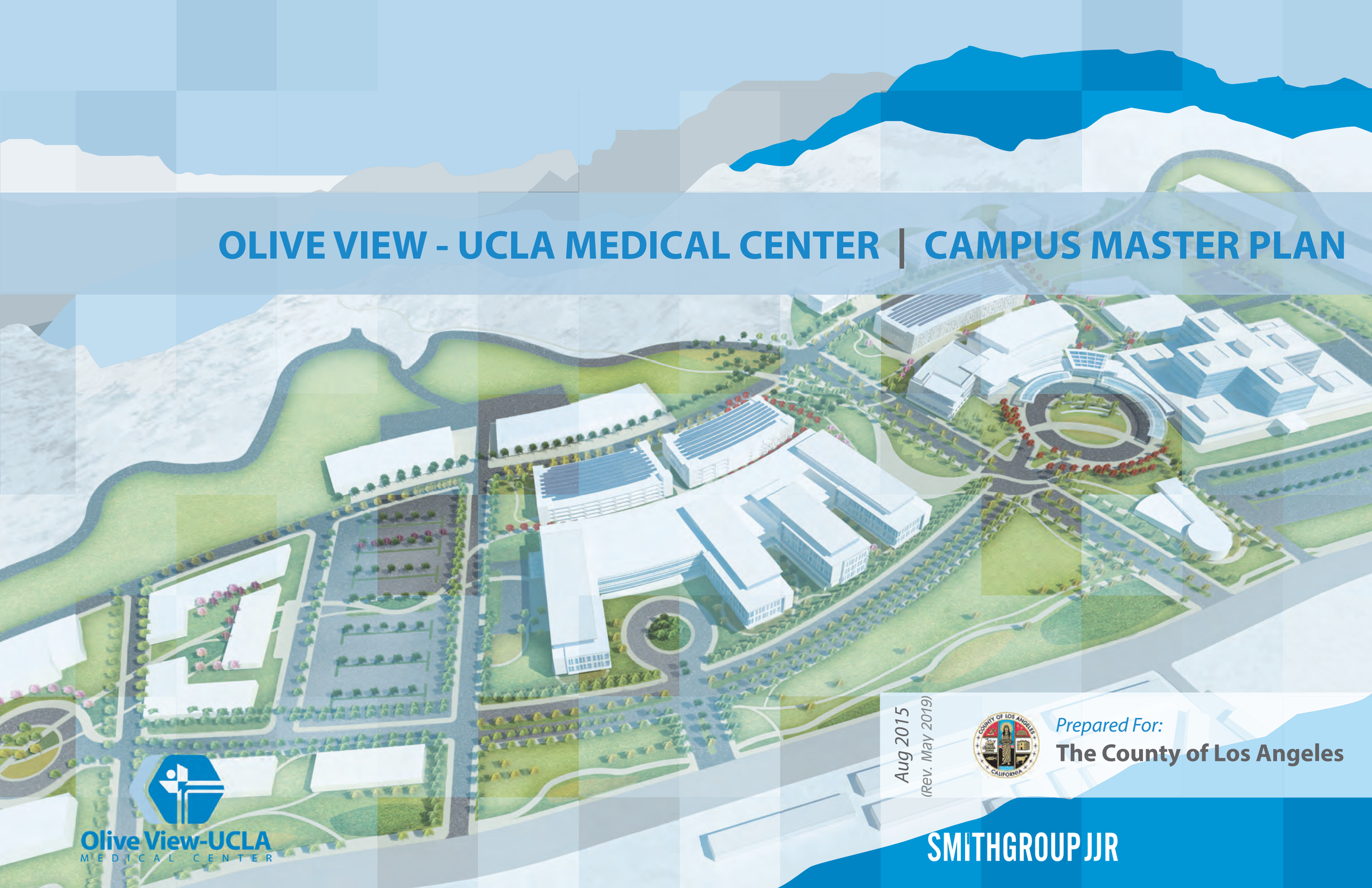
No.	Date	Agency, Organization, Individual	Topic (Air Quality, Noise, Traffic, etc.)	Comment	Response to Comment
				water supply should be assessed; discuss whether the Project is consistent with the most current Regional Transportation Plan demographic projections from SCAG.	
10	6/27/2016	City of Los Angeles Department of Public Works, Wastewater Engineering Services Division – LA Sanitation	Potential sewer system impacts	In order to properly analyze the potential impacts to the sewer system we will need the following information about the proposed facility: Number of beds Hospital Surgical Psychiatric Square footage of Medical building Labs in the hospital Medical offices/clinics Office building Office building w/ cooling tower Retail space Restaurant space (take out/cafeteria/full service) Please reply with this information at your earliest convenience. Once it is received the analysis of the system will begin.	These numbers, if available, or an estimate for input will be sent as requested.
Private Citizens					
1	4/14/2016	Donna Gooley	Need for new traffic signals	Need signals at Olive View/Kennedy and Olive View/Bledsoe	As part of the MOU being prepared between Fehr & Peers and County Traffic & Lighting, along with input from LADOT, the need for these signals

No.	Date	Agency, Organization, Individual	Topic (Air Quality, Noise, Traffic, etc.)	Comment	Response to Comment
					will be considered and recommended, if warranted.
2	4/14/2016	William Payne	Solar panels, electric car charging, and fire department service demands	2035 Improvements need to accommodate raised solar paneling and electric car charging station. Also provision for fire station coverage; no increases since 1956, and current fire department coverage is stretched to the limit.	To the extent that solar panels and electric vehicle charging stations can be incorporated as part of master plan development, where it coincides with the project objectives, it shall be done. Fire department service levels will also be considered in the Public Services section of the EIR.
3	4/25/2016	Anthony Castro	Variety of federal domestic policy and foreign policy concerns.	Parental & religious freedom; foreign policy/national security; Expansion of services for the middle class, veterans, seniors, students; immigration reform; 2nd amendment; Youth intervention and homeless solution programs	Thank you for your comments. This project would not address those issues raised that are of a federal scope, nor are the social and economic policy concerns considered environmental impacts under CEQA. This is an environmental impact report, pursuant to CEQA, for a master plan of an existing hospital campus.

Appendix B

Master Plan

OLIVE VIEW - UCLA MEDICAL CENTER | CAMPUS MASTER PLAN



Olive View-UCLA
MEDICAL CENTER

Aug 2015
(Rev. May 2019)

Prepared For:
The County of Los Angeles

SMITHGROUP JJR

EXECUTIVE SUMMARY

Background

At the request of the County of Los Angeles, the Master Planning team has prepared this report for the development of the Olive View-UCLA Medical Center Campus in Sylmar, California. The medical center campus was originally developed in the 1930s to respond to an overcrowding at the County General Hospital. Because of the dry and warm climate, it was ideal for the treatment of the respiratory disease tuberculosis. In 1970 it was converted to an acute care hospital. Currently, the medical center is a teaching hospital and has a strong relationship with the David Geffen School of Medicine at UCLA providing intern and residency programs in a wide range of medical and surgical specialties. The medical center is a key component in the ValleyCare healthcare network which provides services to residents in the San Fernando and Santa Clarita Valleys, many of who are uninsured or under insured and depend on the County of Los Angeles Department of Health Services.

There are a number of challenges facing the campus such as compliance with code mandated upgrades, a movement towards more outpatient based services, demographic shifts, and site utilization improvements.

The master plan includes analysis and assessment of the existing campus infrastructure and buildings, and future considerations and recommendations for the campus' land use. The existing campus consists of the Main Hospital tower which houses both inpatient and outpatient services. Besides the Main Hospital tower, the density of the campus is very low with small one and two-story support buildings spread across the vast area of the site. The campus has gone through significant and varied changes throughout the development history, and as a result, there is lack of coherance and unity. To resolve these issues, the master plan introduces a series of design guidelines that dictate building placement, form, and materiality.

Challenges

The main goal of the planning effort is to provide flexibility to allow the master plan to adapt to changes over time. There are a number of variables that affect each building component, and the order in which each is constructed. To respond to this need, alternate paths are provided which should guide the development of the campus over time. Given overall healthcare trends and the full impact of the Affordable Care Act, the first priority of the master plan is to move the outpatient services in the existing Hospital into a new Ambulatory Care Center. By locating inpatient and outpatient in dedicated buildings, this responds directly to the overarching goals of the master plan to optimize the quality of care and operational effectiveness.

The future considerations for the existing Hospital are key in developing a flexible, long-range plan for the campus. Four planning options are provided to respond to the budget and time restrictions for this facility. There are various levels of renovation proposed for the existing Hospital from code required minimal renovation to full renovation. Depending on the available funds, the level of disruption during renovation of the existing Hospital, and the ability to provide care to the community, a final option for a hospital replacement is considered.

There are a number of other buildings on the campus that are proposed which relate to the medical center and provide services to the community. These include a new Central Utility Plant, a consolidated Administration Building, rightsized and upgraded Support Buildings, and Long Term Care Residential. In addition, the potential to increase collaboration with the medical center and UCLA has been provided on the site for future development with UCLA Medical Office and Research facilities. There is an opportunity to provide collaboration with the Los Angeles County Department of Mental Health (DMH), geared towards community support and outpatient services. Locations for DMH-related functions are provided in this master plan.

As a result of the input received at the community meetings, there are zones identified in the master plan for more community related functions. These include a Child Care Center/Community Center, Senior Center/Fitness Center, and retail and outdoor opportunities.

Solution

The Olive View - UCLA Medical Center has a history which can be traced back to a more natural setting. Over the course of the development history of the campus, this natural setting and landscape has been lost. Paved areas now occupy an expansive area of the campus. One of the specific goals of the master plan is to create a more community based and patient centered campus. The master plan focuses on providing opportunities for more green space and places for patients, families, visitors, and members of the community to interact. Gardens, courtyards, and quads will help by not only providing places of respite and healing, but also fostering interaction and learning for UCLA. The various open spaces help organize and link the various buildings on the campus. Distinguished entry points are provided for each of the major facilities of the campus to provide clear organization and wayfinding. To help provide relief of the campus to the immediate surroundings, a green belt is introduced along the front edge. This green belt provides an area for community parks and public facilities such as wellness centers and retail shops.

CLIENT TEAM

County of Los Angeles Supervisorial District 5
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Kathryn Barger, Supervisor

County of Los Angeles Supervisorial District 3
Sheila Kuehl, Supervisor

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Bradford M. Bolger, Senior Manager
Frank Cheng, Manager
Susana Graether, Principal Analyst
Lorena Gomez, Senior Analyst

County of Los Angeles Department of Public Works (DPW)
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Mark Pestrella, Director
David Howard, Assistant Deputy Director
Andy Moey, Assistant Deputy Director
Clarice Nash, Project Manager
Alicia Ramos, Capital Projects Program Manager
Hoda EL Sokkary, Senior Capital Projects Manager

County of Los Angeles Department of Health Services (DHS)
Dr. Mitchell H. Katz, Director
Dr.Christina R.Ghaly, Director
Carolyn Rhee, Chief Executive Officer, Olive View-UCLA Medical Center
Judith Maass, Chief Exectuive Officer, Olive View-UCLA Medical Center
Alex Villaruz, Chief Operating Officer, Olive View-UCLA Medical Center

County Consuel
Lauren Dods, Principal Deputy County Consuel

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Revisions by : Perkins Eastman

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The Robert Group

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Katherine Spitz & Associates

Structural Engineer
Saiful Bouquet

MEP Engineer
Arup

Civil Engineer
Kimley-Horn Associates, Inc.

Real Estate Advisor
Jones Lang LaSalle

Parking/Traffic Engineer
Walker Parking Consultants

Sustainability
Brightworks

Fire Protection/Fire Life Safety
AON

Information Technology
Vantage

Materials and Waste Management
Lerch Bates

Signage and Wayfinding
SKA Design

Lighting
Horton Lees Brogden

Cost Estimating
Cumming

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08 Implementation
Phasing

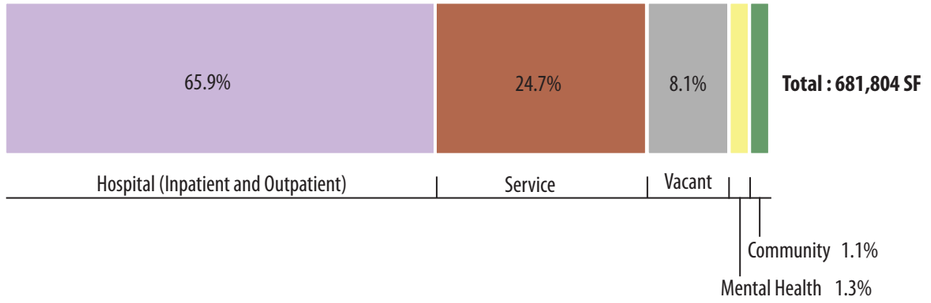
SITE PROGRAM SUMMARY

CRITERIA	EXISTING CONDITIONS	MASTER PLAN	
Site Area	230 Acres		
Site Area (Buildable) in Acres	5,603,700 SF		
	130 Acres		
Building Area	**804,200 SF**	1,382,000 SF	
Floor Area Ratio (FAR)	0.144	0.247	
Maximum Building Height/Number of Stories	100 FT/6 Stories	100 FT/6 Stories	
Parking			
Stalls in surface parking	2,672 *Count	1,200	
Stalls in structure	0	2,000	
BUILDING PROGRAM	**EXISTING CONDITIONS**	**MASTER PLAN**	
Hospital	530,000 SF	530,000 SF	***
Ambulatory Care Center		276,000 SF	
UCLA MOB		120,000 SF	
Community	9,300 SF	20,000 SF	
Administration	99,400 SF	96,000 SF	
Retail		40,000 SF	
Mental Health	11,000 SF	20,000 SF	**
Long Term Care Residential		135,000 SF	
Support Services Buildings	35,200 SF	68,000 SF	
Central Utility Plant / Facilities / Shops	64,700 SF	77,000 SF	
Vacant	65,600 SF		
SUBTOTAL	**804,200 SF**	**1,382,000 SF**	

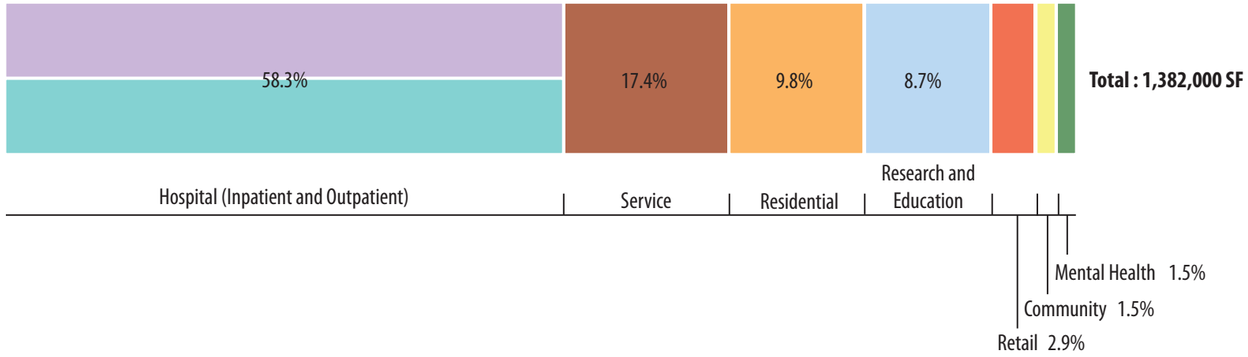
Notes: ** Current demand: 2,251*
*** Anywhere from 15,000 to 40,000 SF*
**** This area is for total renovation. If the building is replaced, the area should be closer to 600,000 SF.*

BUILDING USE

Existing Conditions



Olive View - UCLA Medical Center Master Plan



SMITHGROUP JJR

(Original) SmithGroup JJR, 2015, (Updated) Perkins Eastman 2019

New Ambulatory Care Center and Existing Hospital Drop-off

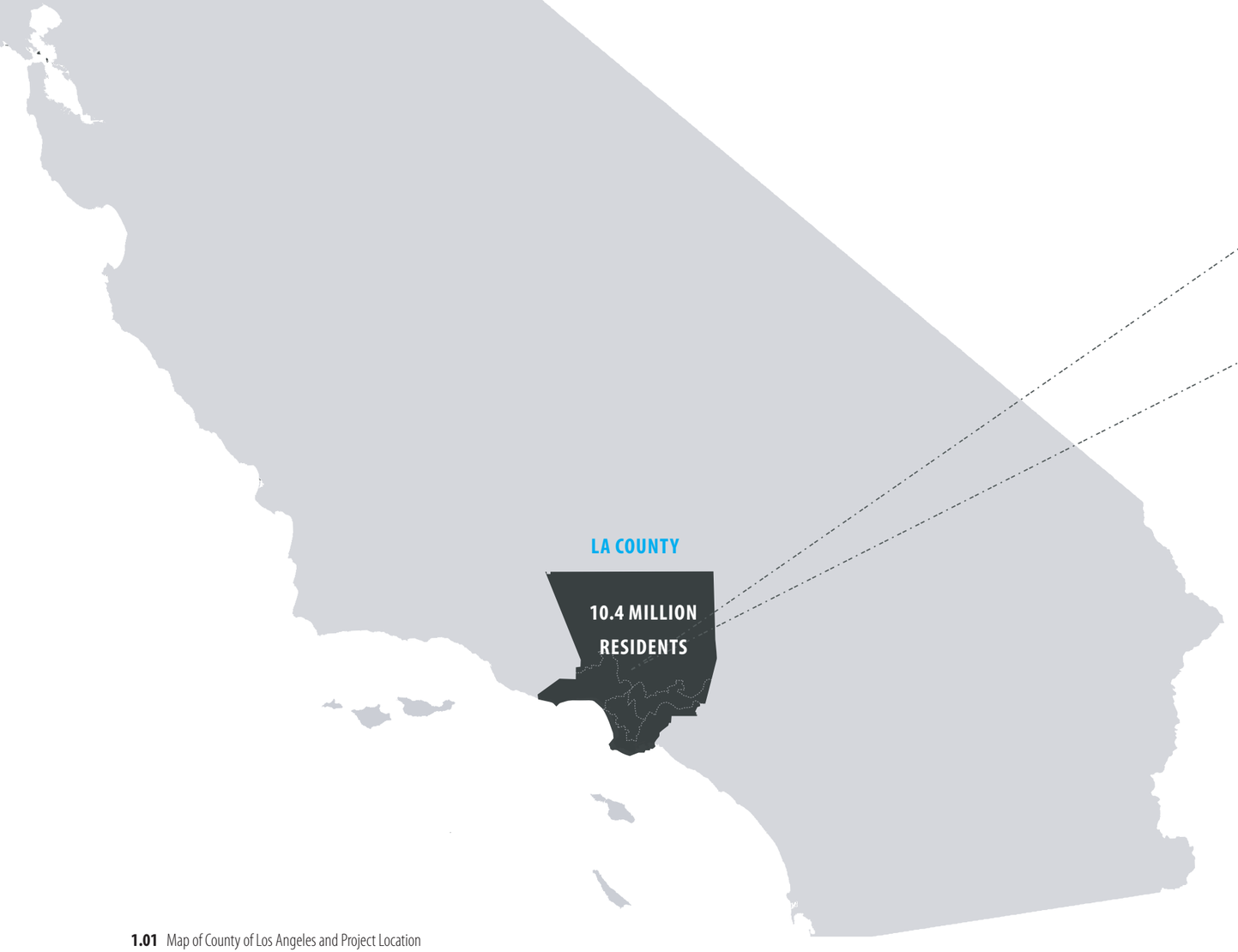
Future Hospital Entry Plaza and Drop-off

UCLA Research and Education Building

New Ambulatory Care Center Entry Plaza

01 INTRODUCTION

PROJECT DESCRIPTION



1.01 Map of County of Los Angeles and Project Location

The County of Los Angeles Chief Executive Office is preparing a Campus Plan to guide the reorganization and redevelopment of the Olive View-UCLA Medical Center located in the County's San Fernando Valley Cluster/Valley Care region. The County expects significant restructuring of the existing campus, consistent with the 2035 planning horizon, in order to meet its responsibilities to provide essential health care services. Development of a Campus Plan provides an opportunity for comprehensive strategic planning to meet the needs of the County and the surrounding communities.

The master plan includes analysis and assessment of the current campus, future considerations and recommendations, and proposals for the campus' land use. The master plan is based on existing development, social and economic conditions, surveys, public input, physical characteristics, and planning. The 230 acre Olive View-UCLA Medical Center campus is located near Sylmar, California. The address is 14445 Olive View Drive and is bounded by the Angeles National Forest on the North, Olive View Drive on the South, Wilson Canyon Channel on the East, and Bucher Avenue to the West.

HISTORY

SYLMAR

The history of Olive View Medical Center is very much a part of the history of the community of Sylmar. The area of Sylmar was initially developed as an agricultural outgrowth of the City of San Fernando. The earliest recorded inhabitants of the San Fernando Valley were the Tongva Indians, also known as the Gabrielinos. In 1797, the Spaniards founded Mission San Fernando Rey de España which became a center of regional activity in the Valley. In 1874, the city of San Fernando was founded and two years later Southern Pacific Railroads completion connected the valley with the rest of the nation. The area developed into an agricultural center. Because of the rich soil, steady underground water supply, and ideal warm temperatures, the area around Sylmar produced some of the finest olives and olive oil.

Sylmar was officially named in 1913 at the same time in which the Los Angeles Aqueduct was completed. The accelerated urbanization and population growth following World War II brought changes to the character and development of the area. The olive oil industry along with other agricultural farms were eliminated. Many of the current residential homes and neighborhoods today were built during this time between 1940 and 1960. Two major freeways, the Foothill and Golden State Freeways, were also been built creating more links to the region and attracting new businesses. The 1980s saw a growth in Sylmar's population and housing as well as a transition in demographics from Anglo to Latino population majority.

Due to an overcrowding at the County General Hospital, a tuberculosis sanitarium was established at the current Olive View site towards the end of the 1930s. Because of the dry and warm climate, it was ideal for treatment of respiratory problems. It was then converted into an acute care hospital in 1970. After the 1971 Sylmar Earthquake, the hospital was damaged beyond repair. The hospital was reopened in 1983 and is the current facility for the medical center.

OLIVE VIEW - UCLA MEDICAL CENTER

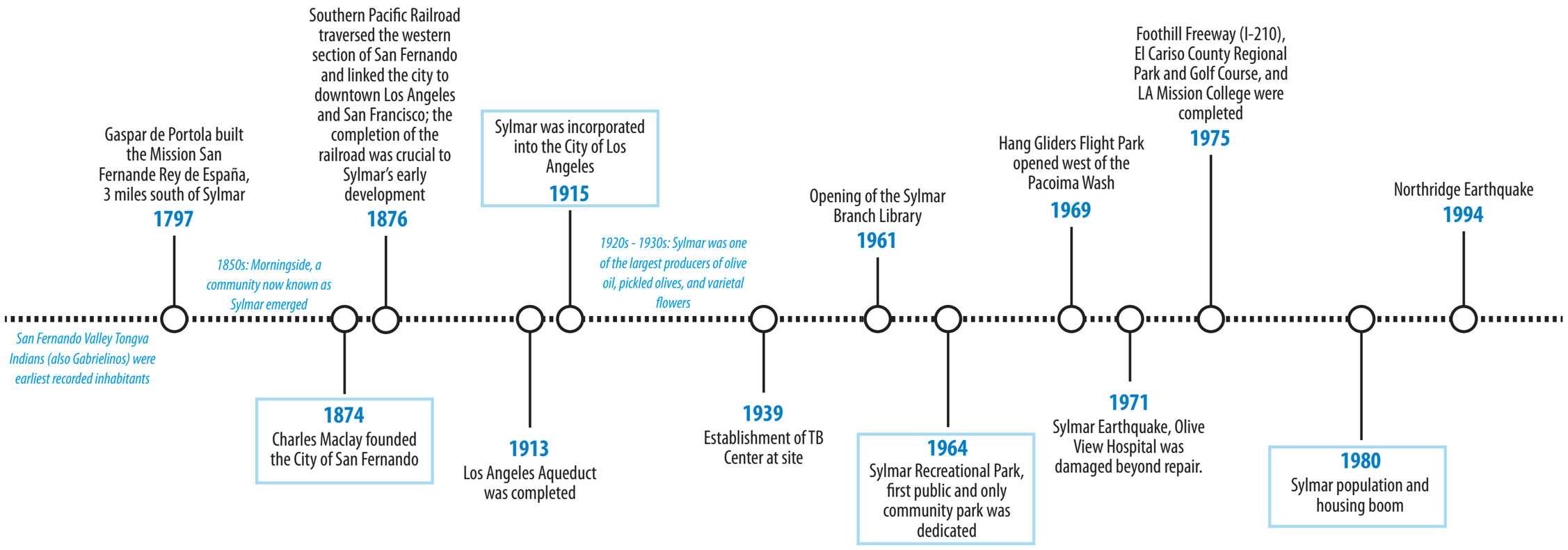
Olive View incorporated UCLA into its name in 1992 becoming Olive View-UCLA Medical Center. The medical center serves much of the San Fernando Valley, Santa Clarita, and Antelope Valley providing a full-range of inpatient and outpatient services including Emergency Medicine, Internal Medicine, Neurology, Pediatrics, Obstetrics and Gynecology, Surgery, Radiology, and Psychiatry. The medical center is a teaching hospital, affiliated with the David Geffen School of Medicine at UCLA, with all physician faculty having academic appointments. In addition to the many residency programs in a variety of specialty areas, the medical center also operates an on-campus School of Nursing. In 1997, the medical center became a part of the ValleyCare system, which maintains responsibility for residents in the San Fernando and Santa Clarita Valleys.

1.02 Historical photo of Sylmar

1.03 Historical photo of Los Angeles Aqueduct

1.04 Photo of Olive View-UCLA Medical Center

HISTORICAL TIMELINE

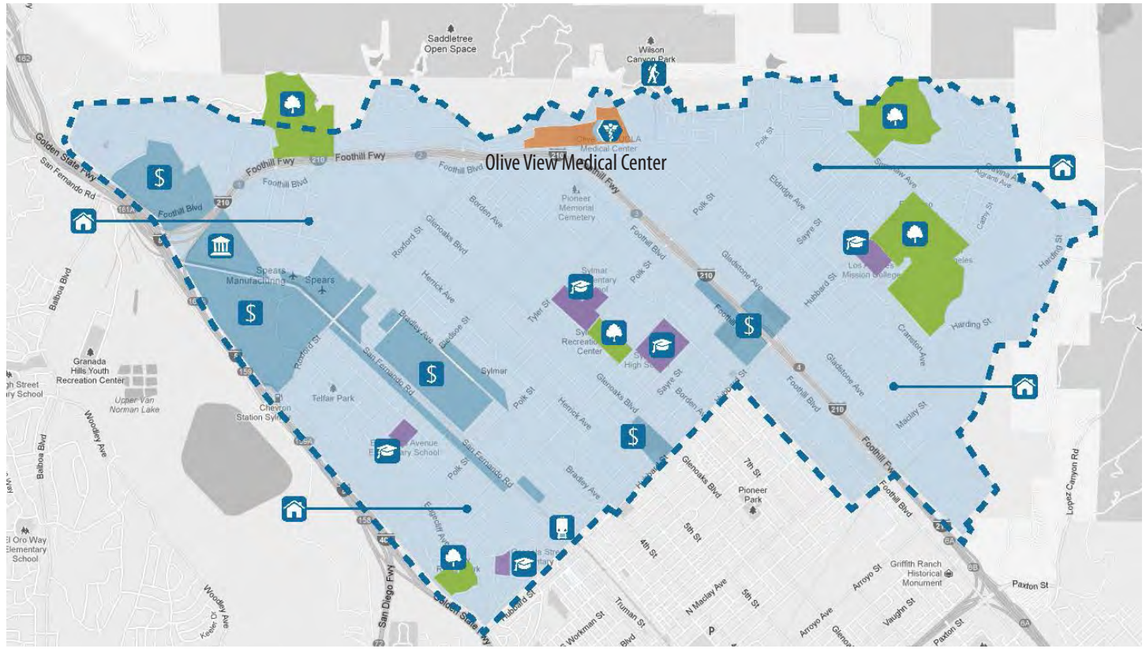


1.05 Timeline of Sylmar and City of Los Angeles

CONTEXT

SYLMAR

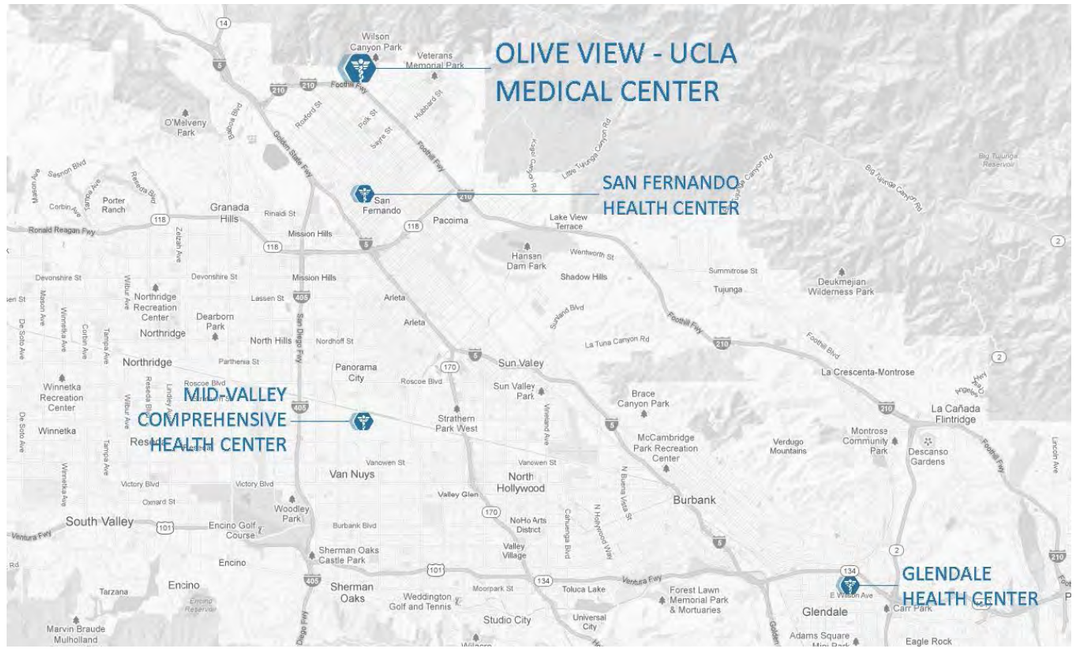
Family residences make up the majority, but distributed in the Sylmar area are also commercial and industrial centers, courthouses, public parks and schools. The Olive View-UCLA Medical Center lies on the northern edge of Sylmar.



1.06 Sylmar Community Plan Map

REGIONAL VALLEY CARE LOCATIONS

The Olive View - UCLA Medical Center serves as the hospital for the Valley Care wellness community. In the city of Sylmar, the campus contains a mix of inpatient, outpatient, teaching and support services that serve the entire Valley Care network. The map below identifies the Olive View campus and the other regional health centers that comprise Valley Care.



1.07 Map of Regional ValleyCare Locations

MASTER PLAN GOAL

1.08 Panoramic view of Olive View - UCLA Medical Center from San Gabriel Mountains

The County is **committed to** redeveloping the Olive View-UCLA Medical Center campus to provide an **integrated healthcare** delivery model **in the County's San Fernando Valley** Cluster/Valley Care area.

MASTER PLAN OBJECTIVES

Adopt a Campus Plan that is compatible with the inherent site conditions, and provides for **development opportunities** that are consistent with the goals and policies of the County's General Plan.

A fundamental reorganization, expansion, and integration of outpatient services with the specific goals of being more **community based** and **patient centered.**

Locate **inpatient and outpatient** services into **dedicated buildings** to optimize the quality of care and operational effectiveness, while reducing administrative, operational and maintenance costs.

Ensure that operative costs are reduced in accordance with the prescriptions of the federal injunction.

Comply with the seismic safety regulations developed by the Office of Statewide Health Planning and Development.

Identify feasible opportunities to exceed state energy requirements and pursue green building **sustainable design** to the maximum extent possible.

Develop resources that are consistent with the needs of the **2035 planning horizon**.

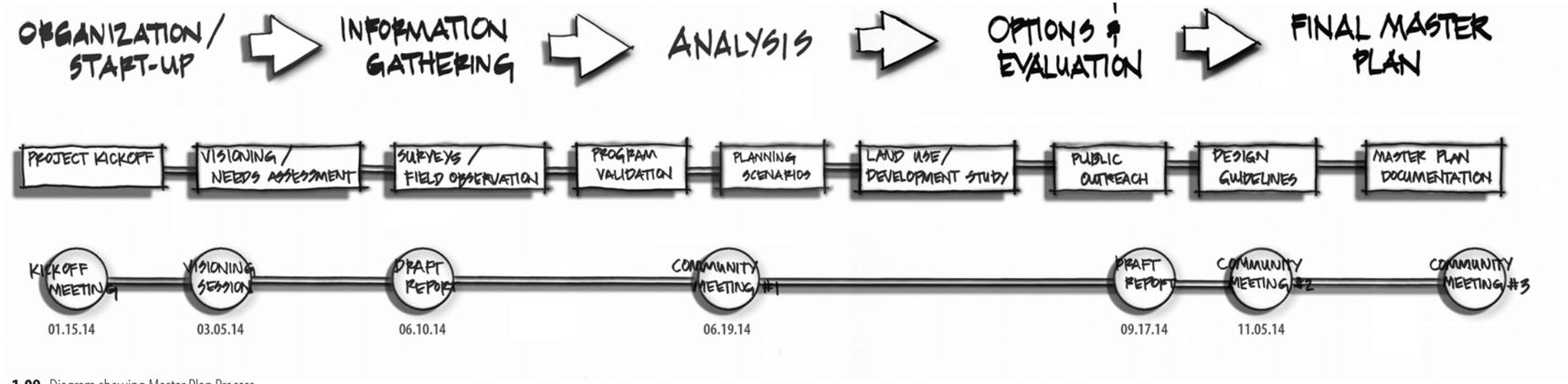
PROCESS

SmithGroupJJR and the consultant team developed a parallel process for working on the Master Plan. The team developed focus groups for Design, Planning and Technical issues. This allowed each consultant to focus on their area of expertise while staying connected with the greater team. Each focus group met with relevant campus user groups to learn about the current state of facilities and operations on campus. This information was used to develop a baseline from which to begin the master plan. In subsequent meetings, the focus groups worked with user teams to identify future possibilities and goals for the campus including re-use of existing facilities, construction of new facilities, improved operational processes and campus design standards.

Using this parallel process as a basis, the master plan was divided into separate phases. The first phase involved an Initial Start-Up which included such activities as a Project Kickoff and Executive Visioning Session with the design team and members of the County of Los Angeles. Once the vision and needs of the master plan were understood, this then led to the next phase of Data Gathering. During this phase, the design team conducted site visits to the campus and hospital facilities, held meetings with Facilities and Hospital staff, and collected documents and drawings of the existing campus. The third phase involved an anaylsis of the data collected including validation of the campus and hospital departments, and development and understanding of the site constraints and campus facilities. Based on the existing conditions assessment and analysis, planning scenarios and land use studies were developed to organize possible options for the master plan. This fourth phase subsequently led to the final phase of the master plan, the proposed vision for the medical center campus.

COMMUNITY INVOLVEMENT

An integral part of the master plan process was engaging with members of the community. Community meetings were held at key stages of the master plan effort which allowed the team to appropriately respond to the needs of the medical center and surrounding community. At each meeting, presentations were given for the proposed designs of the campus in addition to focused group and question and answer sessions to engage with individual members of the community.



1.09 Diagram showing Master Plan Process

Organization / Start-Up

- Project Kick-off with entire Master Plan team
- Executive Visioning Session with Key Stakeholders of the County of Los Angeles
- Establish goals and objectives

Information Gathering

- Meet with key facility personnel and medical center staff
- Review zoning requirements, parking, traffic, wayfinding, and other items related to urban planning
- Interview key stakeholders to determine interest in future campus development and programs including UCLA, Department of Mental Health, and Department of Health Services.
- Conduct on-site investigations of the existing Hospital and support buildings to determine the current state of the campus

Analysis

- Identify key infrastructure needs and improvements
- Based on current state of campus, identify priorities for short and long term campus development
- Based on current utilization of the Hospital departments, identify planning strategies for implementing master plan

Options and Evaluation

- Using a variety of organizational and planning strategies informed by the data gathered and assessed for the existing facility, provide a series of site planning and design options for evaluation by the community and key stakeholders within the County

Final Master Plan

- Establish zones for land use development of the campus
- Address and make proposals for campus circulation, public transit, parking, site utility distribution, materials management, fire and life safety, landscape design, and sustainability
- Prepare a preliminary phasing plan which provides a road map for the future development of the campus
- Create design guidelines to guide proper implementation of the master plan
- Establish standards for building form, shape, materiality, and color, landscaping and open space, wayfinding and signage, and lighting

DESIGN STRATEGY

The Olive View – UCLA Medical Center has a rich history and can be traced back to a more natural setting and a scale that blended with a spectacular backdrop of the Angeles National Forest. The vision for the Master Plan is to **re-capture the natural setting of the campus**.

Unique to this campus is the expansive area which has over time been consumed by surface parking lots to accommodate the growing population that it serves. The result has placed more emphasis on paved areas rather than landscaped areas. The natural setting has been lost and the challenge of this master plan effort is to carefully plan opportunities to incorporate **more green spaces and places for patients, families, staff and the community**.

The design philosophy is rooted in understanding culture and place. The culture at Olive View is dedicated to serving the community and the partnership with UCLA ensures the best care is at the forefront. As a teaching hospital there is a commitment to an open exchange of learning from bedside to classroom which ultimately leads to a collaborative environment of providing excellent care. Providing opportunities for **casual interaction** much like collegial campuses do with **quads, courtyards and gardens** is an overarching goal to reinforce the culture.

The master plan provides an unparalleled opportunity because of the expansive site that nestles at the base of a natural resource along the northern edge. The remainder of the site is surrounded by major thoroughfares and residential communities. A major goal in planning and designing healthcare environments is to **reduce the inherent stress** found in medical centers. This site offers that rare opportunity to provide a transition zone to de-compress as one approaches the facilities because of the expansive land. Introducing a natural edge to the southern edge of the campus will mitigate the transition between arrival and destination. This new edge will serve as an **inviting message to the community** as well as provide a buffer to the built environment. There is a great opportunity to introduce community parks and or public facilities such as health and wellness centers.

The prominent existing Inpatient and Outpatient tower dominates the campus. This valuable resource will play an important part in the development of the master plan. Although this structure will remain for many years, the master plan investigates opportunities to transform the structure to enhance the patient experience and overall image to the community. Ways to bring more natural light into the first two floors will be explored by strategically removing building mass to create courtyards. Also, ways to enhance the energy performance of the tower that may include re-cladding the exterior envelope will be investigated. The goal will be to preserve the structure but transform it both in appearance as well as program efficiency and use.

A successful master plan needs to have a long view but also an initial phase that begins to re-shape and begin the transformation of place making. One of the key ingredients to the initial phase will include a landscaping strategy that sets the stage for re-claiming the spirit of the place. The master plan seeks to overlay a **series of connected outdoor spaces** and environments that will serve as an armature to the various functions and places that are foreseen for a campus setting.

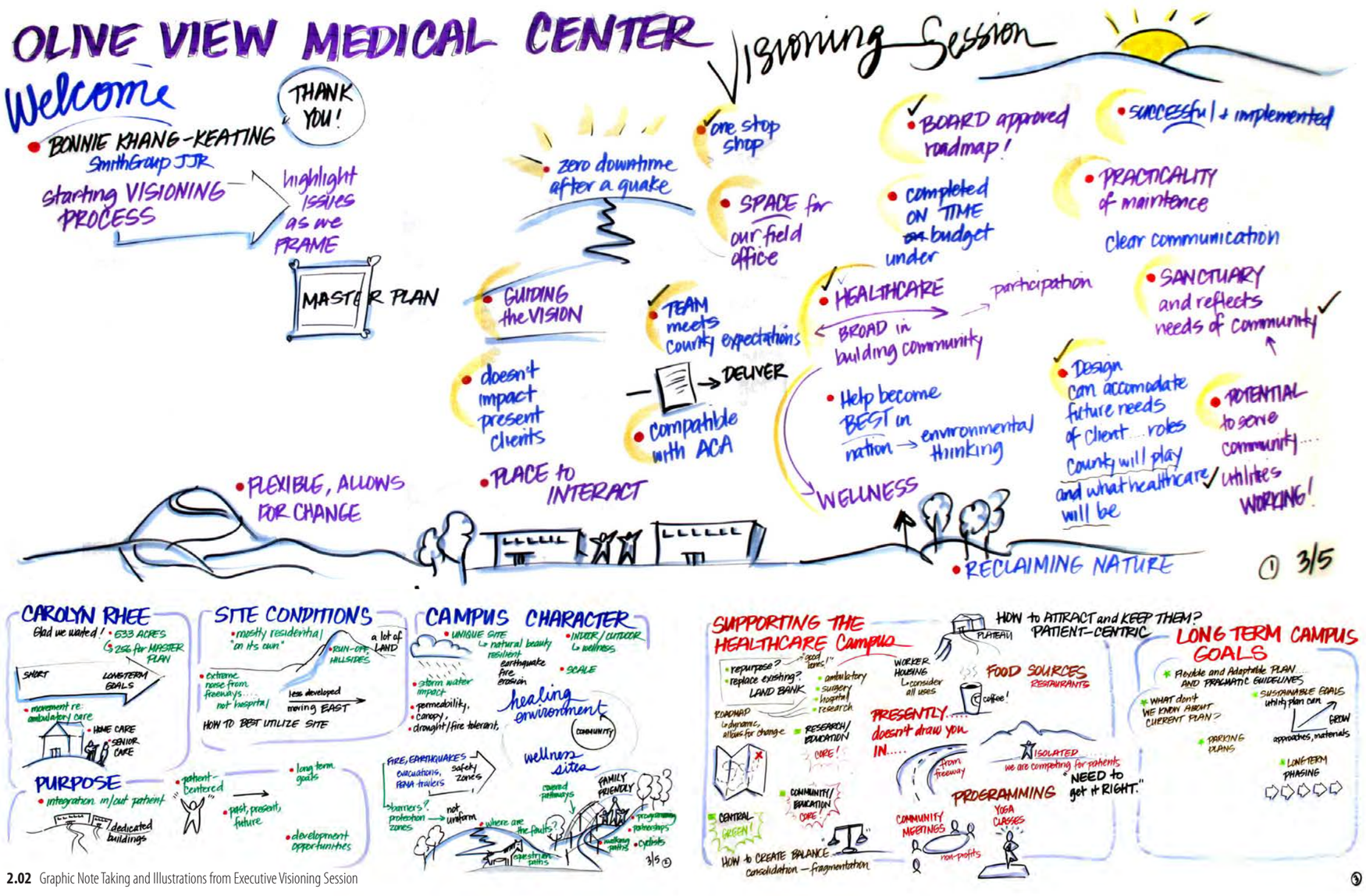
1.10 Examples of green spaces, connection between indoors and outdoors, informal gathering spaces, community activities and engagement

02 OUTREACH

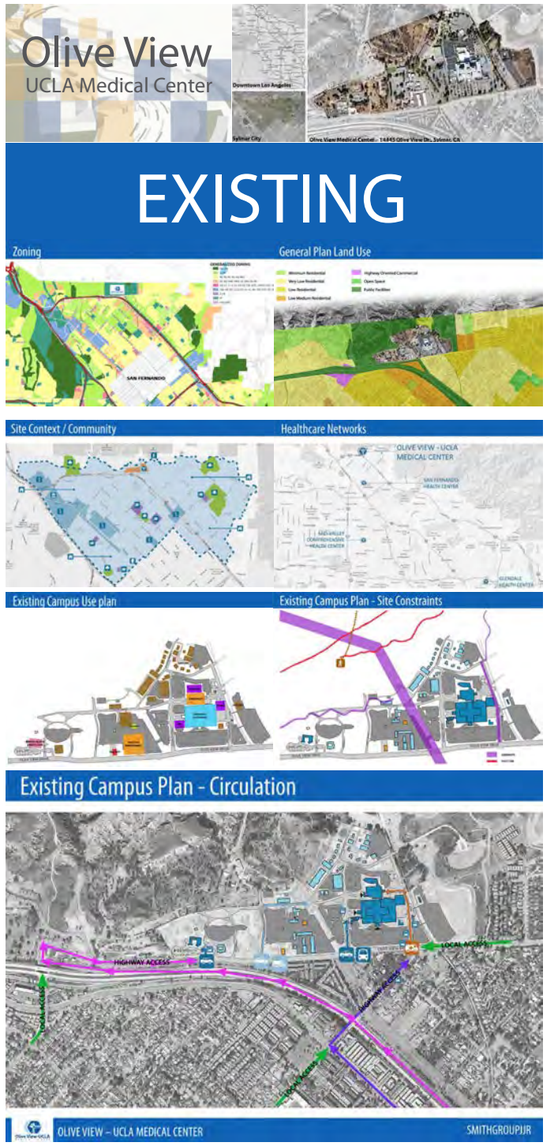
EXECUTIVE VISIONING SESSION

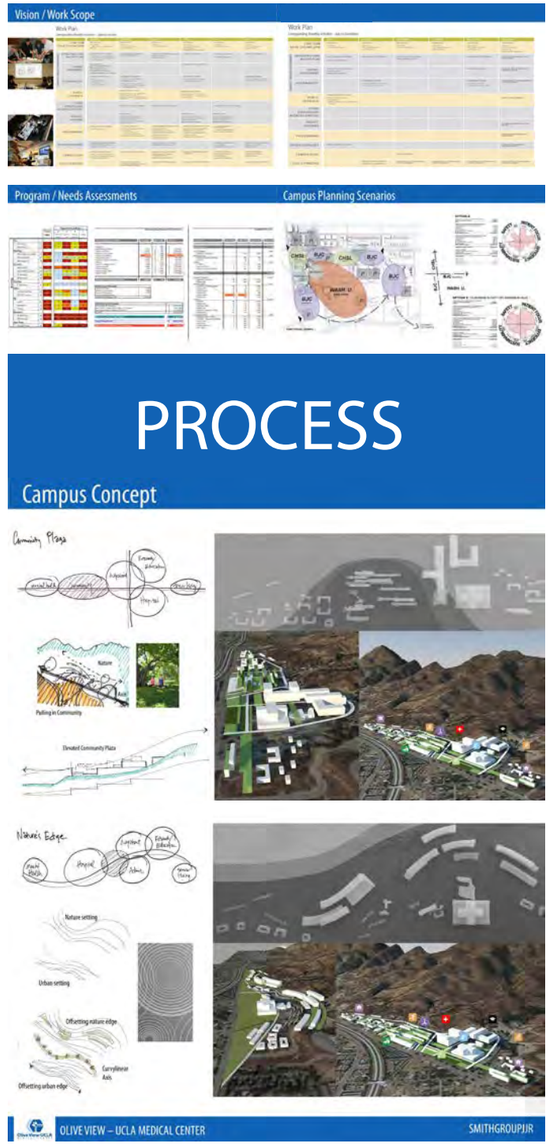
At the onset of the project, a visioning session was held to help establish the goals and objectives for the master plan. The key stakeholders that attended the visioning session included members of the Chief Executive Office, Department of Public Works, Department of Health Services, and representatives from the Board of Supervisors. The key topics that were discussed included a background on the campus, defining the character for the campus, supporting the healthcare campus, and long term goals for the campus.

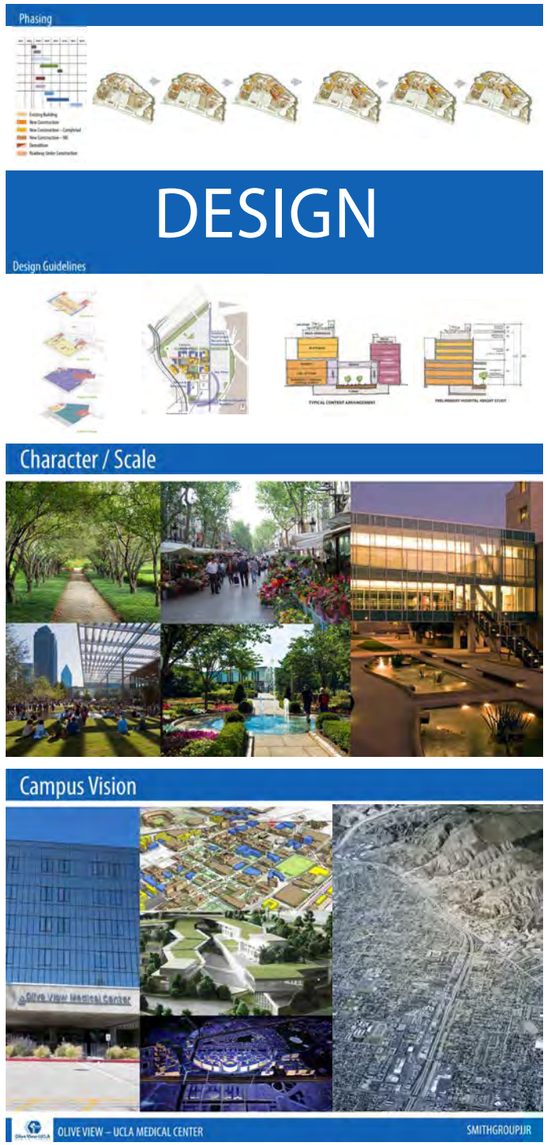
2.01 Photos from Executive Visioning Session



2.02 Graphic Note Taking and Illustrations from Executive Visioning Session







2.03 Illustration Boards used for the Project Kick-off Meeting and Visioning Session

COMMUNITY MEETINGS

A successful master plan is one that responds to the vision and goals of the community. A major focus of the master plan effort was to learn from, reflect on, and respond to the needs of members of the community. At key intervals during the master plan effort, meetings were held at the campus to get feedback and comments from the various members of the community. These meetings were held at the Olive View-UCLA Hospital Auditorium. Advanced notice was given to the various members of the community through various types of outreach media.

COMMUNITY MEETING 01

The first community meeting was held at the Olive View Hospital Auditorium on June 5th, 2014. A presentation was given by SmithGroupJJR including a description of the history of the campus, existing site conditions, the master plans goals and objectives, planning strategies, and campus design strategies. Following the presentation, a question and answer session was held, and then community members broke into small groups to discuss specific topics with members of the design team.

COMMUNITY MEETING 02

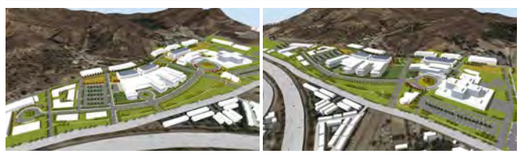
The second community meeting was held at the Olive View Hospital Auditorium on November 5th, 2014. After an initial introduction on the results and findings of the first community meeting and master plan effort to date, SmithgroupJJR presented the planning scenarios for the medical center and two preliminary campus master plan design schemes. A question and answer session was held following the presentation as community members were allowed to participate and share their thoughts. The design team gathered and evaluated all the comments shared at the meeting which helped to shape the development of the master plan.

COMMUNITY MEETING 03

A final community meeting was held at the Olive View Hospital Auditorium on May 21st, 2015 to present the selected campus master plan design. After an introduction and summary of the planning and design effort, SmithGroupJJR presented the selected campus master plan design "Nature's Edge." Following the presentation, opportunities were provided for community participants to share their comments and ask questions. The comments and considerations expressed by members of the community were gathered by the design team to help inform the selected master plan design.

2.04 Photos from Second Community Meeting

OLIVE VIEW UCLA Medical Center — Nature's Edge



SMITHGROUPJJR

OLIVE VIEW UCLA Medical Center — Nature's Edge

NATURE'S EDGE LANDSCAPE - RIPARIAN MEADOW & WILDFLOWERS

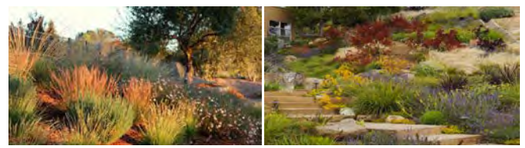
SMITHGROUPJJR

OLIVE VIEW UCLA Medical Center — Boulevard

SMITHGROUPJJR

OLIVE VIEW UCLA Medical Center — Boulevard

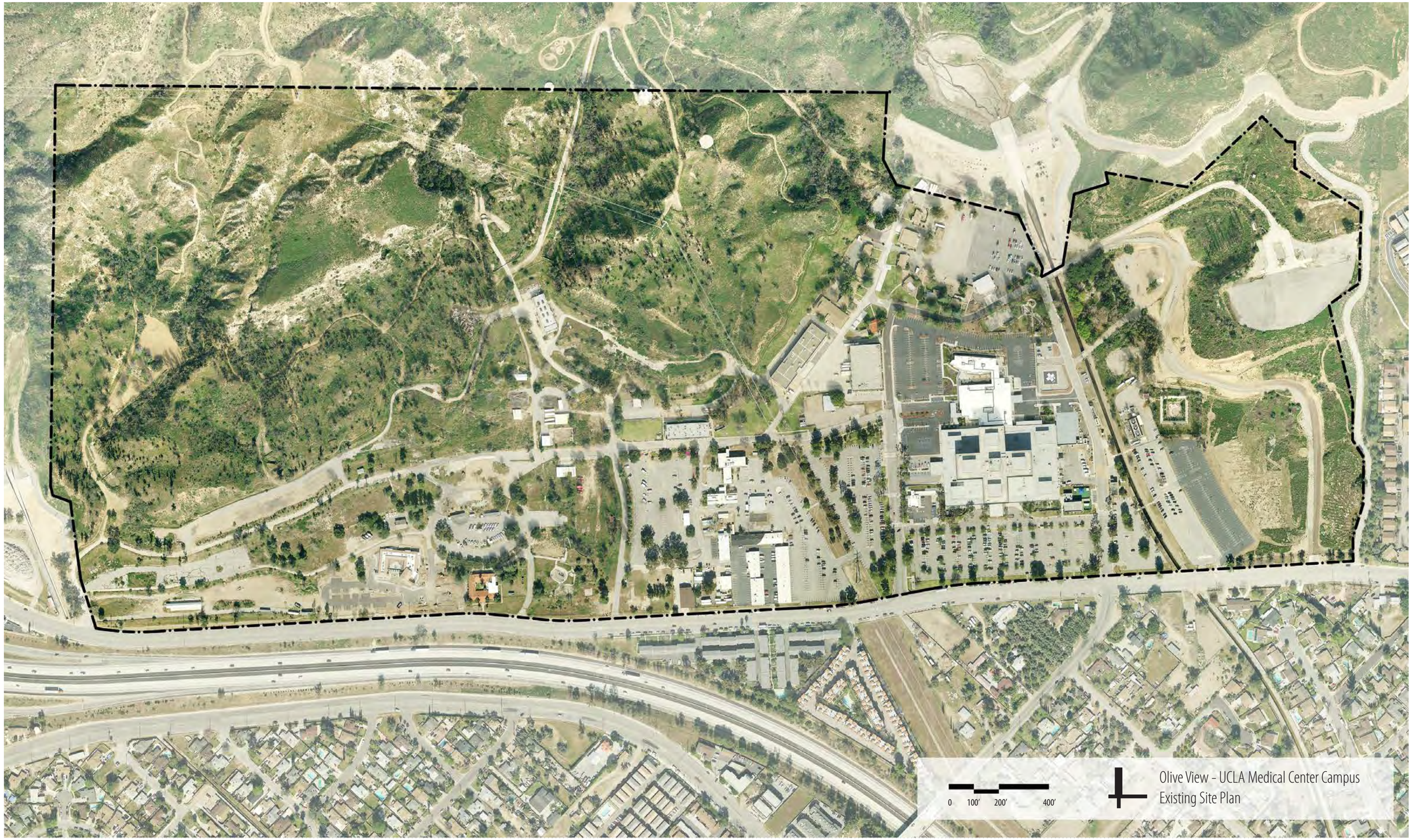
BOULEVARD LANDSCAPE - RIVER WALK & MAIN STREET



SMITHGROUPJJR

2.05 Illustration Boards used for the Second Community Meeting

03 BACKGROUND



Olive View - UCLA Medical Center Campus
Existing Site Plan

EXISTING CAMPUS OVERVIEW

The medical center is surrounded by forests and vegetation. Unique to the campus, horse trails and hiking trails run along the northern edge. All of the parking areas are surface lots. There are designated staff and patient parking areas, but they are not controlled. One of the major complaints of the patients and staffs is the lack of available parking spaces and the large distance to the buildings in which they work.

The existing campus consists of the main hospital tower with one and two story support buildings in the surrounding areas. There are also a number of single story wood structured trailers some of which date back to the 1920s. Some of the original buildings such as the old administration building are vacant and not currently utilized.

The dominant presence at the medical center is the six-story Hospital. Completed in 1987, the Hospital tower is clad with 1/4" tempered vision glass with reflective "solar cool bronze" on all exterior facades from the third floor to the sixth floor. The first and second floor consists of ribbed concrete on all sides. The Central Utility Plant is attached to the Hospital building and serves the aforementioned Hospital and surrounding support buildings. The Emergency Services Building and Isolation Unit are the latest additions to the medical center. The Imaging Center is also attached to the Hospital and serves the radiology department. The support buildings such as the Supply Chain Warehouse, Education Building, and Finance Building are relatively close to the Hospital.

SUMMARY OF SITE ANALYSIS

The following is a summary of the major issues observed during the site analysis effort:

- **There is no comprehensive plan** at the campus which dictates building placement or design aesthetics. As a result, the campus is characterized by buildings with different colors, finishes, and styles.
- **The density of the campus is very low.** The site is mostly comprised of one and two story buildings that are spread across the majority of the site.
- Surface parking is the dominate infrastructure component on the site. There are over a dozen different parking lots scattered throughout the site, and as a result, **wayfinding is very difficult for visitors.**
- Many of the campus roads are geared towards vehicular use, with very **little accomodations made for pedestrians.**
- In terms of landscaping, **there is no coherent palette of trees and planting for the campus.** Landscaping is sparse due in large part to the various surface parking lots. The lack of landscaping and multitude of surface parking creates a dramatic heat island effect increasing the temperature of the campus in the summer months.

Natural Disasters

Olive View Medical Center has suffered a number of natural disasters. The 6.6 magnitude San Fernando (Sylmar) Earthquake in February 1971 significantly damaged the Medical Treatment and Care Building and many other buildings on the campus. In 2008, the campus was threated by the Sayre Fire which damaged a number of smaller buildings. Because of these events, there have been a number of structural upgrades and building repairs to the campus buildings.

Site Constraints

Although the medical center is spread out on a vast 230 acres of land, the site contains several constraints. The 150 feet wide Southern California Edison utility easement dissects the site in two. No buildings are allowed in this easement. The Wilson Canyon Channel at the east end of the project area also divides the site.

Jurisdictions

As the campus is Los Angeles County owned-property, the security of the entire site including the Hospital is under the jurisdiction of the Los Angeles County Sheriffs Department.

Currently, the City of Los Angeles Fire Department has jurisdiction for ground fires at the medical center, and the Los Angeles County Fire Department has jurisdiction for brush fires at the north part of the site. Although there is a County Fire Station on-site, the firefighting for the medical center falls under the City of Los Angeles Fire Department's responsibility.

Utilities

The utilities that serve the campus have seen a multitude of changes and modifications throughout the development history of the campus. Because of the number of changes and the history of development at the campus, a comprehensive utility routing plan does not exist. The major utilities lines are concentrated at the area surrounding the Hospital, Central Utility Plant, and Emergency Services Building. There are a number of other utility lines running throughout the campus which are fed directly from Olive View Drive as opposed to the Hospital which is fed from the Central Utility Plant.

Stormwater Treatment

The stromwater runoff from areas upstream of the campus is being captured and conveyed through the Wilson Canyon Debris Basin located at the northeast corner of the site and Mansfield Canyon Channel located at the southwest corner of the site. The majority of stormwater runoff sheetflows toward a series of on-site catch basins around the site and discharges to the City of Los Angeles storm drain line at Olive View Drive.

THE SITE AND NEARBY AMENITIES

Situated in the neighborhood of Sylmar, Olive View is bound by the Angeles National Forest on the North, a neighborhood of single family houses on the East, the sprawled mostly residential and small commercial-industrial townscape of Sylmar on the South where the Interstate 210 cuts through, and on the West by portions of the mountains and some new residential development flanking the merging point between Interstate 210 and Interstate 5. The Olive View-UCLA Medical Center is the largest public facility in Sylmar.

Part of the greater San Fernando Valley within the city of Los Angeles, Sylmar is a relatively established semi-rural suburban community with a variety of services and amenities. Recent development including those in the commercial and industrial districts are slow but picking up momentum again since growing rapidly in the 1980's and tapering off in the 1990's. The construction of the 1993 Sylmar/San Fernando Metrolink Station revived development interest in the city.

There is a general lack of shared amenities between the neighborhood of Sylmar and the existing medical center facilities. Since Sylmar has very limited commercial accommodations and is too far to walk to the existing hospital, the general feedback from the medical facility users showed little basic service dependence on Sylmar as a community.

Several attributes to this lack of community relationship between the rest of Sylmar and the existing medical facility is also evident in the site's isolation from its immediate neighbors. A potential connection for development between the Sylmar community and the OVMC campus is desirable.

3.01 Amenities Map and Walkable Distance

TRANSIT

The community of Sylmar was reconnected to the rest of Los Angeles when the Sylmar/San Fernando Metrolink Station was constructed in 1993. This rail transit system linked Sylmar to Lancaster and downtown Los Angeles and provided connections to Metro, LADOT, and Santa Clarita Transit bus systems. A number of these transit lines also serve the existing medical center.

Several bus transits serve Olive View:

- 90 - This is a downtown route that serves Downtown LA, Chinatown, Lakeview Terrace, and Sylmar.
- 224 - This is a San Fernando Valley route that serves Sylmar, San Fernando, North Hollywood, and Studio City.

3.02 Sylmar Community Plan Transit Map

LAND USE, PARKS, AND OPEN SPACE

The majority of the land that surrounds Olive View is open space. However, Sylmar's land use is predominantly residential single family at 57% of the land use with occasional multi-family housing at 7% based on the City of Los Angeles Planning data for Land Use Distribution in Sylmar.

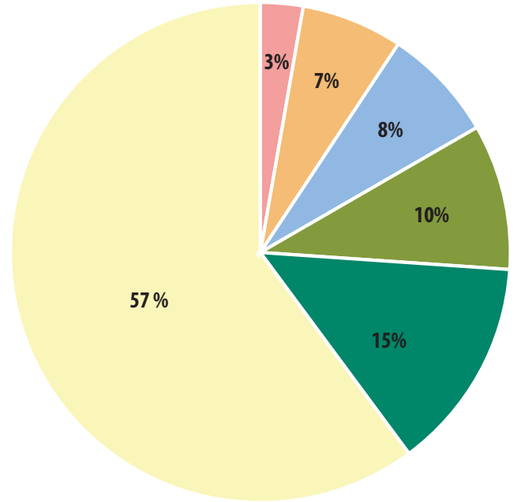
Although suburban sprawl is the main development pattern of Sylmar, the adjacent open space at Olive View adds to the otherwise only 10% of allocated Open Space to the community. Industrial use zone is at 8%. Commercial use zone is at 3%. Public Facilities is at 15%. Olive View site comprises the majority of the community service use zone within Sylmar.

Existing land use within the site is mostly for the medical facility building zones and the central plant areas. Support facilities mostly along the northern edge of the site are comprise of single or low rise bungalows and warehouse/storage type buildings.

North of the site is the southwestern edge of the greater San Gabriel Mountains that form part of the Angeles National Forest. Adjacent open space includes Stetson Ranch on the West and the Saddletree Open Space at north. Immediately East of the site is the access road to Wilson Canyon Park which borders the site on the Northeast.

Sylmar is an equestrian friendly community. Equestrian trails form the nearby amenities within the Stetson Ranch and several existing trails that meander through the northern portion of the site into Wilson Canyon Park. Recreational amenities also include hiking and biking trails within the northern edge of the site and within the surrounding parks.

The nearby community of Sylmar is served by several public parks including El Cariso Regional Park and Veterans Memorial Park, Carey Ranch Park, Sylmar Community Park and Recreation Center, and Telfair Park. A golf course is part of the El Cariso Regional Park approximately 8 miles from the site. Sylmar claims to be the world capital of hang gliding and pilots have been flying hang gliders in the nearby mountains since 1969 at the Flight Park northeast of El Cariso Park.



Land Use Distribution

- Single Family Residential 57%
- Public Facilities 15%
- Open Space 10%
- Industrial 8%
- Multi-Family Residential 7%
- Commercial 3%

3.03 Sylmar Land Use Distribution Chart, City of Los Angeles, Department of City Planning, 2010

LAND USE AND ZONING

The Olive View-UCLA Medical Center is zoned PF-1 Public Facilities Zone per the Sylmar Community Plan, part of the City of Los Angeles General Plan. There are no restrictions to the height of buildings or setbacks. Land use on the property is currently limited to hospital uses, open space, or minimum density housing. The area around the medical center consists of primarily detached one and two family residential dwelling units with some multifamily dwellings. The Wilson Canyon Debris Basin and Channel which runs through the site is classified as OS-1 Open Space Zone.

Residential

- Minimum
- Very Low I
- Very Low II
- Low
- Low Medium I
- Low Medium II
- Medium

Commercial

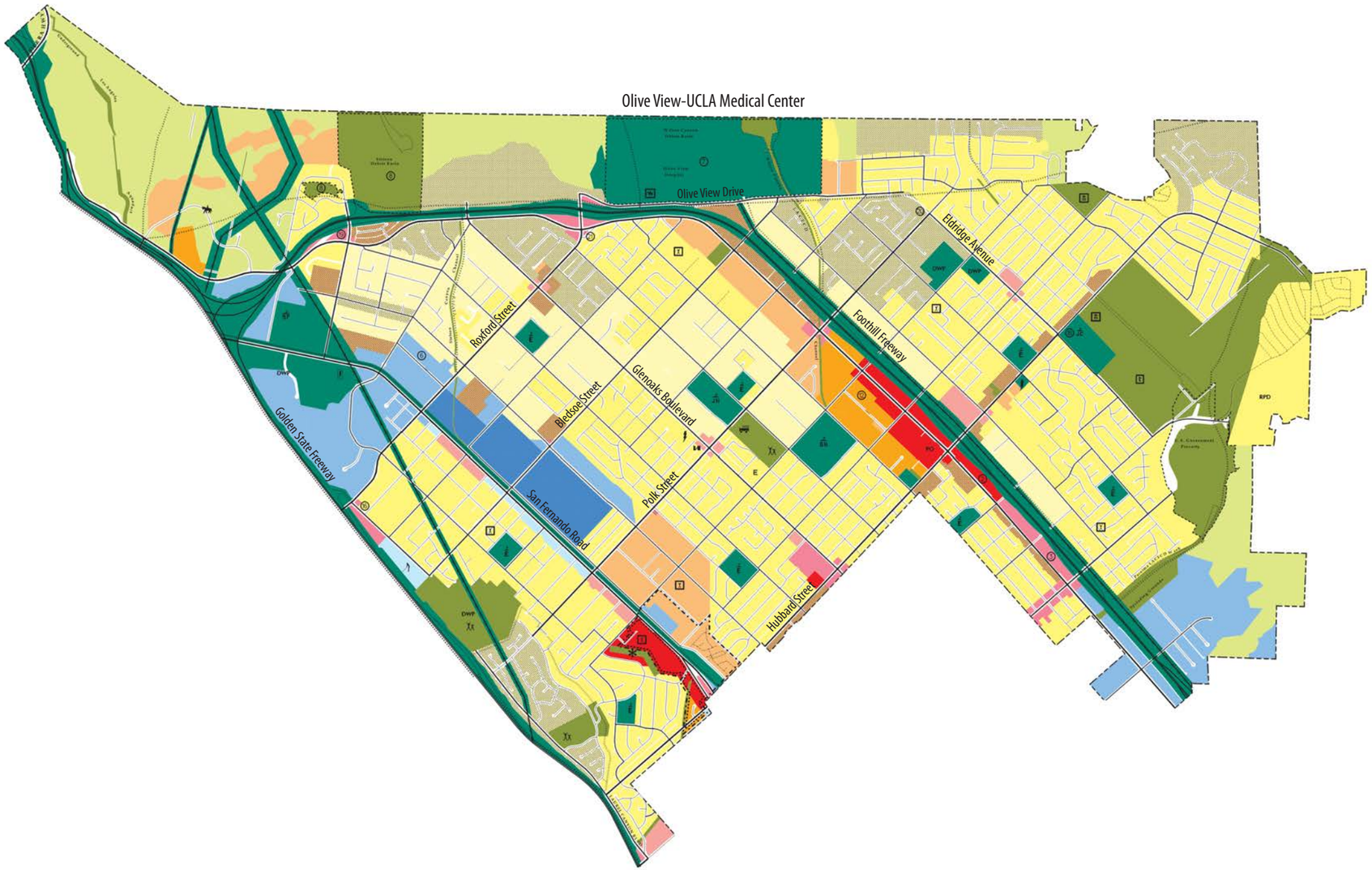
- Neighborhood Commercial
- Limited Commercial
- Highway Oriented
- Community Commercial

Industrial

- Commercial Manufacturing
- Limited
- Light

Open Space / Public Facilities

- Open Space
- Public Facilities



3.04 Sylmar Community Plan Land Use Map, City of Los Angeles, Department of City Planning, 2010

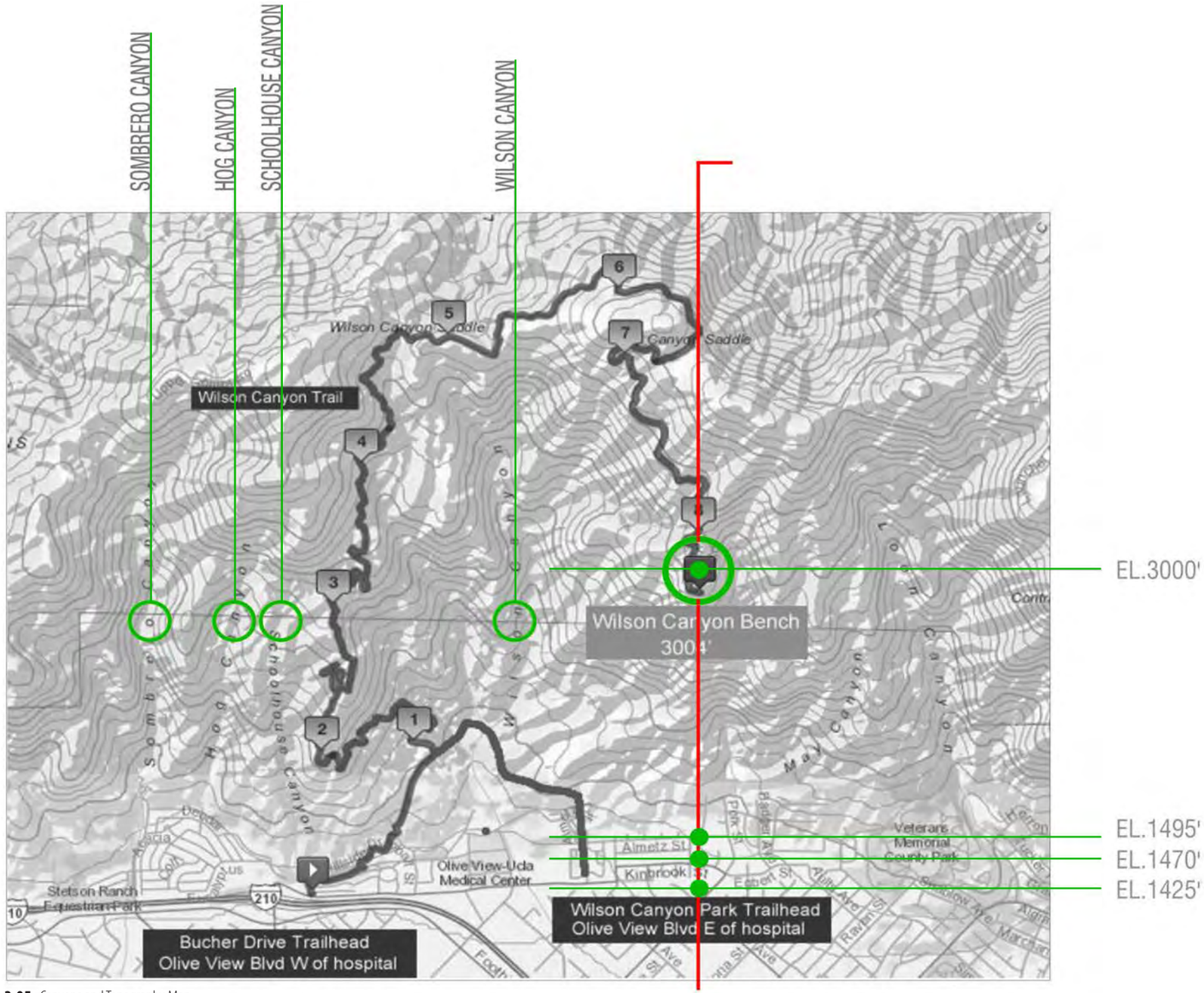
LANDFORM AND TOPOGRAPHY

The San Gabriel Mountains create a dramatic enclosure and an end to vistas from the campus toward that direction from anywhere within the site. Olive View Drive along the southern edge connects the campus to the rest of the adjacent neighborhood.

General soil character is alluvial. This is very good for planting due to high nutrient contents. It is an ideal farming soil but has structural challenges for building foundation systems and hardscape surfacing. The site is a hillside and more than half sits on the foothill of the southwestern portion of the San Gabriel Mountains.

The topography of the campus falls naturally from north to south in a relatively even slope except where developments have occurred. According to the 2012 Topographic Survey, the land elevation rises about 80' high from the midpoint of Olive View Drive and West Way along a 1293' of horizontal distance at West Way toward the mid-northern portion of the hillside. Similar elevation change is indicated by the topographic survey at 1781' of horizontal distance at Kennedy Road next to the existing hospital building toward the hills.

The grade change on the site's eastern portion is immediate along Olive View Drive and the graded pad of the parking area south of the existing hospital. The road and the surrounding paving then gently rise toward the North. The western portion of the site has a more prominent grade change from Olive View to the hillside. The highest elevated graded area of the site, however, is at the northeast portion at about 105' above Olive View Drive at the site's southeast portion of the thoroughfare.



3.05 Canyons and Topography Map

SCALE AND WALKABILITY

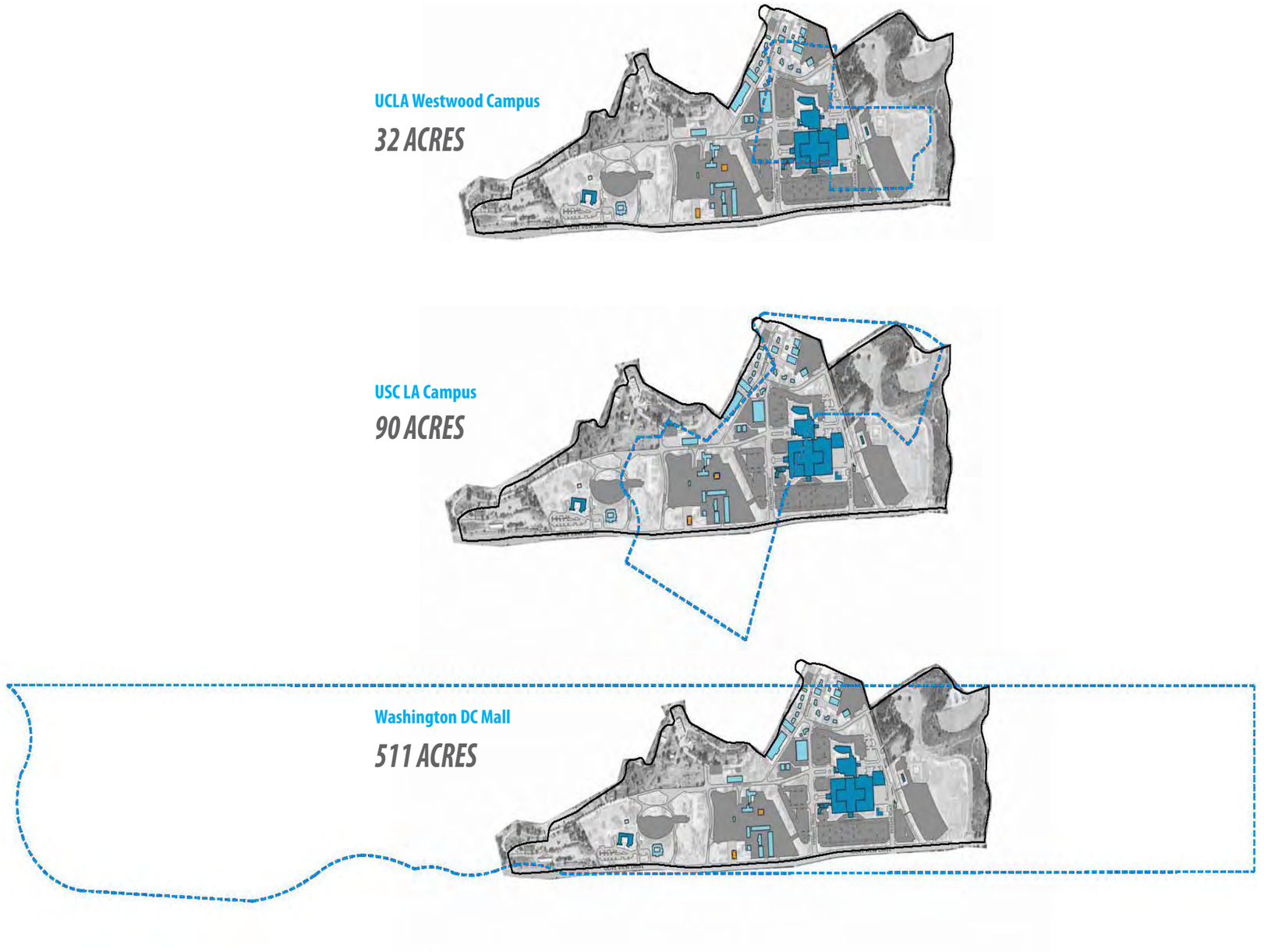
Olive View's location at the north end of the Sylmar community provides a quiet campus, but lacks access to basic services such as food, markets, community center, banks, and other commercial/retail services.

The nearest restaurant or café from the existing hospital (besides the hospital café) is approximately a 2 mile walk from the hospital.

The Olive View site is close to one mile wide East to West and roughly two-fifths of a mile on a straight line vertically North to South. If an average adult can walk about 3.1 miles per hour, the site can be traversed horizontally from the existing Hospital southeast parking to the Northwest end of Hillside Drive in approximately 20 to 25 minutes.

In comparison to the UCLA Westwood Medical Campus, the site is more than twice as big. USC in Los Angeles Campus is roughly less than half of the site. It is roughly one-third the length of the DC Mall.

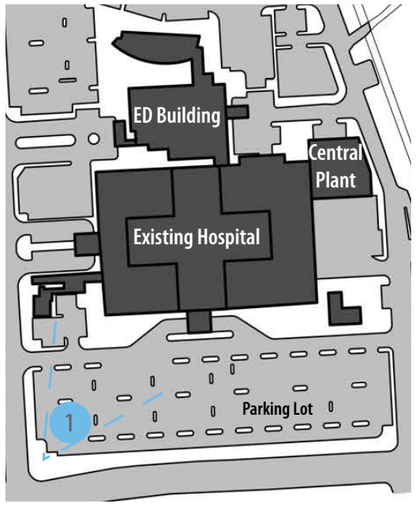
OLIVE VIEW - UCLA MEDICAL CENTER CAMPUS
230 ACRES

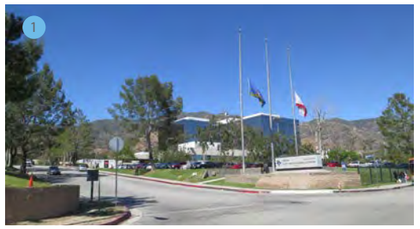


3.06 Site Comparative Scales

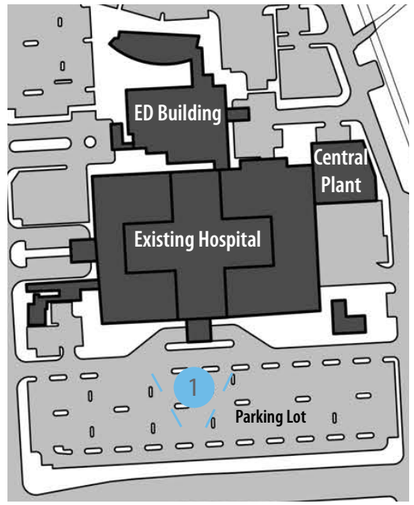
EXISTING SITE PHOTOS

3.07 Key Plan

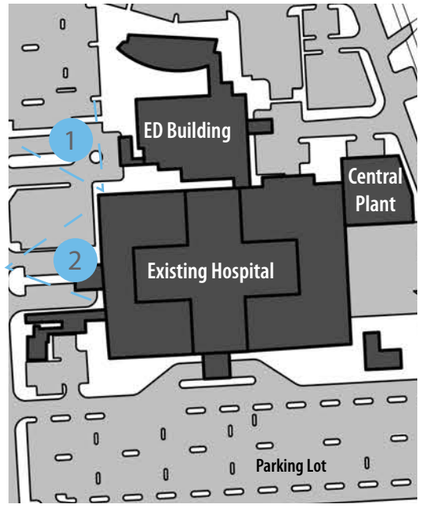




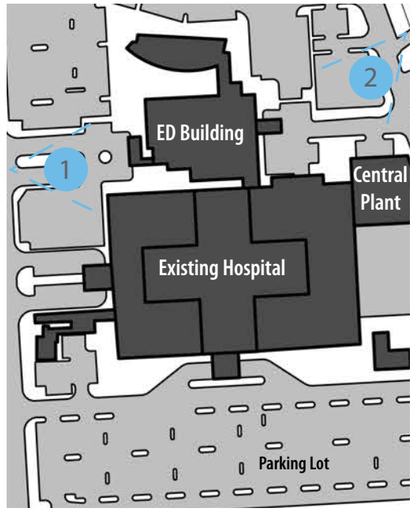
3.08 Main Hospital - Entry from Olive View Drive

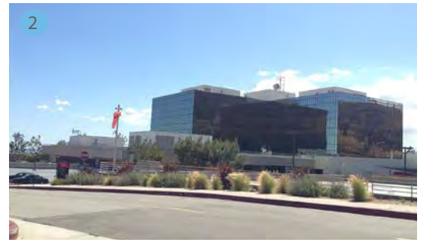


3.09 Main Hospital - Inpatient Entry

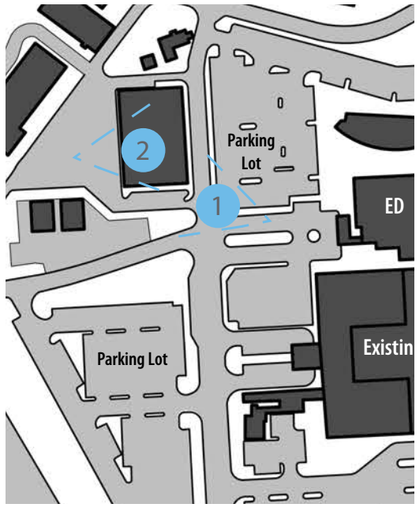


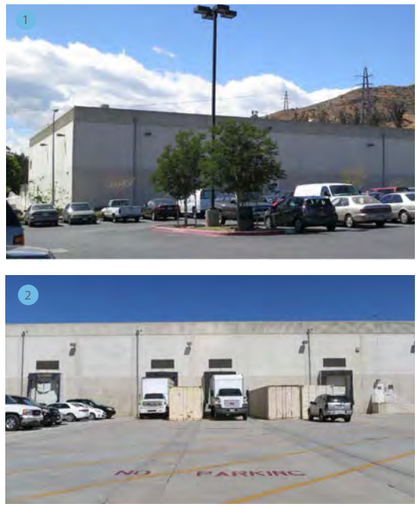
3.10 Main Hospital - Outpatient Entry



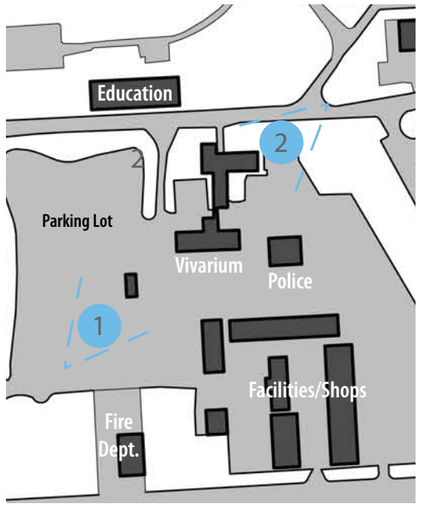


3.11 Emergency Services Building

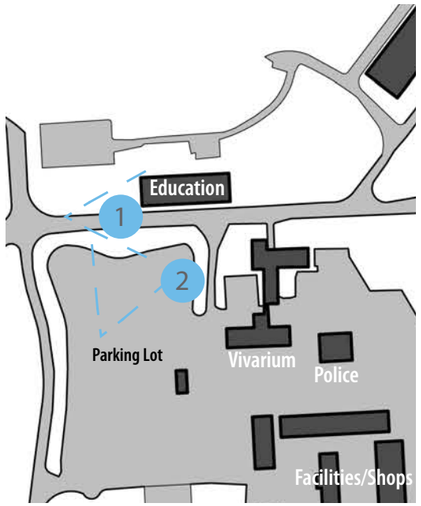




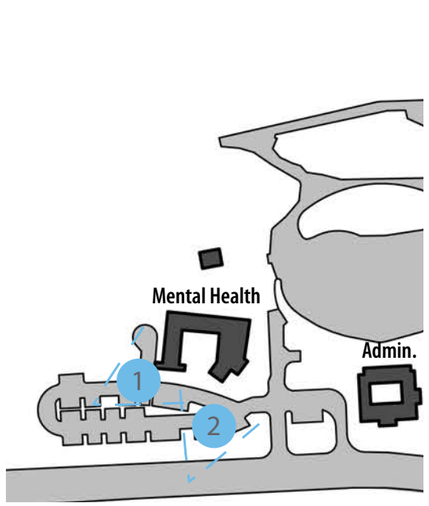
3.12 Service Supply Building



3.13 Old Lab Building and Vivarium



3.14 Nursing Education Building



3.15 Community Mental Health

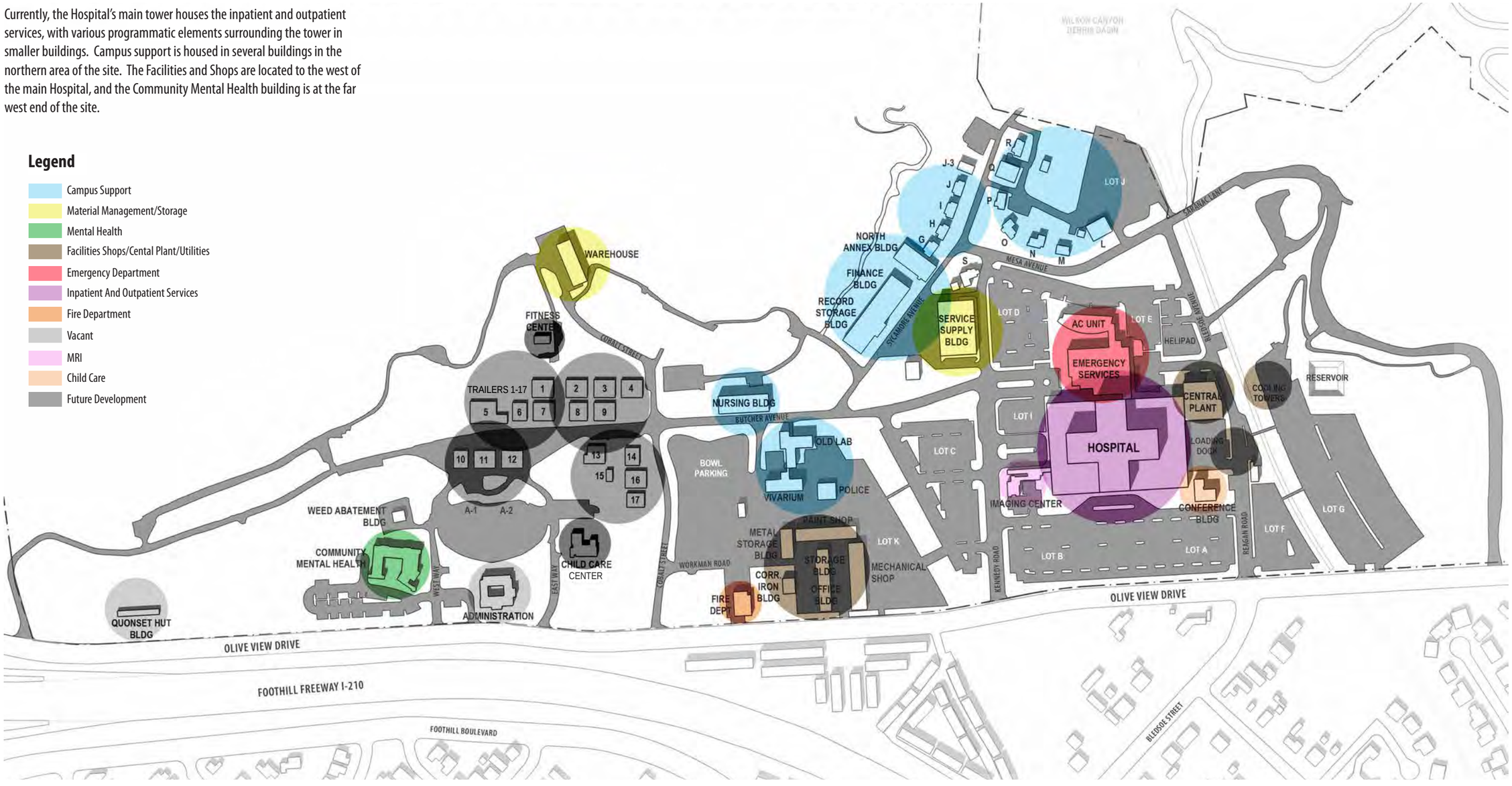
3.16 Key Plan

DEVELOPMENT HISTORY

3.17 Existing Campus Development History Diagram

EXISTING CAMPUS LAND USE

Currently, the Hospital's main tower houses the inpatient and outpatient services, with various programmatic elements surrounding the tower in smaller buildings. Campus support is housed in several buildings in the northern area of the site. The Facilities and Shops are located to the west of the main Hospital, and the Community Mental Health building is at the far west end of the site.



3.18 Existing Campus Land Use Diagram

EXISTING CAMPUS AND BUILDINGS

Building Description and Current Uses

There are 31 permanent builings and 29 trailers and other modular structures at the campus. The major concentration of buildings occurs around the Main Hospital and includes the Central Plant, Emergency Services and Isolation Building, and Service Supply Building. The Central Plant is a two-story building constructed at the same time as the Hospital and is in fair condition. There have been some equipment replacement projects, but for the most part, the plant maintains it's original layout. One of the most recent projects at the campus was the construction of the Emergency Services Building and Isolation Unit in 2005. Attached to the Main Hospital on the north, the one-story Emergency Services Building houses the medical center's Emergency Department. Directly attached to this building is the Isolation Unit which functions as a regional treatment center for tuberculosis.

Located north of the Main Hospital are various bungalows and trailers utilized primariily for administrative and hospital support functions. The bungalows are one of the oldest cluster of buildings on the campus dating back to the original tuberculosis sanitarium campus from the 1930s. These are one-story detached dwellings which house administrative, social work, and doctor's offices. Directly west of the Main Hospital is where the Facilities Offices and Shops are located. These buildings were built in the early 1960s and house facility offices, conference rooms, a document control room, maintenance shops, and storage space.

At the far west end of the campus, the Community Mental Health building is located which serves as a psychiatric urgent care center. This one-story building was constructed in 2011. There are a series of trailers which at the time of this master plan are being built northeast of the Community Mental Health Building. There are a total of 17 trailers and the proposed use for these is storage and information systems.

Building Characteristics

The buildings on the campus range in age between 5 years to 80 years old, and ,therefore, a wide range of architectural styles exists. The oldest buildings are remnents from the original campus development in the 1930s and have since been repurposed for campus support uses. The modular structures and trailers provide additional space and storage needs for the medical center and are scattered throughout the campus. Spread across the vast 230-acre site, these mostly one-story structures create a fragmented space utilization and appearance which lacks a common architectural expression and identity. This is not unexpected because of the history of development at this campus.

3.19 Photo of Old Lab Building

3.20 Photo of Emergency Services Building Courtyard

3.21 Photo of Trailers

3.22 Photo of Bungalows

3.23 Photo of Bungalows

EXISTING SITE CIRCULATION

Access

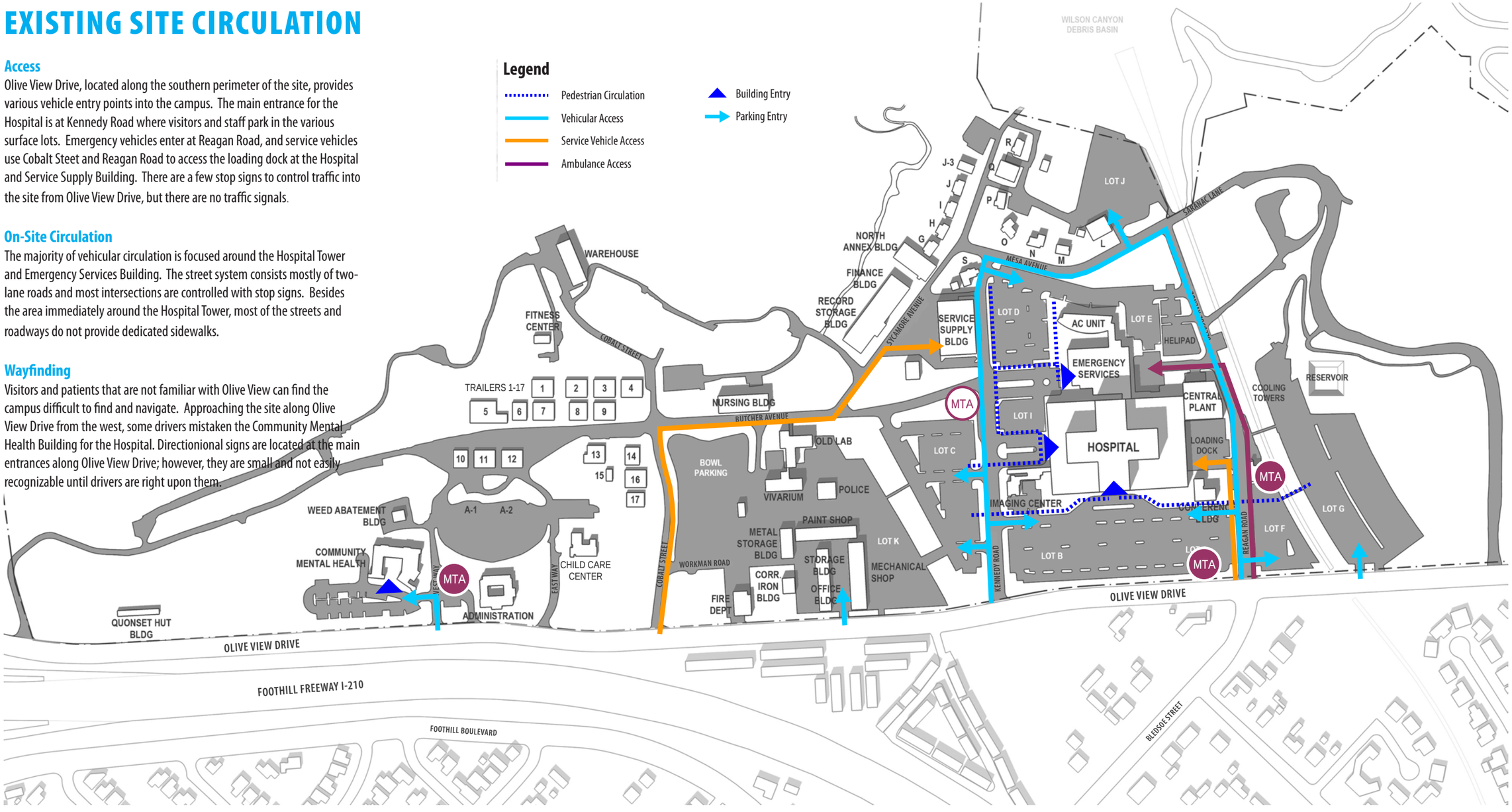
Olive View Drive, located along the southern perimeter of the site, provides various vehicle entry points into the campus. The main entrance for the Hospital is at Kennedy Road where visitors and staff park in the various surface lots. Emergency vehicles enter at Reagan Road, and service vehicles use Cobalt Steet and Reagan Road to access the loading dock at the Hospital and Service Supply Building. There are a few stop signs to control traffic into the site from Olive View Drive, but there are no traffic signals.

On-Site Circulation

The majority of vehicular circulation is focused around the Hospital Tower and Emergency Services Building. The street system consists mostly of two-lane roads and most intersections are controlled with stop signs. Besides the area immediately around the Hospital Tower, most of the streets and roadways do not provide dedicated sidewalks.

Wayfinding

Visitors and patients that are not familiar with Olive View can find the campus difficult to find and navigate. Approaching the site along Olive View Drive from the west, some drivers mistaken the Community Mental Health Building for the Hospital. Directionional signs are located at the main entrances along Olive View Drive; however, they are small and not easily recognizable until drivers are right upon them.



3.24 Existing Campus Site Circulation Diagram

EXISTING PARKING

Existing Parking Inventory

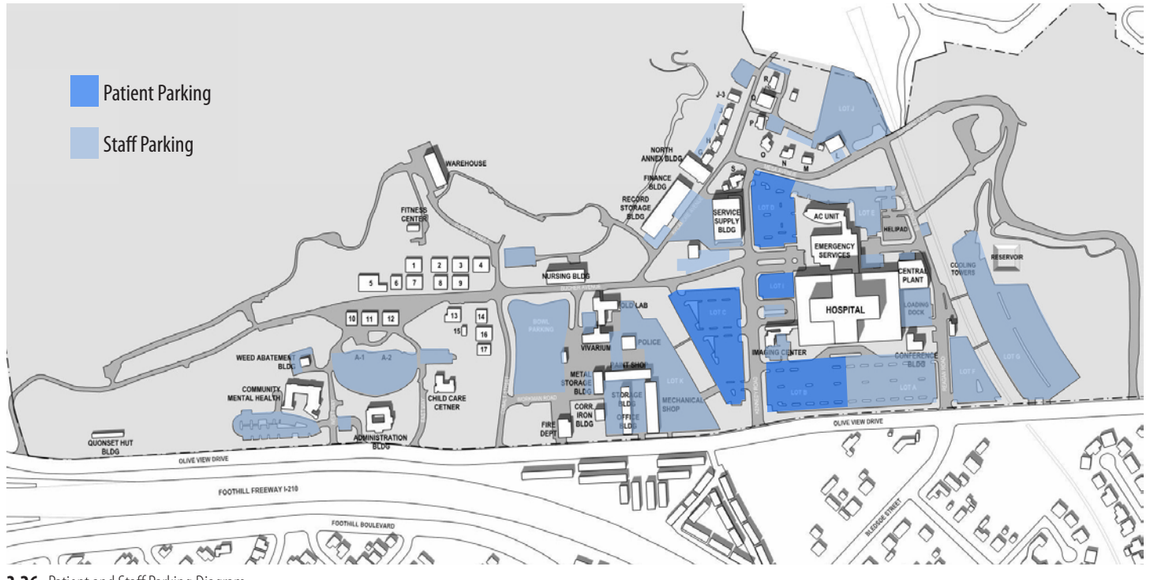
The team visited the Olive View campus on April 4, 2014 to inventory the number of parking spaces available on-site. The campus has several large, named paved lots, in addition to several small, unnamed parking areas. Additionally, there are several small parking areas, generally in the northern part of the campus, that are gravel lots, with loose parking space delineations as well a few areas around the campus where vehicles were observed parking in the dirt.

It was determined that the number paved/delineated parking spaces in the study area totals 2,672+ as shown in Table 1. This total does not include un-delineated gravel and dirt areas where vehicles were observed parking, nor does it include on-street parking on Olive View Drive since the City of Los Angeles has jurisdiction over on-street parking.

In the four primary visitor Lots (B, C, D & I) there are a total of 629 patient/visitor parking spaces, of which 39 are accessible. Based on the existing inventory, OVMC appears to provide less patient/visitor accessible spaces than required by Federal and State accessibility requirements. These statutes require that hospitals and healthcare centers for ambulatory patients receiving outpatient medical care must devote 10 percent of the patient and visitor parking supply for disabled access ("DA"), of which one in six must be van-accessible.

Parking Lot/Area	Patient/Visitor	Employee	Accessible	Reserved (All Categories)	Timed	Lot Total
Lot A		161	19	3		183
Lot B	190		7	2		199
Lot C	236		13			249
Lot D	147					147
Lot E		103	5	1		109
Lot F		100				100
Lot G		401		9		410
Lot I	17		19			36
Lot J		155				155
Lot K	3	268	4	18		293
Mental Health Center	12	31	8	9		60
Education Center		22	5			32
MRI Lot			13	6		19
All Other Parking Areas			13	6	5	19
Total	**652**	**1,805**	**126**	**84**	**5**	**2,672**

3.25 Campus Parking Inventory Summary



3.26 Patient and Staff Parking Diagram

tv

Existing Parking Occupancy

Based on discussions with Olive View staff, it was determined that Mondays and Tuesdays are generally the busiest days on the campus. A site visit was conducted on Tuesday, April 29, 2014 to collect parking demand counts during the peak periods of parking demand. This day represents a typical busy day for the campus, as there were no special events occurring that would skew demand higher. Counts were collected at 11:00 AM and again at 1:30PM to best capture peak demand, which is generally late morning or early afternoon. Table 3 summarizes peak parking occupancy per lot.

Observed parking occupancy in parking lots peaked at 11:00 AM at 2,251 spaces or 80.5% of the total supply occupied. It should be noted that the observed parking occupancy in Table 2 does not include observed parking in dirt/unpaved areas around the campus as well as observed on-street parking.

A total of 41 vehicles were parked in dirt/unstriped areas on the campus. Based upon field observations, it is estimated that 60+ on-street parking spaces were occupied by staff during the peak period of parking demand. A quick windshield survey showed that many of the vehicles parked on-street had Olive View parking permits (typically for the Bowl, Lot J or Lot G). It should be noted that staff parking on-street is not a violation of any kind and is permitted since there are no restrictions on street parking on Olive View Drive. However, the observed on-street parking is included in the parking occupancy numbers for the purpose of calculating user group demand ratios. It is possible, that in the future, off-street parking could be restricted and become unavailable for staff parking. Therefore it is important to plan in advance for this possibility. Adding in an additional 101 vehicles of parking demand to account for on-street and on-dirt parking, 84.2% of Olive View's parking supply would be occupied.

Peak Parking Occupancy

The parking supply is generally designated for specific user groups. Lots B, C, D & I are patient/visitor lots. Lots A, E, F, G, J, K and the Bowl are assigned to staff, generally based on office location and other factors such as shift time. Olive View does not provide separate 'Physician/MD Only" parking areas. Lots A, E, F, and G are controlled by gated access systems and require a proximity card for access.

Some cross utilization of the visitor parking areas likely occurs, and was observed. For the purpose of this analysis, it was assumed that each lot was occupied by the intended user type.

Parking occupancy in Lot A and Lot B was virtually full (with the exception of accessible spaces in Lot A). Patient parking in Lot C and Lot D was observed to be less than 100% full.

Parking Lot/Area	11:00 AM	1:30 PM
Lot A	177	176
Lot B	199	192
Lot C	231	208
Lot D	114	99
Lot E	92	92
Lot F	327	89
Lot G	35	328
Lot I	129	35
Lot J	269	127
Lot K	30	266
Mental Health Center	24	26
Education Center	15	16
MRI Lot	139	122
All Other Parking Areas	277	260
Total	**2,150**	**2,061**

3.28 OVMC Campus Parking Occupancy - April 29, 2014

Parking Lot/Area	Lot Total	11:00 AM Occupancy	Occupancy (%)
Lot A	183	177	97%
Lot B	199	199	100%
Lot C	249	231	93%
Lot D	147	114	78%
Lot E	109	92	84%
Lot F	100	92	92%
Lot G	410	327	80%
Lot I	36	35	97%
Lot J	155	129	83%
Lot K	293	269	92%
Mental Health Center	60	30	50%
Education Center	27	24	89%
MRI Lot	19	15	79%
Parking Bowl	267	139	52%
All Other Parking Areas	418	277	60%
Total	**2, 672**	**2,150**	**80%**

3.29 Peak Parking Occupancy

User Group	Supply	Current Peak Occupancy	% Occupancy
Patients/Visitors	693	618	89%
Employees/Physicians	1, 979	1, 633	83%
Total	2, 672	2, 251	84%

3.30 Peak Parking Occupancy by User Group

EXISTING LANDSCAPE

Landscape Context

The general landscape character of the Olive View – UCLA Medical Campus lacks an overall cohesiveness and clarity. Most of the landscaped areas do not correspond with the natural setting of the campus, and the plants are not from a region with a similar climate. There is no unique plant palette of Southern California celebrated except at a recent expansion of the emergency wing at the existing hospital building.

The primary reason for this lack of intended landscape relationship between building and the site is that the architecture of the campus is a collection of unrelated structures: one multi-story Main Hospital building and arrays of single story warehouse looking structures placed about anywhere. In addition, a disparate architecture style of several other buildings seems randomly placed where the building fit or where land was available. Where landscape is present, this misplacement creates a 'left over' landscape fabric or planted patches that have no landscape language to express or represent.

On the other hand, the backdrop of the San Gabriel Mountains along the north edge of the site is a strong presence. Despite the many landscape disparities, the experience of the landscape of the mountains creates some kind of a sense of place. Where vegetation has an opportunity to create its own mass - where the topography begins to rise at the toe of the mountain slopes or where old development was intentionally or unintentionally abandoned - the landscape character becomes more pleasing, calm, and picturesque.

The natural character of the surrounding vegetation is essentially suburban hillside – but only at the northern side. Where the site meets the surrounding neighborhood along Olive View, the character is dusty and dry. Except for a number of mature evergreens that line some edges of the most used areas of the site - generally parking lots - there seems to be no prominence or significant landscape to mark the site from outside.

3.31 Existing Landscape Site Photos

Landscape Character

Unfortunately, plants have not played a major role in defining the character of the existing Olive View campus. Except for several mature pines along Olive View and Kennedy Road, there are not many significant tree canopies at the site.

Relative to the building and site, the existing tree distribution is not enough to help fully appreciate and orient one to key buildings and landscape works. This distribution also does not demonstrate if trees have been intentionally used to create landscape spaces and rooms. None of the building scales or transitions between landscape has been created by existing placement of trees and vegetation.

Most of the site has suffered from natural events - earthquakes, erosions, winds, and fires. Erosion, climate, and fires has over time created the state of ecology at the existing medical campus. The tree canopy coverage on most of the developed portion is minimal. Dominant trees species that remain include eucalyptus, pines, and coast live oaks. Hillside trees are not significant except the bottom of the foothill on the east portion of the site.

The ground vegetation is almost non-existent except at the northern portion of the Edison Easement and at two areas maintained or protected by part of the building – the turf area at West of the Education Center and the small turf area West of the existing Emergency wing of the hospital building. Several fires have damaged trees, yet some still remain in some areas near Wilson Canyon at Saranac Lane and along the west at Hillside Drive. Several stands of olive trees are still evident at the northern edge of the Edison Easement. A small group of Mexican Palms have been randomly placed midway along Bucher Avenue at Sycamore Avenue.

The climate and the hillside topography at the site, like most Southern California valleys lends itself to a dry environment where natural chaparral could thrive. There is a small number of Chaparral vegetation at the bottoms of slopes and where areas have been left undisturbed for quite some time.

WILDLIFE AND VEGETATION

Wildlife

Several wildlife species inhabit the San Gabriel Mountains. Documented predominant species of the southwestern portion include coyotes, mule-deers, owls, and Swallowtail butterflies. As with most natural areas, squirrels, particularly the Gray Squirrel, are considered predominant in this area. Wildlife sightings during the day in the developed areas and graded or disturbed portions of the site has been rare.

Vegetation

The developed portion of the site does not represent the natural vegetation of the surrounding landscape of the San Gabriel Mountains. Much of this diverse vegetation has been altered by development along the foothills and most of Sylmar.

The general ecology and vegetation character of the mountains in this area includes conifers and broadleaf forestation at higher elevations. In riparian areas, willows, alder, and cottonwood are found along the stream courses. Deeper into the canyons at higher elevations and as the mountains begin to face the northern exposure, the vegetation is covered by canopies of widespread coulter pines and firs. On a larger scale, coast live oak forests which once covered much of the southern facing foothills and inland valleys of this area are still evident.

This same oak woodland shares the canopy of a diverse ecosystem with bigleaf maple, walnut, and riparian alders on most of the southwestern portions of the mountains. Scrub oaks, ceanothus, and manzanitas are predominant shrubs among these trees and are more widespread especially at lower elevations. Chaparral vegetation along the lower hillsides includes mimulus, phacelia, poppies, salvias, scotchbroom, wild mustard, and yerba buenas that blanket the ground in multitudes of color for most of the spring through summer.

The thriving settlements of the San Fernando Mission at the turn of the century established a center of trade where fruits, vegetable, olives, wine, and livestock were bought and sold. Sylmar and the current site of the medical campus and most of the southeast foothills were agricultural land with most of the olive plantations along the southeast foothills east of the current site. Most of Sylmar's vegetation was agricultural through the 1950's.

3.32 Photos of types of native California wildlife and vegetation

SITE INFRASTRUCTURE

Overview of Existing Conditions

The existing Central Utility Plant (CUP) was reviewed to assess the condition of equipment, to document operational procedures, to identify existing capacities, and to estimate future needs.

The existing CUP is in relatively fair operating condition with sufficient capacity and redundancy for the most part; however, there are some operational challenges due to the aging equipment that either fail or require more frequently scheduled maintenance. The other concern is the amount of energy usage and inefficiencies of major equipment under current operating conditions.

The major equipment in the Central Utility Plant (including CoGen, chillers, cooling towers, heat exchangers, main electrical equipment) is maintained by the Internal Service Department (ISD), which is the Building Maintenance division of Los Angeles County. The Central Plant holds the majority of the equipment except the cooling towers which are located on the other side of Reagan Road and the Wilson Canyon Channel. Underground piping connects the cooling towers to the chillers in the central plant.

The remaining major equipment (including generators, electrical distribution equipment, fuel tanks, fire pump, medical gas and associated systems) in the plant are maintained by the Hospital Facilities staff.

Per the Olive View Facilities staff, no major equipment replacement project is contemplated at this time - with the exception of an emergency generator relocation project.

The Building Automation Systems (BAS) at the CUP is by Allen-Bradley (Rockwell Automation). The BAS controls at the Hospital is by Honeywell. The systems are mostly digital, with some pneumatic operators. There is no integration between

Site Utility Distribution

The diagram illustrated on the opposite page shows the major site utilities that are distributed throughout the campus. Review of existing facility drawings, site visits, discussions with ISD and Olive View Facilities staff, and data collected from various utility companies were used in compiling the existing conditions assessment for the campus.

The highest concentration of underground utiilities is focused around the existing Hospital. Domestic water, storm drain, and sanitary sewer lines are routed and collected around the Hospital connecting to main lines at Olive View Drive. These services also extend to the west end of the campus serving some of the outlying buildings such as Facilities/Shops, Nursing Building, and Community Mental Health. Electricity and water is provided for the medical center by the Los Angeles Department of Water and Power (LADWP) local utility company along Olive View Drive. There are two independent electrical feeds, one at each end of the campus. The Hospital, Central Utility Plant, Emergency Services Building, and Service Supply Building are served by the LADWP substation located on Reagan Road. The incoming undergound utility feed extends from the LADWP substation to the Main Service Switchboard in the CUP main electrical room. The remaining buildings at the site are fed from a other points of connection by LADWP on Cobalt Street and West Way.

There are multiple connections to the site for fire and water services. The Los Angeles Department of Water and Power provides these services at Olive View Drive.

The backup power for the east side of the campus including the Hospital, Emergency Services Builiding, and Central Utility Plant is provided by two diesel engine generator sets located inside the CUP. Only 2 of the 4 underground fuel oil tanks that serve the generators are currently being used. There is a plan to install new outdoor generators and associated switchboard. The electrical service to the facility is supplemented by the Cogeneration Plant's turbine generators.

Natural gas is provided for the medical center which runs along Reagan Road and connects to the main gas line along Olive View Drive.

The medical gas system comprises of medical vacuum, medical air, oxygen, nitrogen, nitrous dioxide, and carbon dioxide. The medical air compressors are medical vacuum pumps located in the CUP and were recently replaced with newer equipment. There is a Gas Room at the Hospital loading dock where the oxygen, nitrogen, and other gases are stored.

Storm Water Management

They are currently two watersheds north of project site, the Wilson Canyon Channel watershed and the Mansfield Channel watershed. The runoff from these areas is conveyed through the Schoolhouse Canyon Diversion to the Pacoima Wash located at the southeast corner of the Pacoima Canyon and May Canyon.

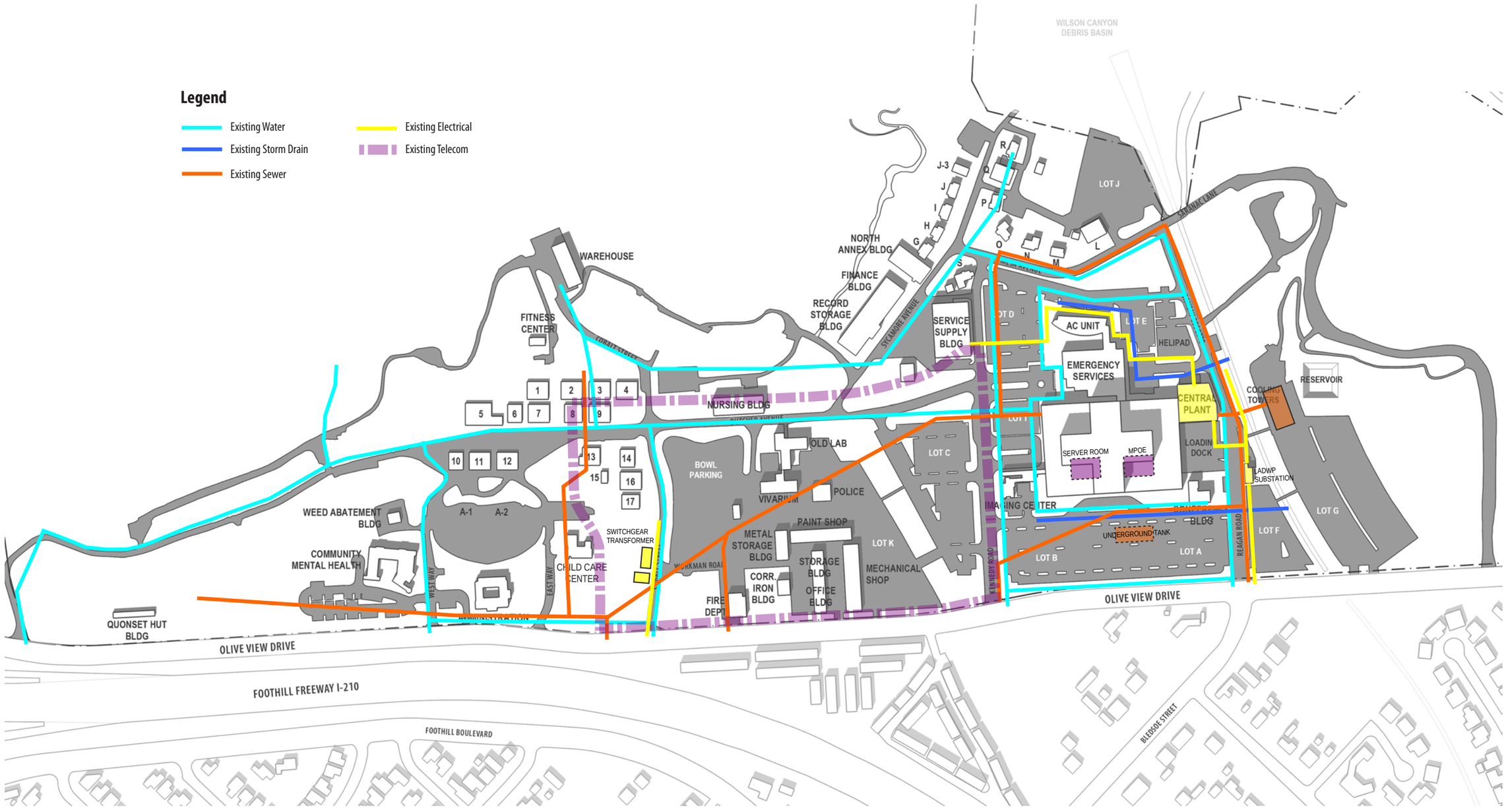
The stormwater runoff from areas upstream of the campus is being captured and conveyed through the Wilson Canyon Debris Basin located at the northeast corner of the site and Mansfield Canyon Channel located at the southwest corner of the site. The majority of stormwater runoff from the developed area sheetflows toward a series of on-site catch basins spread around the site and discharges to the City of Los Angeles storm drain line at Olive View Drive. No stormwater management was observed for the undeveloped area.

Technology Infrastructure

The Data Center, Main Distribution Frame (MDF), and Main Point of Entry (MPOE) Room are all located in the first floor of the existing Hospital. There are multiple Intermediate Distribution Frames (IDF) dispersed in the Hospital and in the outlying buildings and trailers.

The generator upgrade project is in progress and new power lines are being extended to all Technology Rooms and Closets. Once this is completed, power outages will have less of an impact to the IT environment within the Hospital as the generator will power IT equipment in the event of a power outage until power is restored or fuel resources to the generator are exhausted.

The telecommunications fiber network around the campus has been recently repaired within the past two year. The trailers to the west end of the campus all have new conduits provisioned for network connectivity.



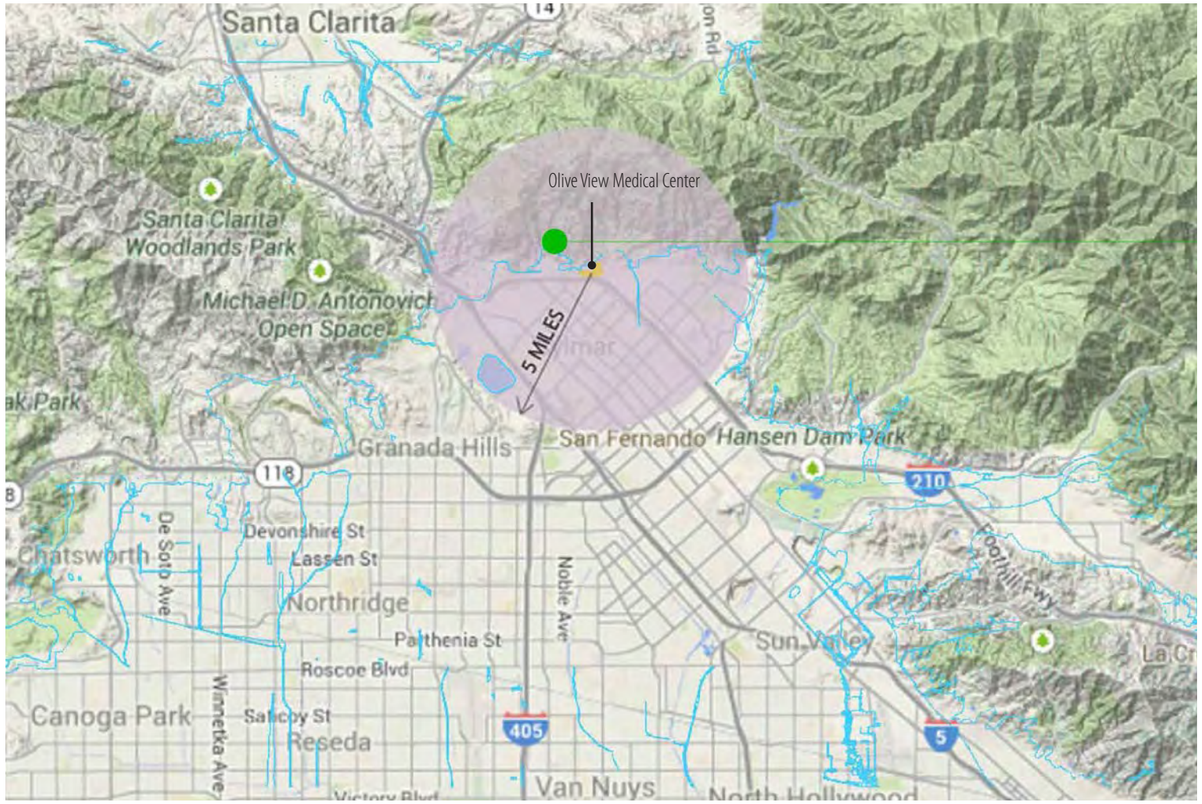
3.33 Existing Site Infrastructure Diagram

WATERSHED

Historically, the canyons of the San Gabriel Mountains fed the watershed of the surrounding lower valley. Numerous springs and water ways found their way to the Los Angeles River in the farther south of the now San Fernando Valley. With the rising demand for agricultural water in the late 1800's, Sylmar saw the construction of the Los Angeles Aqueduct in 1913.

The Los Angeles basin and several areas along the hillsides and the water tributaries were prone to flooding as part of the natural climate and topographic cycle. However, as the valley area grew and population increased, the immediate response during the early 1900's through the 1960's was to channel these tributaries for flood control. Similar to almost every concrete channeling of water ways in the Los Angeles area, storm management was primarily the reasoning behind the two water and debris basins adjacent to the site. The Schoolhouse Debris Basin, completed in 1962, is on the western end of the site and is part of the Mansfield Channel. It is designed to store 19 acre-feet of debris and drain an area of 0.28 square miles. On the northwest edge is the Wilson Debris Basin. Constructed in 1961, the 50 feet high and 666 feet length basin is designed to store 84 acre-feet of debris and drain an area of 2.6 square miles. The Wilson Debris Basin is on the Wilson Canyon River portion of the surrounding watershed.

According to the 2012 Topographic Survey and Easement Plan, water flows generally in two directions within the site – either westward down to the channel coming out of the Schoolhouse Debris Basin and the eastern channel from the Wilson Debris Basin. Occasional flooding occurs over the natural surface slope of the hillside but more prominently northeast of the existing Community Mental Health building.



3.34 Watershed Map

STRUCTURAL

A structural assessment of the existing building inventory at the Olive View – UCLA Medical Center was performed with the primary focus on buildings providing acute care services which are regulated by the Office of Statewide Health Planning and Development (OSHPD). The structural assessment was performed based on the following:

- Cursory review of as-built drawings for the existing buildings
- Review of prior seismic evaluation reports
- Brief visual observation of the building conditions
- Review of the SB1953 legislation requirements
- Review of the fault rupture hazard investigation report for the site
- Understanding of the future needs of the medical center

OSHPD SB1953 Seismic Compliance Overview

Senate Bill 1953 (SB 1953) was introduced on February 25, 1994 and signed into California law on September 21, 1994. The bill is an amendment to and furtherance of the Alfred E. Alquist Hospital Seismic Safety Act of 1983. The Alfred E. Alquist Seismic Safety Act established a seismic safety building standards program under OSHPD's jurisdiction for hospitals built on or after March 7, 1973. The Act was initiated because of the loss of life incurred due to the collapse of hospitals during the Sylmar earthquake of 1971. The Act emphasizes that essential facilities, such as hospitals, should remain operational after an earthquake. Hospitals built in accordance with the standards of the Act resisted the January 1994 Northridge earthquake with minimal structural damage, while several facilities built prior to the act experienced major structural damage and had to be evacuated. However, certain nonstructural components of the hospitals did incur damage, even in facilities built in accordance with the structural provisions of the Act. The provisions and subsequent regulation language of SB 1953 amended the Act to address the issues of survivability of both nonstructural and structural components of hospital buildings after a seismic event. Therefore, the ultimate public safety benefit of the Act is to have general acute care hospital buildings that not only are capable of remaining intact after a seismic event, but also capable of continued operation and provision of acute care medical services after a seismic event.

One of the main provisions of SB 1953 is the development of earthquake or seismic performance categories, specifically the Structural Performance Categories (SPC) and the Nonstructural Performance Categories (NPC). These include seismic performance categories for new and existing general acute care hospital facilities rated on a scale from 1 to 5, with a rating of 5 representing those buildings capable of providing services to the public after a seismic event and a rating of 1 representing those buildings at significant risk of collapse and represent a danger to the public. See the Appendix for tables with a desciption of the stuctural perfromance categories and nonstructural performance categories defined by OSHPD. These tables also specify the timeframes for which each general acute care hospital building must meet each seismic performance category. Legislation enacted subsequent to the original SB 1953 has provisions for facilities to apply for seismic compliance extensions to these timeframes.

Summary of Buildings Assessment

The Main Hospital Building has a structural seismic performance rating of SPC-4 which allows the building to continue operation providing general acute care services indefinitely beyond the year 2030. From a nonstructural seismic performance perspective, the building has an NPC-3 rating which means that all nonstructural systems in the critical care areas of the building have been upgraded to comply with the California Building Code. With an NPC-3 rating, the building is in compliance with current OSHPD SB 1953 timeframe requirements, however, prior to the year 2030, it is required that the remaining nonstructural systems in the building be upgraded in order for the building to provide acute care services beyond the year 2030.

The Central Co-Generation Plant and the Cooling Towers also have SPC-4 and NPC-3 seismic performance ratings meaning that these building are currently in compliance with OSHPD SB 1953 regulations. Similar to the Main Hospital Building, the remaining nonstructural systems in these building are required to be upgraded to NPC-4 prior to the year 2030.

The Emergency Services Building and the Tuberculosis Isolation Building both have an SPC-5 and NPC-4 seismic rating which means that both buildings are in compliance with OSHPD SB 1953 regulations to provide acute care functions beyond the year 2030.

It should be noted that the campus will be required to meet NPC-5 requirements before the year 2030. This involves upgrading campus facilities to provide 72 hours of onsite water supply, sewage holding and emergency electrical power to the buildings that will remain functional providing OSHPD acute care services beyond the year 2030.

MATERIALS MANAGEMENT

Materials Management Building

The Material Management Building or Service Supply Building was originally constructed in 1982 with some additional structural retro-fitting of the building done following the 1994 Northridge Earthquake. The building is located across from the Emergency Services Building entrance. The majority of all incoming supplies and equipment are delivered to, and received at the four truck bays. Linen, Food and Pharmacy supplies are delivered to, and received at the Main Hospital Loading Dock. Supplies and equipment are transported from the Material Management Building to the Main Hospital Loading Dock via facility owned box trucks.

A new Warehouse / Inventory Management System, which will utilize scanning and bar-code technology, was due to be implemented on or by July 1, 2014. Once implemented, MM staff will take over the inventory and replenishment function for the clinics. Speed and accuracy of the supply replenishment function should be greatly improved with the use of this system.

Electric "Golf-cart" vehicles are used to deliver smaller items to the Main Hospital and other out-lying buildings. The space inside the Material Management Building incorporates the following elements: Receiving / Breakout area which includes three receiving desks / PC work stations, and open floor space for supply break-out and staging. The space appears adequately sized, however staged new and / or salvage equipment can encroach on the space.

Main Hospital Loading Dock

The Main Hospital Loading Dock incorporates six (6) truck bays. Two of the dock positions are utilized for delivery and handling of various Food/ Kitchen, Pharmacy, and other non-related medical supplies. In addition, other docks are used for facility trucks to deliver clinic supplies and deliveries from the Material Management Building. Clean and soiled linens are exchanged daily to the staging rooms adjacent to the loading dock. Waste Management is provided at the Hospital Loading Dock including equipment and the necessary staging space.

LIGHTING

Existing Exterior Site Lighting

As a result of this progressive construction and development, the light fixtures installed on the medical center campus vary greatly in visual appearance, lamping, color temperature, performance, and energy efficiency. While LED light fixtures are being installed in specific locations to test the effectiveness of their use on the campus and newly constructed areas have achieved a more regular vocabulary in terms of fixture style, the campus still has an eclectic visual appearance, and many fixtures could benefit from replacement with more energy efficient and efficacious sources.

The new master plan will support the project goals of creating a sense of place and community, reclaiming and celebrating nature, creating visual hierarchies and special areas within the campus, assisting in wayfinding, promoting sustainability and energy efficiency, and unifying the campus through design.

Night Site Lighting Survey

Currently, the light levels on the campus vary widely from well lit areas (such as the main entries of the Emergency Services Buidling and the newly updated parking lots) to very dimly lit or unilluminated areas (service areas behind the bungalows and loading dock facilities). The variety of light sources that have been installed over time include extremely warm Low Pressure Sodium (bungalow area), High Pressure Sodium (poles and wall mounts in Maintenance areas), HID (newly updated parking lots and facades), and Fluorescent (maintenance areas and Main Hospital) which create challenges for people navigating the paths and roadways. Much of the signage is not illuminated, which increases the difficulty of wayfinding.

From an energy standpoint, it was also noted during the site visits that in many support facilities (trailers and bungalows), all the interior lighting was illuminated even though the buildings did not appear to be occupied. Controls such as dimming, timeclocks, and occupancy sensor devices now mandated by Title 24 can help the campus achieve greater energy savings.

The development of a cohesive vocabulary, a family of light fixtures, with consistent light sources and color temperatures will significantly reduce visual inconsistency and clutter, and enhancing lighting for deficient areas and wayfinding elements will provide a greater ease of circulation and feeling of security on the campus.

3.35 Photos of Existing Site Lighting

SIGNAGE

Introduction

This section contains an analysis of the existing signage at the campus addressing both interior and exterior signage. The process was as follows:

The site plan of existing conditions was reviewed and notes were made related to traffic flow, parking lot locations, identification points and public transportation access points. A site visit was conducted, and a thorough photo survey of all existing signage, both exterior and interior was prepared. Locations of exterior signage are located on a key plan and referenced to the photos.

Using these documents and findings, a review of specific signage issues was documented. Signs were grouped into functional categories with areas of concern noted next to applicable photos.

See Appendix for photo documentation of all existing signage types and locations.

Initial Observations

The following is a summary of the initial observations related to the signage:

- There is a mix of signage designs spanning decades, with no consistency.
- Branding / identity on each sign is inconsistent.
- There is no standard font for signage.
- There is no criteria for the use of all caps, or upper and lower case text.
- There is no standard for sign color, arrow design, message alignment or position.
- Sign placement is inconsistent and random. Signs are needed at some key decision points.
- Many signs are run down and /or damaged.
- Many directional signs contain too much text, making legibility difficult.
- Some signs lack sufficient contrast for maximum visibility.

3.36 Photos of Existing Exterior Signage

FIRE AND LIFE SAFETY

Existing Fire Life Safety Analysis

The life safety evaluation of the site included a review of the applicable codes and standards, primary construction types and occupancies, exit discharge locations, paths of travel leading to public ways, and fire department access roads.

The Authority Having Jurisdiction (AHJ) include the Los Angeles County Fire Department (LACFD), the City of Los Angeles Fire Department (LAFD) and the Office of Statewide Health Planning and Development (OSHPD). The LACFD reviews all projects located on site. Group I occupancies are under the jurisdiction of OSHPD. All fire department access roads are under the jurisdiction of the LAFD, since the LAFD responds to all incidents on site.

Since the age of the existing buildings located on site has a wide range, the codes and standards applicable at the time of construction varies for each building. However, all new buildings and renovations, alternations and additions to existing buildings should conform to the applicable provisions of the following:

- California Building and Fire Codes.
- Los Angeles County Building and Fire Codes.
- City of Los Angeles Fire Code.

The primary occupancies on site include Group B, F, I and S. All buildings discharge directly to grade and each building is provided with unobstructed paths of travel leading to the private roads serving the site. Safe dispersal areas are not utilized. Fire apparatus access roads provide the LAFD with access throughout the site. See Appendix for life safety plans depicting the fire apparatus access roads.

Fire apparatus access roads provide the LAFD with access throughout the site. Upon arrival at the site, the LAFD is typically met by the sheriff and escorted to the area of incident on site. The hospital administration conference room (2C159) is used by the LAFD as an emergency command center. However, in the event of a brush fire, the LACFD will be the first responders.

04 STRATEGIC PLANNING AND PROJECTIONS

MARKET SHARE ANALYSIS

OVERVIEW

Various data sources were used to help develop a range of healthcare utiliziation and demographic drivers as the initial step in the planning process for the master plan. Using these data sources and analysis, future projections were established to identify the appropriate number of key spaces needed for the medical center. This analysis allowed the master plan team to estimate future space and area needs by departments and to compare this with available space at the existing facility. The conclusions of this market analysis are used as a guide to delevelop a space program for the various components to the master plan.

The current hospital was originally built in 1987 with a total of 377 acute and specialty care beds. Currently, there are 355 licensed beds that can be activated, and of those, there are 285 beds of all types set-up, available for use, and staffed. Data gathered and analyzed for the existing Hospital services shows:

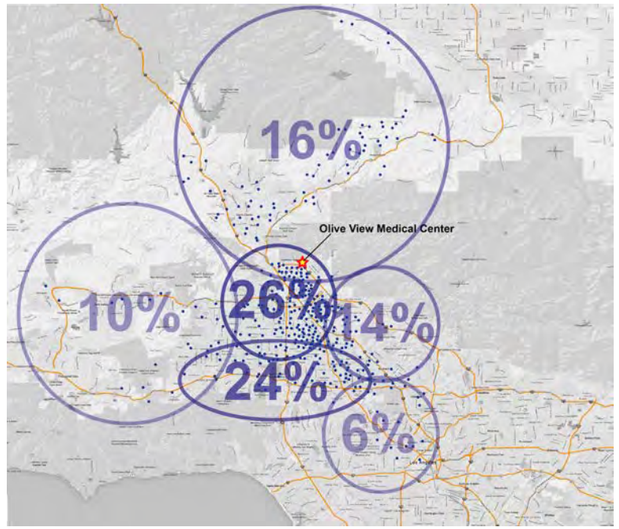
- Staff Medical/Surgical beds and Intensive Care beds capacity are reasonably aligned with the estimated bed need.
- Labor and Delivery births have fell steadily in the past few years.
- The Neonatal Intensive Care Unit (NICU) continues to see a large portion of high-risk births
- The Pediatrics unit has low capacity with typical seasonal variation
- The Acute Psychiatric unit is readily filling to capacity and the ED overflow area is highly utitlized.

Key ancillary services including Emergency, Surgery, and Imaging, as well as other clinical and support functions, all appear to be running at reasonable capacity levels with moderate projected growth. The major focus for growth in the future is expected to be in outpatient and related support services given overall healthcare trends and the full impact of the Affordable Care Act.

A review of patient utilization at other community hospital campuses in the greater San Fernando Valley was conducted. Of all annual patients days generated by these extended/nearby Valley facilities, Olive View serves 9% of the total volume. The greatest overall volumes – in the range of 10% to 14% each – are captured by the larger Glendale Adventist, Providence Holy Cross and Burbank, and Northridge Medical Centers.

Looking specifically at the MediCal and County indigent payer categories, the Olive View-UCLA Medical Center serves the largest percentage (22%) of all such patients for the entire catchment area. For Olive-View-UCLA Medical Center, 83% of its entire patient volume falls into the MediCal and County indigent categories.

Given overall options available for healthcare in the catchment area and Olive View's status as the only county-sponsored hospital option in this large northern Los Angeles County region, it must be assumed that this market share and balance of workload focus will continue. Additional future programs, such as initiatives with UCLA program residents and physicians can bring some variation; however, a primary focus and mission of Olive View is assumed to be the key regional provider for low income and indigent patients.



4.01 Map of Los Angeles showing Patient Origin by Percentage in the Catchment Area

TRENDS AND FORECASTS

California state, local LA County and communities, and recent academic study data has been reviewed and analyzed to provide the master plan team with population trends in the County of Los Angeles. The data shows a marked departure in recent years from the historical growth pattern of the last sixty years displayed in the San Fernando Valley and beyond. Population growth has slowed overall, and this very minor growth is expected to continue in the areas served by the medical center.

Still, the most significant factor driving the overall bed need projection is the change in the population count and age mix. Total population for the areas served by Olive View is projected to increase 10.44% overall by 2035. Most notably, the age group over 64 years will increase by 128%. As a result, Olive View would see an increase in patient days of 10.4% by 2035 and an added increase of 6.8% due to the aging population. Other trends in patient care and the shift to outpatient care is expected to moderate these increases in patient volume. The Staff Medical/Surgical beds show a decrease in admissions and patient days. This is in alignment with trends in general acute care over the past five years and is expected to continue at a steady but slow rate as managed care grows, re-admissions reduce, and the shift to outpatient care increases. Intensive Care has increased significantly for the over 64 year patient population. Finally the drop in birth rates seen at Olive View over the past five years appears to be leveling off and very slow increases can be expected.

These trends yield a projection for 2035 of 193 ADC (Average Daily Census) and 251 total beds needed when utilization rates are applied.

PLANNING STRATEGIES

OVERVIEW

The scope of this master plan is to create a path for the campus development on the site with the year 2035 as its planning horizon. There are, however, a great number of variables that affect the site and all of the activities that may play out over the long term, much beyond the year 2035. One of the cornerstones of a master plan is to set the stage, so that decisions made in the short term do not interfere with the potential long term development of the site. In order to address the primary charges of the master plan, namely the Outpatient and Inpatient services, this study widened the perspective to address the components surrounding these functions. Using a flexible response will allow the medical center campus to adapt to changes over time, as circumstances require.

With regard to medical center development, the planning team undertook two primary activities.

The first was a careful evaluation of the site and buildings currently employed by the medical center. Each building and department was evaluated with regard to its physical condition and how well it served current operational and functional requirements of the particular service using a given space or building. The planning team worked closely with the consultant team to establish a thorough understanding of the physical condition of each building with a focus on determining not only how well the building served current needs, but how much longer could the building be used for such functions. This information is a critical component in understanding the levels of renovation likely required, the construction costs incurred, and levels of disruption caused to building occupants to keep the building operational. Evaluations included area and physical interior conditions, mechanical and electrical systems, structure, site utilizes, central plant, and civil engineering.

The second activity was an evaluation of the programmatic needs for each department or service. The planning team evaluated current department capacity and space, benchmarking against accepted standards to determine current deficiencies. Once the workload projections were completed, future capacity and space needs were developed and used as the basis for planning.

The programing and planning teams met frequently with medical center leadership and department leadership to better understand current issues and future needs. Additional planning meetings were held with members of the County of Los Angeles and UCLA to gain a further understanding of other campus occupants and how their likely future needs could be enhanced with an integrated planning response. Key meetings included the Chief Medical Officer of the LA County Department of Health Services (DHS), the Vice chancellor for UCLA Health Sciences and Dean of the David Geffen School of Medicine at UCLA, the Director of Community Health & Integrated Programs, and the Director of Housing for Health LAC DHS. The projected space needs for these other site occupants are used as placeholders for planning purposes. These projections will need to be verified when the projected buildings become more likely to occur. The master plan will then need to be updated with the new information.

In early conversations with medical center leadership and Department of Health Services, several priorities we clearly stated:

- Provide for a new Ambulatory Care Center in the near term.
- Provide options that include continued reuse of the existing hospital building.

IMPLEMENTATION

To address the points identified by DHS and Olive View leadership, the team has suggested a total of four planning options. All of these options began with the new Ambulatory Care Center as the first step, coupled with a replacement Central Utility Plant (CUP). Of the four, three options respond to the priority of continued reuse of the existing hospital. Each of these renovation options require progressively more complete and extensive levels of remodel, including replacement of the building mechanical and electrical systems, and upgrades to bring the building in compliance with current codes and community standards of care. Although described as renovation options, each option suggests the eventual hospital replacement at some point in the future. The master plan goal is to reserve an area of the campus to accommodate a future hospital replacement.

Because of concerns about years of disruption to hospital operations to accommodate the projected remodels, the team developed a fourth option of hospital replacement. The new Hospital will be located within the center of the campus to provide necessary connections to other building programs on the campus including the New Ambulatory Care Center. The master plan team does not make any recommendations with regard to the future of the existing Hospital when it is replaced by the new hospital. The building could either be repurposed with building upgrades and remodels or demolished, creating an area for future medical center development.

The campus master plan identifies alternate locations for the Administrative Building, the Central Utility Plant, and the Materials Management Building. This is in response to the issue of timing. If the decision is to continue reuse of the existing hospital for an extended period of time, it will be necessary to provide a replacement CUP to support the existing hospital and the new Ambulatory Care Center. Eventually, when the hospital is replaced, a second new CUP will be built closer to the new hospital. The Materials Management Building is a regional asset providing service to both the hospital and regional DHS clinics. The building should be located to create logical relationships with both the existing hospital and future new replacement hospital.

PLANNING STRATEGIES

INPATIENT SERVICES

In order to provide a roadmap of options for the existing building to meet the deadline to comply with seismic safety regulations mandated by OSHPD, there is a considerable amount of area in need of upgrades.

There are several options to meet the compliance deadline which depend on the decisions reached by the County of Los Angeles administration, in combination with the stakeholders in the project, and on the level of development and long term investment in the facility. The three renovation options are:

1. Minimal Renovation
2. Partial Renovation
3. Complete Renovation

The first step of the master plan in all of these options is to decant and consolidate outpatient services into a single, robust, Outpatient Services Center, complete with outpatient surgery, imaging and diagnostic and treatment areas. The preference of the OVMC Hospital is to have a possibility for direct connection between the inpatient and outpatient services buildings.

The decanted areas in the existing hospital building are essential to enable renovation work. All the options will involve disruption to existing hospital functions which should be considered in terms of several factors including phased displacement, noise/vibration concerns, infection control and construction waste management, disruption to patient and staff flow, life safety, replacing mechanical and electrical systems, and code compliance.

The County may also choose to invest in a new long term facility, in which case the functions and elements of the hospital would be relocated into a new building. For the purpose of this master plan, this option is called:

4. Replacement Hospital

1 MINIMAL RENOVATION

- Only renovate areas in need of seismic compliance upgrades
- Maintains existing semi-private / private bed accommodations

2 PARTIAL RENOVATION

- Identify specific areas to renovate in addition to those in need of seismic compliance upgrades
- Prioritize areas found to be operationally constrained or space challenged
- Reuse available space with limited disruption as much as operationally feasible
- Potential use of “empty chair”

3 COMPLETE RENOVATION

- Renovate entire existing hospital building to house inpatient services
- Take advantage of areas made available after moving outpatient services to a separate building
- Provide a higher standard of care (e.g. all private patient rooms) with robust building systems
- Invest capital into extending useful life of existing building

4 REPLACEMENT

- Build a complete replacement to house the Inpatient services in a single phase
- Create an opportunity to integrate Inpatient and Outpatient services
- Minimize operational costs and downtime
- Improve operational performance
- State of the art facility to provide care to the community

4.02 Planning Options for Inpatient Services

Option 1 - Minimum Renovation

The scope of the 'Minimal Renovation' option is defined by the amount of renovation work needed to meet the requirements to upgrade the existing hospital building to comply with seismic safety regulations as mandated by the Office of Statewide Health Planning and Development (OSHPD). The areas that are relocated into the Ambulatory Care Center can be used as future program area depending on the needs of the facility.

All existing patient bed units, including semi-private rooms, remain unchanged. The majority of the renovation consists of upgrades to the MEP systems, for which a considerable amount of the work will be performed inside the ceiling plenums and/or utility rooms and chases. A considerable amount of disruption to the existing hospital functions is expected.

These upgrades have to be completed before January 1, 2030. If the hospital is upgraded to comply with these renovations by the deadline, there are currently no additional requirements beyond that point. Project duration is expected to be the shortest among the proposed planning options, but it should be noted that the duration could vary greatly depending on the existing conditions.

Option 2 - Partial Renovation

'Partial Renovation' includes the renovation described for 'Minimal Renovation' in addition to specific areas found to be operationally constrained or space challenged. Some of these spaces include Surgery and Perioperative, Intensive Care Units, Radiology and Inpatient Pharmacy, and the Inpatient Mental Health nursing unit.

These areas will be upgraded, either in place, or by using the space that is available from decanting outpatient services into a new building. In order to control costs, the renovations of these spaces should be kept to as minimal as technically feasible. Similar to the 'Minimal Renovation' option, most existing semi-private inpatient beds remain in their current configuration.

The limits of this renovation option are variable and depend on such things as the availability of funds, the timing of disruption, and the priorities established by the County of Los Angeles and the medical center. Construction and disruption times vary greatly depending on the extent of renovation.

These upgrades have to be completed before January 1, 2030. If the hospital is upgraded to this renovation by the deadline, there are currently no additional requirements beyond that point. In contrast to the 'Minimum Renovation' option, this renovation option gives the hospital more leverage to meet patient volume demand over a longer timeframe, and also improves customer/staff satisfaction.

Depending on the extent of renovation work and upgrades, the hospital may not need further renovation for a longer time span. However, maintenance work will be an ongoing challenge especially for mechanical and electrical sytems. Project duration is expected to be longer than the 'Minimal Renovation' option. Therefore, if chosen, the renovation should start earlier.

Option 3 - Completion Renovation

Unlike the previous two options, the 'Complete Renovation' option consists of renovating the entire building, with a focus on functional upgrades. The upgraded facility will be able to effectively house and operate the inpatient services program until the planning horizon for this master plan of 2035.

The OSHPD compliance deadline for the projects still remains January 1, 2030. Project duration is expected to be longer than the previous two options, and therefore construction would have to start the earliest. The finished facility will provide a higher standard of care (e.g. all private patient rooms), and provide robust building systems to complement current medical practice standards.

Considerable improvements are possible in addition to all private patient rooms and updated Diagnostic and Treatment areas. Some of these areas include all nursing units, consolidated and updated imaging, and rightsized support and administrative services.

Similar to both previous options, the renovation of the building is expected to be completed in phases, starting with the areas vacated after the outpatient services move to a new dedicated building.

Construction and disruption times, however, will vary greatly depending on the construction phasing, the extent of scope available to each phase, and the functional support available. Areas impacted by renovation will require temporary facilities, or departmental shuttering, which may considerably affect schedule.

Option 4 - Replacem

Each of the renovation options represent a consideration investment in an aging facility, which will eventually need to be replaced. The master plan team studied the very long term development of the site, beyond the 2035 planning horizon. In order to provide a master plan which maintains the best use of the land and long term interests of the campus, the master plan includes the 'Replacement Hospital' as the fourth option.

The triggers to implement a new facility vary depending on the approach. For example, after doing 'Minimal Renovation,' the hospital will be limited to cope with the patient volume demand. Further renovation will be required in the short term, so a new replacement building may be more economically feasible. Looking at the 'Complete Renovation' option, the life of the facility will be extend by several decades. After this, however, the building would be nearing the end of its useful life, and renovation will be no longer be possible. It is also possible that the available time is too short to complete a renovation in time to meet the OSHPD deadlines, in which case a replacement building would provide a shorter construction schedule with the longest lasting investment.

The replacement building provides the Hospital the most flexibility in terms of construction, layout, operations, and schedule. It creates a new platform on which to improve operational performance, minimize operational costs and downtime, and integrate all inpatient services in a state of the art facility to provide care to the community, built in a single phase. Construction is unencumbered, and disruption times are limited to the relocation of services to the new building.

05 OPTIONS EVALUATION

OPTIONS EVALUATION

All of the options were evaluated and reviewed with the Client and Consultant Team to understand the benefits and disadvantages of each. A matrix was produced for evaluating each option for the factors most critical to meeting the goals and objectives of the master plan.

The following parameters were considered:

- Improves land use flexibility
- Sustainability
- Enhanced circulation and wayfinding
- Accommodates phased development
- Optimizes future inpatient zone
- Proximity to other program components
- Optimizes key program adjacencies
- Engages with community
- Provides opportunities for development partnerships
- Maximizes greenspace
- Supports development partnerships with UCLA
- Minimizes travel distance to parking

In addition to the evaluation based on performance criteria, the entire Consultant Team provided feedback and comments for each of the four concepts. The concepts were reviewed for traffic and wayfinding, utility routing, demolition and retention of existing buidlings and infrastructure, stormwater management, parking demand and projections, site lighting, structural design, grading, logistics and material management, and cost impacts.

Understanding the strengths and weaknesses of each option provided for the Team the selection of the preferred option.

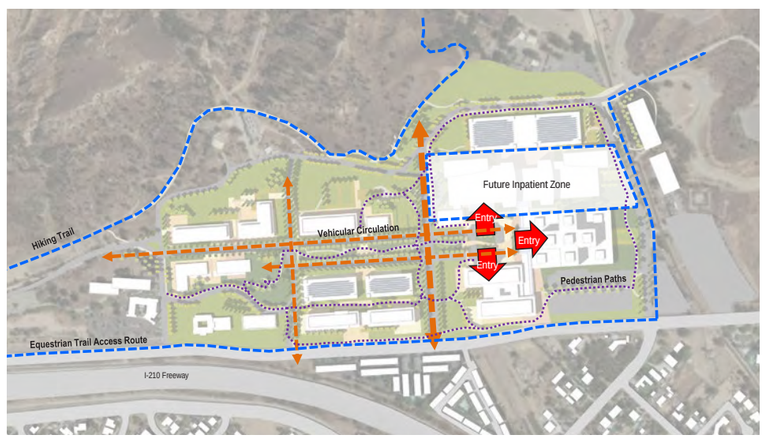
SITE PLANNING OPTIONS

BOULEVARD

Serving as the central organizing element, the Boulevard unites the campus as a whole providing a clear organizational strategy. The Boulevard concept focuses development of the medical center around the existing Hospital Tower providing a direct link between the existing and future services. All of the building uses are located around this central spine with similar building functions being further defined within zones or blocks. At each zone, there is a dedicated entry plaza for patients and visitors to be directed to their destination. The main street includes a winding path where visitors and staff can walk through the various gardens and open spaces. Because the placement of buildings creates a more urbanized environment, there is an opportunity to use the land to the west and east of the campus for other development uses.

5.01 Boulevard - Site Plan

5.02 Boulevard - Buildings and Open Space Diagram



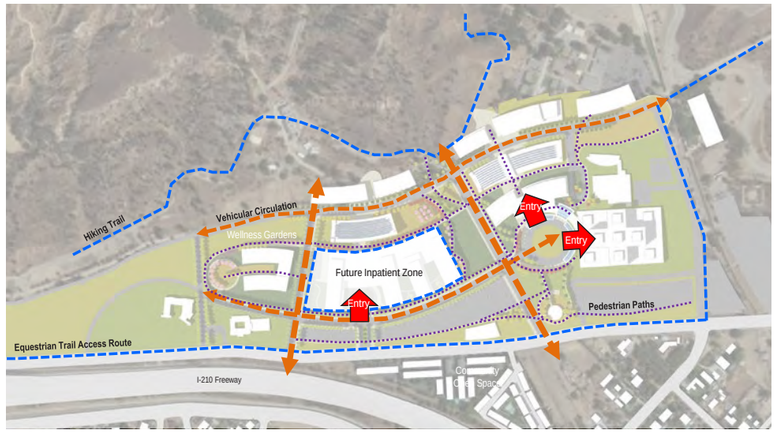
5.03 Boulevard - Circulation Diagram

NATURE'S EDGE

Nature's Edge uses the natural terrain and landscape to dictate the placement of buildings and provide opportunities for open space. A green belt is introduced along the front edge of the site where community and retail functions can be located. By introducing this green edge with opportunities for community-oriented development, Nature's Edge re-establishes the link to the site's natural enviornment as well as fosters a better relationship with the community. The layout of Nature's Edge is much less concentrated as compared to the Boulevard concept. The Future Hospital is located across the Edison Easement. The new Ambulatory Care Center is located adjacent to the existing Hospital and also provides a close connection to the Replacement Hospital.

5.04 Nature's Edge - Site Plan

5.05 Nature's Edge - Buildings and Open Space Diagram



5.06 Nature's Edge - Circulation Diagram

5.07 Compact - Site Plan

5.08 Compact - Buildings and Open Space Diagram

5.09 Compact - Circulation Diagram

COMPACT

The Compact concept is the most dense and urban approach. Both the outpatient and inpatient services are focused around the existing Hospital Tower. Because this concept is very dense, there is an opportunity to use the remaining land for other development opportunities. By concentrating the buildings in close proximity to one another, the height of the building becomes an issue creating tall structures in an otherwise suburban context.

TERRACE

Similar to Nature's Edge, the Terrace concept utilizes the natural slope of the site to create a playful arrangement of landscape areas.

The landscape becomes one with the building, blurring the distinction between the ground plane and the building base. The new Ambulatory Care Center is placed directly in front of the west facade of the existing Hospital to give it prominence as well as provide a new front door and entry point for the campus.

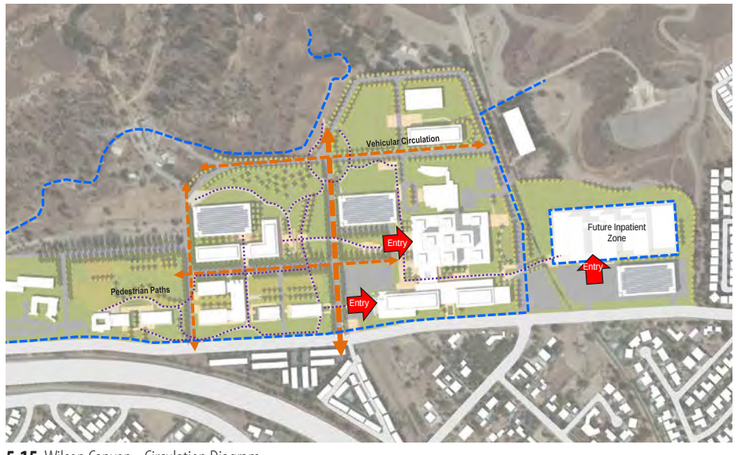
5.10 Terrace - Site Plan

5.11 Terrace - Buildings and Open Space Diagram

5.12 Terrace - Circulation Diagram

5.13 Wilson Canyon - Site Plan

5.14 Wilson Canyon - Buildings and Open Space Diagram



5.15 Wilson Canyon - Circulation Diagram

WILSON CANYON

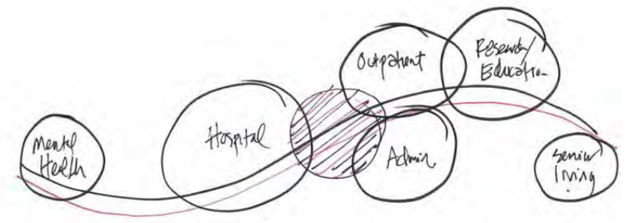
The Wilson Canyon scheme locates the Future Hospital Zone to the east of the existing facility. The advantage to this scheme is that the future hospital zone is located outside of the Alquist-Priolo earthquake fault zones. The Ambulatory Care Center is located along Olive View Drive and directly connected to the existing Hospital. The other campus uses such as UCLA Medical Office Buildings, Mental Health, and Long Term Care are located to the west end of the campus.

06 CAMPUS MASTER PLAN

PREFERRED MASTER PLAN CONCEPT

NATURE'S EDGE

Nature's Edge is about reclaiming nature and reviving the spirit of Olive View -UCLA Medical Center from when it was first developed in the 1920s. With the backdrop of the San Gabriel Mountains to the north, the natural topography of the site is used to help elicit a site response that creates a strong connection between each of the different program components as well as re-establishing the connection to nature. Different gardens can be discovered along the various walking paths and linkages are provided throughout the campus to help one rediscover this connection. Each garden celebrates a different type of native landscape found in California from woodlands to grasslands and wildflowers.



6.01 Nature's Edge Concept Diagram

6.02 Examples of green spaces, connection between indoors and outdoors, informal gathering spaces, community activities and engagement

(Original) SmithGroup JJR, 2015, (Updated) Perkins Eastman 2019

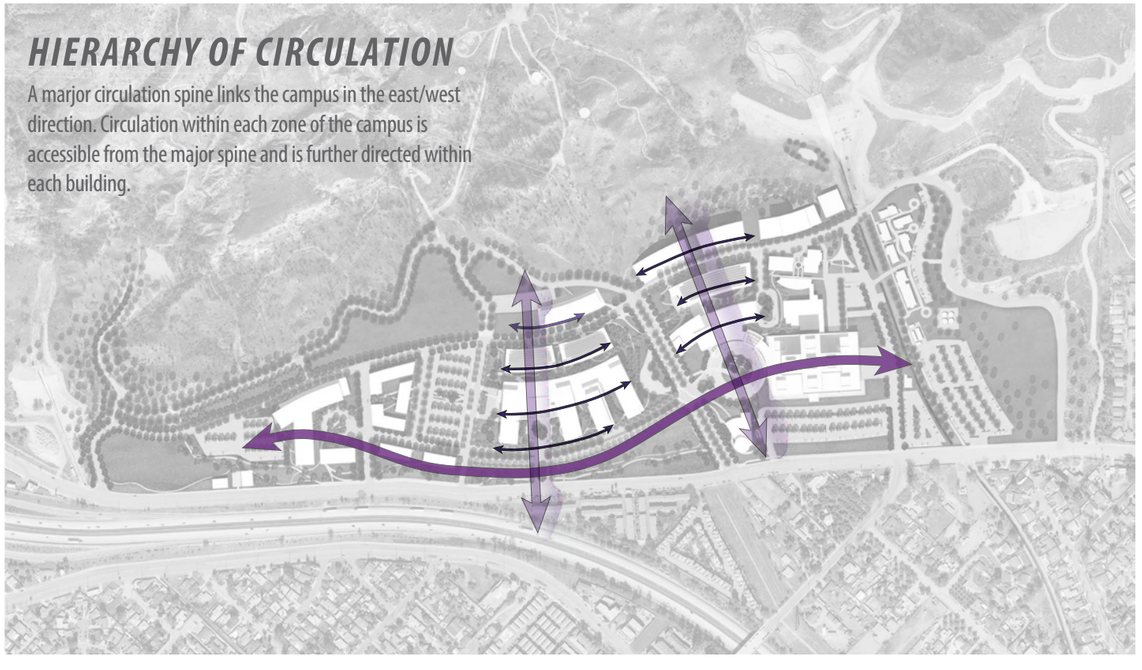
6.03 New Ambulatory Care Center and Existing Hospital Drop-off

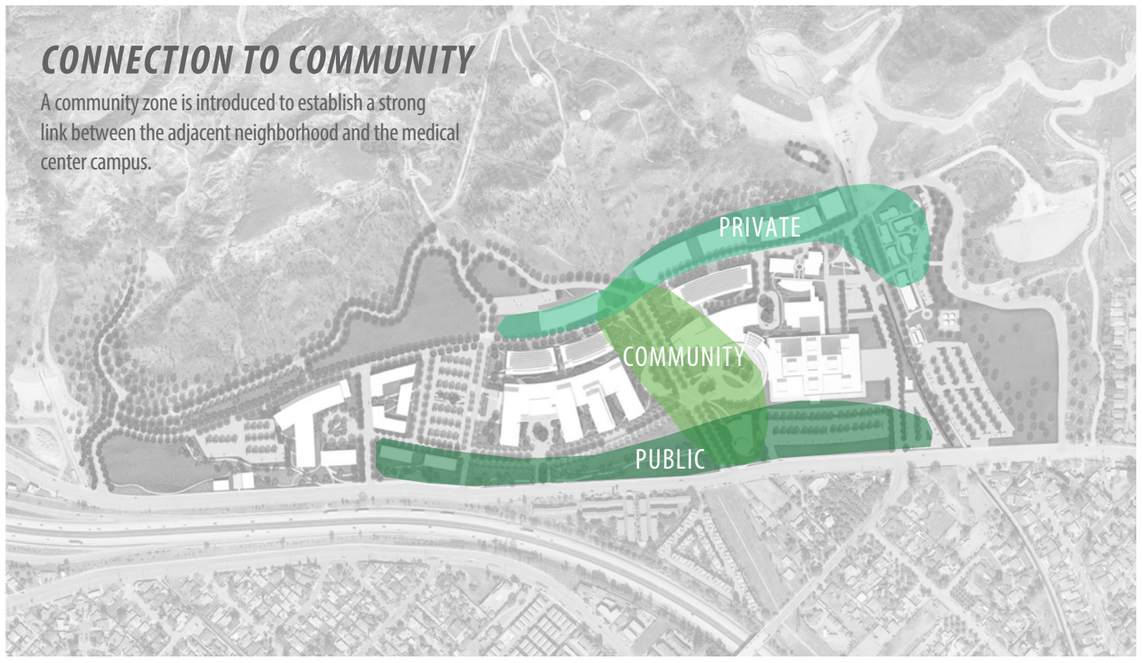
6.04 Future Hospital Entry Plaza and Drop-off

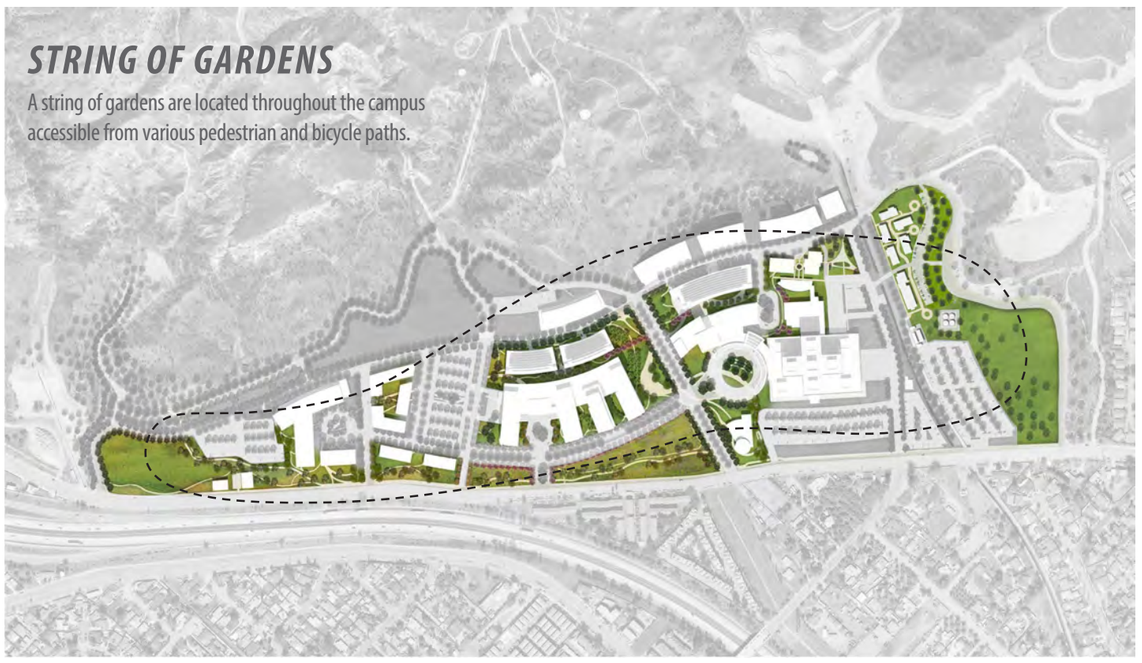
6.05 New Ambulatory Care Center Entry Plaza

6.06 UCLA Research and Education Building

DESIGN PRINCIPLES







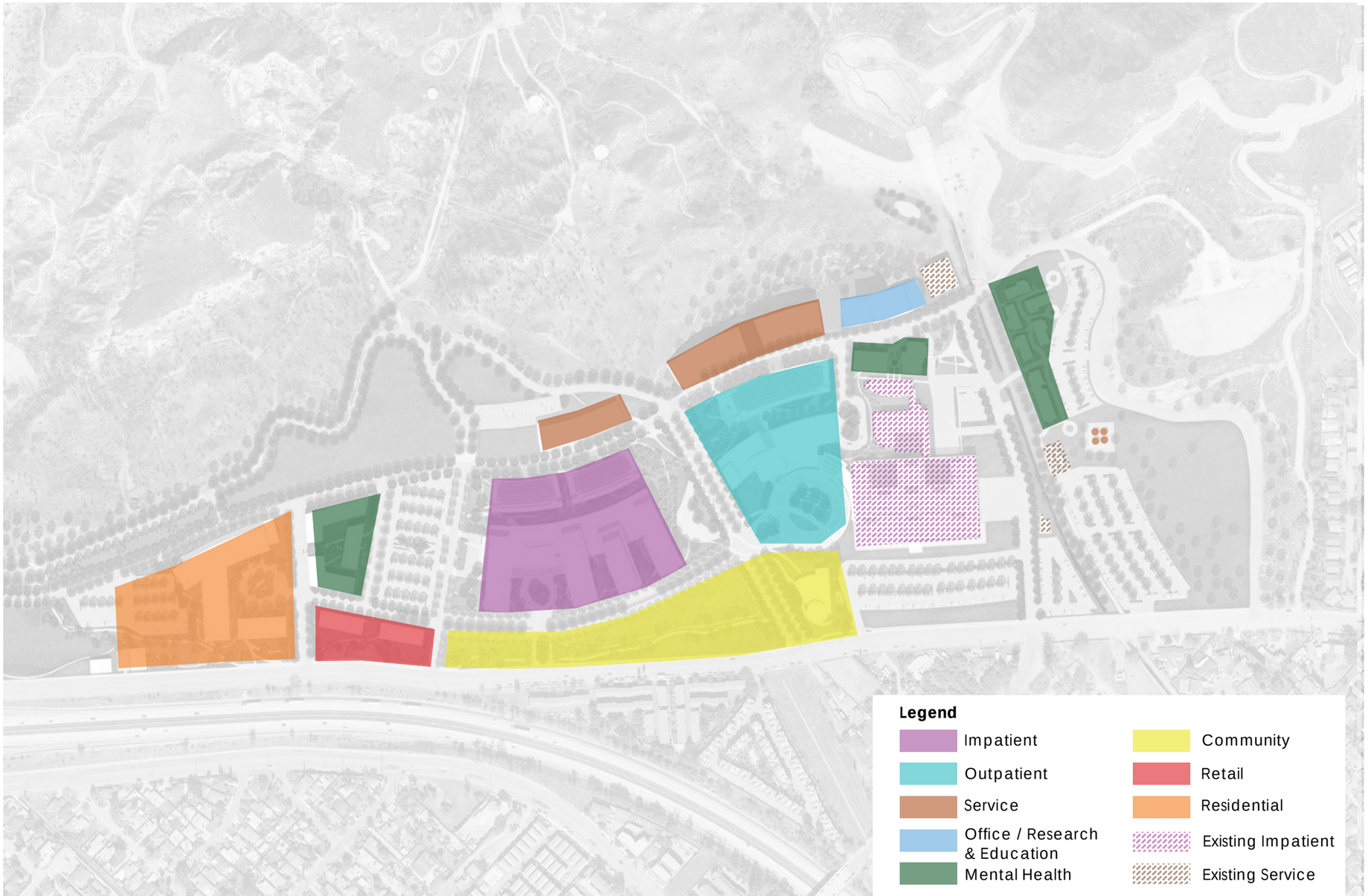
6.07 Design Principles Diagrams

(Original) SmithGroup JJR, 2015, (Updated) Perkins Eastman 2019

SMITHGROUP JJR

CAMPUS ZONING

The center of the site is reserved for the Olive View Medical Center services as this is the major component to the master plan. In this zone, the inpatient, outpatient, and UCLA uses are placed. The east end of the medical center zone is reserved for the future Inpatient Hospital and associated service buildings. Outside of this zone, the various other uses are located including administration services and campus support. At the east end of the campus, the Mental Health and Assisted Living uses are located. The front of the campus along Olive View Drive is intended for community and retail uses to help link the campus to the surrounding neighborhood.



6.08 Campus Zoning Diagram

(Original) SmithGroup JJR, 2015, (Updated) Perkins Eastman 2019

BUILDING USE AND PROGRAM SUMMARY

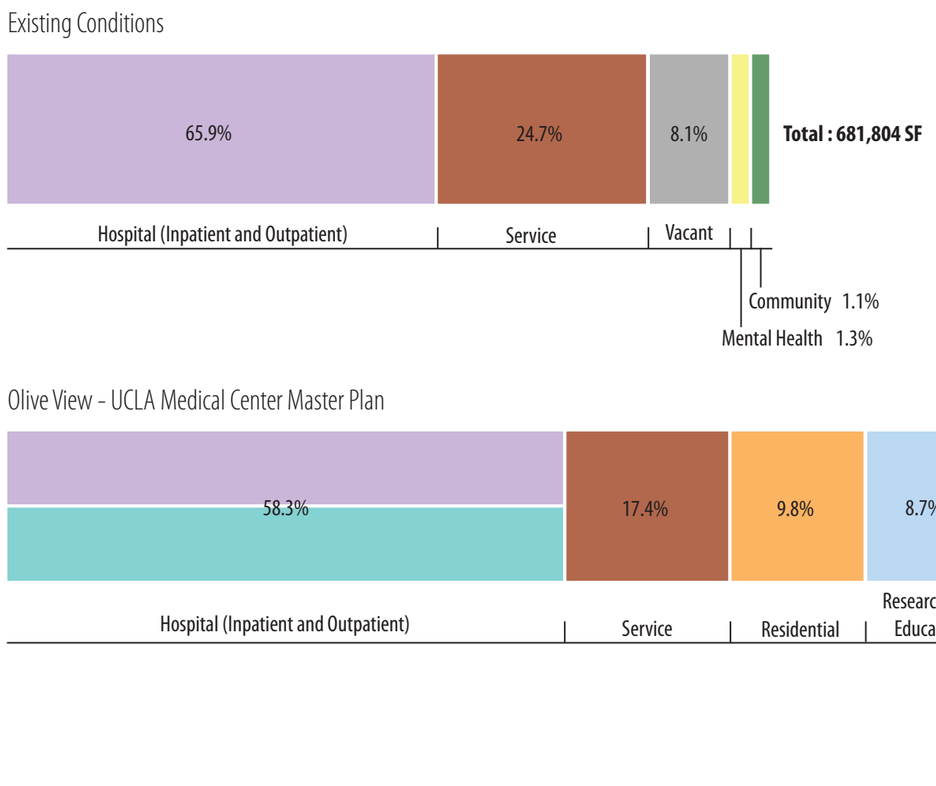
SITE PROGRAM SUMMARY

CRITERIA	EXISTING CONDITIONS	MASTER PLAN	
Site Area	230 Acres		
Site Area (Buildable) in Acres	5,603,700 SF 130 Acres		
Building Area	**804,200 SF**	1,382,000 SF	
Floor Area Ratio (FAR)	0.144	0.247	
Maximum Building Height/Number of Stories	100 FT/6 Stories	100 FT/6 Stories	
Parking			
Stalls in surface parking	2,672 *Count	1,200	
Stalls in structure	0	2,000	
BUILDING PROGRAM	**EXISTING CONDITIONS**	**MASTER PLAN**	
Hospital	530,000 SF	530,000 SF	***
Ambulatory Care Center		276,000 SF	
UCLA MOB		120,000 SF	
Community	9,300 SF	20,000 SF	
Administration	99,400 SF	96,000 SF	
Retail		40,000 SF	
Mental Health	11,000 SF	20,000 SF	**
Long Term Care Residential		135,000 SF	
Support Services Buildings	35,200 SF	68,000 SF	
Central Utility Plant / Facilities / Shops	64,700 SF	77,000 SF	
Vacant	65,600 SF		
SUBTOTAL	**804,200 SF**	**1,382,000 SF**	

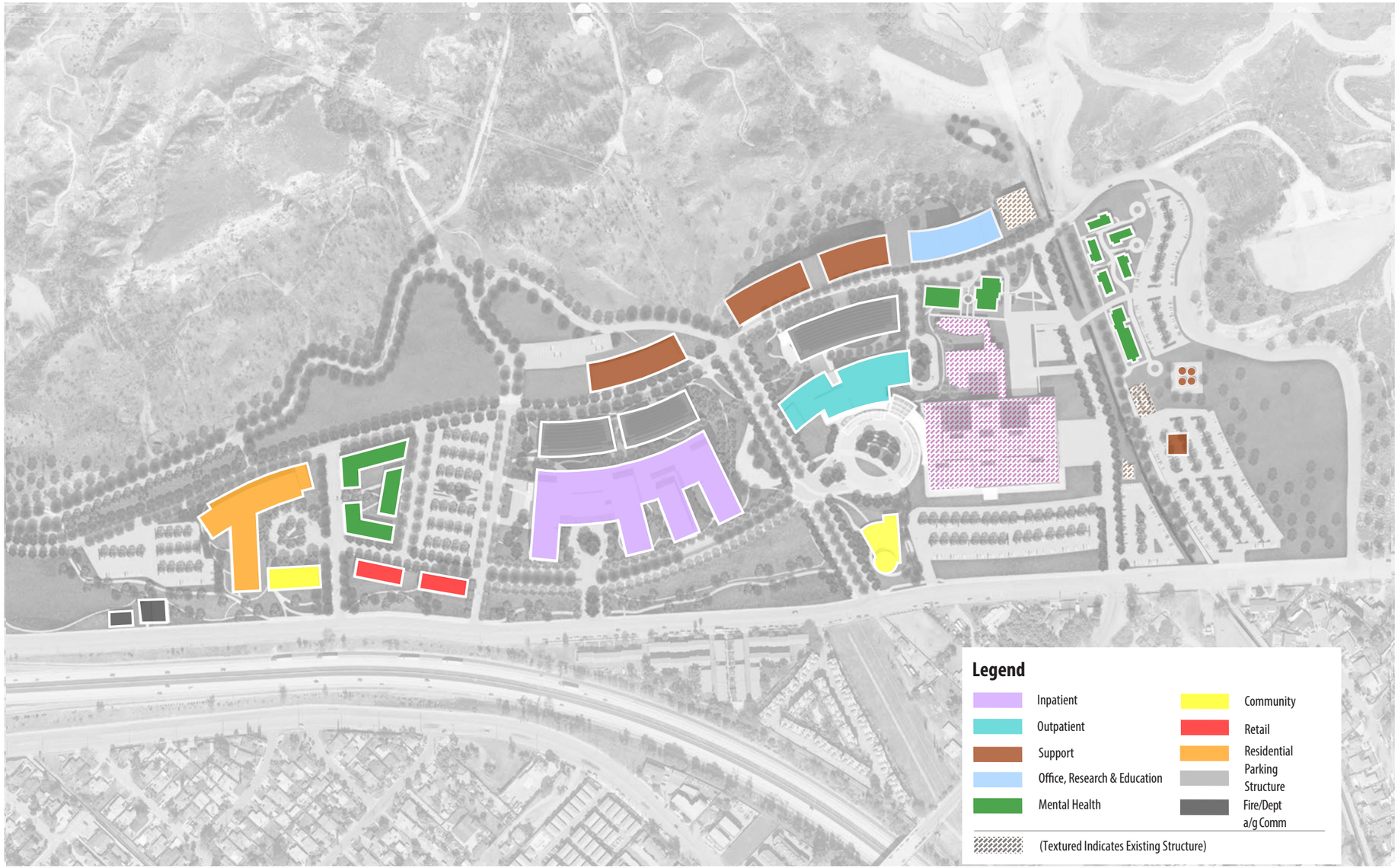
Notes: ** Current demand: 2,251*
*** Anywhere from 15,000 to 40,000 SF*
**** This area is for total renovation. If the building is replaced, the area should be closer to 600,000 SF.*

6.09 Site Program Summary

BUILDING USE



6.10 Building Use Chart



6.11 Building Use Diagram

(Original) SmithGroup JJR, 2015, (Updated) Perkins Eastman 2019

BUILDING USE

The building use plan shows a more detailed arrangement of the different uses on the campus as they correspond to each of the buildings. Immediately adjacent to the existing Hospital, the Ambulatory Care Center will house clinics as well as diagnostics and treatment services. Once the need arises for a new Inpatient Hospital, the zone directly east of the Ambulatory Care Center can be used for this new facility. The Mental Health and Long Term Care / Recuperative Care building are located at the east end of the campus. A Community Center is located immediately in front of the main entry from Olive View Drive.

SITE CIRCULATION

VEHICULAR CIRCULATION

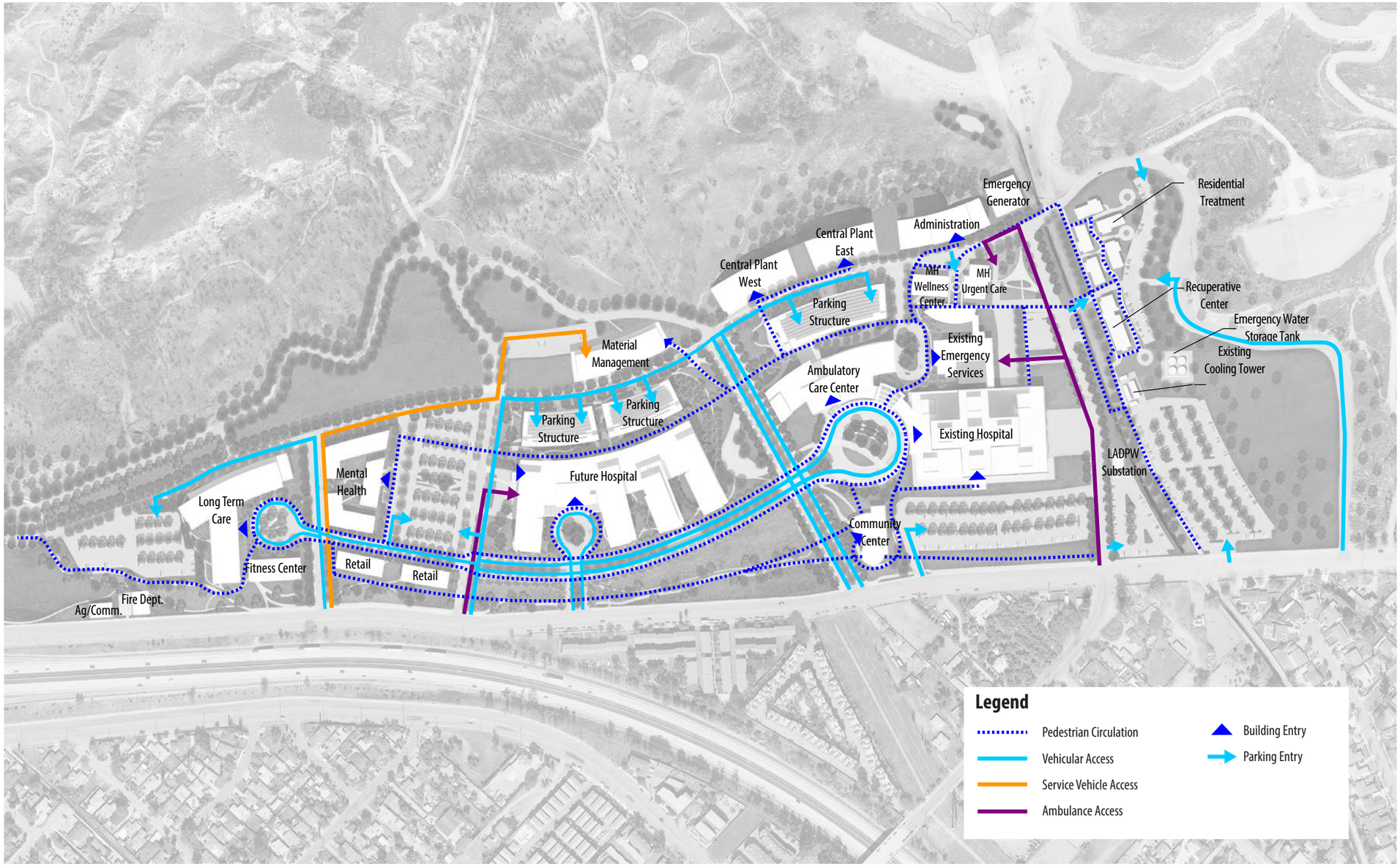
Because the medical center is only accessible from Olive View Drive to the south, it is important for the master plan to provide a clear system of roadways for each of the different users of the campus. Intermingling of different users is expected, but the goal is to provide clear and direct entries to points of destination.

Each zone of the campus has a dedicated entry point from Olive View Drive which will be supplemented by directional signage and landmarks. In addition, drop-off areas are located at each of the major buildings on the campus with the intent of being immediately visible upon entering the campus. Parking structures and surface lots are placed at various locations adjacent to the buildings.

Access for service vehicles is dedicated to minimize traffic for visitors and patients. Similarly, emergency vehicles are provided a direct route to the emergency department.

PEDESTRIAN CIRCULATION

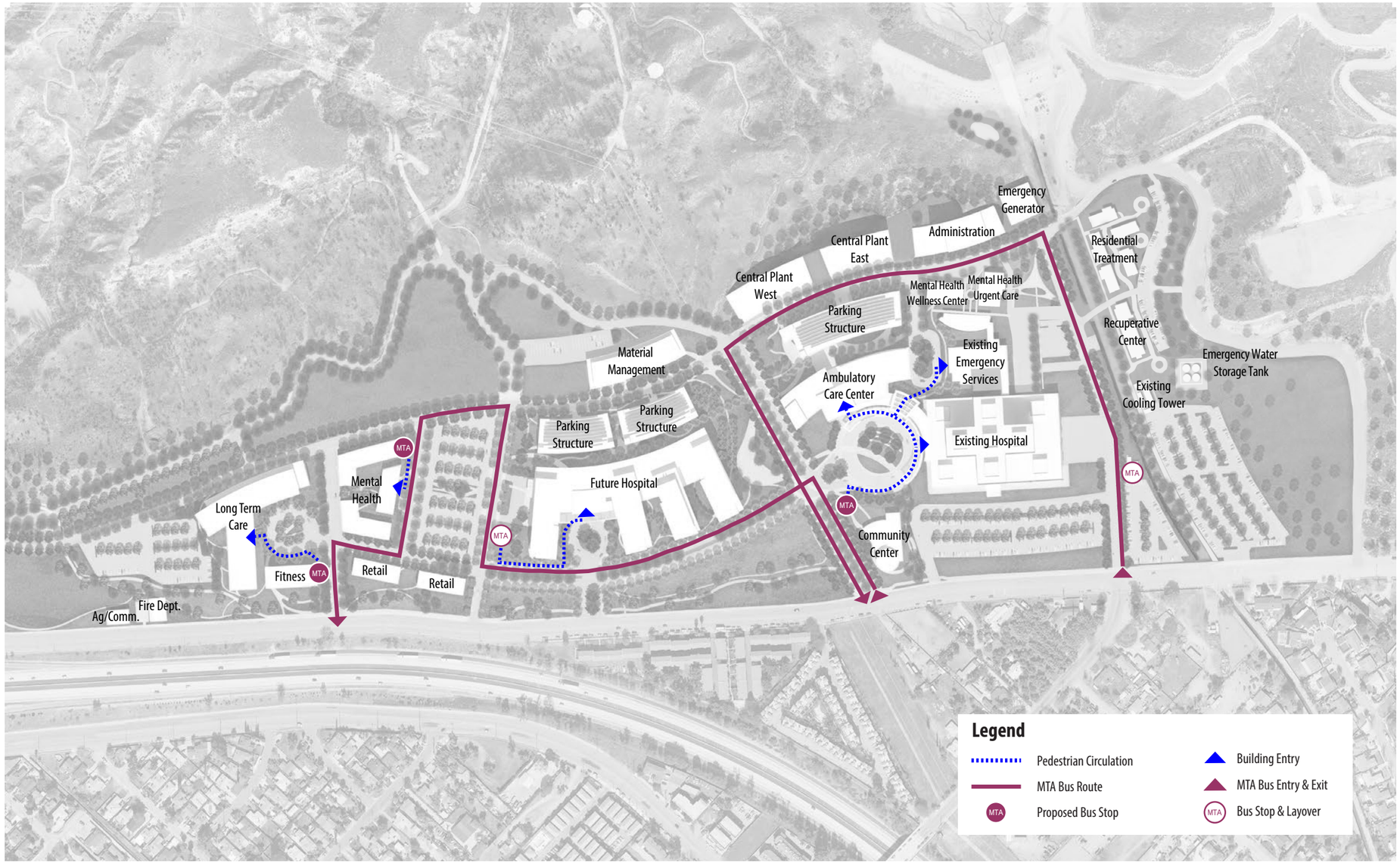
There are various walking, biking, and equestrian paths that are introduced into the new master plan to make the campus more inviting to the various users of the campus and members of the community. These paths provide access to the different building uses on the campus as well as connections to the various gardens and open spaces. In addition to providing a better experience for the users, the campus circulation also minimizes travel distances between buildings and to parking.



6.12 Site Circulation Diagram

(Original) SmithGroup JJR, 2015, (Updated) Perkins Eastman 2019

PUBLIC TRANSIT



6.13 Public Transit Diagram

(Original) SmithGroup JJR, 2015, (Updated) Perkins Eastman 2019

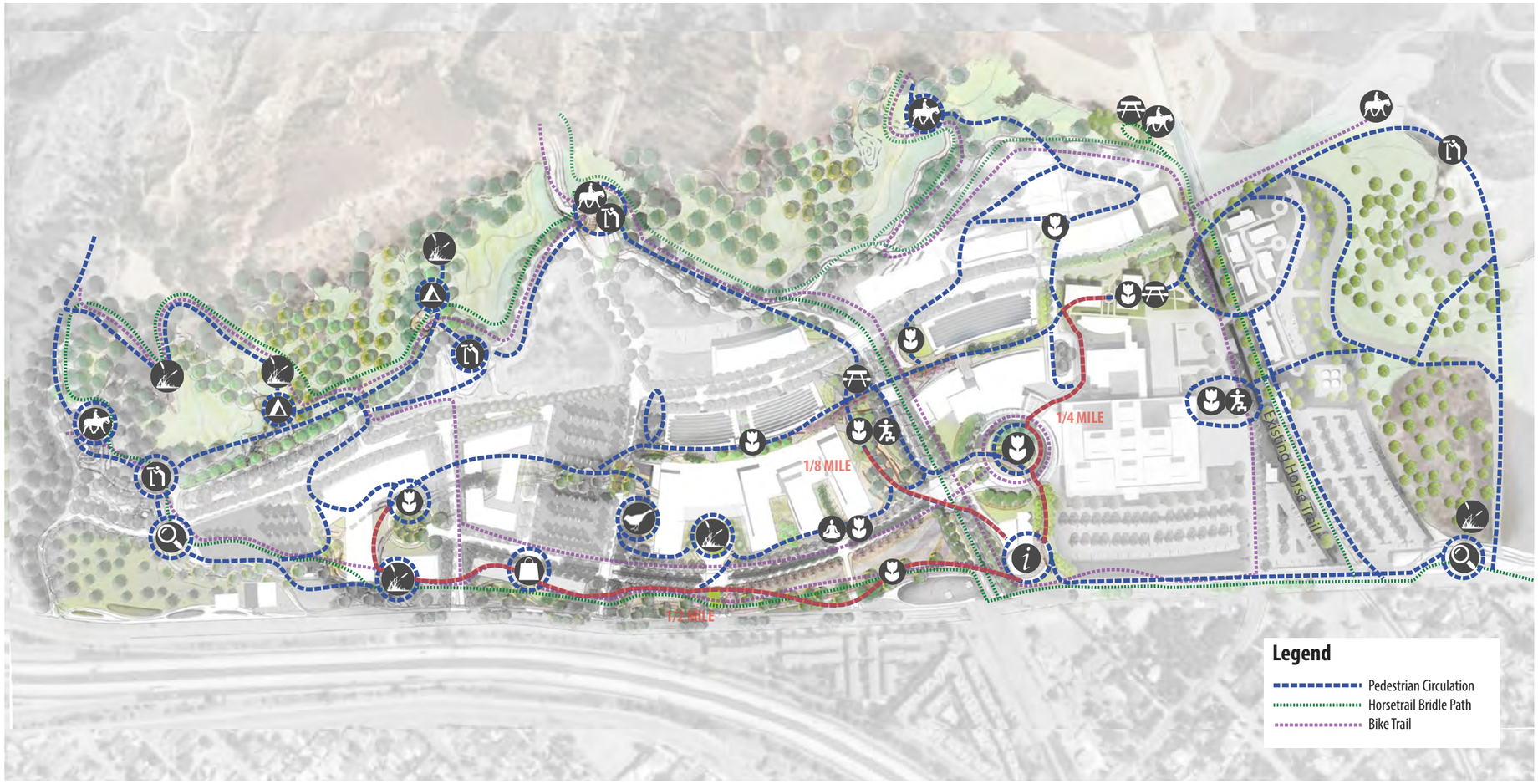
WELLNESS TRAILS

Olive View visitors and members of the adjacent community are connected to open space, both existing and new, through a woven system of bike, equestrian, and pedestrian trails.

The extensive Wellness Trails promote activity and bring the user closer to nature, while providing transitions between vehicular traffic and hospital facilities, making it safe and convenient to move throughout the campus.

Access to existing trails in the mountains and canyons that encompass the north side of the site is increased, by drawing these trails down into the campus, extending the experience for bikers, pedestrians and the prevalent equestrian community.

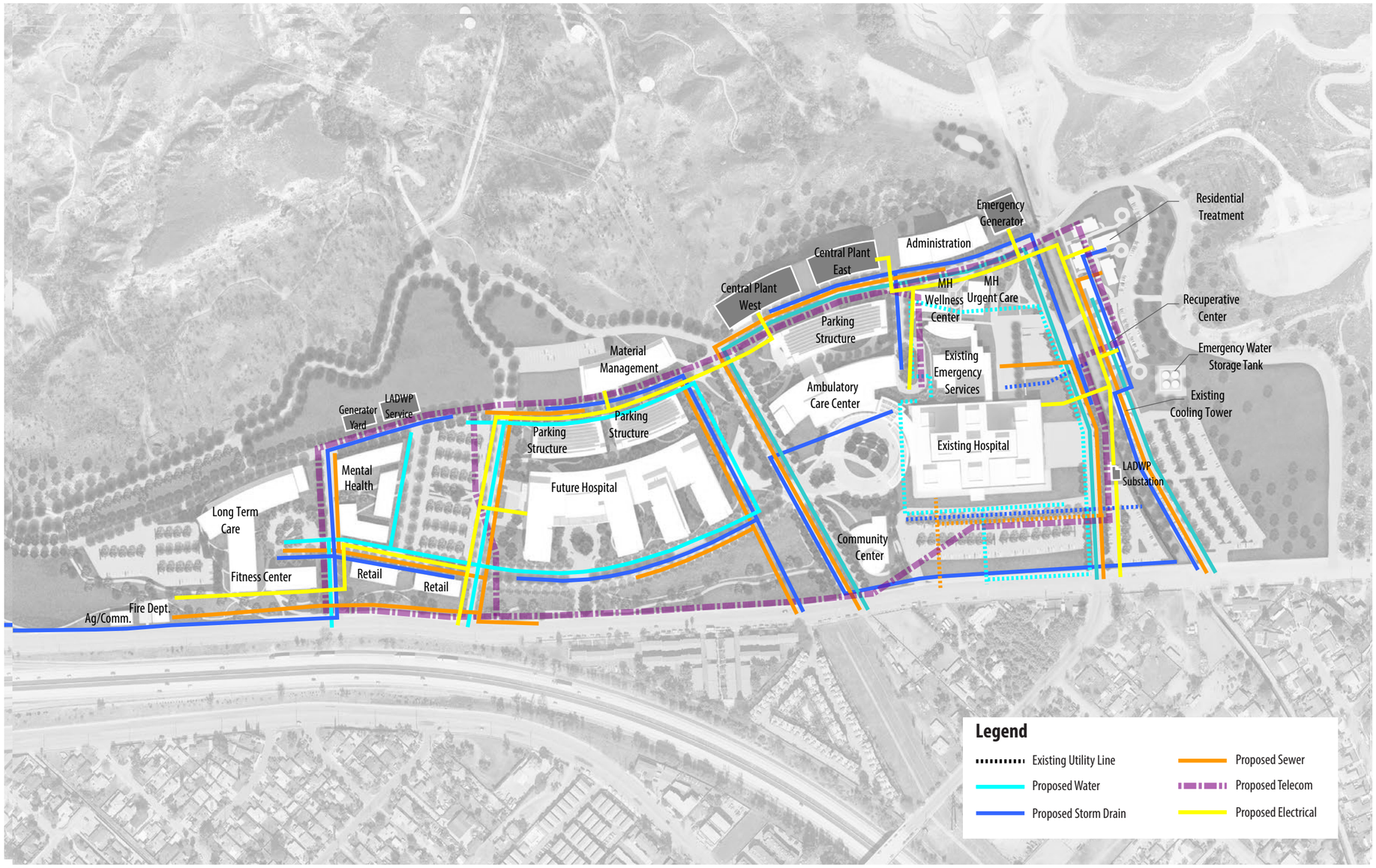
Throughout the campus, the Wellness Trails serve as the link between buildings, the community, and the string of gardens that make Olive View a place that heals both people and the natural land.



6.14 Wellness Trails Diagram

(Original) SmithGroup JJR, 2015, (Updated) Perkins Eastman 2019

UTILITY INFRASTRUCTURE



6.15 Site Utility Infrastructure Diagram

(Original) SmithGroup JJR, 2015, (Updated) Perkins Eastman 2019

PARKING

There are various parking structures and surface lots provided in the master plan to serve the various users on the campus. The majority of patient and visitor parking is provided in the parking structures which are located immediately adjacent to the buildings they serve for ease and proximity of access. These parking structures are supplemented by surface lots. In addition, drop-offs are provided at each of the major building entries to help reduce walking distances.

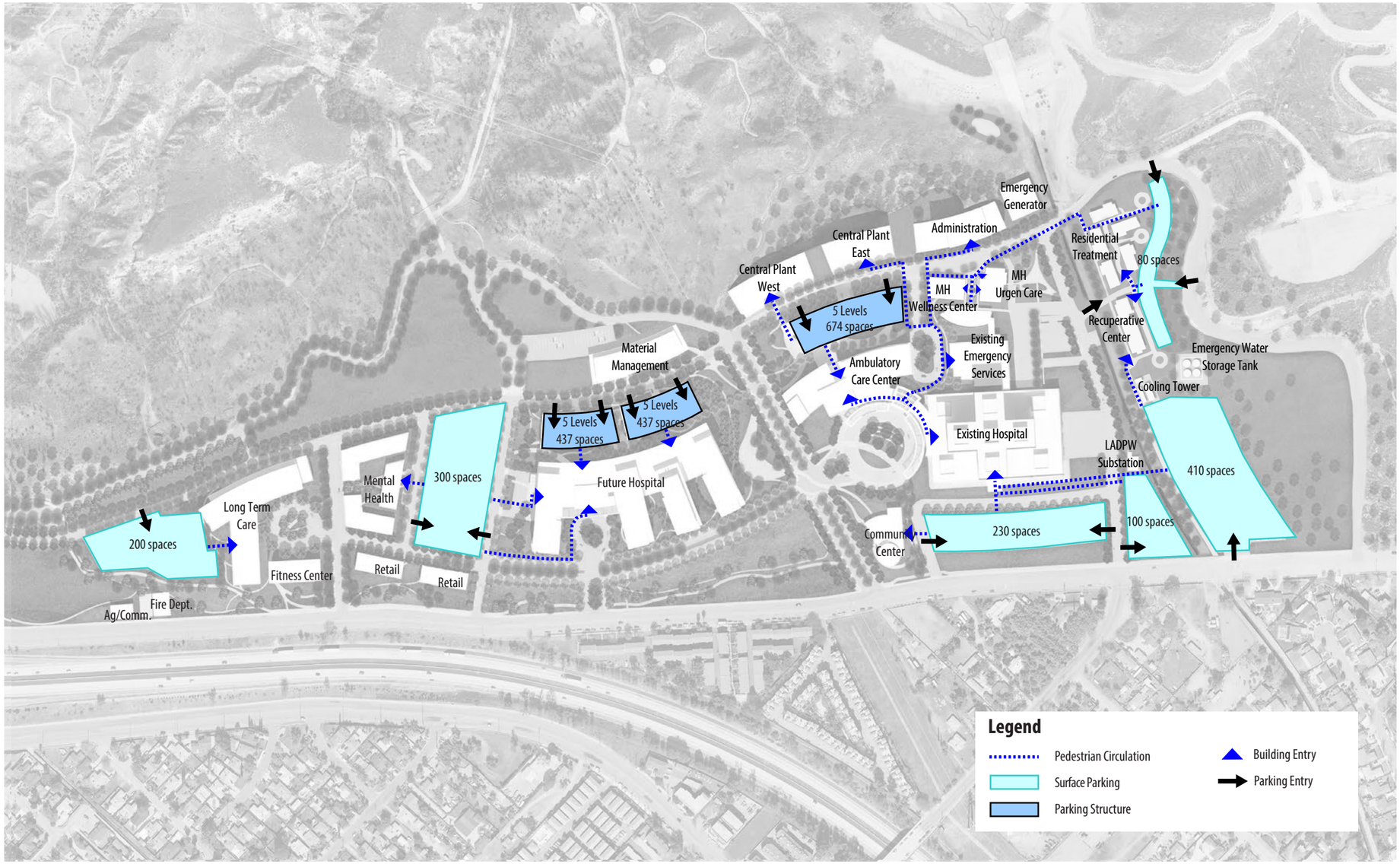
Parking for staff and physicians is provided in the surface lots as priority is given to visitors and patients. Because the parking structures are located behind the buildings in which they serve, it is important that signage and wayfinding provide clear directions for visitors and patients.

At the time of this master plan, detailed forecasts of employee, patient, and physician growth was not available. Instead, growth rates implied from the key programming drivers has been used to project future demand. A further study of parking needs and capacity should be done to confirm compliance to code as the various buildings are designed and carried out in the master plan.

Building	Use	Area (S.F.)	Beds	LA County Zoning Code	
				Parking Rate	Parking Required
Existing Hospital	Inpatient	530,000	270	2 spaces per 1 bed	540
Replacement Inpatient Hospital	Inpatient	605,000	251	2 spaces per 1 bed	502
Ambulatory Care Center	Outpatient	276,000		1 space for 250 S.F.	1,104
UCLA MOB	Outpatient	120,000		1 space for 250 S.F.	480
Administration	Office	96,000		1 space for 400 S.F.	240
Support Services	Storage	68,000		1 space for 1,000 S.F.	68
Central Utility Plant	Utility	77,000		1 space for 1,000 S.F.	77
Recuperative/ Long Term Care	Housing	135,000		1 space for 1,000 S.F.	135
Community Center	Assembly	20,000		1 space for 250 S.F.	80
Retail	Commercial	40,000		1 space for 400 S.F.	100
Mental Heath	Outpatient	20,000		1 space for 250 S.F.	80
Total for Renovation Option		**1,382,000**			**2,904**
Total for Replacement Option		**1,457,000**			**2,866**

6.16 Minimum Parking Required per LA County Zoning Code

PARKING



6.17 Parking Diagram

(Original) SmithGroup JJR, 2015, (Updated) Perkins Eastman 2019

LOGISTICS

RENOVATION OPTION

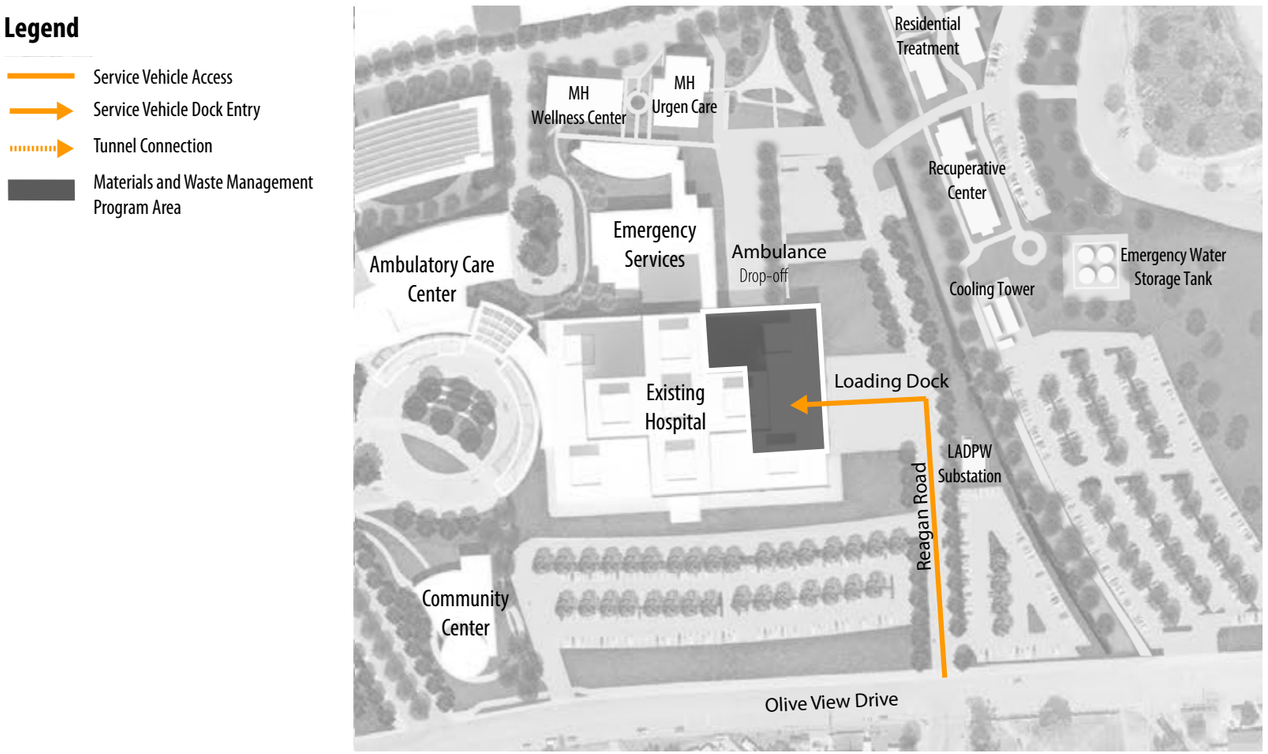
As already mentioned in the Site Facilities Planning section of this report, there are two options for how the material and waste management for the future campus can be organized. If the decision is made to renovate the existing Hospital, the existing loading dock can remain in operation. A new Materials Management building will need to be built as the current facility will be displaced by the new Ambulatory Care Center. It is suggested that this new Materials Management building be located in close proximity to the new Central Plant so that loading dock facilities can be shared.

This configuration clearly separates service vehicles from patients and visitors, and it maintains Reagan Road as the main service entry point into the campus. In addition, this layout optimizes the delivery method of periodic deliveries to and from the Materials Management building to the existing loading dock.

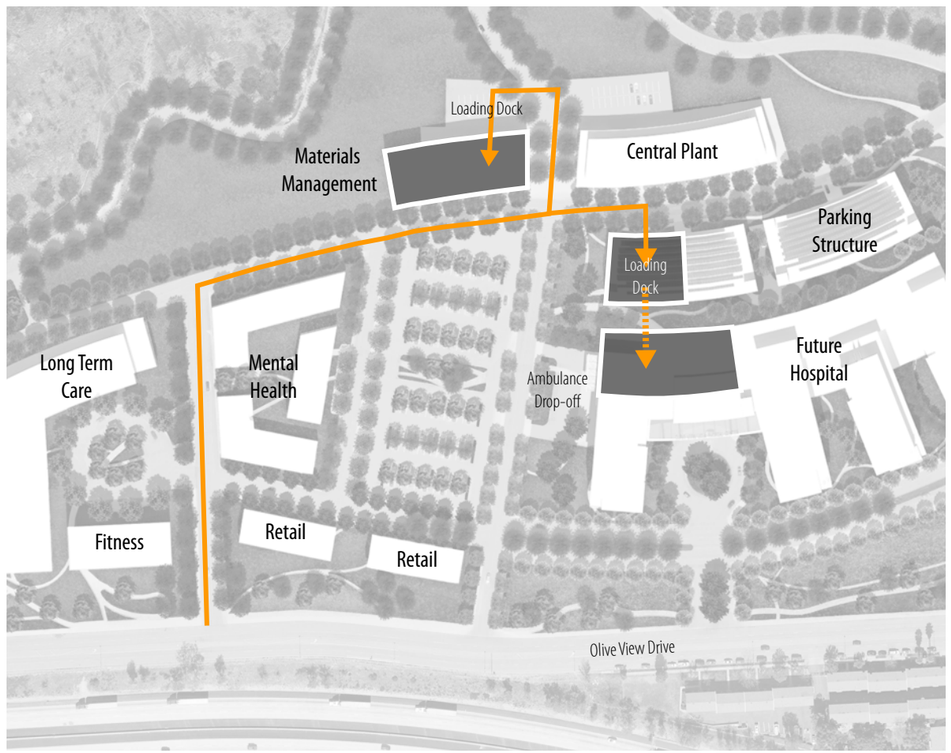
REPLACEMENT OPTION

Alternatively, if the decision is made to build a replacement Hospital, it is still suggested that the existing material and waste management system be used. Similarily to the renovation option, it is suggested that the new Central Plant and Materials Management buidling be co-located so that loading dock facilities can be shared. Large truck deliveries will be made to the new Materials Management building where storage will be provided. Small truck deliveries will be made from this building to the future Hospital.

In addition to the satellite building, a loading dock will be required at the future Hospital for waste management and other needs such as food service. A dedicated path must be provided in the design of the Hospital to allow for a direct connection to this loading dock. This recommendation should be verified during the design of these facilities.



6.18 Enlarged Site Plan - Renovation Option Logistics Diagram (Original) SmithGroup JJR, 2015, (Updated) Perkins Eastman 2019



6.19 Enlarged Site Plan - Replacement Option Logistics Diagram

6.20 Low Impact Development - Bioretention Plan

(Original) SmithGroup JJR, 2015, (Updated) Perkins Eastman 2019

LOW IMPACT DEVELOPMENT

Being at such a key point in the greater Los Angeles Basin watershed, the management of runoff is critical and should be slowed and treated at every opportunity. Using Low Impact Development (LID) strategies, wherever possible, the new design helps water flow from the adjacent mountains into vegetated bioswales, allowing water to return to the ground, filtered by plants and soil. Bioswales help mitigate runoff, improving groundwater quality, while taking advantage of the natural flow, using the shape of the land to direct water to the landscape and reducing the need for irrigation. The revegetated areas at the base of the mountains, allow water flow to slow and infiltrate the ground before it reaches the campus perimeter, also naturally stabilizing the slope, minimizing erosion.

Once geotechnical determinations are made and should the soil be found suitable for infiltration, the LID methodology should be further established and applied. Methods may include use of permeable paving in parking and hardscape areas.

Vegetated Bioretention Swales

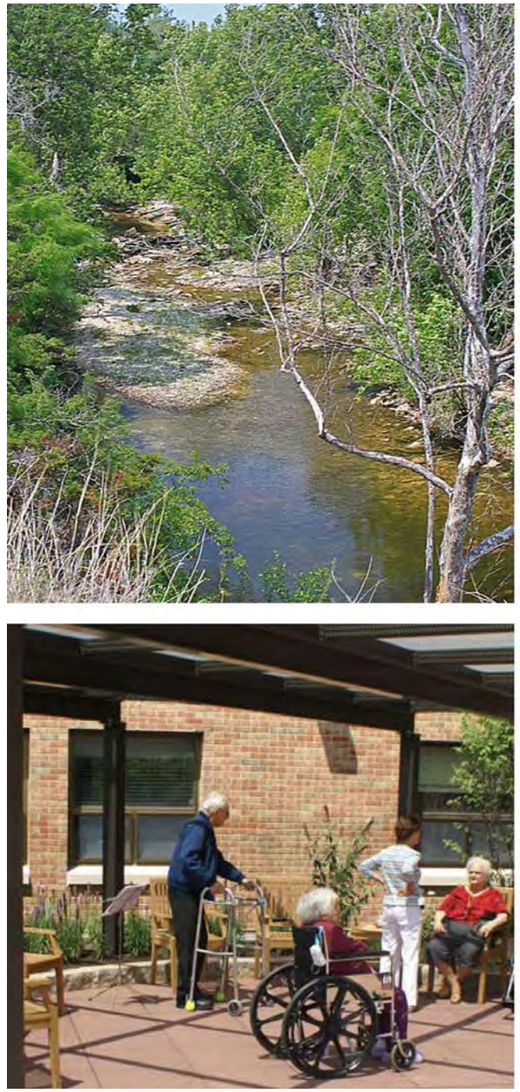
Drainage Tributary Swale Distribution

Permeable Paving

LANDSCAPE DESIGN

The landscape for the master plan was developed in response to the campus' dramatic topography, where the foothills of the San Gabriel Mountains meet the flatlands of suburban Sylmar. Organized by the contours of the land, the landscape is a gradient from most garden-like and cultivated along the south, at the city edge, to most rugged and natural along the northern perimeter of the site. The long term goal is to preserve green open space along Olive View Drive, creating a transition between the facility and the neighborhood, offering the neighborhood needed shared park and recreational space.

A HEALING CAMPUS THAT HEALS THE LAND



6.21 Examples of California landscapes and open spaces for community and public use

(Original) SmithGroup JJR, 2015, (Updated) Perkins Eastman 2019

6.22 Landscape Site Plan

SITE ECOLOGY

RIPARIAN WOODLAND

MOUNTAIN FOREST

PINYON JUNIPER WOODLAND

JOSHUA TREE WOODLAND

WILD FLOWER

CHAPARRAL

COASTAL SAGE SCRUB

VALLEY AND FOOTHILL WOODLAND

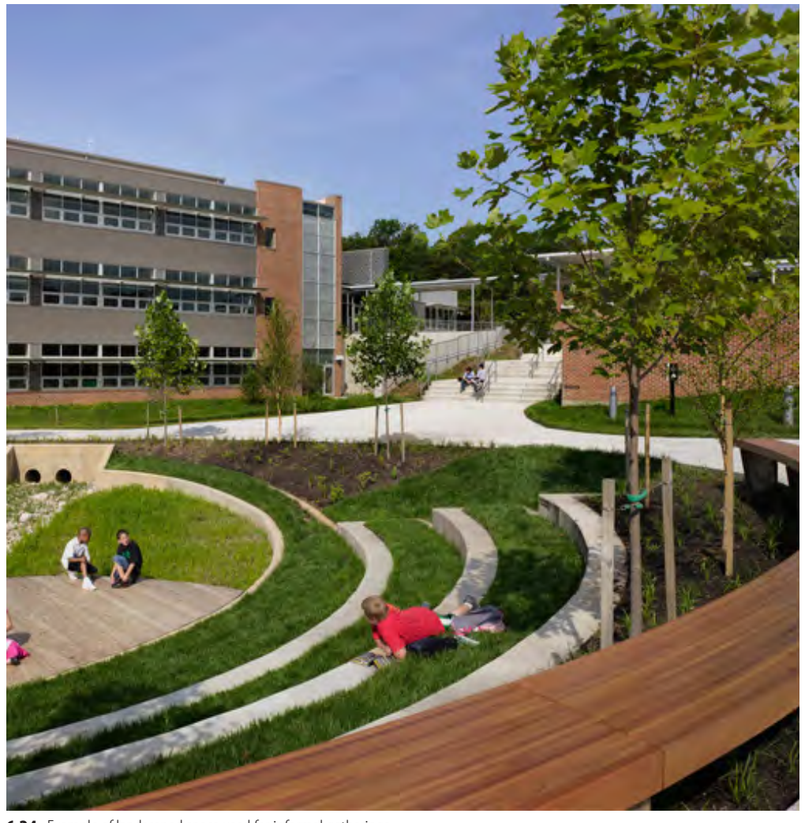
6.23 Photos of various California plants and ecologies

The new landscape should **expand and restore** native plant communities, helping to heal the local ecology, bolstering plant life and habitat that has been lost and degraded. Water-wise plants that naturally thrive in the area will blend the campus with the ecology of the surrounding mountains and canyons. The carefully selected plant palette will **complement both architecture and open space**, varying throughout the chain of gardens to create a unique feel and sensory experience between and within each space. Vegetation will transition appropriately, moving from a suburban context at the face of the site with swaths of bright, lively and inviting wildflowers to a more natural and native feel at the outermost edges of the campus.

SITE SENSITIVE DESIGN

Taking advantage of such a unique and ecologically invaluable site, the master plan aims to emphasize the design of a selected thematic (whether naturalistic or informal, campus or park framework) typology and planning concept that will establish a character for the site's **sense of place**. The master plan demonstrates several planning typologies and defines landscape character of the future healthcare campus.

A way in which this can be achieved is to identify all outdoor areas as **distinct and relevant open spaces**, with no leftover or unusable outdoor space, through plantings and hardscape elements. In addition, maximizing the site's topography by creating **vistas and view points** as trail destinations and site amenities as well as showcasing the aesthetic value of the developed campus in relation to its hillside context is important.

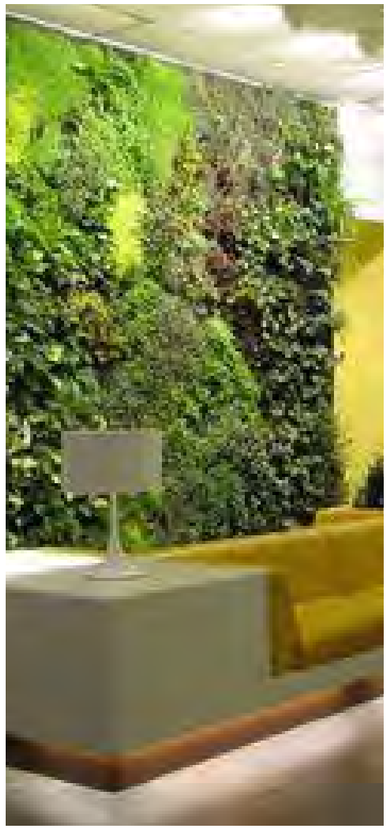


6.24 Example of landscaped space used for informal gatherings

6.25 Example of view points and vistas to outdoor spaces

INTEGRATED LANDSCAPE

6.26 Example of courtyards within interior of buildings



6.27 Example of bringing nature into interior spaces

By **bringing the landscape in** and providing **critical views** to the landscape, indoors and outdoors are connected and intertwined. This allows all patients and visitors to experience nature and benefit from the healing properties that it provides. The landscape along the trails and in the gardens continues into the common areas of the hospital and may be integrated by way of green walls and interior plants in public gathering areas within buildings. Windows frame the campus trees and the natural areas beyond, **connecting the viewer to the land** around the buildings.

RECREATION

Opportunity for recreation by way of **bike and equestrian trails** connects the community to the site. Acting as an extension of the existing trail along the Wilson Canyon Channel and the natural open space at north, the **Wellness Trails stitch the community to nature** through the parks that punctuate the campus. Linkage through the trailheads can also serve as an important connection to the existing Rim of the Valley Trail system, the Wilson Canyon Trails, and the Stetson Ranch Equestrian Trails.

6.28 Photo of equestrian trail

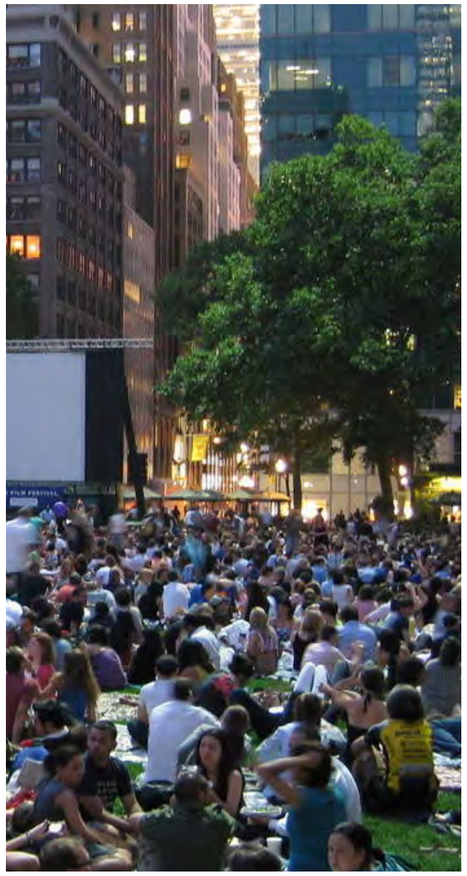
6.29 Photo of bicycle and pedestrian paths

HEALING

The master plan will create a healing landscape that also heals the land, providing opportunities for **re-vegetation**, returning **native California plants** including Oaks, Sycamores, Walnuts, Toyon, and improving degraded soil, increasing **soil recharge** capacity and improving site drainage and the site's ability to handle flooding. Provisions will be made for **habitat restoration** that will encourage presence of wildlife including the swallowtail butterflies, birds, and several animal species that were once more prevalent in the hillsides.

6.30 Example of healing and wellness gardens

COMMUNITY



6.31 Examples of community open spaces used for a variety of functions

To encourage a sense of community and place, the master plan aims to provide multiple and varied **opportunities for interaction** between the surrounding community and the community of Olive View. Educational, fitness and intergenerational components and amenities will serve a large and diverse audience. Create a **welcoming, active** and compelling space for gathering and interaction that will draw people in and will attract visitors and residents making the spaces **dynamic, useable and safe**.

CONNECTIVITY & ENGAGEMENT

A system of Garden & Wellness Trails as shown on the master planning concepts private outdoor areas specific to medical use immediately adjacent and with direct access to medical building entry. They are also viewed from patient rooms and bed towers.

6.32 Example of trail through different gardens

WELLNESS GARDENS

REHABILATION & THERAPY

FITNESS

SENSORY

MEMORY

MEDITATION

RECREATION

GARDEN TRAILS

COMMUNITY EQUESTRIAN TRAIL

BIKE ACCESS

NEARBY PARK CONNECTIVITY

SITE ECOLOGY

CALIFORNIA GARDENS OF SEASONS

GRASSLAND & SAGE SCRUB

VALLEY WOODLAND

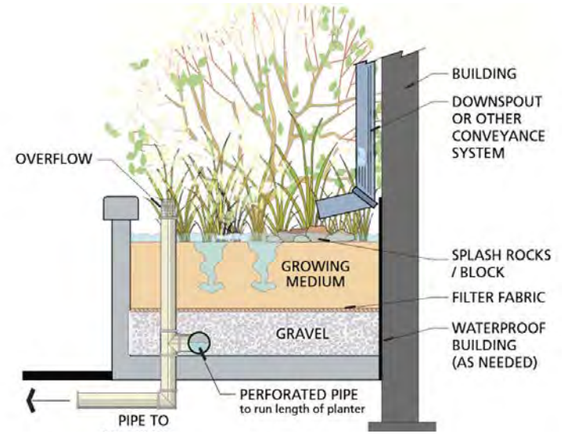
RIPARIAN NATIVES

Provide paths and walkways that have purpose, direction, destination, and varying experience when traversed as passage moves from building to building, from one outdoor space to another.

LANDSCAPE SUSTAINABILITY

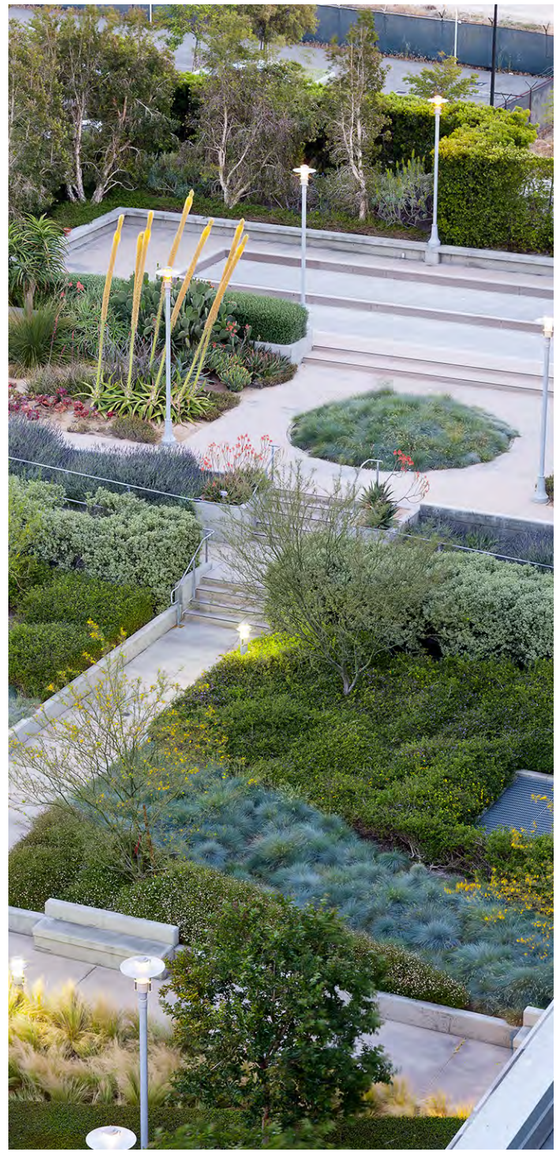
A number of different strategies can be incorporated into the landscape design for this master plan including:

- Integrate sustainable development strategies that prioritize water conservation, restoration of the natural vegetation, stormwater management, and promotion of the site's recreational outdoor element as part of the healing campus – healing people, healing the land.
- Water features should be integral part of building systems and stormwater management elements and should use re-circulated water from building and landscape.
- Stormwater management as part of the landscape planting strategy and design is a critical factor in organizing open spaces and planting selection. Bioretention area plantings can be used to clean and reduce run-off in vegetated swales, raised open-bottom planters, or similar low-impact development strategies.
- New site development and landscape design, installation, and maintenance should meet the highest possible sustainable design standards and measures including incorporating LEED design strategies and where applicable to specific site areas aim to meet minimum certification under the LEED rating systems for site development and landscape including Sustainable Sites, Water Efficiency, Energy and Atmosphere, and Material Resource criteria.
- A selection of bioswale planting is suggested in the plant Exhibit and should be appropriately planted for the type of bio retention planter, whether for open bottom, or infiltration type planters.
- Promote stormwater harvesting practices to reduce the demands on water systems for irrigation, capturing the water in surface basins or underground storage tanks and at the same time reducing runoff and increasing on-site infiltration. Identify the specific feasibility of the master plan proposed location areas for rainwater collection during the design process at each future development phases of the campus build-out.
- Hardscape permeability should be prioritized wherever possible at all paved areas including parking, streets, sidewalks, walkways, paved courtyards and other paving intense outdoor development areas
- Locate new deciduous trees on the north and south sides of buildings to reduce the heating and cooling demands of the buildings during the winter months.



6.33 Section showing treatment of stormwater from building

6.34 Example of roof gardens used for stormwater harvesting and treatment



6.35 Example of using native landscaping and bioswales to handle stormwater

SUSTAINABILITY

A sustainable system is reliant upon the healthy interaction between its parts to comprise a healthy and regenerating whole. At present, both locally and globally, rates of growing population, resource consumption and urbanization are out of balance with the capacity of our local ecosystems and our planet to regenerate. The Triple Bottom Line, summarizes this paradigm to mean, in response we must achieve a successful **balance between social, economic and environmental priorities**, where historically decisions have been dominated by only the economics. The United Nations follows the definition, "Meeting the needs of this generation **without compromising** the ability of future generations to meet their own needs". At the master plan scale it can be clarifying for all OVMC stakeholders involved to have these common frameworks upon which to set expectations for a envisioning a future medical campus that is socially just, ecologically restorative, and economically responsible.

GOALS FOR THE CAMPUS

At the beginning of the Master Planning effort, the Design Team met with Olive View leadership in order to determine the sustainability goals of the County and hospital. The overarching goal is to incorporate sustainable strategies that will meet the long term needs of the campus with an emphasis on Community, Transportation, Site, Water, Energy, and Occupant Wellness. The sustainability guidelines set forth in the Master Plan will address each of these overarching goals and provide a plan for future implementation. The guidelines are organized by metrics and the strategies in which to move those metrics forward.

Community

Development has the potential to create a connection and sense of community. OVMC leadership has stressed the importance of creating a sense of place and strengthening this connection with the community while ensuring security and safety for its patients and staff. By creating a medical campus with a diverse mix of uses at a scale that is appropriate for the site, OVMC has the potential to really engage with the surrounding community and host services that meet a multitude of community needs complimentary to a primarily healthcare use.

Transportation

As a county-run facility, OVMC is subject to complying with the Air Quality Management District (AQMD) and has taken measures to reduce single ridership among its staff. Currently carpooling is the main means of alternate transpiration with public transportation and bicycle commuting being underutilized. As a way to continue meeting the AQMD guidelines, OVMC has expressed a desire to increase transportation mode split and reduce single occupant vehicle commuter trips. The master plann focuses on public transportation infrastructure, bicycle amenities, and incentives.

Site

There are vital relationships between all buildings and their surrounding eco-systems but healthcare campuses offer unique opportunities to integrate the qualities of site with the architecture and infrastructure. The OVMC site is unique because of its size and integration with the surrounding Angeles National Forest. Open space provides a habitat for vegetation and wildlife, reduced heat island effect, and increased stormwater infiltration. Given the location oand the already existing connection to open space, it will be important for the master plan to celebrate and protect the natural characteristics of the site.

Water

Hospitals are among the top-10 water consumers in their water utility service areas. Therefore, reduction in water use can significantly affect the regional water supply, especially in water-scarce areas such as Southern California. OVMC leadership has expressed that water efficiency is a priority for the campus and that the master plan should account for water use and reduction. Additionally, water treatment and a resilience to municipal water disruption, either because of drought or catastrophe (fire, earthquake) would be a benefit to the hospital. The guidelines will focus on indoor plumbing fixture selection, optimizing cooling tower cycles, efficient water use for cooling equipment, metering, drought tolerant landscaping, and graywater reuse.

Energy

Healthcare facilities have the second-highest average energy usage intensities (EUI) of any building type due to their 24/7 operations and the high energy use associated with medical equipment, lighting, and ventilation. Energy efficiency demands of the state and local codes will continue to evolve. OVMC leadership agrees that the master planning effort should include EUI analysis of each building and that the solar potential of the site should be estimated in order to inform the design of the campus. The size and topography of the site offers a huge opportunity for solar generated renewable energy.

Occupant Wellness

Healthcare's fundamental mission is to protect and enhance individual and community health. By acknowledging the intrinsic relationship between the built environment and human health, we are able to create high performing healing environments. OVMC has expressed an interest in a healthy materials program for all new buildings on campus and the master plan focuses on how building design and operations can foster health and healing for both patients and staff.

SUSTAINABILITY FRAMEWORK

Green Building rating systems and frameworks offer a clear process by which sustainability goals can be implemented and measured. In addition to the California Green Building Code (CalGreen), several green building frameworks are available that provide a comprehensive set of guidelines for developing high-performing, sustainable healthcare facilities. Frameworks are tools that help the hospital take systematic action toward its goals and generate measurable results upon which stakeholders at many levels of the organization can maintain focus.

There are several rating systems that can guide the sustainability process on many different levels including planning, building, and operations. Leadership in Energy and Environmental Design (LEED) is the most widely recognized rating system, a green building certification program developed by the U.S. Green Building Council that offers third party validation of a project's green features.

The Planning Level

Healthcare campuses offer unique opportunities for expanding sustainable development at the campus or neighborhood scale. Several approaches and frameworks that address principles of smart growth, urbanism, and green building that may be appropriate for this project are:

LEED for Neighborhood Development (ND) places emphasis on site selection, design, and construction elements that bring buildings and infrastructure together into a neighborhood and relates the neighborhood to its landscape as well as its local and regional context. OVMC is not eligible to earn this certification but the LEED ND rating system offers a comprehensive set of considerations applicable to the long term success and sustainability of the OVMC campus. For the purpose of this Master Plan, the rating system has been referenced as a source for additional guidance on the implementation of specific design strategies including:

- Smart Location and Linkages
- Neighborhood Pattern & Design
- Green Infrastructure and Buildings

LEED Application Guide for Multiple Buildings and On-Campus Building Projects allows credits to be earned through a Master Site Review. All campus credit information is documented within a Master Site and projects on the campus that submit for LEED certification can utilize the credits pre-approved in the master site review.

The Building Level

In the United States, buildings consume more than 30% of the total energy and 60% of the electricity used. Healthcare facilities represent an energy, water, and personnel intensive building type and rank as the third most energy intensive building type and among the top 10 water consumers. Green building can substantially reduce the negative environmental impacts through high-performance. Rating systems designed to address the performance of buildings include:

LEED for New Construction (NC) is the primary framework developed by the USGBC and focuses on the design and construction of buildings. LEED NC addresses design and construction activities for both new buildings and major renovations of existing buildings and focuses on 5 main categories: Site, Water, Energy, Materials, and Indoor Environmental Quality.

LEED for Healthcare adapts the LEED NC rating system to meet the specific issues and needs of inpatient, outpatient, long-term care facilities and focuses primarily on design and construction.

The Green Guide for Healthcare (GGHC) is a best practices guide for healthy and sustainable building design, construction, and operations for the healthcare industry. The GGHC borrows the credit structure of LEED but is self-certifying.

The WELL Building Standard® is the first green building framework to focus on improving human wellness within the built environment. The WELL Building Standard® prescribes a series of technology enhancements and performance-based measures that are systemized across seven categories relevant to occupant health in the built environment – Air, Water, Nourishment, Light, Fitness, Comfort, and Mind.

The Operations Level

A sustainable building maximizes operational efficiency while minimizing environmental impacts. It is important to have sustainability guidelines for building operations to ensure that the building performs as originally intended throughout its life.

LEED for Existing Buildings is designed to certify the sustainability of ongoing operations of existing buildings. Specifically, the rating system addresses exterior building site maintenance programs, water and energy use, environmentally preferred products and practices for cleaning and alterations, sustainable purchasing, policies, waste stream management, and ongoing indoor environmental quality.

The Healthier Hospitals Initiative (HHI) is a collaborative effort among healthcare organizations to address health and environmental impacts of the healthcare industry. The HHI challenge consists of "self-reported" data that is collected and tracked towards achieving certain goals. The primary focus of the HHI is on operations.

THE LEED SCORECARD

New buildings and major renovations are mandated by the County of Los Angeles to be certified under the USGBC's LEED Rating System with a minimum certification of LEED Silver. In addition to meeting all prerequisites, a minimum of 60 points are required for projects seeking LEED Silver.

The LEED rating system will continue to evolve in an effort to push green building to the highest standard possible. Future projects built on the OVMC campus will be certified under the LEED version that is current at that time. As this report begins to frame sustainability goals for the campus, it is importatnt to note that these goals will also evolve over time.

COMMUNITY

Resilient communities are characterized by their ability to come together and overcome adversity when faced with catastrophe. A strong sense of community is signified by individuals who share pride and care toward a common identity. The Olive View Master Plan offers many opportunities to provide leadership and implement strategies which contribute to the resiliency and identity of the adjacent Sylmar homes and businesses. These strategies share a common concept of enhancing connectivity, through increasing opportunities for interactions between neighbors, encouraging commerce between local businesses, sharing or optimizing resources to improve the local environment. The following strategies will provide many important benefits to residents, employees, and visitors to Sylmar and the OVMC.

Location and Linkage - Commercial Space

Developing basic commercial services within walking distance (1/4 mile) helps to limit suburban sprawl and reduce traffic congestion caused by single occupant vehicle trips while improving air quality, reducing air pollution, and greenhouse gas emissions. Shaded pedestrian corridors and interesting places to walk (like shops and parks) can improve workers' health and productivity through exercise instead of driving.

Currently there are few basic services within a walkable ¼ mile radius serving the OVMC campus and the surrounding residential neighborhood. The development of mixed-use buildings that locate small business services close-to or on campus will provide walkable access to shops and basic services promoting greater human interaction and physical activity.

Location and Linkage - Local Food Production

Community-based food production provides environmental and economic benefits along with improved nutrition through better access to fresh produce.

Recommendations

- Dedicate permanent and viable growing space or related facilities within the project and provide fencing, watering systems, garden bed enhancements, secure storage space for tools, and pedestrian access for these spaces.
- Host a farmers market that will operate at least once weekly for at least five months annually.
- Include a produce market in the community/ retail space program.

Neighborhood Design - Compact Development

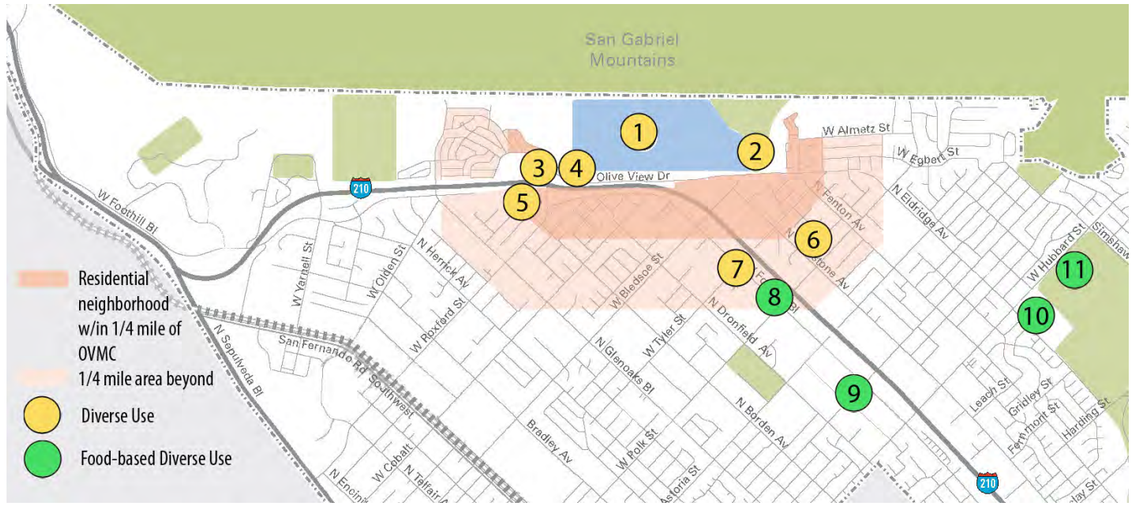
Compact development characterized by buildings clustered near one another, typically two stories or more in height preserves natural landscape, reduces the development footprint of the project and makes more efficient use of infrastructure such as water and gas pipelines. Currently, the buildings on the OVMC are spread out in a way that discourages walkability and requires upgrades or extensions to below-ground utility services. The Master Plan maintains a density of .247 which is measured in Floor-to-Area Ratio (FAR). FAR is calculated by dividing the building area by the site area. Rural agricultural zones are characterized by a FAR of >0.09. Village or campus zones have a FAR of 0.1 – 0.49. General urban zones have a FAR of 0.5 – 1.49.

Case Study: Kaiser Permanente Farmers Market

Kaiser Santa Clara opened its 52-acre Hospital and Medical Office campus in 2007. Kaiser's pro-active health-care philosophy includes a Farmers' Market and healthy eating alternatives in the Cafeteria.

Mark	Diverse Use Type	Diverse Use Name
1	Hospital	OVMC
2	Park	Wilson Canyon Park
3	Gas Station	AMPM
4	Auto Repair	Jiffy Lube
5	Hotel	Travelodge
6	Church	Sylmar Christian Fellowship
7	Pre School	Foothill Learning Center
8	Convenience Store	7-Eleven
9	Grocery Store	Vons
10	Farmers Market	Mission College
11	Community Garden	El Cariso Park

6.36 Existing Diverse Uses



6.37 Existing Diverse Uses Vicinity Map

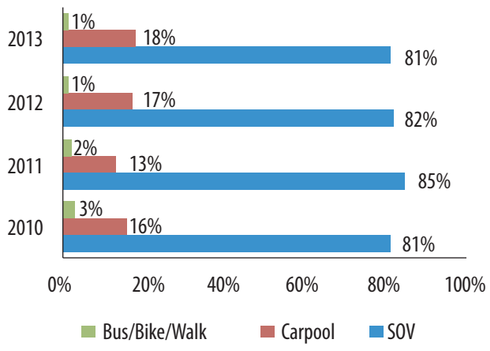
6.38 Case Study - Kaiser Permanente Santa Clara

TRANSPORTATION

While OVMC does not yet have a formal Transportation Demand Management (TDM) program, the campus is required to meet SCAQMD Rule 2202 which requires the campus to meet emission reduction targets by implementing a trip reduction program.

Increase Average Transportation Ridership (AVR)

Currently, only 1% of OVMC employees use public transportation or bike/ walk to work with 18% of employees commuting by carpool. This leaves about 81% of employees commuting to work via Single Occupant Vehicles (SOV). As part of a comprehensive master plan, OVMC will want to encourage an increase in alternate means of commuting other than by SOV.



6.39 OVMC Employee Commuter Data by Year

Transit Service

The Los Angeles Metro is the chief transit service provider to OVMC via bus. Two Metro bus transit lines pass within a 1/4-mile walking distance of the OVMC campus with bus stops located on Olive View Drive, Reagan Road, and Kennedy Road.

- 90 - This is a downtown route that serves Downtown LA, Chinatown, Lakeview Terrace, and Sylmar.
- 224 - This is a San Fernando Valley route that serves Sylmar, San Fernando, North Hollywood, and Studio City.

Total daily transit trips currently serving the project are:

- Weekdays: 70
- Weekends (avg.): 37

The county is encouraged to work with the Los Angeles METRO to inventory existing and new metro stops within the project boundary that will be warranted within two years of master plan completion. Bus stops should be located so that all new building entrances are within a 1/4 -mile walking distance. The project is encouraged to meet increasing transportation demands associated with growth by increasing the weekday and weekend trips for transit lines serving the campus. Recommended minimum daily transit trips are:

- Weekdays: 76
- Weekends (avg.): 50

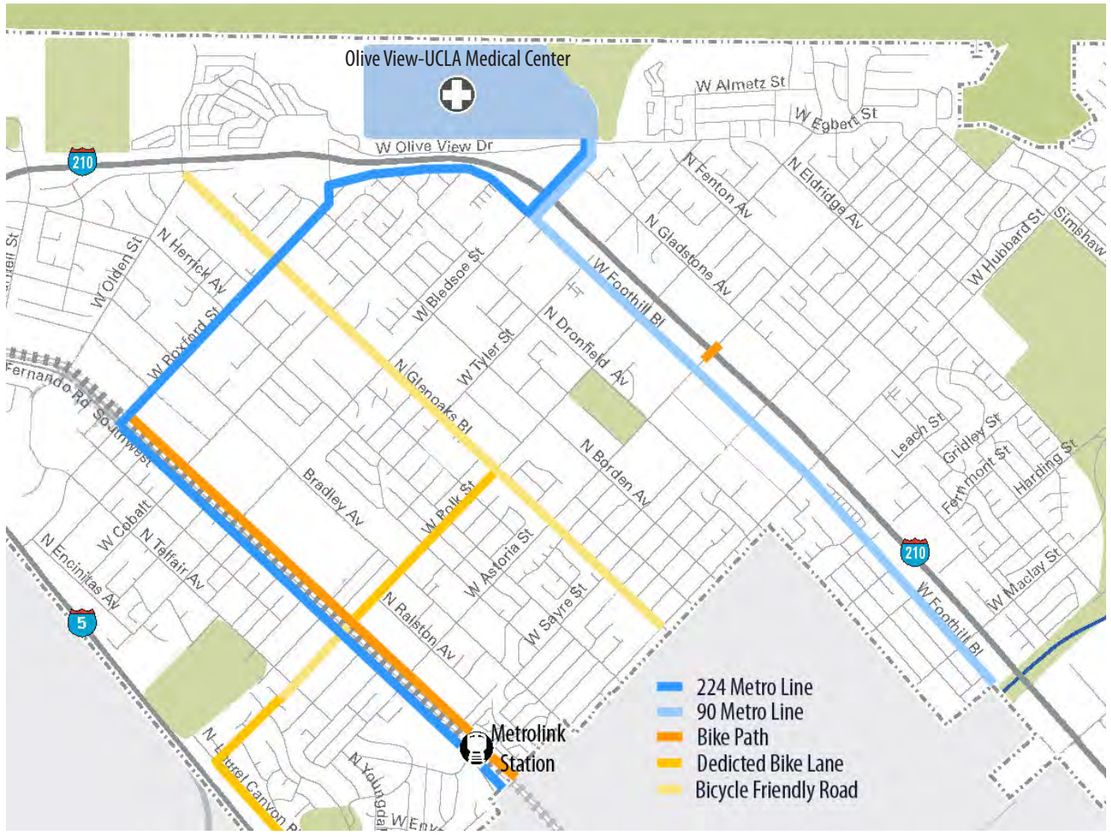
Bicycle Amenities

Currently, OVMC is approximately 1 mile from the nearest bicycle network which begins at the intersection of Polk St. and Glenoaks Blvd. Dedicated bike lanes exist on Polk St. and San Fernando Rd. which offer a bike friendly route to the Metrolink station located approximately 3 miles from OVMC. In order to connect the campus with the Sylmar/ San Fernando Metrolink station, it is recommended to extend the existing bicycle network directly to the campus. There are two possible scenarios for achieving this:

- Bledsoe St. - Integrate dedicated bicycle lanes or designate as a bicycle friendly street from Glenoaks Blvd. to OVMC.
- Tyler St. – Designate as a bicycle friendly street from Glenoaks Blvd. to Gladstone. Continue designation onto Bledsoe St. via Gladstone Ave to OVMC.

Existing Transit and Bicycle Network

OVMC is currently providing 24 bicycle racks located at the Main and ER entrances. In order to encourage biking to work by employees, OVMC should provide dedicated secure bicycle parking for 5% of its FTE. Secure parking includes bike cages, bike lockers, or indoor secure parking. In addition to parking, provide maintenance stations for filling up tires and making minor repairs.



6.40 Transit Map of Sylmar

OPEN SPACE

The master plan should provide a variety of open spaces to meet a variety of hospital and community needs from pocket parks, to gardens, to more civic spaces. At a minimum it should dedicate 30% of the total site to open space with 25% of that space vegetated.

Restoration of Habitat

Restoration of the land offers opportunities to enhance the natural state of the site and promote the survival of native animals and insect life while strengthening the campus' sense of place. Native plants require less maintenance and have a better long term survival rate which will be economically beneficial to the hospital. This strategy also creates an opportunity to provide an educational experience for staff, patients, and visitors with self-guided nature walks or tours that highlight the restored areas. The Master Plan should seek to restore as area equal to or greater than 10% of the development footprint using only native plants.

Pedestrian Oriented Hardscape

Pedestrian oriented hardscapes facilitate social networking, civic engagement, physical activity/ rehabilitation, and time spent outdoors. Although it is important to provide sidewalks at all streets, it is also important to provide walking paths and gathering spaces that are separate from the path of vehicular traffic. The Master Plan should consider creating a diverse network of hardscapes that enhance the pedestrian experience.

Access to Recreational Facilities

There are opportunities within a healthcare campus to provide outdoor recreational facilities that will promote physical activity and provide a connection with the surrounding community. Outdoor recreation facilities should be at least 1 acre in size and could consist of outdoor gyms, basketball courts, playgrounds, etc.

HEAT ISLAND REDUCTION

Dark non-reflective surfaces used for parking, roads, walkways, and other hardscapes absorb the sun's warmth and radiate heat, creating heat islands.

Dark non-reflective surfaces like asphalt used for parking, roads, walkways, and other hardscapes absorb the sun's warmth and radiate heat at night, creating heat islands which are zones of warmth that are of higher average temperature than surrounding areas. Heat island effect results in the increased need for cooling in buildings which can drive up costs from increased energy use. Reducing the heat island effect is a passive strategy for reducing ambient air temperatures which helps to reduce cooling costs, conserve water used for cooling and improve comfort with less energy.

Tree-lined and Shaded Streets

Tree-lined streets help to reduce heat island effect by increasing evapotranspiration but they also improve air quality, encourage walking, and discourage excessive motoring speeds. The Master Plan should include trees on both sides for at least 60% of streets intervals averaging no more than 40 feet or provide shade (trees or structures) for a minimum of 40% of the length of sidewalks on all streets.

Parking

Currently, the site is scattered with large asphalt surface parking lots which of all hardscapes contributes the most to urban heat island effect. In order to combat heat island and free up more open space, the Master Plan should strive to locate at least 75% of parking spaces under cover. For surface parking lots, consideration should be given to pervious pavers in parking stalls and light colored concrete elsewhere or providing canopy cover to surface parking areas which may also provide infrastructure for mounting photo-voltaics for renewable on-site energy production.

Case Study: Fitness Zone at Pan Pacific Park, Los Angeles

6.41 Case Study - Pan Pacific Park

Pan Pacific Park's Fitness Zone is one of 29 in Los Angeles County. Fitness Zones are easy-to-use outdoor gyms that bring a new set of healthy activities to the park experience.

INDOOR WATER USE

New construction and major renovations should demonstrate a reduction in indoor water usage by a minimum of 35% from a baseline.

Plumbing Fixtures

All newly installed toilets, urinals, private lavatory faucets, and showerheads that are eligible should be EPA WaterSense labeled. Recommended flush and flow rates are:

Water Closet	1.28 gpf
Urinal	0.35 gpm or waterless
Public lav faucet	0.5 gpm
Kitchen faucet	1.5 gpm
Showerhead	1.75 gpm
Prerinse Spray Valves	1.3 gpm

OVMC should consider low-flow and/or dual flush water closets for all buildings, ultra low-flow urinals for acute care and waterless urinals for MOB's. Lavatory faucets should be sensor type with automatic on/off capabilities and consideration should be given to solar or turbine powered options. It is also recommended to limit the number of unisex single occupancy toilet rooms as these are typically fitted with water closets only which drives up the water usage for men who would typically use urinals.

Medical Equipment Cooling

Select equipment that can be air cooled if possible. Any medical equipment that rejects heat and is required to be cooled by water should be on a closed-loop system in lieu of a once-through with the exception of emergency back-up.

Cooling Towers

The Co-gen Plant current system operates at full capacity at all times which requires a tremendous amount of water for cooling that equipment] Replacement of the co-gen facility would result in a tremendous amount of water savings for OVMC, however, because that system is not individually metered, the actual amount of water use for that system is not quantified. Cooling towers may also be cooled using recycled greywater which would reduce demand on municipal supplies while reducing operating costs.

Water Metering

Currently there are only a few water meters on campus but it is vital to be able to track water consumption and identify opportunities for additional savings. In addition to whole building water metering (for each individual building), it is recommended that the following subsystems be considered for metering as applicable:

- Irrigation
- Indoor plumbing fixtures and fittings
- Domestic hot water
- Boilers
- Process water
- Reclaimed water

OUTDOOR WATER USE

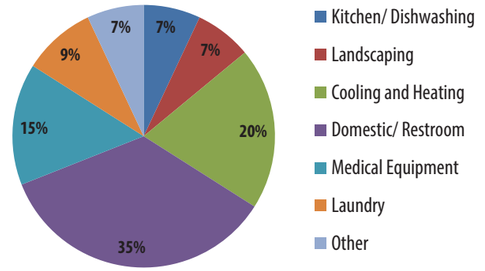
With an average rainfall of 13.75-inches per year, the OVMC site currently relies on potable water to meet its landscaping demands. Moving forward, the campus as a whole should demonstrate a reduction in outdoor water usage by 50% from a baseline and engage in strategies that eliminate the use of potable water for landscaping.

Landscaping

The master plan should identify plant types and coverages that balance water use efficiency with the area's intended function. Preference should be given to native and drought-tolerant plants that require little to no irrigation. Turf grass should only be used for play fields or specific activities that require turf. Additionally, irrigation should be drip type and should include rain sensors for optimal performance.

Water Reuse

Graywater systems involve on-site capture, treatment and reuse of water that would otherwise be discarded offsite for treatment. On-site water recycling systems are a highly effective way to replace potable municipal water for landscaping, cooling tower makeup, and toilet flushing where appropriate (non-OSHPD) with recycled water that is less energy-intensive and burdensome to municipal systems to use. Common graywater systems include filtration, ultra-violet light, and chlorine treatment. Membrane Bioreactors and Constructed Wetlands are used to treat black water which can offer additional supply of recycled water while reducing reliance on municipal conveyance and treatment systems that are aging or vulnerable to service disruption after an earthquake.



6.42 End Uses of Water in Hospitals

6.43 Case Study - Providence St. Peter Hospital

Case Study: Providence St. Peter Hospital

St. Peter Hospital in Providence WA has reduced their water usage by 50% while the campus has actually grown by 21% by implementing aggressive water saving measures .

ENERGY

Healthcare facilities have the second-highest average Energy Usage Intensities (EUI) of any building type due to their 24/7 operations and the high energy use associated with medical equipment, lighting, and ventilation.

This presents a major opportunity for Olive View to improve air quality, reduce green house gas emissions and save money on operations. Healthcare facilities, however, face barriers to improving energy performance. Energy codes are not applicable at hospitals and complicated procurement procedures for public agencies can obscure the motivational relationship between energy use (hospital facilities) and energy cost (county procurement). When those who use energy do not pay for energy, they may be less critically aware of the need for improvement or incentivized to make changes.

In the context of the Olive View Medical Campus Master Plan, performing long term energy analysis to forecast what energy use will look like for the medical campus at key intervals of the planning timeline provides critical insights to the ultimate goal of energy reduction. Energy use from today to 2020, 2030, 2050 and beyond have been forecasted using EUI targets for various medical building types. EUI targets are informed by professional estimates of the impact of California Title-24 and Calgreen future code trends, ongoing technology and design advancements in green building and energy efficiency. It is expected that increasing emphasis by California State agencies on high performance buildings, climate change impacts, and stricter energy standards will continue to drive down energy use in buildings. The OVMC should follow these trends and even use development opportunities to show leadership in energy conservation and renewable energy production to meet future needs in a sustainable manner.

The two categories of master plan phasing options (Renovation & Replacement) were analyzed for total impact and any comparative differences. Overall, the analysis shows that achieving aggressive energy savings to meet the 2030 Challenge targets is possible, but achieving carbon neutrality will be difficult without additional renewable energy installation beyond what is possible on building rooftops. In comparing the two schemes, the Replacement Scheme has significant advantages in seeking aggressive energy efficiency and greenhouse gas reductions. Full replacement provides greater opportunity to pursue energy efficiency and the cumulative impact translates to twice the impact in reductions by 2050 and an average campus energy intensity of less than half of the Renovation scheme (See Annual Energy Use and CO2 Impact Table).

The energy and greenhouse gas savings represented in the Replacement scheme are even greater when considered over the total years between now and 2050. Even though both schemes have very similar energy efficiency targets, the timing of the hospital replacement paired with a replacement being inherently more efficient than a renovation, the Replacement Scheme results in 35% fewer CO2 emissions by 2050, representing savings of approximately 4 million Btu and 500,000 metric tons of CO2 emissions (See Cumulative Energy and CO2 Impact Table).

The resulting campus in 2050 will be very different in many ways under the different schemes. (See Overall Campus Energy Efficiency by 2050 Table).

	Annual Energy Use (million Btu)	**Annual CO_2 Emissions** (metric tons)	**% Reduction** (Relative to Today)
Today	377,446	48,146	0%
2050 – Renovation	245,935	31,371	35%
2050 – Replacement	122,144	15,580	68%

6.44 Annual Energy Use and CO2 Impact

	Total Energy Use (million Btu)	**Total CO_2 Emissions** (metric tons)	**% Reduction** (Relative to Renovation)
2050 – Renovation	11,102,021	1,416,151	0%
2050 – Replacement	7,254,706	925,395	35%

6.45 Cumulative Energy and CO2 Impact (Today through 2050)

Campus Average Building Efficiency (EUI)	**Energy Use Index** (kBtu/squarefoot-year)	**% Reduction** (Relative to Today)
Today	445	0%
2050 – Renovation	111	75%
2050 – Replacement	45	90%

6.46 Overall Campus Energy Efficiency by 2050

ENERGY

OVMC Long Term Energy Analysis

There are great resources for benchmarking and forecasting energy use by building type available including the EPA Energy Star Portfolio Manager Energy Use Intensity by Property Type reports. This report is based on DOE Commercial Building Energy Consumption Survey (CBECS) which is a national survey of existing facilities that is completed, analyzed, and published in extensive detail. The Energy Information Administration (EIA) which maintains this data also released a report in 2007 focused on large hospitals. The analysis completed to-date should be considered an interim step on the process—additional refinement based on further discussion, selection of renovation or new construction for the main hospital, and further analysis will ultimate inform the final results.

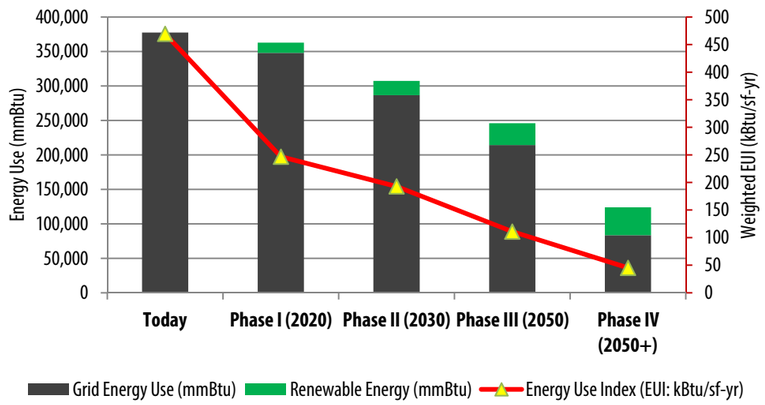
The resulting energy use intensity (EUI, kBtu/sf-year) targets we developed are shown in the table below. This is the input data for the Replacement Scheme. The major difference in the Renovation Scheme is that the hospital could not achieve as great or as fast energy efficiency improvements as are possible in earlier and full replacement.

Building Type	CBECS	Today	Phase I 2020	Phase II 2030	Phase III 2050	Phase IV 2050+
Hospital	196.9	651	600	150	150	150
Ambulatory Care	63	50	40	35	30	30
Medical Office Building	44.4	40	35	30	30	30
Long Term Care	125.7	80	60	50	45	45
Administrative Office	44.4	40	35	30	20	20
Outpatient	63	55	50	45	40	40
Public Assembly, Social	45.3	40	35	30	25	25
Fire Department	82	50	45	40	35	35
Fitness	39	35	30	25	20	15
Retail	47.1	45	40	35	30	30
Storage	28.5	25	20	15	15	15
Parking	15	13	12	11	10	10

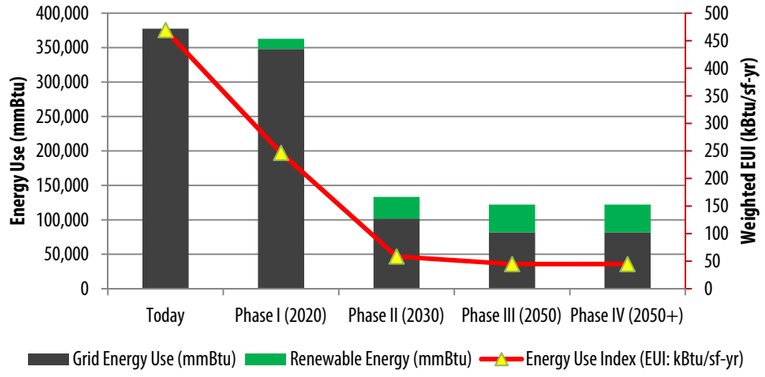
6.47 EUI Targets by Building Type and Phase

Renewable Energy

Included in the analysis is the expectation that renewable energy, in the form of solar photovoltaic panels, will be included in the long term plans for the construction of new facilities. This analysis assumes that 25% - 60% of the total rooftop of each building is available for solar energy installation. For larger, more complex, taller buildings, a lower portion of the roof will be available given competing demands for mechanical systems. For simpler, small, and shorter buildings, a much higher portion of the rooftop should be available for solar installation. To achieve even greater renewable energy production—and in order to achieve net zero energy—installation on areas not covered by buildings should also be considered, however this was not included in our analysis. The two adjacent figures show energy reductions over time as the campus master plan is implemented along with aggressive energy efficiency. Gray and green bars represent grid and renewable energy use, and the yellow dots represent overall campus energy intensity (EUI).



6.48 Renovation Scheme - Energy Use Intensity



6.49 Replacement Scheme - Energy Use Intensity

WELLNESS

Just as the Hippocratic Oath promises to "first, do no harm," health care systems have a responsibility to eliminate practices that harm people and the environment. OVMC has the opportunity to take this promise one step further by creating an environment that optimizes wellness using an integrative and holistic approach.

Air

Clean air is a critical component of our health. We often do not have control of the air that we breathe which is especially true of patients in healthcare facilities who are confined in a building. Genuine sustainability must take an integrated approach to healthy indoor air quality.

Safer Chemicals

Harmful chemicals used in some healthcare products are linked to a range of impacts including cancer, birth defects, asthma and other health problems. To create a healthier environment, OVMC should consider implementing the following strategies:

- Green Cleaning – purchase 90% Green Seal or EcoLogo certified cleaning products in these four categories: carpet, window, all purpose, and bathroom.
- DEHP/PVC Reduction – Eliminate DEHP/ PVC from at least one of the following product lines: breast pumps, enteral nutrition products, parenteral infusion devices, general urological, exam gloves, umbilical vessel catheters, vascular catheters.
- Healthy Interiors – ensure that 25% of the annual volume of furniture and medical furnishings eliminate the use of halogenated flame retardants, formaldehyde, perfluorinated compounds and PVC.
- Comply with the Living Building Challenge materials red lists for all major interior finishes and furnishings.

Natural Ventilation

In addition to reducing energy consumption, research shows that natural ventilation can improve patient outcomes by providing control over thermal comfort and ventilation. Where possible, operable windows should be included in designs of patient rooms, offices and any other appropriate occupied spaces.

Water

Many Americans have less than ideal water quality. Increasingly, water is contaminated with unsafe levels of pharmaceuticals, chlorine, fluoride and other chemicals. Healthcare facilities should strive to deliver the healthiest and cleanest possible water for consumption.

Impurity Reduction

Reducing impurities in drinking water results in healthier and better tasting water. For kitchen faucets and drinking fountains, filter water should meet the following:

- Aluminum less than 200 ug/L
- Arsenic less than 2 ug/L
- Chloride less than 250 mg/L
- Lead less than 2 ug/L
- Manganese less than 5 ug/L
- Sodium less than 270 mg/L
- Chlorine less than 0.5 mg/L
- Fluorine less than 1mg/L

Nature

Research shows that the physical and visual connections to the natural environment (access to outdoor space, views of nature, natural daylighting) provide social, psychological, and physical benefits. These connections also assist in patient recovery and healing, reduce stress, and improve the overall healthcare environment.

Daylight and Views

Design of new buildings should consider daylighting in the following areas:

Inpatient Units: A minimum of 90% of inpatient staff, patient, and public areas should be within 20 feet of the perimeter with perimeter areas having windows that provide at least an 11-degree angle of unobstructed view in the vertical and horizontal direction.

Places of Respite

Program of new buildings should include patient, visitor, and staff accessible indoor and outdoor places of respite with 90% of these spaces having direct views of nature. Indoor Places of respite may include:

- Family consultation or gathering spaces
- Lounges without negative distractions such as TV's
- Café
- Grieving room
- Meditation spaces or chapels
- Resource areas and libraries
- Designated staff break areas with positive sensory distractions
- Spa or exercise spaces for staff and/or visitors

Nourishment

Many Americans have a high-calorie diet that consists of unhealthy fats and sugars that gradually weaken immune function, leads to excessive weight gain, and causes long-term health problems. As part of a mission of healing, OVMC should consider implementing the following strategies:

- Balanced Menu – decrease amount of meat purchased by 20% within three years.
- Healthy Beverages – Increase the percentage of healthy beverages by 20% of total beverage purchases annually (include promotion of tap water over bottled water)
- Local Sustainable Food – Increase the percentage of local and/or sustainable food purchases by 20%.

6.50 Future Hospital Dusk View

6.51 New Ambulatory Care Center and Drop-off Dusk View

07 DESIGN GUIDELINES

MASTER PLAN DESIGN GUIDELINES

VISION AND GOALS

The Olive View – UCLA Medical Center has a rich history that can be traced back to a more natural setting and a scale that blended with a spectacular backdrop of the Angeles National Forest. Our vision for the Master Plan is to re-capture the spirit of the place.

A successful master plan needs to have a long view so the initial phases have a road map to the ultimate vision. The initial phases will begin the transformation and a key ingredient to include is the landscape strategy that sets the stage for reclaiming nature.

The goal for these guidelines is to provide a development framework to unify the campus fabric. However, the intent is not to mandate uniformity or replication of design. Unity of the campus fabric can be achieved through careful understanding of context, and sensitivity to the environment, both existing and future. A unified campus fabric includes nuanced variation that results from function, site, building technology advancements, and design expression.

Olive View - UCLA administrators and project managers must be fully engaged in the design process and will be the final arbiters of the preferred architectural approach pursued for each project.

PURPOSE

Design guidelines reflect the unique qualities found in each institution and their culture. These guidelines work to achieve coherence and unity across the campus. Design guidelines serve as a tool to further define the physical planning goals of the master plan and provide design direction for implementation. These campus-wide design guidelines describe the Olive View – UCLA Medical Center's expectations for facility improvements and future development. They provide a flexible framework that allows the vision of the master plan to develop incrementally through influences from various leaders, designers, and planners.

The Design Guidelines help to unify the campus under an approach and philosophy that connects buildings both with one another and with the landscape to form an integrated and architecturally rich campus setting. They are intended to guide staff as they design, construct, and maintain the campus, as well as clarify OVMC's expectations for design professionals that are commissioned by the medical center. When successfully applied, the campus-wide design guidelines will further enhance OVMC's overall appearance.

(Original) SmithGroup JJR, 2015, (Updated) Perkins Eastman 2019

DESIGN FRAMEWORK

The following are overarching goals to achieve the Design Guidelines:

- Neighborhoods
- Community
- Environment
- Place Making

NEIGHBORHOODS

The master plan strives to create neighborhoods or campus zones upon which to organize development and relate to the surrounding context and community. The following are ways in which this can be achieved:

- Recognize the suburban character of the site's surrounding community and its regional landscape allowing for a development scale appropriate to the site's context including landscape character.
- Create streetscapes within the campus and along Olive View efficient for vehicle traffic, safe and pleasant for pedestrian passage.
- Anticipate future developments and identify possible mixed use zones to create a healthcare campus neighborhood that encourages community use and economic activity within the site, such as public parks, community facilities, childcare amenities, other medical offices, short and long term housing, senior living, hospitality developments with retail, commercial, and food service components.

7.01 Photo of garden designed to appropriate scale and character

COMMUNITY

The master plan encourages community involvement and interaction. This can be achieved by:

- Capitalize on the site's natural landscape and proximity to existing recreational open space for resource sharing, allowing for community participation in new and enhanced amenities. Amenities include community shared therapy, wellness gardens, and trails; campus and community shared recreational garden trails for passive and active recreation, encouraging walking, biking, hiking, and horseback riding through a system of interconnected outdoor garden and fitness trails, bike paths, and equestrian trails.
- Create outdoor places for campus and community use including day markets and farmer's market use, areas for active recreation such as sports courts, picnic areas, community gardens, and children and family parks.
- Connect the medical campus to neighboring city amenities through planning for linkages to public transport, bike, and equestrian access to and from the campus.

7.02 Example of community interaction and participation

ENVIRONMENT

The inherit characteristics of the site should be echoed in the master plan with emphasis on a connection back to nature and development at an appropriate scale. This can be achieved by:

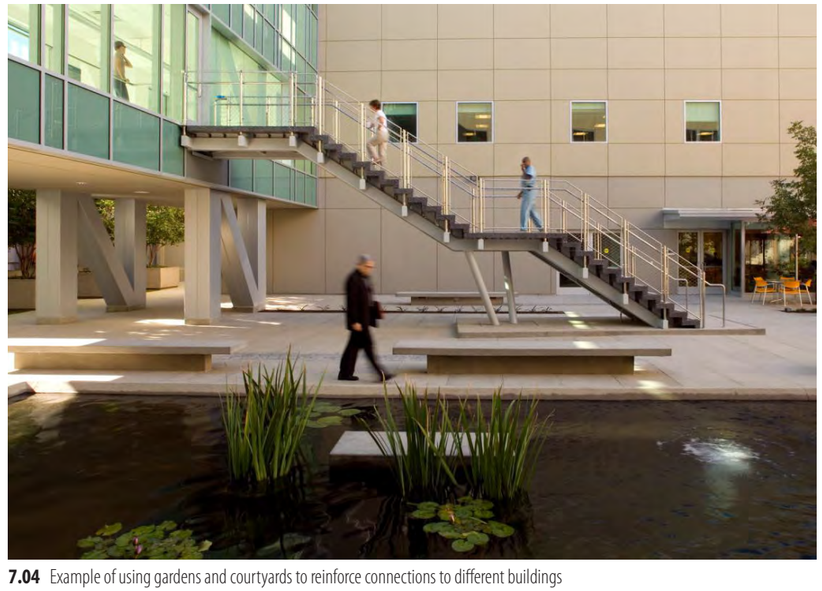
- Recognize the site's topography, existing land use, existing buildings and infrastructure, utility easements, and how they are affected and how they influence the development strategies for a new healthcare campus.
- Express the importance of the relationship of the site to future land use and its impact to the natural environment, including the site's proximity to dry river beds and the scarcity of water, proximity to two debris basins and site's exposure to natural hazards such as flooding, fire, and landslides.
- Celebrate the site's topography and the adjacent mountains expressed in the placement of buildings & utilities, site viewpoints, circulation and access routes, and outdoor use zones.
- Integrate sustainable elements with the building and landscape allowing for the best sustainable strategies and technologies, such as stormwater harvesting, stormwater management, waste recycling, gray water reuse, solid waste management, solar power harvesting, greenhouse gas reduction, and reduced carbon footprint.
- Integrate ecological restoration processes in the landscape design to restore or return wherever possible the natural vegetation and habitats of the surrounding landscape of the San Gabriel Mountains. Include demonstration gardens that exhibit California native flora, climate, and natural processes of water – soil – vegetation.
- Create an organized plant palette reflective of local climate and native vegetation, expressed as a confluence of site's geographical location and characterized by the site's microclimates and diverse ecological zones.
- Inform and educate the campus users and visitors about the site's 'biomes' or 'ecozone' and local hillside and valley climate through the design of landscape planting, hardscape elements, and sustainable strategies used including site vegetation management through zero or low water use and composting.
- Design for resiliency with strategic awareness of the site's physical challenges addressing the site's semi arid, long and dry, hot summers and recent regional climate changes that has increased the number of extremely hot days, volatile rainfall, exacerbating the potential for forest fires and likelihood of flooding.

PLACEMAKING

Placemaking for the future campus can be achieved through visual and physical connections between buildings and the landscape. Some of the ways to accomplish this include:

- Design the landscape to reinforce and establish the scale, rhythm, spatial configuration between building and landscape.
- Demonstrate clear wayfinding and linkages in circulation and movement throughout the campus.
- Convey visual continuity through materials and concept throughout the campus for coherent design and visual aesthetics.
- Create a unique campus landscape character using sustainable strategies in restoring the landscape ecology inherent in this hillside site.

7.03 Creating an environment to bring together, designed for different functions



7.04 Example of using gardens and courtyards to reinforce connections to different buildings

ARCHITECTURAL DESIGN GUIDELINES

The Design Guidelines are categorized into four elements of design:

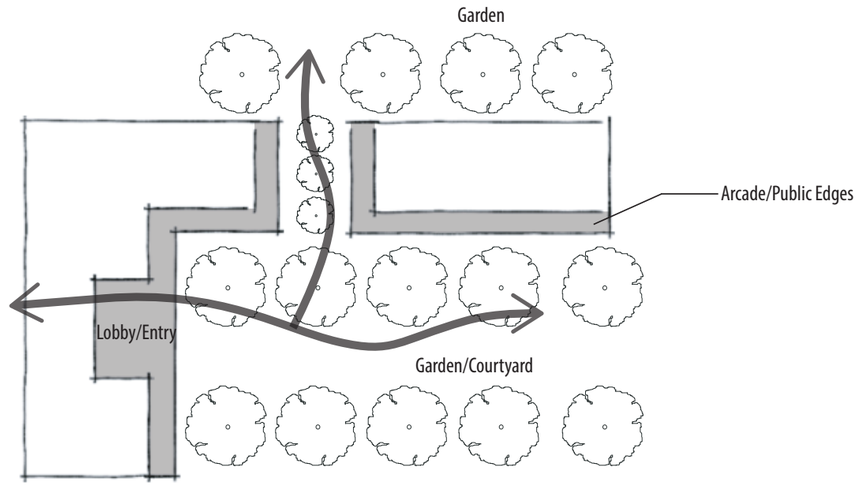
- Attributes
- Components
- Materials
- Sustainability

ATTRIBUTES

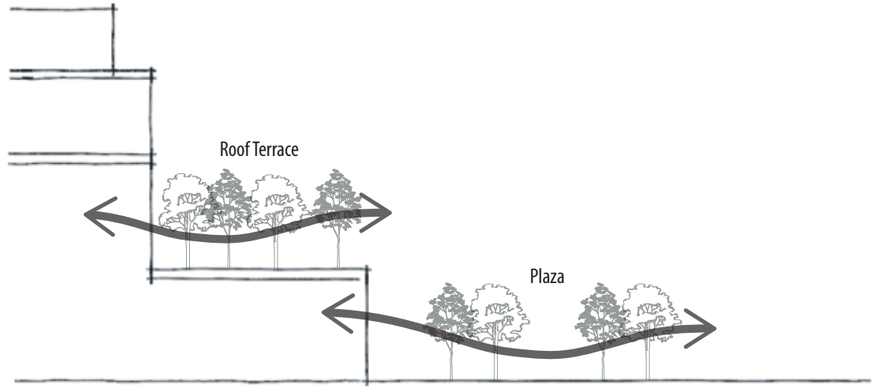
The architectural expression envisioned for Olive View – UCLA Medical Center is one that reclaims the natural setting and scale that once was the essence of this region. The campus had a historically greater relationship with the natural setting with greater emphasis on the landscape than on the buildings and parking. The brand and image proposed in the Master Plan strive to enhance the place to be inviting and complement the natural context through attention to detail and scale. The vision is to have a composition of buildings, gardens and outdoor rooms that transform OVMC into a 'healing' campus.

Plazas, courtyards, and connections to overall outdoor circulation patterns should be developed as part as each building's form. The architecture should also work in collaboration with the Landscape Design by emphasizing forms that shape outdoor space and enhance the pedestrian experience.

Although the existing hospital building remains a dominant architectural feature -based on the response to the needs at the time it was built - the long term development of the campus provides an opportunity to reshape the campus into a collegial typological response. This response must include massing that is in scale to the broader context, and hierarchy of scale where no building is greater than 4 stories, unless deemed appropriate for a single building (like a replacement hospital) but should never exceed the height of the existing hospital building.



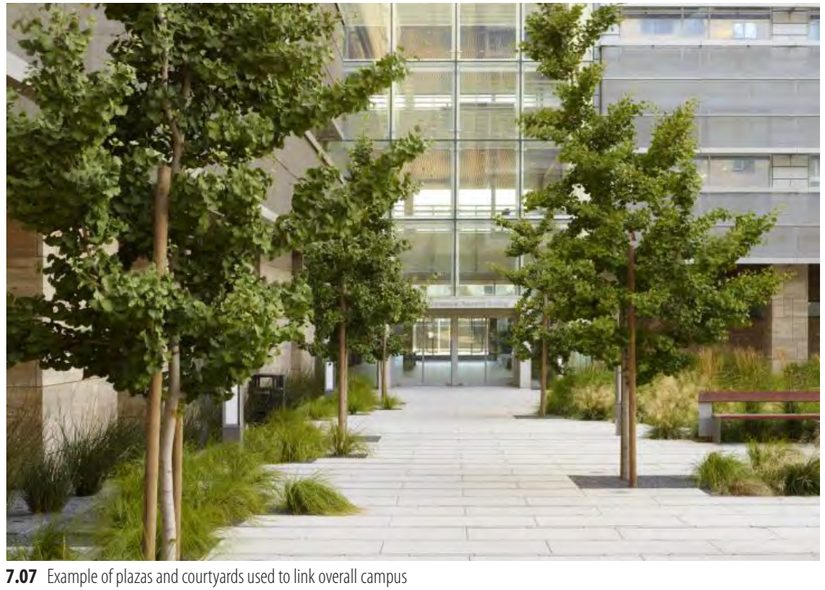
SITE PLAN



BUILDING SECTION

7.05 Connection of indoor and outdoor environments using roof gardens, courtyards, and arcades

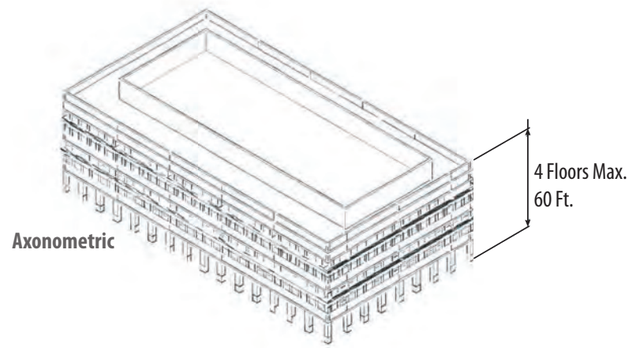
7.06 Example of connection between indoor and outdoor environments



7.07 Example of plazas and courtyards used to link overall campus

BUILDING HEIGHT DIAGRAM

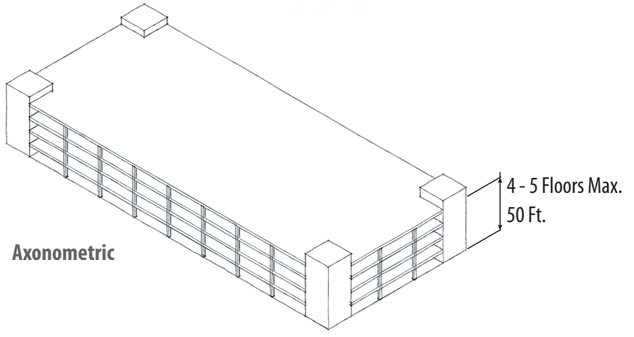
Elevation



Axonometric

PARKING STRUCTURE HEIGHT DIAGRAM

Elevation



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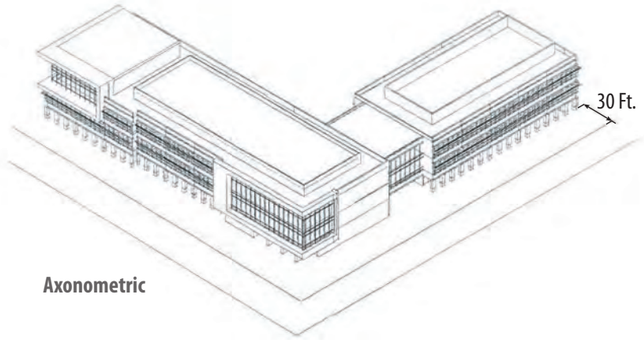
BUILDING SETBACK DIAGRAM

Section

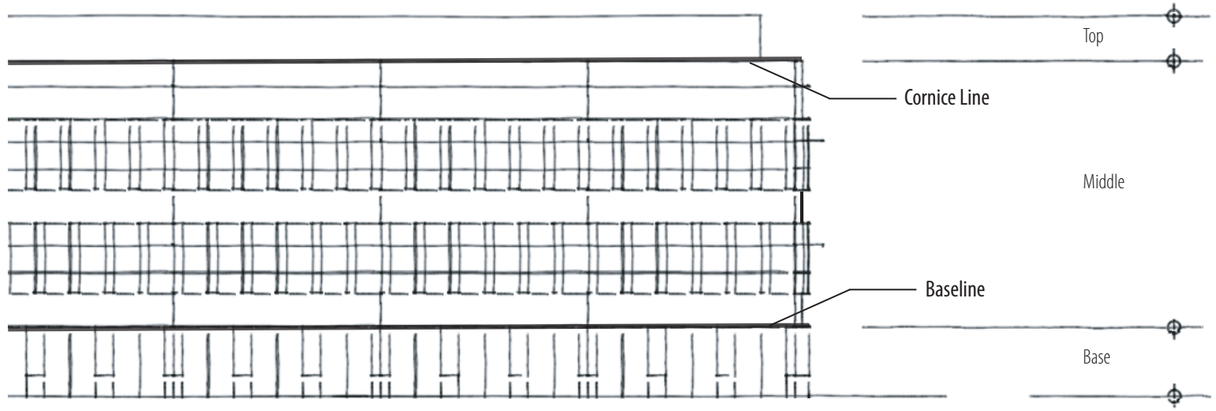


Axonometric

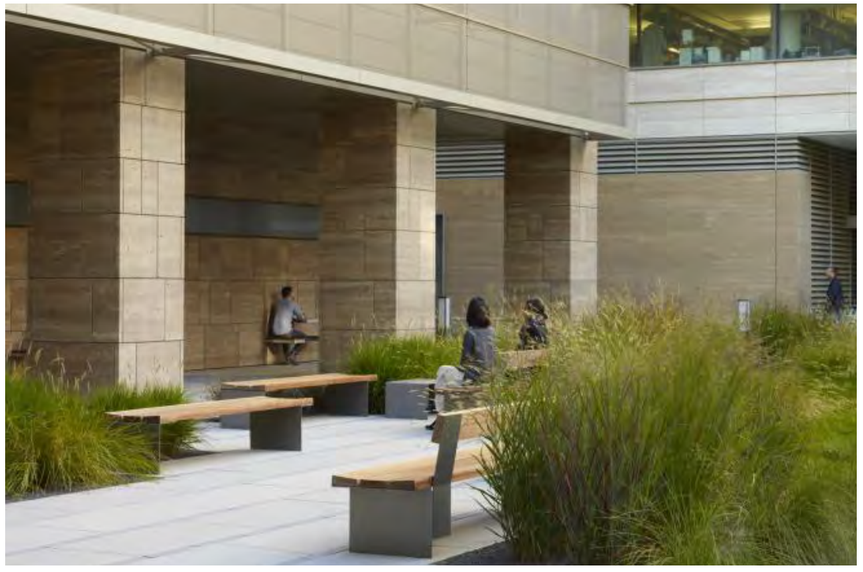
7.08 Building Height and Setback Diagrams

Another aspect of hierarchy deals with the exterior architectural expression where **the building expression is broken down into three major components; base, middle and top.** This approach gives order to the building façade as well provides a pedestrian scale that is more appealing and approachable. The base should be more articulated to further break down the scale. This can be achieved through the use of a building material that enhances modularity. The middle should be the prominent architectural expression and expansive uses of curtain wall should be avoided, however the use of large areas of glass can be used as a visual cue of entry. The top should be articulated with minimal exuberance and pitched roof forms should be avoided.

Building heights of three to four floors with the exception of mechanical penthouses best achieves this objective. However, programmatic needs may require the actual building heights to exceed four floors. For building four floors or taller, the perceived and experienced building height should be established by reinforcing a datum at the third or fourth story. Architectural elements such as a cornice or a plan setback can mark this datum and help to reduce the overall perceived and experienced building height.



7.09 Building Scale Diagram



7.10 Photos of articulated building base with arcades and courtyards

COMPONENTS

Main entrances into new developments should be clearly defined to enhance wayfinding. The location of building entries and arcades animate the campus experience. Building entrances should be clearly visible and welcoming. To further enhance the entry experience, landscaping and plazas should be appropriately scaled. These entries should provide a sense of transparency and be inviting to pedestrians. Canopies can also be used as a visual cue as well as provide shade and inclement weather protection for vehicular drop-offs.

The pedestrian experience is an important aspect of the campus environment. **Building designs should emphasize forms that shape outdoor space and promote a pleasant and visually accessible pedestrian experience.** Buildings should provide non-programmed interior and exterior spaces to provide social interaction and opportunities for knowledge sharing and discovery. Common spaces for circulation including corridors, lobbies, galleries and arcades should be designed to promote interaction and informal learning. The use of arcades that connect campus buildings and exterior pedestrian movement is encouraged. This will also aid in the scale reduction of the building and provide a more porous exterior base to the architecture.

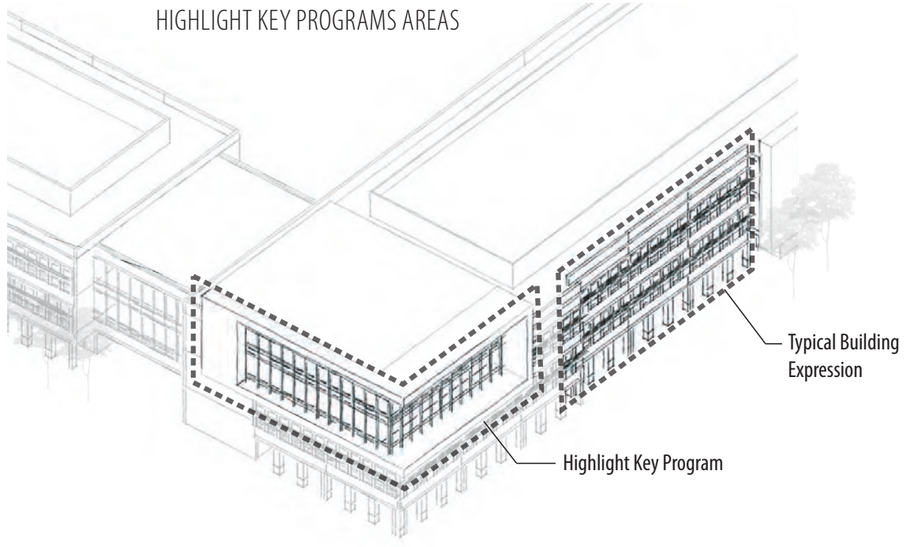
Exterior fenestrations should generally be vertical in proportion. The overall façade should be uniform with special expressions reserved for unique program elements. Horizontal ribbon windows and curtain wall facades should be avoided.

Service areas for buildings including loading docks should be integrated with the overall building design and materials. The service area should be located in alignment with the overall Campus Master Plan, minimizing vehicle and pedestrian conflicts. These areas should also incorporate screening devices to minimize the visual impact.

Vehicles are an integral aspect of campus development. Surface parking on the campus has historically satisfied all functional as well as economic needs. However, as campus growth and development continues, surface parking, existing and new, will consume valuable physical and visual real estate. For new development on campus, structured parking should be evaluated, and if determined viable, be provided.

Although no precedent exists on the campus currently, structured parking developments should be complementary to the context and follow the general building design principles outlined in these guidelines.

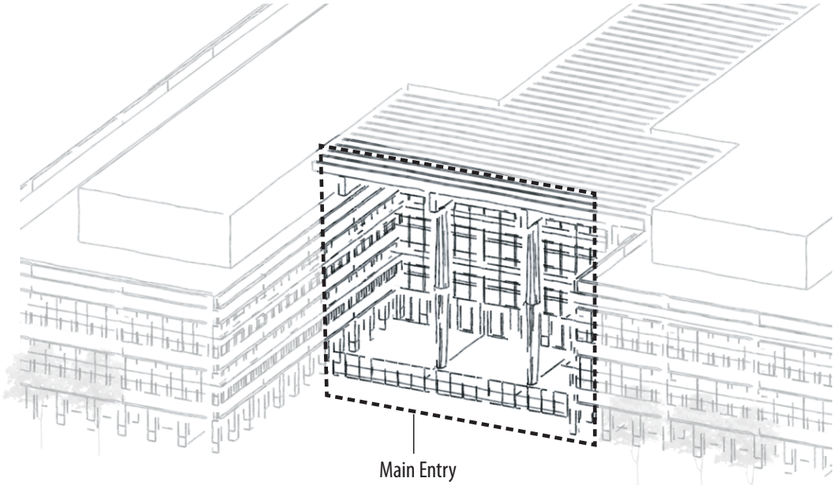
HIGHLIGHT KEY PROGRAMS AREAS



7.11 Example of highlighting building entrances and public spaces

7.12 Photo of parking structure facade

HIGHLIGHT MAJOR BUILDING ENTRANCES



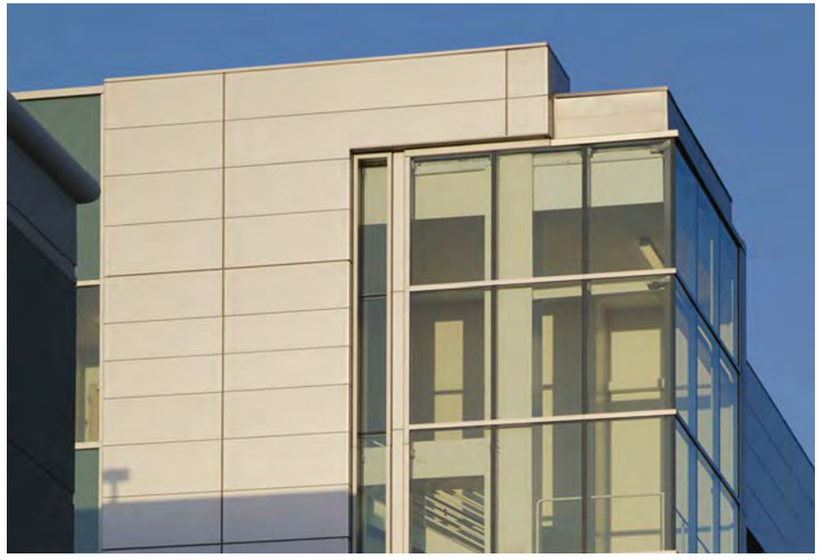
7.13 Diagram of buildings with key programmatic spaces highlighted on exterior

MATERIALS

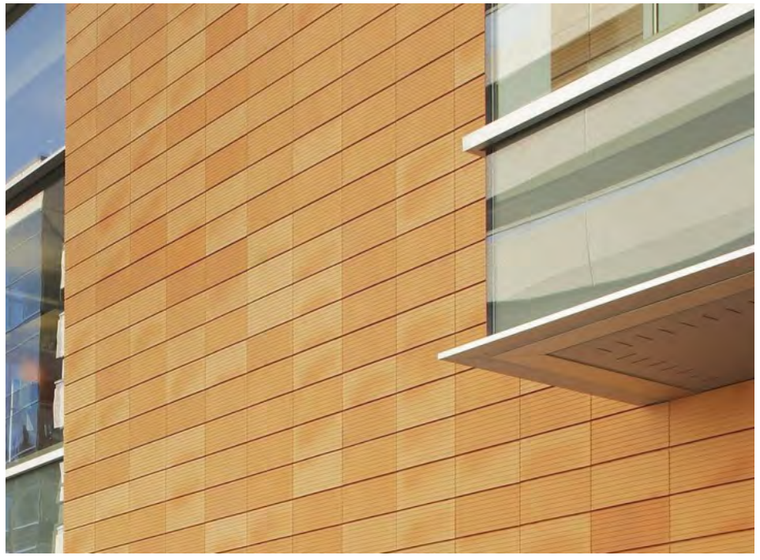
Consistent exterior cladding throughout the campus will create a sense of unity and continuity. The current campus predominantly uses concrete and curtain wall with smaller scale buildings utilizing stucco and brick. In an effort to provide a palette of continuity there should be a common building material that would consistently ground the buildings in the landscape. The architecture should be consistent with a vocabulary that compliments the natural surroundings.

Acceptable building materials should exhibit lasting, durable characteristics and ease of maintenance. They include terra cotta rain screens, architectural precast, stone (mostly as an accent or base material), aluminum mullion and panel systems, and curtain wall glazing systems. Glazing systems should be of high performance energy saving assemblies without the use of highly reflective or mirrored glass. In general, the glass should have a high visible transmittance while maximizing energy savings and should be low in color. Wood or wood veneer products should be used where feasible such as the underside of drop-off canopies to add warmth to the entry experience.

Color also plays an important part in threading a campus together. There should be a natural palette to reinforce the context. Buff, beige, and tan would be a consistent color range that would reinforce the connection to nature. Metal panel is also a good choice for accents whether it is used to highlight entrance, special features, or roof lines.



7.14 Example of Metal Panel System



7.15 Example of Terra Cotta Panel

7.16 Example of Architectural Precast Concrete

SUSTAINABILITY

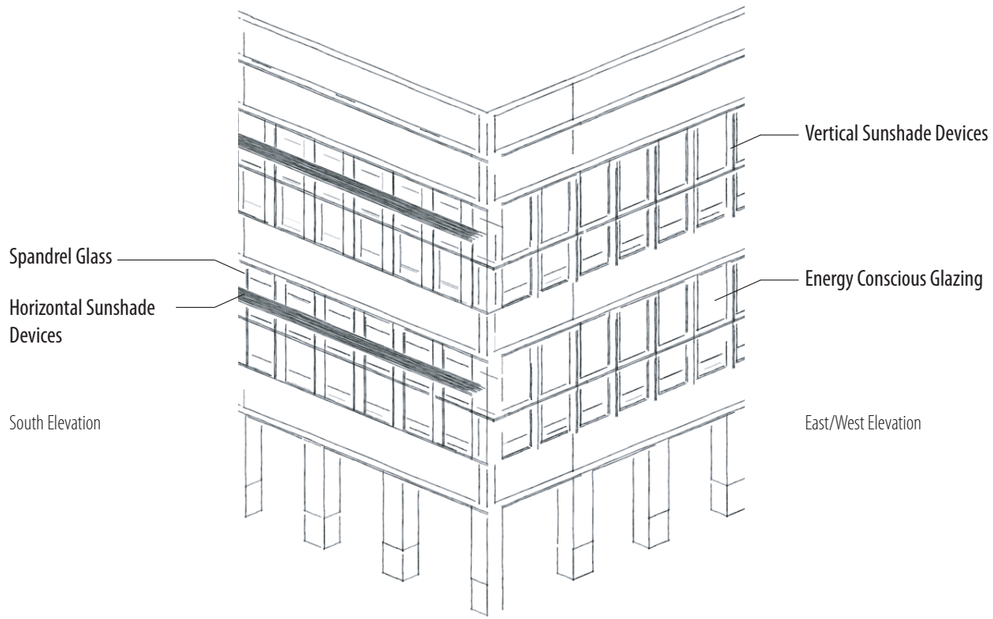
The existing hospital tower utilized concrete and highly reflective glass to address building orientation. The best energy efficient buildings utilize building orientation as the best passive means of controlling energy usage. All new buildings should orient their long faces to the south and north, however when site conditions preclude this every effort should be made to minimize the east and west exposures.

Façade openings should be shaded from direct solar exposure when appropriate. The exterior envelope of all new buildings should use horizontal sun shading devices to control the south exposures. The east and west benefit from vertical sun shading devices, however solar studies should be done to confirm the best strategies for solar control. Alternatively, deeply recessed fenestration systems could be successfully used and may also be considered. Either approach can be developed and leveraged to convey a unique architectural design expression.

The existing hospital tower could benefit from an architectural re-cladding system to greatly improve the energy efficiency of the building. A successful approach that has been used on similar projects is to develop a unitized curtain wall that could integrate sun shading systems into the fabrication that appropriately address the orientation. This approach can incorporate glazing or metal panels that would be compatible to the existing structural building system.

As outdoor rooms next to new buildings are added to the campus, an armature of canopies should be added to provide shade and protection from rain between various building programs. These should consist of a colonnade / support structure for a combination of metal and glass roofs. Where glass is used special attention should be made to provide a frit pattern that blocks 60% of the sun rays.

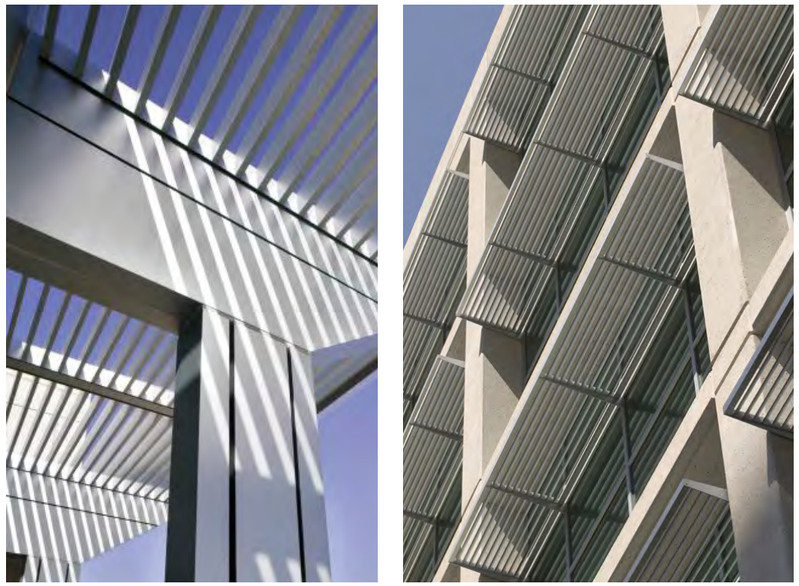
BUILDING EXTERIOR



7.17 Sustainable Design Strategies

SUNSHADE DEVICES WITH SPANDREL GLASS

7.18 Example of Horizontal Sunshade System



7.19 Examples of Exterior Sunshade Devices

LANDSCAPE DESIGN GUIDELINES

DESIGN PRINCIPLES

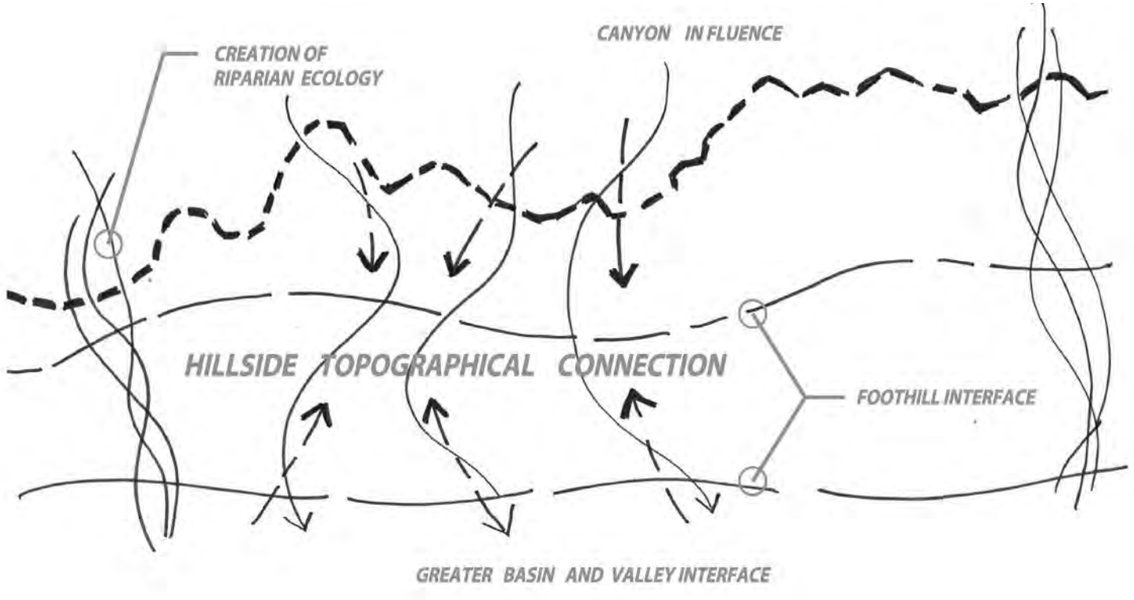
General
With healthful living as one of Olive View Medical Center's goals, the landscape must be inviting, comfortable, and accessible. The open space should have a hierarchy, ranging from a large scale park for recreation, most likely set under the Edison Easement, to more intimately scaled gardens and trails for use by the campus community. Designed to accommodate both individuals and groups, the gardens can take many forms: wellness gardens with varying themes, recreation and parcourse paths for exercise, rehabitation gardens for use by therapy departments, and outdoor spaces for gathering and dining. The character of the gardens should be linked to the selected site strategy, reinforcing institutional identity, wayfinding, and promoting engagement with the outdoors.

Sustainability
Sustainability will be addressed throughout the site, using Best Practices to manage stormwater, reduce the heat island effect, provide climate control, and minimize potable water use in the landscape. To this end, the landscape design should focus on using canopy trees along vehicle circulation routes, permeable paving for landscape terraces and paths, emphasizing deciduous trees along southern and western building façades, and limiting the plant palette to drought tolerant, fire resistant planting. In a warming climate, the use of trees or trellises to provide shade is paramount.

Resiliency
Because of its unique site, at the edge of the San Gabriel Mountains, the Olive View campus is threatened by both fire and flood. Fire resistant plants should be used to help create a buffer between the mountains and the facility, and care should be taken to maintain appropriate distances between canopy trees and building façades. Flooding and debris flows, typical of the Southern California chaparral ecology, must also be addressed through grading and infrastructure.

Viability
The site poses many challenges including inadequate organic matter and topsoil, excessive compaction, lack of permeability, and high heat, among others. In order to be a sustainably viable landscape, specific techniques should be implemented as part of site development: structural soil should be used when trees are set in paved zones, subsurface drainage provided to all tree wells, engineered soil used to create topsoil, bioswales and constructed wetlands strategically located to channel water.

A Healing Campus that Heals the Land
The confluence of the site's intrinsic physical attributes create a natural setting for a healing campus that brings together sustainable strategies for development and delivers wellness to the community and its patrons. These sustainable strategies are elements integral to the landscape design supporting the Olive View campus through the Nature's Edge planning concept.



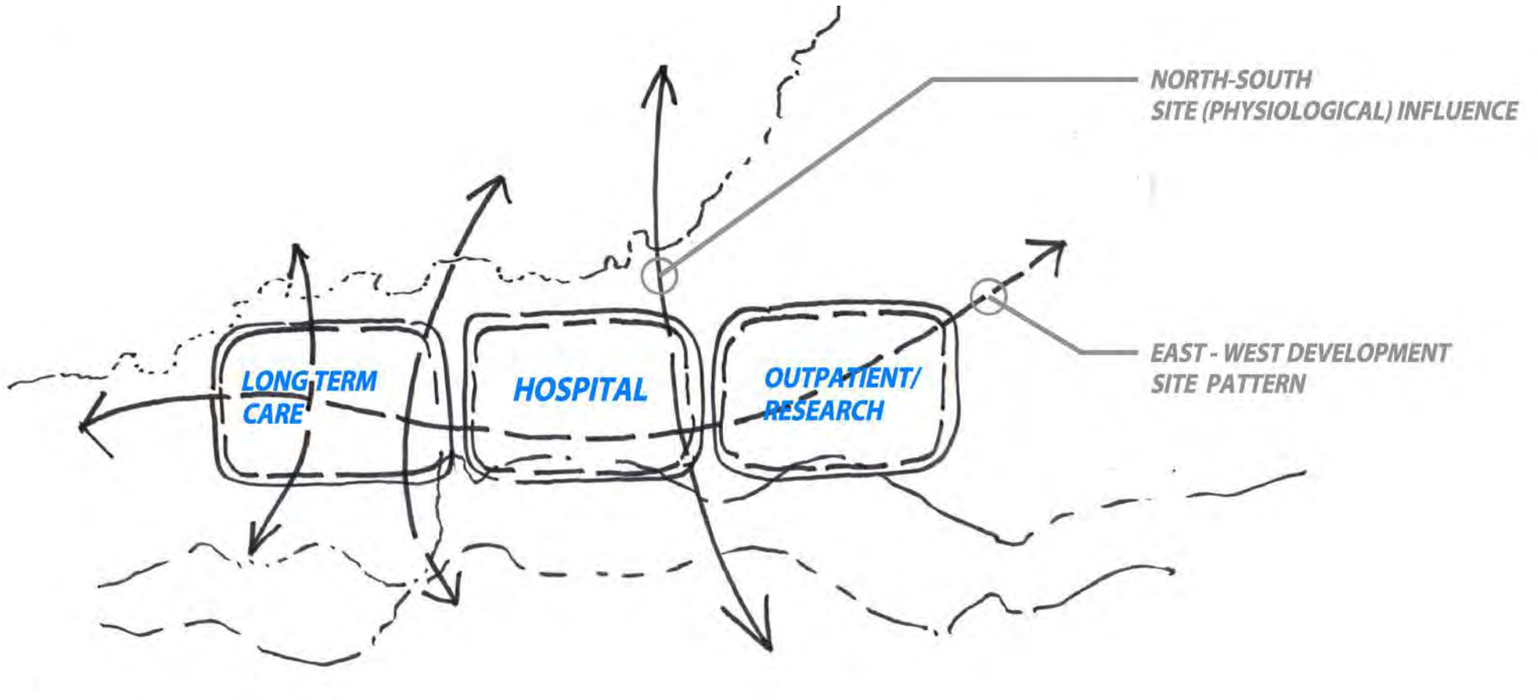
7.20 Landscape Concept Design

FRAMEWORK

The landscape planning goal for the OVMC campus is to create a conceptual framework and establish design guides intended to create opportunities in site planning and landscape design that will best provide visual and experiential coherence in the future developed site. These guidelines follow sensibilities considering the site's hillside context and natural landscape patterns. The following landscape design guidelines provide parameters in how building and outdoor spaces may be organized through a system of garden trails, how useful outdoor spaces for recreation and circulation can be identified, with clear wayfinding and linkages, and programmed site amenities that create a healthcare neighborhood that can be shared by campus patients and staff, visitors, and the neighboring community.

The landscape design guidelines focus on the ideals of site sensitive landscape that will sustain the land and its future development.

- Larger scale plantings should be used along street setbacks and vehicular entrances.
- Planting should help easily identify building entrances and assist in wayfinding at open green areas.
- Important street intersections and vehicle drop-off zones should have larger scale planting including gateway trees and specific planting entry palette for wayfinding and orientation.
- Larger canopy or gateway trees should be used to accent and provide prominence for major access points for building entrances and transition to outdoor spaces and to create hierarchy and differentiate between adjacent outdoor spaces.



7.21 Landscape Development Framework Diagram

LANDSCAPE SITE PLAN

(Original) SmithGroup JJR, 2015, (Updated) Perkins Eastman 2019

7.22 Landscape Site Plan

7.23 Examples of gardens

COURTYARD GARDENS

The design will include outdoor healing gardens for hospital use, at the same time providing some garden areas that will be connected to a system of garden trails and will be accessible for community use.

Therapeutic gardens should include herbs and sensory plants for both the young and for adults. Memory gardens that contain intimate seating spaces and that invite reflection and meditation will also create new habitats and will celebrate the return and the renewal of local flora and fauna.

Gathering spaces, both private and open, will tie the landscape together and connect the outdoors to the buildings and the community to nature.

COURTYARD GARDENS

Special paving is encouraged to provide visual interest and define entrance zones at driveways and access drives.

Incorporate landscape art or playful design elements using large scale games, bocce courts, and functional art pieces as part of the Campus Art program.

Courtyards and gathering places should exhibit an interplay of architecture and landscape, emphasize indoor-outdoor relationships, views, and frame the landscape.

7.24 Examples of courtyards

PUBLIC SPACES

Outdoor public and campus landscape create opportunities for multi use space, community engagement and recreation.

7.25 Examples of public spaces

ENTRY AND PARKING

Landscaping should be used to create screens and buffers for parking areas, storage areas, trash/recyclable collection enclosures and provide separations between uses or activities.

Landscaping may also be used to soften the appearance of buildings and screen undesirable views from the public and surrounding uses. Visual screens, buffers from polluted air, such as from loading areas, service and parking yards, should be used with planting of vines on structures and naturally vertically or tall growing hedge plants.

Pedestrian friendly lanscaping should be integrated into parking areas.

All parking areas should have sufficient shade through landscape trees. Trees shall be planted and maintained in all parking lots at a ratio of 1 tree for every 4 parking spaces (clustered or grouped). The trees shall be placed throughout the parking lot in a manner that will ensure that all portions of the lot receive tree shade. Trees shall be of varieties that provide a broad canopy from the approved local and indigenous palette.

Landscape screening should be provided between parking lot and street right-of-way. Landscaping shall be designed and maintained for partial screening of vehicles to a minimum height of 3 feet, measured from the finished grade of the parking lot. Screening materials may include any combination of plant materials, earthen berms, solid masonry walls, raised planters, or other screening devices that complement the overall site landscape.

Sufficient landscape coverage for parking lots should be a minimum of 5 percent of the parking lot area covered with landscape when there are more than 20 parking spaces.

Parking lot design should include water quality stormwater facilities as part of the landscape design.

Large surface parking areas should be divided through the use of canopy trees and landscape improvements to reduce heat gain and provide landscape design opportunities as part of parking lot design.

Parking directly off building entrance drives and internal roads shall be kept to a minimum and restricted to emergency, accessible, and short-term parking only.

Fencing, gates, and similar outdoor structures and site furnishings should be designed to complement the architectural character of the surrounding buildings.

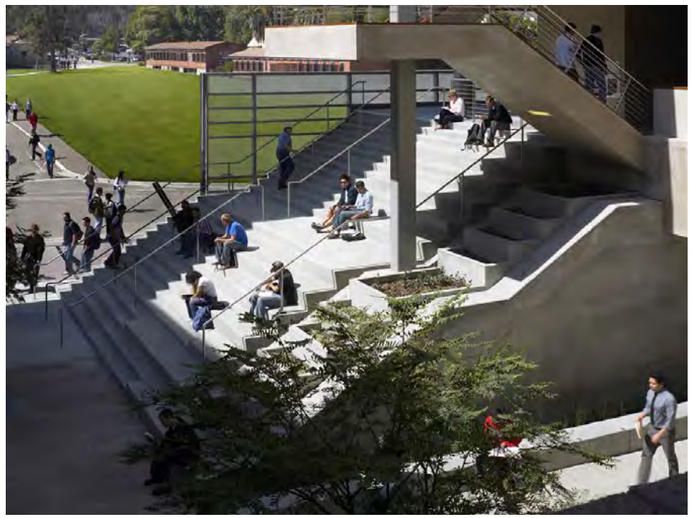
Entrance drives and roadways, where pavement exceeds two lanes, should have a minimum 10-foot wide landscape median.

All driveways and access drives shall adhere to sight visibility requirements.

Sidewalks and exterior walkways near buildings should be wide enough to allow two wheelchairs to pass easily.

Parking structures shall have a minimum landscape setback of 15 feet along all street frontages and next to adjacent structures.

7.26 Examples of parking structure landscape design



7.27 Examples of special outdoor spaces

SPECIAL PLACES

In order to serve a diverse set of needs and to create unique and dynamic spaces, the Master Plan will:

Identify courtyard opportunities around or near where existing mature trees exhibit significant health to encourage existing tree protection and preservation.

Design spaces for children and adults for therapeutic significance that stimulates the senses, provide for play or relaxation, rest and respite, conversation, or simply a place to sit.

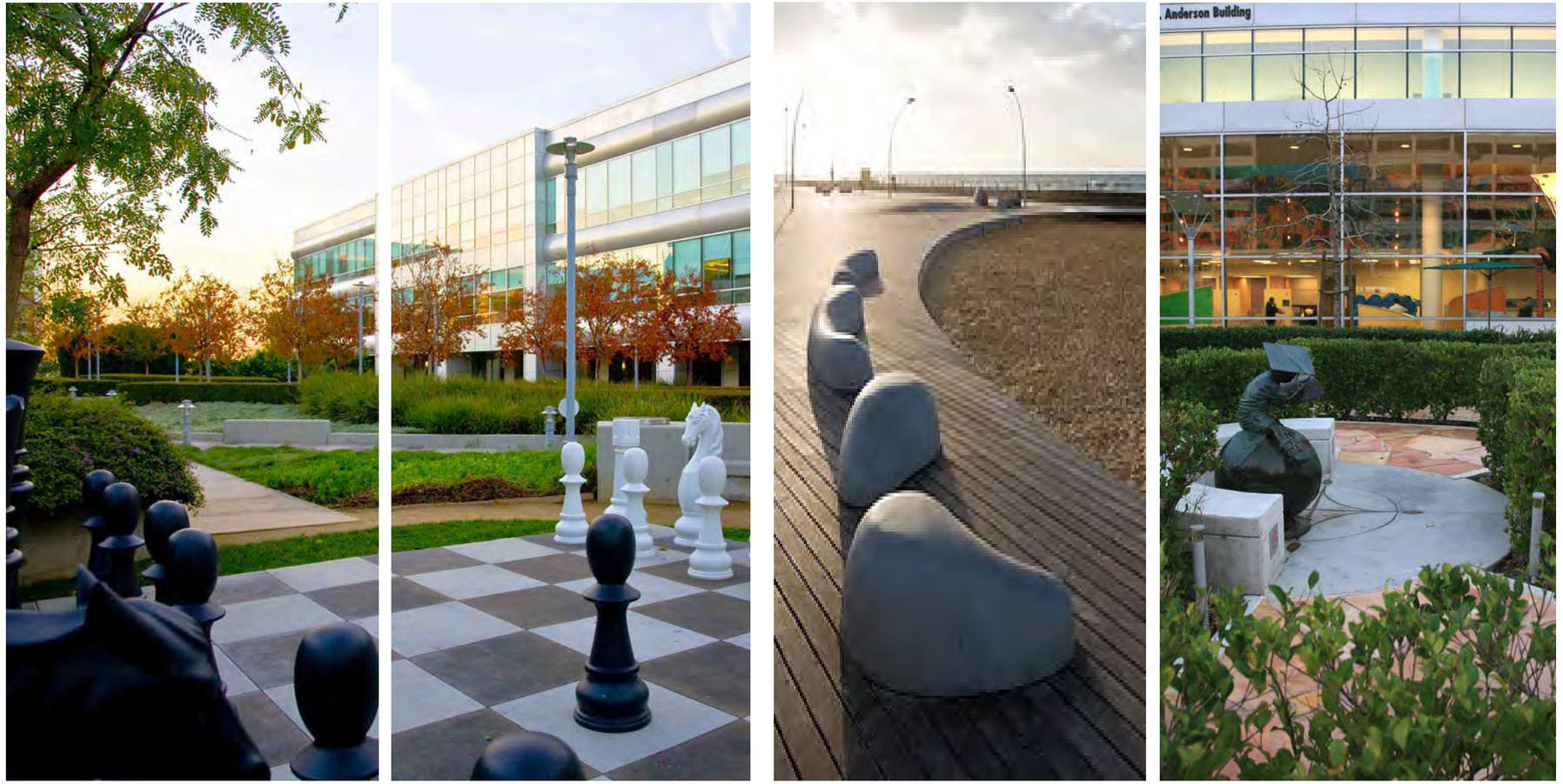
Courtyards should be provided that are specific, welcoming and accommodating to children, families, the elderly and individuals with mobility and medical needs.

COMMUNITY ART

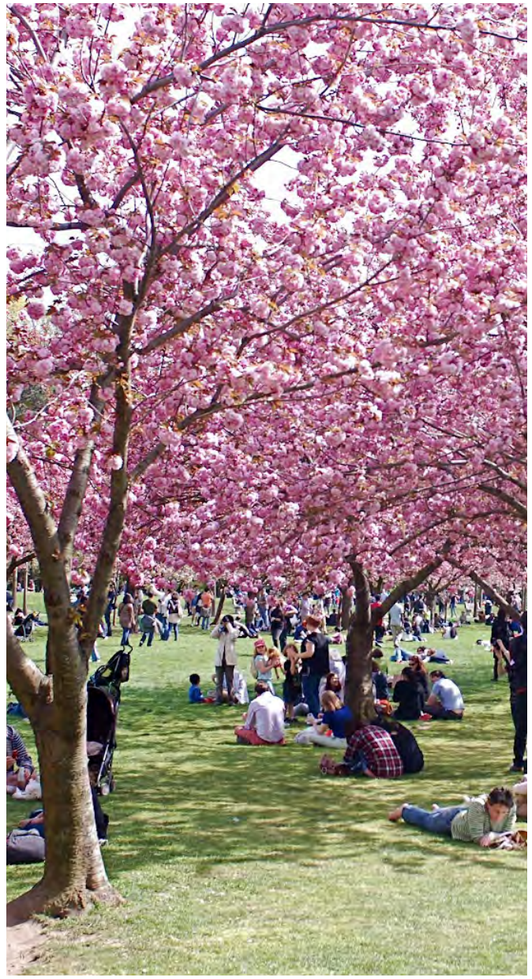
The Campus Art Program will:

Incorporate art or playful design elements using large-scale games, bocce courts, and functional art pieces that will be integrated into the landscape.

Display permanent art pieces within the Sculpture Gardens, to be enjoyed by visitors and hospital residents and will also provide opportunities for new and rotating art pieces and displays, keeping a changing perspective and a fresh vision for campus art. This will engage community members and provide a possibility for public art involvement through fairs, markets, and temporary or rotating campus art exhibits.



7.28 Examples of integrating artwork with landscape



7.29 Example of open space

SUSTAINABLE PLANTING

The planting guidelines in this document include plant palettes of California native species that are significant elements of the restoration process and are key design features of all the open space, streetscape, and campus courtyards. The plant palette lists are representative of but not exhaustive listings of planting species that may be used as a basis or beginning point for planting design. Plants shown are appropriate in most cases but should not be used as substitute for a site or area specific planting design based on actual weather conditions, sun exposure and shading, use and aesthetics of the final landscape. All selected planting should be confirmed appropriate to the micro climate and function of the space. All plants should be checked for updates on California Invasive Plant Council's (CAL-IPC) list of invasive species.

Use tree canopies to create different outdoor characters for special places including species color, mature growth characteristics for appropriate location, and spacing to enhance the varying quality and experience of the outdoor environment.

Planting selection that help minimize excessive maintenance and reduce hardscape repair costs should include selection of non-invasive root systems at paved areas, especially trees which will not lift the hardscape (pavement), and plantings with little leaf, flower, or fruit drop adjacent to paved surfaces.

Use plant species that require little pruning to achieve the desired landscape effect; shrubbery should not be pruned in a manner that will create a "box-like" appearance. Other attributes include those that are pest and disease resistant to the greatest extent possible, do not require hand watering (can be irrigated through automated systems), suitable to soil conditions without extensive amendment or feeding, long-lived and hardy, limiting the need for frequent replacement.

Shrubs should be conceptually massed in large drifts to create enclosure and unity. A limited variety of shrub species should be used to reduce the disorganizing effect that results from using many colorful, but visually confusing combinations of varieties.

Constraint must be exercised in utilizing shrubs for building foundation planting to allow for access, maintenance, and window clearance.

Pedestrian scale plantings should prevail in courtyards and walkways.

Mass plantings and larger tree canopies should be provided and maximized around utility facilities such as Materials Management and the Central Plant. Mass plantings around these facilities will help to minimize air pollution from mechanical systems and mitigate poor air quality.

Avoid noxious weeds and those that are identified to be invasive species in California. Select non-poisonous plant species where accessible to children.

In areas requiring maintenance of sight lines or for security along paths, select plantings that are low growing or with a slow growth rate, open growth habit, or use trees with high tree canopy and clear trunk height. Provide sufficient openness in landscape planting at building perimeters and site areas with low pedestrian traffic to eliminate hiding places and enhance perceived security.

SUSTAINABLE PLANTING

Water conservation is an important factor in plant selection. Strategies include use of drought tolerant planting, use of native or naturalized plantings at interfaces with natural space, grouping plantings which require more water in the high use/high visibility areas, and use of plantings with lower water requirements in other less visible locations, limiting use of turf to reduce excessive water consumption.

Identify and create a landscape mitigation plan that includes re-vegetation areas, identification of protected open spaces, while also providing educational and recreational opportunities within the mitigation zones.

Maximize the planting of native species that are adapted to the healthcare campus landscape due to their general ability to survive long periods of drought and significant rainfall versus non-native species. Native plant species help keep the local ecosystem in balance through their support of indigenous, co-evolved insect populations which support local bird populations and help to keep foreign insect infestations at bay.

Tree plantings should be selected and organized in conjunction with building canopies and outdoor overhead structures and around walkways to maximize shading particularly at open plazas and circulation paths between buildings and throughout the site.

Facilitation of maintenance operations should include provision of access to plantings and irrigation systems through hardscape areas for maintenance and repair, facilitate easy moving by driven machines, including easy access, layout of hardscape areas to facilitate regular maintenance activities such as machine sweeping and cleaning, and service cart access for trash collection.

Maintenance requirements should be weighed against other factors, such as desired summer shade, winter sun (leaf drop) or vine-covered walls, as a campus design treatment in specific outdoor areas and planting types suitable for defined level and availability of regular maintenance.

7.30 Example of sustainable planting

Acacia greggii

Aesculus californica

Arbutus menziesii

Juniperus californica

Pinus edulis

Platanus racemosa

Prosopis glandulosa

Quercus Spp.

Sambucus nigra

Salix lasiolepis

Cercis occidentalis

Acer macrophyllum

7.31 Plant Palette - Trees

PLANT PALETTE

TREES

Acacia greggii	Catclaw Acacia
Acer macrophyllum	Bigleaf Maple
Aesculus californica	California Buckeye
Alnus rhombifolia	White Alder
Fraxinus dipetala	California Ash
Juglans californica	California Walnut
Juniperus californica	California Juniper
Lyonothamnus floribundus	Santa Cruz Islant Ironwood
Olea europaea	Olive Tree
Pinus edulis	Pinyon Pine
Populus fremontii	Fremont's Cottonwood
Prosopis glandulosa	Honey Mesquite
Prunus Spp.	Prunus
Quercus Spp.	Oak
Salix lasiolepis	Arroyo Willow
Sambucus Mexicana	Mexican Elderberry
Sequoia sempervirens	Coast Redwood
Torreya californica	California Nutmeg
Umbellularia californica	California Laurel

Firewise Trees

Arbutus menziesii	Pacific Madrone
Cercis occidentalis	Western Redbud
Quercus agrifolia	Coast Live Oak

Bioswale Trees

Platanus racemosa	California Sycamore
Chilopsis linearis	Desert Willow

SHRUBS

Abutilon palmeri	Palmer's abutilon
Adenostoma fasiculatum	Chamise
Agrostis pallens	San Diego Bentgrass
Amelanchier utahensis	Utah Service Berry
Aquilegia formosa	Crimson Columbine
Arctostaphylos Spp.	Manzanita
Caesalpinia gilliesii	Bird of Paradise Shrub
Calliandra eriophylla	Fairy Duster
Calycanthus occidentalis	Spice Bush
Carpenteria californica	Bush Anemone
Comarostaphylis diversifolia	Summer Holly
Ephedra californica	Mormon Tea
Ericameria nauseosa	Chamisa
Festica Spp.	Fescue
Forestiera pubescens	Stretchberry
Galvezia speciosa	Firecracker
Krascheninnikovia lanata	Winterfat
Larrea tridentata	Creosote Bush
Lepechinia calycina	Pitcher Sage
Lycium fremontii	Fremont's Desert Thorn
Rhamnus Spp.	Rhamnus
Rhus ovata	Sugar Bush
Ribes aureum	Golden Currant
Solidago californica	California Goldenrod
Woodwardia fimbriata	Giant Chainfern

Carpenteria californica

Adenostoma fasiculatum

Woodwardia fimbri

Amelanchier utahensis

Aquilegia Formosa

Ephedra californica

Galvezia speciosa

Caesalpinia gilliesii

Calliandra eriophylla

Calycanthus occidentalis

Solidago californica

Lycium fremontii

7.32 Plant Palette - Shrubs

Abronia villosa

Baileya multiradiata

Achillea millefolium

Lobelia cardinalis

Romneya coulteri

Phacelia campanularia

Ericameria laricifolia

Nemophila menziesii

Viguiera laciniata

7.33 Plant Palette - Wildflowers

WILDFLOWERS

Abronia villosa	Desert Sand Verbena
Achillea millefolium	Yarrow
Asclepias eriocarpa	Monarch Milkweed
Baileya multiradiata	Deserr Marigold
Coreopsis Spp.	Coreopsis
Calochortus clavatus	Clubhair Mariposa Lily
Datura wrightii	Sacred Datura
Delphinium cardinale	Scarlet larkspur
Dodecatheon clevelandii	Padre's Schooting Star
Ericameria laricifolia	Turpentine Bush
Eustoma exaltatum	Catchfly Prairie Gentian
Layia platyglossa	Tidy Tips
Linum lewisii	Blue Flax
Lobelia cardinalis	Cardinal Flower
Mirabilis multiflora	Colorado Four O'clock
Nama hispidum	Bristly Nama
Nemophila menziesii	Baby Blue Eyes
Oenothera caespitosa	Fragrant Evening Primrose
Phacelia campanularia	Desert Bells
Romneya coulteri	Matilija Poppy
Sisyrinchium bellum	Blue-Eyed Grass
Stanleya pinnata	Desert Princesplume
Viguiera laciniata	San Diego Sunflower

BIORENTENTION & GROUNDCOVER

Most planting not listed under the bioretention category may be used as regular landscape planting and around bioretention areas. Suitability of selected bioretention plants should be checked for use on the slope side or the bottom section. The bottom section plants would require that plants are suitable for occasional flooding much more than those on the sloped sections. A close coordination of design and location of bioretention areas with site civil engineering is needed to establish a final Low Impact Development strategy through planted swales. All bioretention planting may be used in regular landscape areas but careful consideration of their excessive water requirements should be reviewed.

Bioswale

Aristida purpurea	Purple Threeawm
Artemisia 'Powis Castle'	Wormwood Artemisia
Carex Spp.	Sedge
Deschampsia cespitosa	Tufted Hairgrass
Eleocharis Spp.	Common Spikerush
Epilobium densiflorum	Denseflower Willowherb
Heuchera Spp.	Alum Root
Hypericum anagalloides	Tinker's Penny
Juncus patens	California Gray Rush
Leymus condensatus	Canyon Prince Wild Rye
Mimulus Spp.	Scarlet Monkey Flower
Muhlenbergia rigens	Deer Grass
Myrica californica	Pacific Wax Myrtle
Venegasia carpesioides	Canyon Sunflower

Groundcover

Adiantum capillus-veneris	Southern Maidenhair Fern
Cotoneaster Spp.	Cotoneaster
Dudleya caespitosa	Coast Sudleya
Fragaria chiloensis	Sand Strawberry
Nassella pulchra	Purple Needlegrass
Phyla nodiflora	Lippia
Polystichum munitum	Western Sword Fern

Leymus condensatus

Muhlenbergia rigens

Epilobium densiflorum

Nassella pulchra

Carex Spp.

Artemisia Spp.

Juncus patens

Adiantum capillus-veneris

Eleocharis Spp.

Mimulus Spp.

Hypericum anagalloides

Cotoneaster Spp.

7.34 Plant Palette - Bioretention and Groundcover

Anemopsis californica

Fremontodendron californicum

Epilobium canum

Encelia californica

Eschscholzia californica

Heteromeles arbutifolia

Heuchera Spp.

Lupinus Spp.

Symphoricarpos albus

Rosa californica

Opuntia x vaseyi

Mahonia aquifolium

7.35 Plant Palette - Firewise

FIREWISE

Anemopsis californica	Yerba Manza
Baccharis pilularis	Coyote Brush
Ceanothus sp.	California Lilac
Cercocarpus betuloides	Mountain Mahogany
Encelia californica	Coast Sunflower
Epilobium canum	California Fuchsia
Eschscholzia californica	California Poppy
Fremontodendron californicum	Flannel Bush
Heteromeles arbutifolia	Toyon
Heuchera Spp.	Coral Bells
Justicia californica	Chuparosa
Lupinus Spp.	Lupine
Mahonia aquifolium	Oregon Grape
Mimulus Spp.	Monkey-flower
Opuntia x vaseyi	Vasey's Prickly Pear
Rosa californica	California Wild Rose
Salvia Spp.	Sage
Symphoricarpos albus	Snowberry
Trichostema lanatum	Woolly Blue Curls

PLANTING ZONES

FRAMEWORK PLAN

The planting of natives that differentiate and define spaces is evident in the landscape plan. This focus on California natives is significant both aesthetically and sustainably, creating educational opportunities throughout the site and returning habitat to an ecologically valuable piece of land.

Protection from fire will be implemented through firewise planting methods, deterring or mitigating the effects of wildfire with the careful design and selection of plants. Bioswales and riparian vegetatio will promote the capture and filtration of water as it flows through the tributaries of the surrounding mountains and into the site, returning precious wate to the ground.

The use of an almost entirely native plant palette is bold in its cultural significance, making a visual statement that places the campus development of high importance on sustainability, and at the same time, advocating its subtle but crucial contribution t the healing and the reparation of the land.

SOUTHWEST TO NORTHWEST AND NORTHEAST TO SOUTHEAST OAK WOODLAND and mixed Chaparral Sagescrub recreate the Valley and Foothill Woodland ecology, establish a naturalistic character at the eastern and western site edges, and serve as a wind and fire break.

STRANDS OF RIPARIAN TREES ARE USED AT CANYONS WITHIN 30' - 300' OF THE CLEARANCE ZONE for fire modification beyond the northern most street trees with A foregound of groundcover and coastal sage scrub planting.

GROVES OF RIPARIAN TREES (FOR BIORETENTION) AND MEADOWS OF CALIFORNIA NATIVE WILDFLOWERS create a natural campus edge at Olive View Drive.

HIERARCHY OF TREE GROUPINGS BY COLOR, CANOPY, AND FORM create the strrecape identity, order, and general wayfinding throught vegetation.

7.36 Landscape Design Framework Plan

(Original) SmithGroup JJR, 2015, (Updated) Perkins Eastman 2019

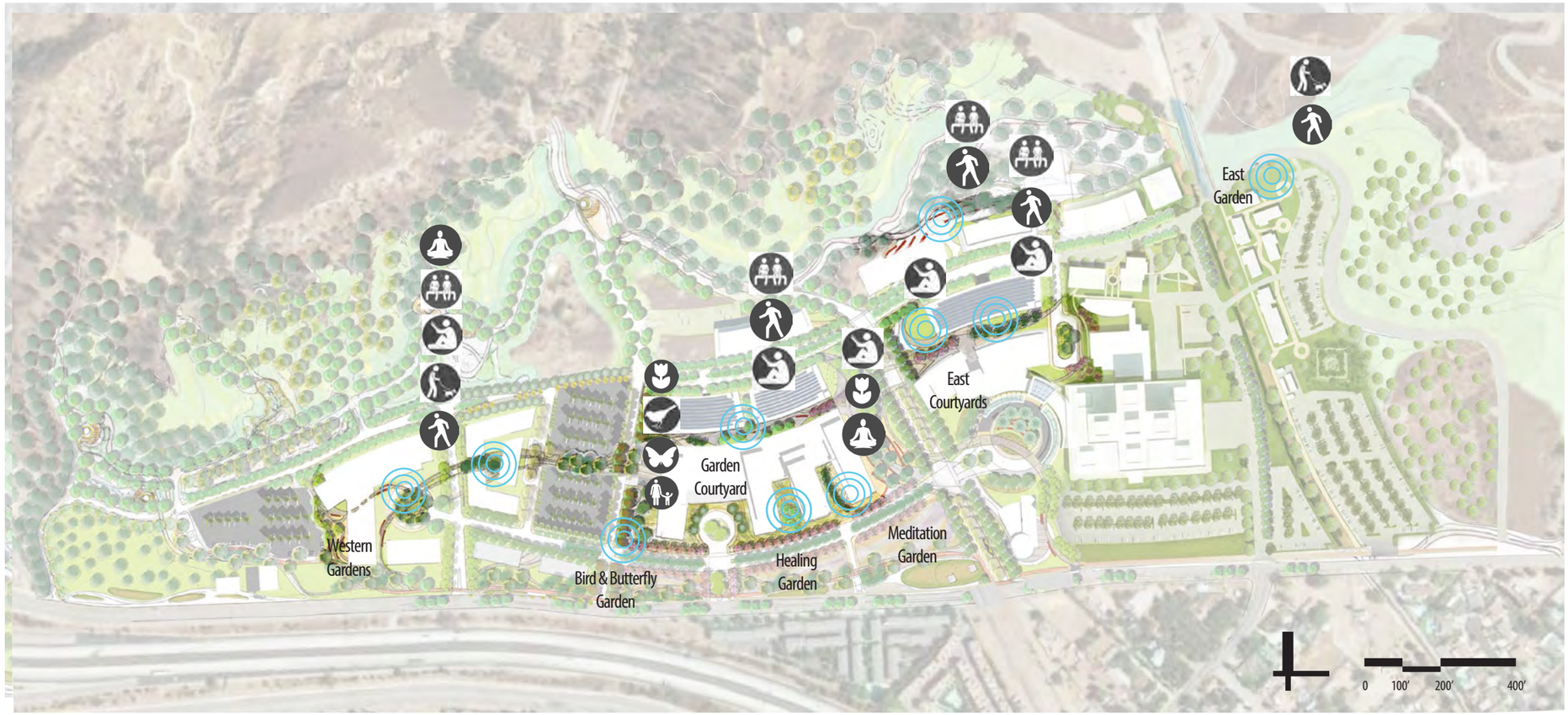
OPEN SPACE

PROGRAM/PLANTING ZONES

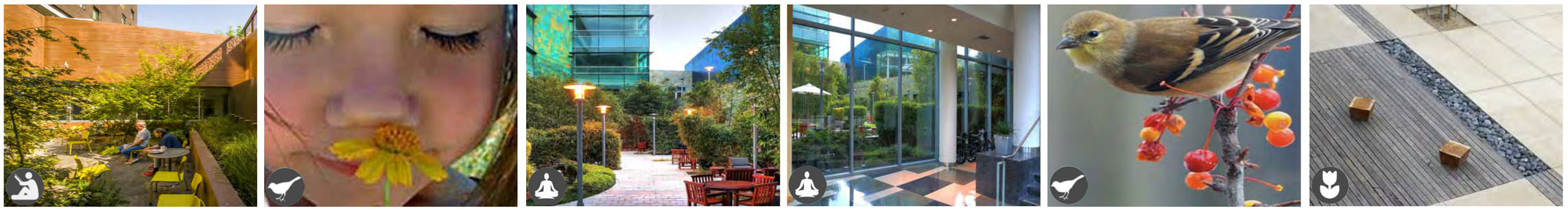
Healing Gardens

Courtyards and the connecting landscapes that tie them together are each unique telling their own story and creating a sense of place and atmosphere for the visitor.

People may gravitate to their favorite courtyard or discover new and compelling spaces as they return to explore the campus and it's collection of gardens, outdoor seating rooms, and community gathering spaces.



(Original) SmithGroup JJR, 2015, (Updated) Perkins Eastman 2019



7.37 Open Space Program - Healing Gardens

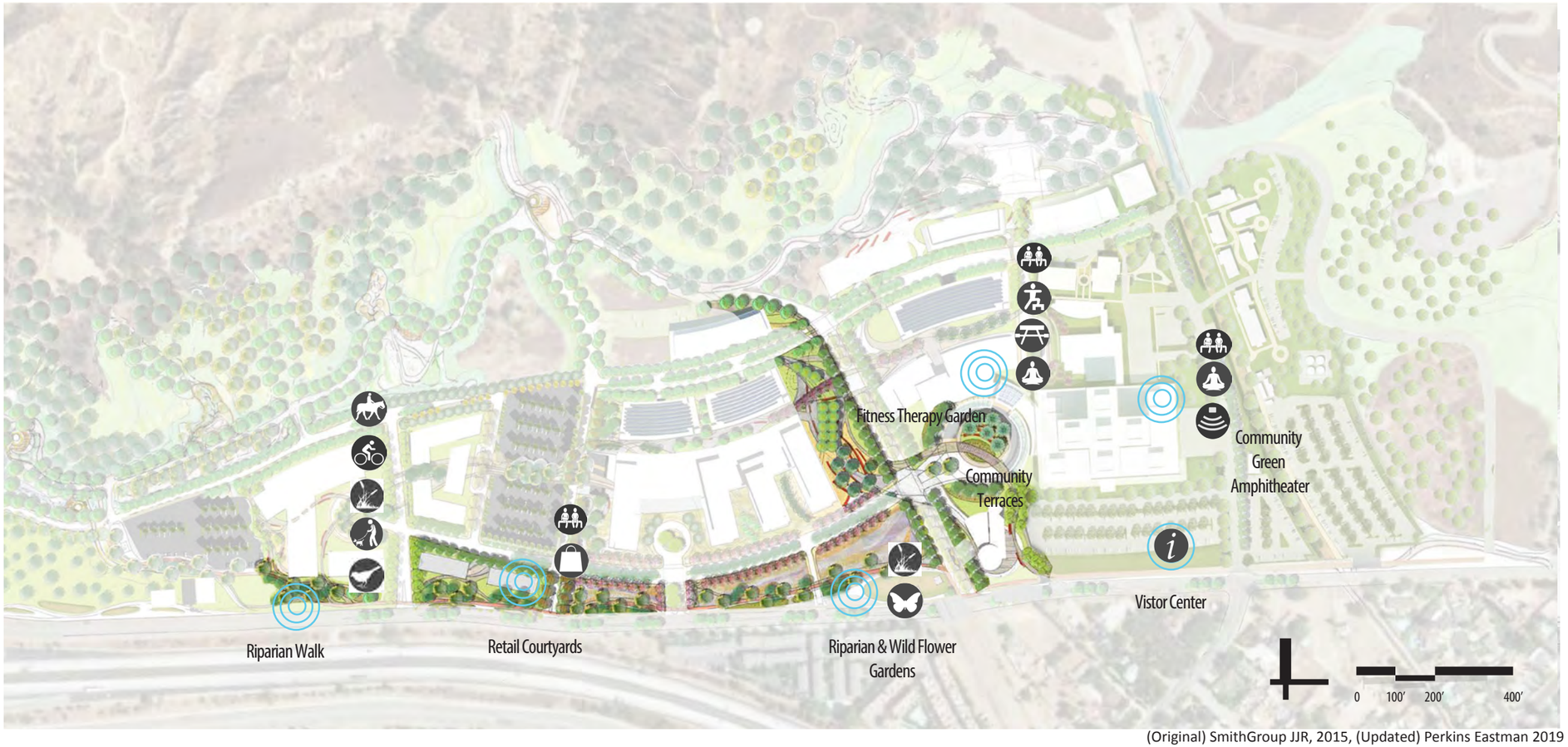
PROGRAM/PLANTING ZONES

Community Open Spaces

The landscape façade of the campus is welcoming with vivid swaths of wildflowers that invite the community and visitors to the campus with their spectacular play of seasonal colors. Just as poppies, lavender, and sage invite birds and butterflies, they will also engage people as they enter the site, encouraging health, play, and recreation.

This zone contains a large section of bike, equestrian, and walking trails for community engagement.

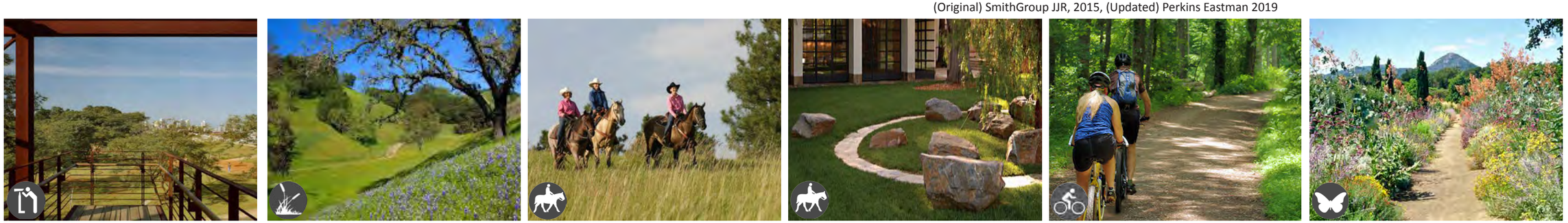
Within healthcare amenities are opportunities for outdoor fitness, retail, and courtyard.



(Original) SmithGroup JJR, 2015, (Updated) Perkins Eastman 2019

7.38 Open Space Program – Community Open Space

(Original) SmithGroup JJR, 2015, (Updated) Perkins Eastman 2019



7.39 Open Space Program - Recreation and Restoration

PROGRAM/PLANTING ZONES

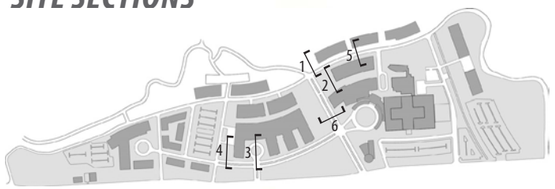
Recreation and Restoration

Strong connections to the existing open space along with restored and revegetated native areas will heal the land and will also provide the community with access to a wilderness experience in their own neighborhood.

Ecological communities will return and natural habitats will flourish creating educational, recreational, and environmental value and integrity.

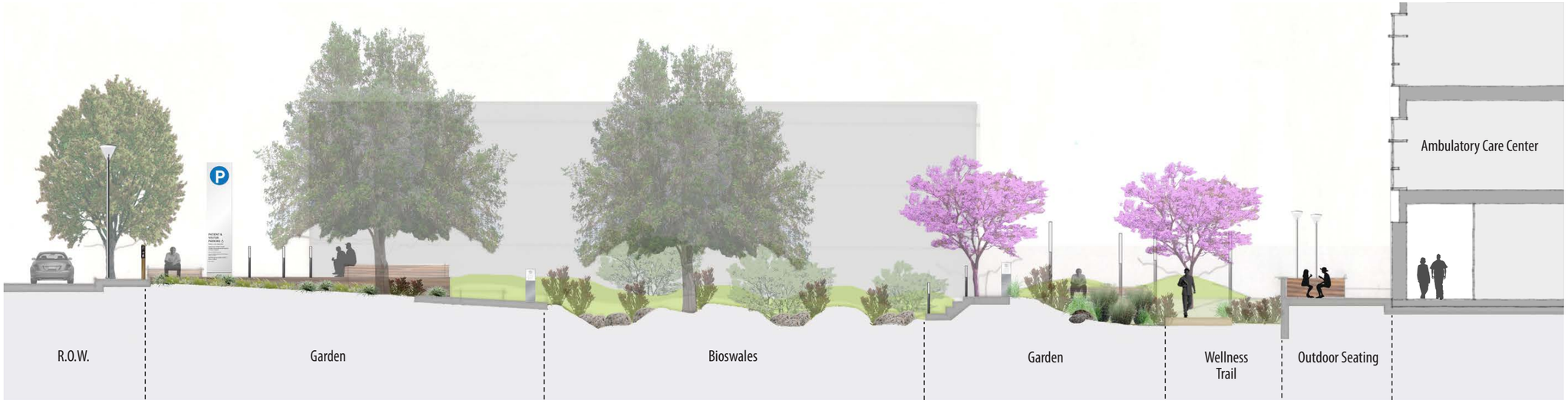
This zone addresses this connection by integrating firewise planting in the restoration of naturalized areas that surround the development.

SITE SECTIONS



7.40 Key Plan

7.41 Site Section 1 - UCLA Research Courtyard



7.42 Site Section 2 - Ambulatory Western Gardens

SITE SECTIONS

7.43 Site Section 3 - Hospital Promenade and Drop-off

7.44 Site Section 4 - Bird and Butterfly Garden - West Emergency/Hospital

STREETSCAPE

7.45 Example of shared pathways

Important street intersections, vehicle drop-off zones should have larger scale planting including gateway trees and specific planting entry palettes for wayfinding and orientation.

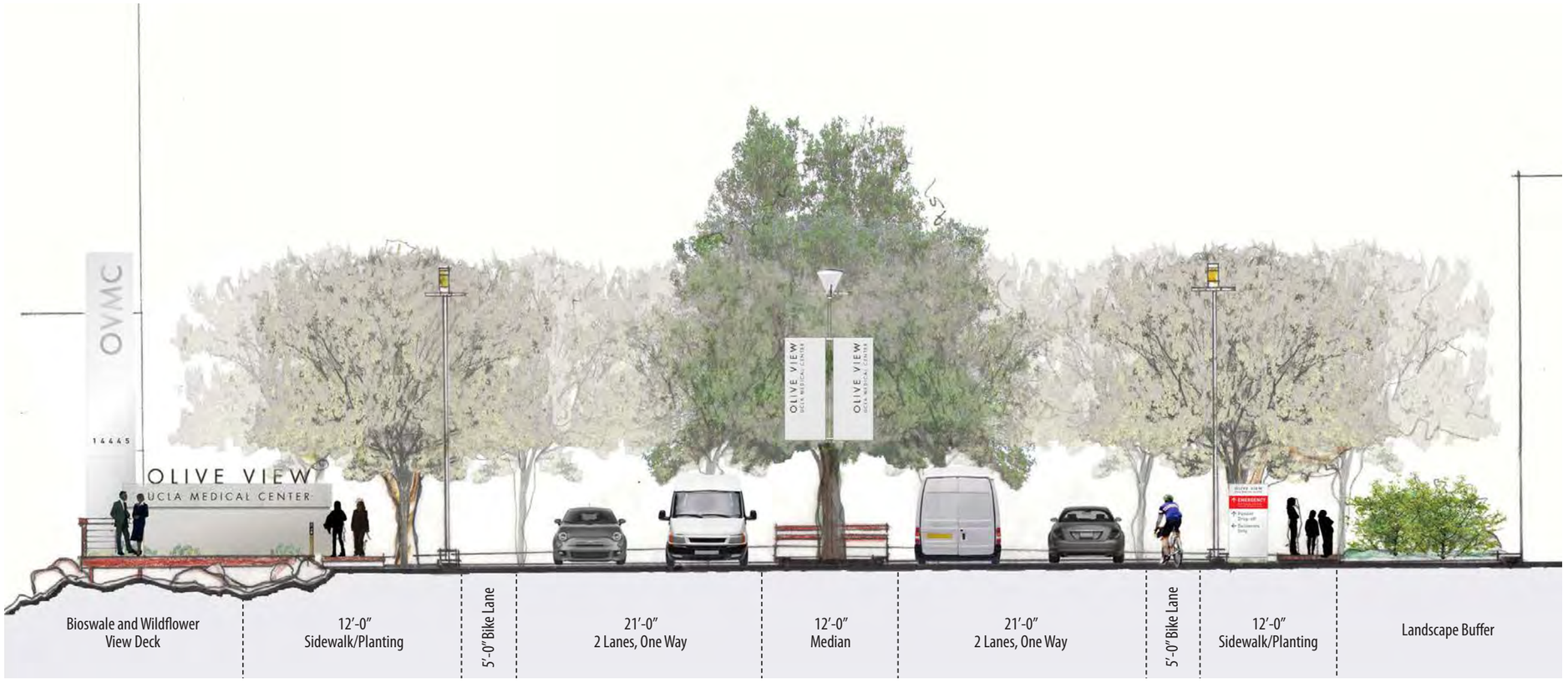
Streetscape and pedestrian walkway planting should help define orientation to help pedestrian and vehicular recognition of a particular street, campus district, or public zones and community greens.

Streetscapes should demonstrate accommodation for various transit modes including bike access, pedestrian traffic while maintaining efficient vehicular traffic.

Design the streets with opportunities for leisurely walks and places for social encounter, casual conversations, or simple seating accommodations as pedestrians navigate the site.

Design streets for bike access with shared bike and vehicular travel lanes. Provide opportunities for dedicated bike trails for recreation and campus travel amenities.

7.46 Site Section 5 - Streetscape at UCLA Education and Research Zone



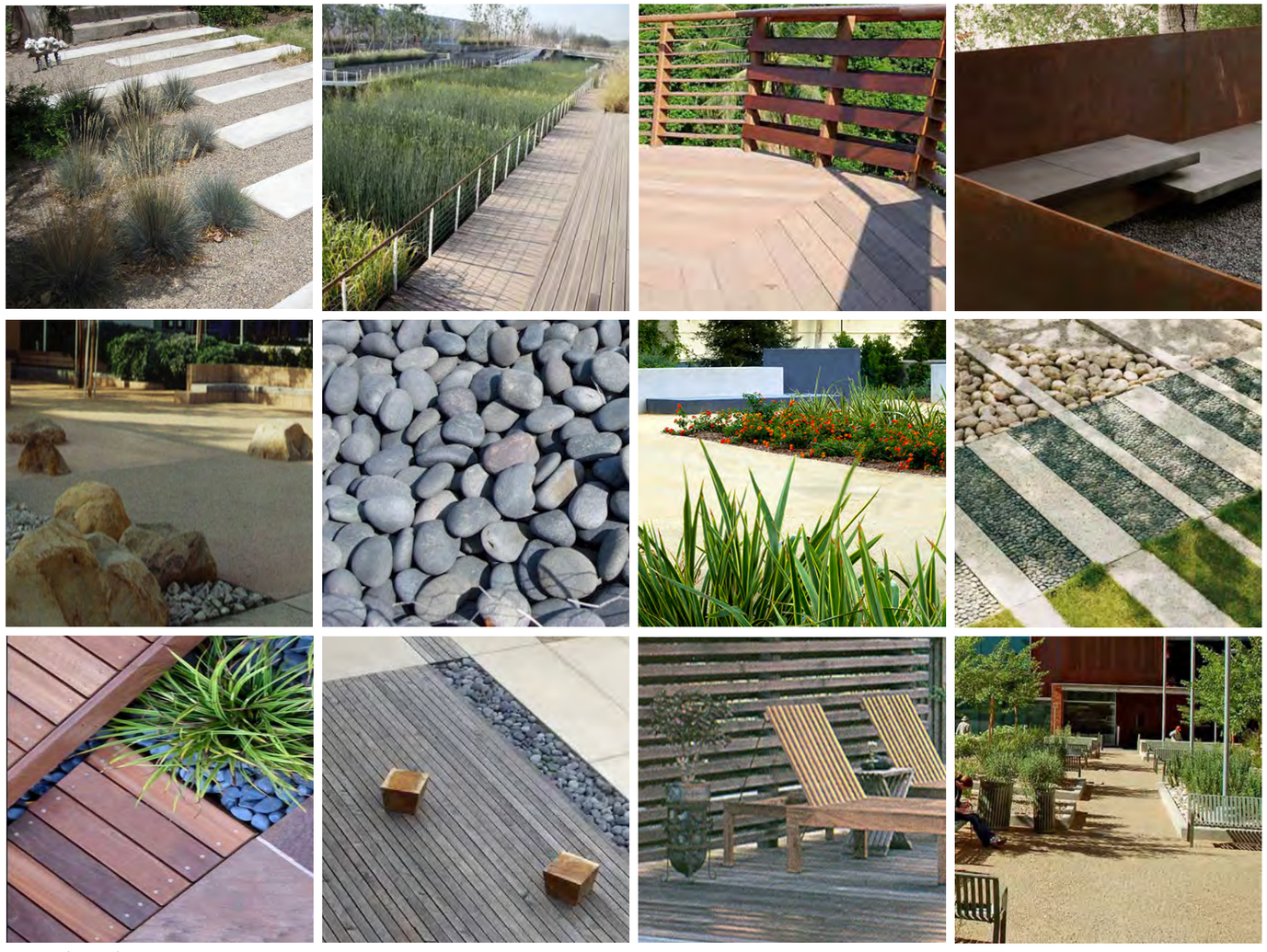
7.47 Site Section 6 - Streetscape at Campus Entry Drive

ACCEPTABLE HARDSCAPE MATERIALS

A palette of construction materials should be used which provide continuity and recognizable order in the landscape and which define a range of details in material refinement, texture and character relative to their aesthetic and functional intent, and adjacent to buildings or specific outdoor use zones.

Paved areas can draw from a broad range of materials, designs, and finishes that are complementary to the building architecture in terms of color, texture, and pattern.

Landscape forms including planting strips, hedge walls, fencing, green screens, raised planters, bermed planting, and retaining walls and sloped planting may also be used at elevation changes and for landscape buffers.



7.48 Hardscape Palette

7.49 Examples of Hardscape Materials

Allow for materials with higher reflectance index for open paved areas with limited tree shading.

Special paving is encouraged to provide visual interest and define entrance zones at driveways and access drives.

Decorative hardscape is highly encouraged to delineate pedestrian paths of travel and enhance gathering areas.

Existing site elements such as rocks and boulders may be used and organized within the landscape paving and composition of the outdoor space.

Allow sufficient permeable hardscape areas throughout the site that may be designed around paved areas.

Select durable hardscape materials, furnishings, signage and other features which withstand wear, abuse, climate, and vandalism.

LIGHTING GUIDELINES

INTRODUCTION

The overall goal of exterior site lighting guidelines for the Olive View - UCLA Medical Center is to create a unified experience as one travels through the campus, establishing organized zones of lighting language and treatments to assist with the campus identity as wells as wayfinding. This section covers the exterior lighting for the entire project site.

This document specifies illuminance levels and uniformity criteria and provides guidance on acceptable luminaire and lamp selections. Also included are general guidelines for creating a cohesive exterior lighting design. Refer to the electrical and landscaping sections for further information.

SITE LIGHTING GOALS AND GUIDELINES

Light will be utilized to create areas of visual hierarchy and interest. Unique lighting zones will be created with varying lighting approaches. In doing so, the site will become easier to navigate during nighttime hours.

Safety and Comfort

- Improve campus safety by utilizing high color rendering lamp sources for better visibility. Lighting sources should have a Color Rendering Index (CRI) of 80 or better.
- Add visual interest to the site including accentuating key landscape and architectural features.
- Improve consistency of lighting appearance by utilizing organized fixture families.
- Assist wayfinding by creating a visual hierarchy between different campus zones.
- Support staff and patron gathering with a welcoming environment in plazas and courtyards.
- Encourage unique lighting expressions in plaza and courtyard areas to create intimate spaces within the site.
- Differentiate primary pathways from outlying pathways to organize pedestrian traffic patterns on campus.

Sustainability

- Lighting systems shall be designed to comply with all applicable energy code requirements as well as the Green Guide for Heathcare and project energy goals. Additional lighting energy reduction should be pursued where practical.
- Utilize energy efficient lamp sources based on technology available at the time of specification.
- Minimize light tresspass, glare, and uplight as required; comply with Title 24 CalGreen BUG (Backlight Uplight Glare) ratings.
- Meet any additional energy efficiency and light pollution requirements based on applicable codes and standards including but not limited to Title 24, CalGreen, OSHPD, and LEED.
- Encourage use of fixtures powered by alternative energy sources as these technologies advance in terms of performance and affordability. For example, the use of solar powered light poles in remote areas (such as parking lots, roadways, and paths) would eliminate the need for trenching and wiring as well as power supplied by CONGEN. Such installations not only reduce long term energy costs, but provide immediate savings in terms of installation material and labor costs which should be considered when conducting Life Cycle Cost analyses.

Lamp / Luminaire

- LED technology shall be utilized as the primary lighting source. Energy efficient sources such as Linear Fluorescent, Induction, and Ceramic Metal Halide lamps are acceptable for specific applications when LED sources are not adequate in terms of performance, but as LED technology improves over time, more LED sources are to be utilized. Sources such as Incandescent, Halogen, Compact Fluorescent, and Low and High Pressure Sodium are not to be specified. As lighting technology evolves, other light sources with greater efficiency and lumen output may become available and should be considered.
- Where LED site lighting fixtures are used, those with field-replaceable modules should be used to reduce the cost of future replacements/maintenance.
- Provide a consistent and pleasant lighting appearance by utilizing sources with color temperatures (CCT) of 3000K to 3500K.
- Luminaires should coordinate with the aesthetics of the adjacent architectural and landscape elements.

Illuminance Guidelines

- Meet or exceed the lighting level and uniformity recommendations outlined in the following sections based on the Illuminating Engineering Society (IES) Handbook and all relevant IES Recommended Practice Guidelines.

Maintenance

- Minimize luminaire and lamp types to reduce spare stock requirements for maintenance.
- Reduce maintenance costs by utilizing long-life lamp sources. Minimum lamp life for the majority of luminaires should be 36,000 hours, with 50,000 minimum for LED's and 36,000 hour for linear fluorescent. Shorter life sources such as Ceramic Metal Halide should only be utilized if LED fixture cannot produce comparable lumen output.

Lighting Controls

- Exterior lighting control systems shall be comprised of photocells and programmable lighting controls either via local controls on fixtures or main lighting control system to provide time control of lighting as required based on program requirements and state and local energy code requirements.
- Occupancy sensors to be provided as required and for areas where reduced levels may be desirable, as long as there is no compromise to safety.

Product Requirements

- Light fixtures shall be commercial specification grade to ensure quality and performance and shall be assembled with components of new, good quality.
- Lamps shall be "high performance", and all linear fluorescent lamps shall be low mercury content. LED sources and attendant components such as heat sinks shall be mercury and lead free.
- LED luminaire manufacturera shall have a minimum of five (5) years experience in the manufacture and design of LED products and systems and no less than one hundred (100) North American installations. All peripheral devices and control software are to be provided by and shall be the responsibility of a single entity. All components shall perform successfully as a complete system. All parts of the system shall be replaceable in the field with a preference for third-party supported LED modules and systems.
- LED Luminaire assemblies shall include a method of dissipating heat so as to not degrade life of source, electronic equipment, or lenses. LED luminaire housing shall be designed to transfer heat from the LED board to the outside environment. Luminaire housing shall have no negative impact on life of components.
- LED manufacturers shall have performed photometric testing and provide upon request the Luminaire Efficacy (lm/W), total luminous flux (lumens), luminous intensity (candelas) chromaticity coordinates, CCT and CRI. optical performance, polar diagrams, and relevant luminance and illuminance photometric data.
- Painted finishes of fixtures and accessories shall be weatherproof enamel using proper primers or hot dipped galvanized and bonderized epoxy, in accordance with manufacturer's requirements. Unless otherwise specified, all painted surfaces shall have a life expectancy of not less than twenty years.
- Fixtures shall have a minimum IP rating depending on installation conditions as noted:
  - Fixtures installed under a canopy (fixture distance greater than 12" from edge of canopy): IP55
  - Fixtures directly exposed to exterior or closer than 12" from edge of canopy: IP65
  - Submersible/Underwater Fixtures: IP68
- All uplight fixtures (surface or in-grade) or fixtures that directly illuminate pedestrian or vehicle areas shall include glare control options such as glare shields, louvers, and lenses.
- All external openings in fixture assemblies and fixture lenses shall be gasketed to prevent moisture and dust intrusion.
- Remote components such as drivers, power supplies, and/or transformers shall be installed in NEMA 4X enclosures. NEMA enclosures may be surface mounted if installed out of public view, or flush grade within view. Ventilation/Airflow within NEMA enclosure must be provided per manufacturer specifications to ensure proper functioning of system.
- Fixtures and component enclosures shall have wire mesh corrosion resistant screens over any vent holes. Mesh to be properly sized to prevent incursion of insects, small animals, and/or debris such as leaves or lawn clippings.
- Stainless steel hardware is preferred. Ferrous/ aluminum mounting hardware and accessories shall be finished appropriately to prevent corrosion and discoloration of adjacent materials.
- Glass lenses shall be heat tempered glass to mitigate breakage and thermal shock
- Acrylic/ Polycarbonate lenses shall be UV stabilized and of the appropriate thickness to prevent damage from vandalism.
- Color changing LED luminaires shall utilize an equal combination of individually colored or tri or quad chip technology and shall be capable of at least 8-bit control.
- All fixtures shall comply with campus wind load criteria and overhead safety requirements. Fixtures and proposed mounting to be reviewed and approved by a licensed structural engineer prior to installation.
- Footings are required for all fixtures mounted to grade. In the case of poles, footing details are to be developed by licensed structural engineer; footings/ pads for bollards and surface mounted accent fixtures may be developed by the architect or structural engineer.

SPECIFIC FIXTURE FAMILIES

Light Poles

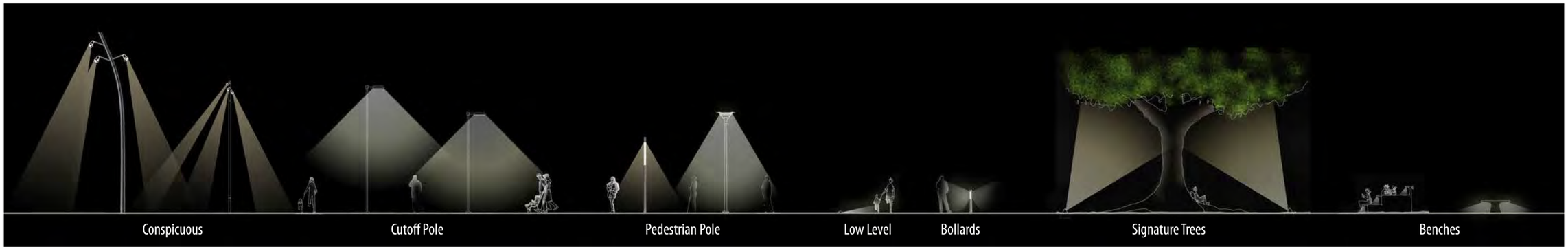
- Light poles shall provide illumination not only on grade surface, but also illuminate approaching pedestrians and/or vehicles to enhance safety, visual acuity, and wayfinding.
- Poles shall be aluminum rather than steel or iron.
- Poles shall be provided with tilting bases when less than 18 feet tall for ease of maintenance.
- Pull boxes shall be installed adjacent to poles and mounted towards the back side of pole out of public view whenever possible.
- Wind load calculations for pole with light fixtures and all other attendant elements (such as security cameras and banners) to be performed by the pole manufacturer/ structural engineering to ensure that pole assembly meets campus wind load criteria.
- Concrete footing to be provided to ensure that fixture remains level and secure. In landscape areas, footing is to elevate the fixture base slightly above grade to prevent damage from landscape maintenance and corrosion.
- Minimum 3-foot tall concrete plinths shall be utilized in open parking lots and roof decks; plinth detail to be reviewed and approved by licensed structural engineer based on wind load calculations of pole with fixtures and all other components fixed to pole included.
- Adjustable fixtures mounted to poles shall include positive aiming and locking devices to secure fixture focus. Final aiming angle of fixture shall be indicated with small tick marks or similar marking to allow fixture focus to be restored by campus staff after Maintenance or lamp replacement.
- Label with installed fixture information (such as type number, lamping, circuit number) shall be prominent on top of remote devices' NEMA box lids.
- House side shields are to be utilized for all fixtures adjacent to reserve or residential community areas.

Bollards

- Bollards shall provide illumination not only on grade surface, but also illuminate approaching pedestrians and/or vehicles to enhance safety, visual acuity, and wayfinding.
- Light source to be regressed or shielded from direct view by glare control options such as lens, louvers, and glare shields.
- Concrete footing to be provided to ensure that fixture remains level and secure and to prevent removal or settling of fixture in softscape.
- In instances where vehicle-impact rated bollards are required, bollards shall be a minimum K4 rating, and bollards footing shall be detailed, furnished, and installed by project based on manufacturers recommendations. Footing detail to be reviewed and approved by licensed structural engineer.
- Pull boxes shall be installed adjacent to bollards and mounted towards the back side of pole out of public view whenever possible.

In-grade Accent, Wall Wash, and Marker Lights

- In-grade fixtures are to be used only judiciously and sparingly, and only in paved/ hardscape or lawn areas. Installations must be executed in accordance with manufacturer's installation requirements.
- Project shall provide drainage (such as pea gravel or physical drains) in accordance with manufacturer's installation requirements and be coordinated with the landscape design.
- Internal glare control and/or frosted lenses shall be provided in all fixtures when direct view into fixtures is possible.
- Fixtures shall include anti-slip and heat reduction lenses in pedestrian areas.
- Rock guards to be provided for fixtures in non-pedestrian areas.
- Fixtures shall be drive-over rated vehicular traffic areas, including areas where maintenance lifts might be utilized.
- If fixture is integrated in a tree grate, fixture trim shall be secured to grate and flush with the top of grate.



7.50 Examples of different types of lighting fixtures

Surface-grade Accent Lights

- Surface fixtures may be installed in non-pedestrian, non-vehicular areas only.
- Fixtures shall be mounted on concrete base/pad to ensure that fixture remains level and secure and to prevent removal or settling of fixture in softscape. Pad is to elevate the fixture base slightly above grade to prevent damage from landscape maintenance and corrosion.
- Fixtures shall be specified with glare control options such as lens, louvers, and glare shields.
- Surface fixtures within reach must be LED and cool to the touch.
- Pull boxes shall be installed proximal to fixtures and mounted out of public view whenever possible.

Underwater/Submersible Fixtures

- Fixture cables shall be of sufficient length to allow fixtures to be removed from water for maintenance.
- Fixtures shall be low voltage and have temperature sensing low water cut-off standard for safety.
- Fixtures shall be made of non-corroding materials, such as cast bronze, nickel plated brass, nickel plated copper, stainless steel, or polycarbonate.
- Fixture lens shall be heat-resistant tempered glass lens and gasketed to prevent water intrusion.
- Adjustable fixtures to include lockable mounting hardware to secure fixture aiming.
- All junction boxes used in water are to be submersible grade and potted as required to prevent water intrusion.
- All cabling used in water to be submersible grade.
- All underwater fixture circuits to be protected by GFIs.
- Remote drivers/transformers shall be installed in in-grade NEMA boxes in landscape areas or surface mounted out of public view.

Tree Mounted Fixtures

- Rigid conduit shall stub up at base of tree and continue circuiting up the tree with neutral color liquid-tight flexible conduit supported to tree by non-invasive methods such as straps or cable ties. Openings in rigid conduit to be sealed/ gasketed to prevent water intrusion.
- Fixtures shall be mounted to tree with soft, preferably self-expanding straps, or with adjustable tree rings. In no circumstances shall fixtures be bolted or clamped to trees. Campus to review and approve mounting methods and devices prior to installation.
- Pendant mounted fixtures to be suspended from tree limbs by aircraft cable. Cable to be run through neoprene sleeves where cable makes contact with tree limb. Suspension loop around limb to be of sufficient diameter to allow for tree growth.
- Tree mounted fixtures shall be provided with 6 feet of excess cable to allow for fixture adjustment as tree grows.
- Pull boxes shall be installed proximal to fixtures and mounted out of public view whenever possible.

Steplights

- Blocking shall be provided as required to adequately support fixture. Housings shall be secured in structure to prevent sagging or displacement.
- Fixture faceplate shall be made of non-corroding materials, such as powder coated aluminum or steel, bronze, brass, stainless steel, or polycarbonate to prevent rust streaking/ staining on vertical wall surfaces.
- Lenses to be impact resistant and fixture trims and frames to include vandal-proof hardware.
- In the case of surface mounted steplights, concrete pad or footing to be provided to ensure that fixture remains level and secure and to prevent removal or settling of fixture in softscape.

7.51 Example of tree uplights

7.52 Example of light poles

7.53 Example of using interior and exterior lighting

7.54 Example of lighting at garden spaces

SPECIFIC FIXTURE FAMILIES

Surface Wall Mounted Fixtures

- Fixture shall be provided with glare control accessories to mitigate glare in the case of direct view into fixture.
- Blocking to be provided as required to adequately support fixture and fixtures are be mounted with a minimum of (2) points of connection to ensure that fixtures remain level. Fixtures in excess of 5 lbs. are not to be mounted directly to junction boxes for support.
- Larger fixtures or fixtures that project beyond 12" from face of wall are to include cantilevered mounting brackets and/or safety cable mounted to independent support. Safety cable to be installed within fixture arms or mounting brackets out of public view. Mounting and installation of all such fixtures to be reviewed and approved by licensed structural engineer.

Pendants/ Ceiling Mounted Fixtures

- All pendants shall be mounted per applicable seismic codes and campus overhead safety requirements.
- Fixture shall include aircraft-grade safety cable; cable to be mounted within fixture stem out of view whenever possible. Safety cable specification and cable mounting details to be determined/ approved by structural engineering.
- To mitigate fixture maintenance issues in high ceiling or difficult to access areas, lowering system approved by structural/electrical engineer may be considered. Campus to review and approve any lowering systems prior to installation.
- Globes or shrouds shall be provided with safety cables if they must be removed in order to maintain or relamp fixture.
- In the case of festoon fixtures, fixtures are to be suspended/ supported from aircraft grade catenary cable rather than electrical cable. Catenary cable specification and cable mounting details to be reviewed and approved by licensed structural engineer.

Linear Accent/ Cove Fixtures

- All fixtures must be safely accessible either from façade, roof, or lift/ ladder.
- If coves are exposed, weep holes and/or other water evacuation devices to be provided so fixtures do not become submersed in cove.
- Fixtures to be secured against normal vibrations and maintenance handling.

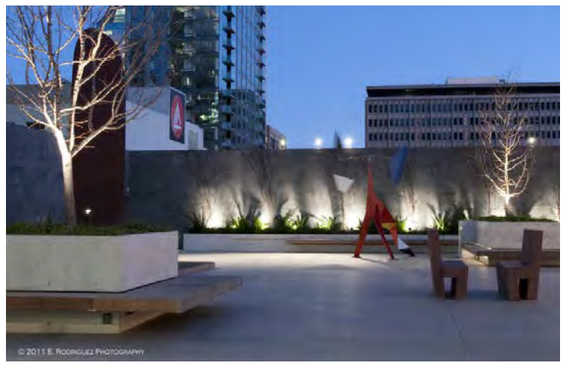
Internally Illuminated Light Boxes

- Light boxes shall be fully gasketed to prevent water, moisture, and dust intrusion.
- Translucent lenses shall be UV stabilized and the appropriate thickness to prevent damage from vandalism when the light box is within reach.
- Light box shall be accessible for proper maintenance.
- Ventilation to be provided as required to ensure proper fixture performance and lamp life.

Fiber Optic Lighting

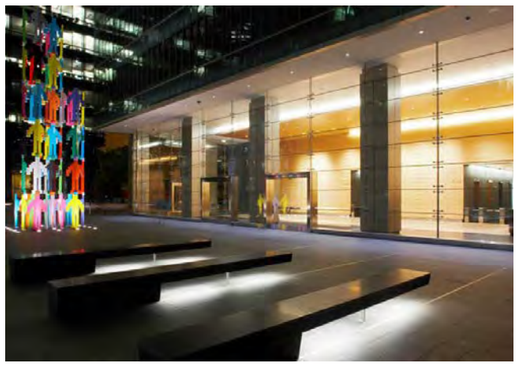
- Fiber Optic Illuminators shall be mounted in an accessible location.
- If illuminators are installed in NEMA 4X enclosures, proper ventilation/airflow must be provided as per manufacturer's specifications to ensure proper functioning of system.
- Fiber to be installed in such a way as to prevent damage to cables under normal conditions over time.
- Fiber fixtures to be sealed against water intrusion.

7.55 Example of lighting at parks



7.56 Example of art lighting and bench lighting

7.57 Example of building entrance lighting

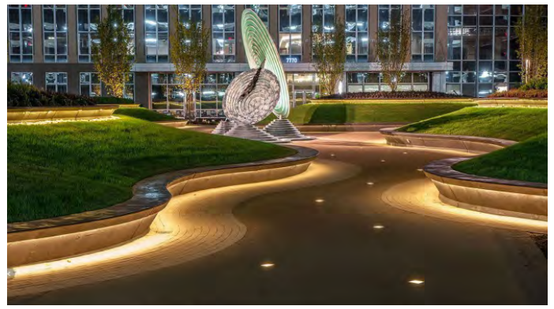


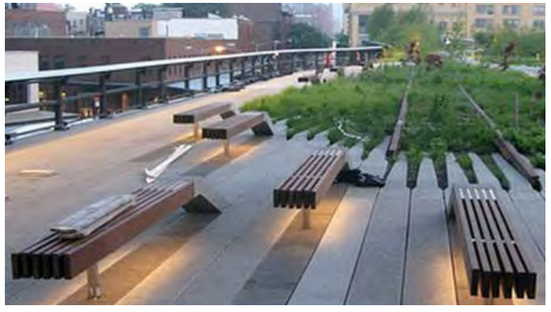
7.58 Example of exterior and interior illumination

Bollards

7.59 Examples of bollard lights

Underbench Lighting





7.60 Examples of bench lights

Step Lights

7.61 Examples of step lights

Handrail Lighting

7.62 Examples of handrail lights

Direct Light

7.63 Examples of direct lights

Light Columns

7.64 Examples of light columns

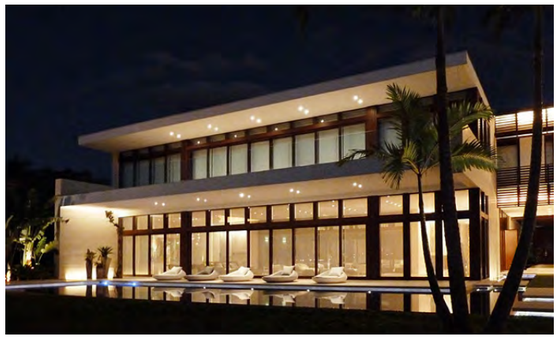
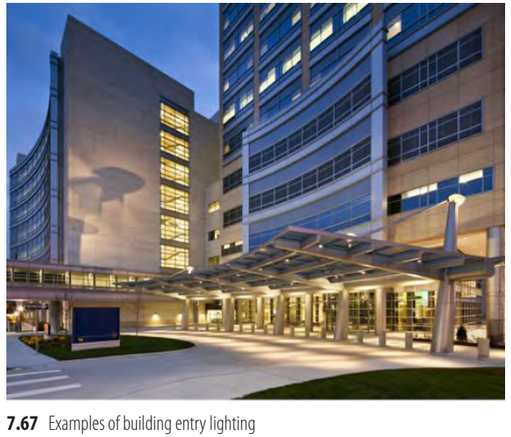
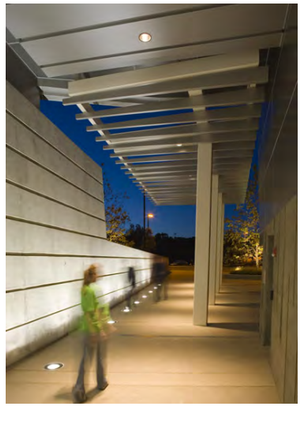
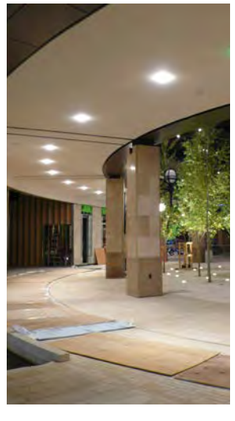
Indirect Light

7.65 Examples of indirect lights

Iconic Light Pole

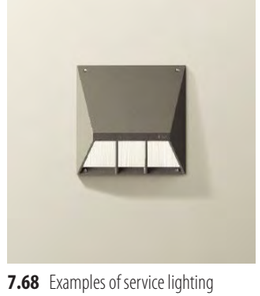
7.66 Example of iconic lights

Building Entry Lighting

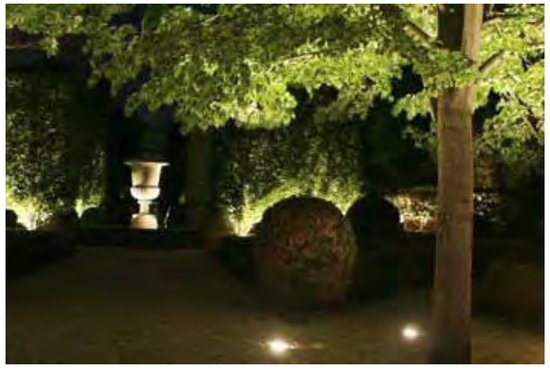
7.67 Examples of building entry lighting

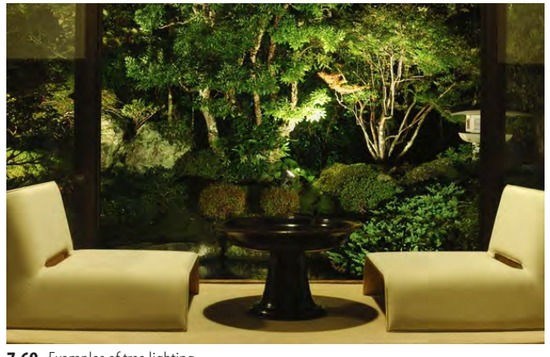
Loading Dock and Service Facility Lighting



7.68 Examples of service lighting

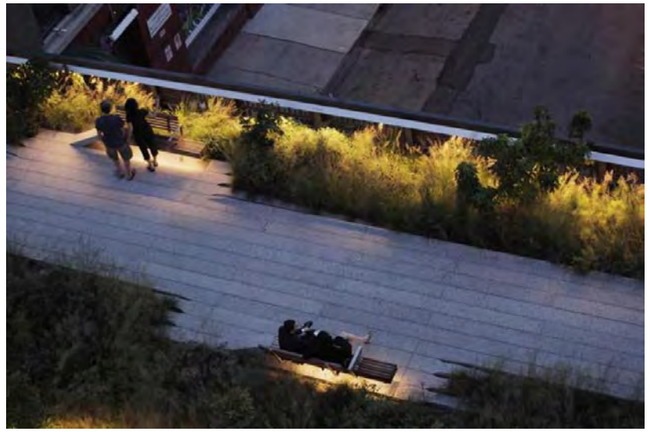
Tree Lighting

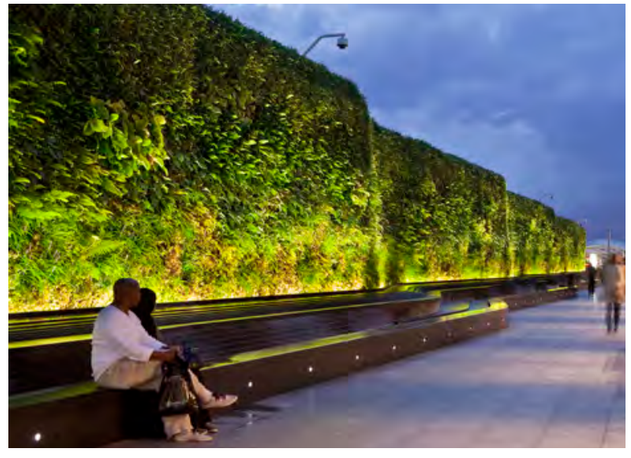




7.69 Examples of tree lighting

Garden Lighting



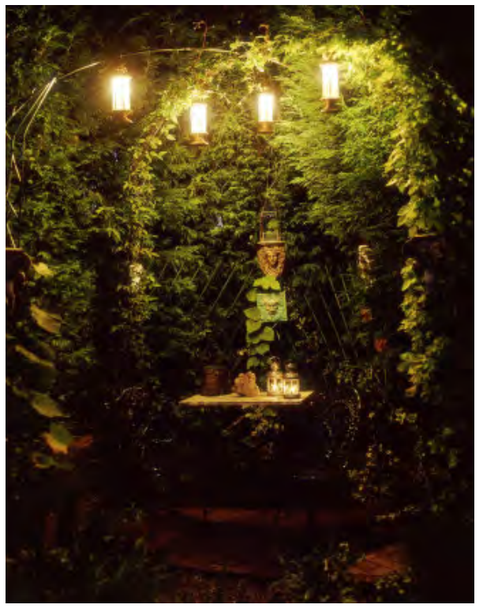


7.70 Examples of garden lighting

Gateway Signage Lighting

7.71 Examples of gateway signage lighting

Field Lighting



7.72 Examples of field lighting

Pathway Lights

7.73 Examples of pathway lights

Sculpture/Art Lighting

7.74 Examples of art lighting

SIGNAGE GUIDELINES

INTRODUCTION

Guidelines have been developed for the exterior signage at the Olive View - UCLA Medical Center. The intent of this sign program is to identify the site, buildings, and parking facilities, and to provide directional information to patients, visitors, and staff.

These guidelines describe the family of sign types and outline the intent of each sign. Suggested messages have been provided as well as recommended materials and sizes. The goal is to have a sign program that integrates with the project master plan, works with the landscape and hardscape elements, and relates to the architectural vocabulary to create a seamless and intuitive experience for the visitor.

GRAPHIC STANDARDS

Typography

FONT: DIN BOLD

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
a b c d e f g h i j k l m n o p q r s t u v w x y z
0 1 2 3 4 5 6 7 8 9

FONT: DIN MEDIUM

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
a b c d e f g h i j k l m n o p q r s t u v w x y z
0 1 2 3 4 5 6 7 8 9

FONT: DIN REGULAR

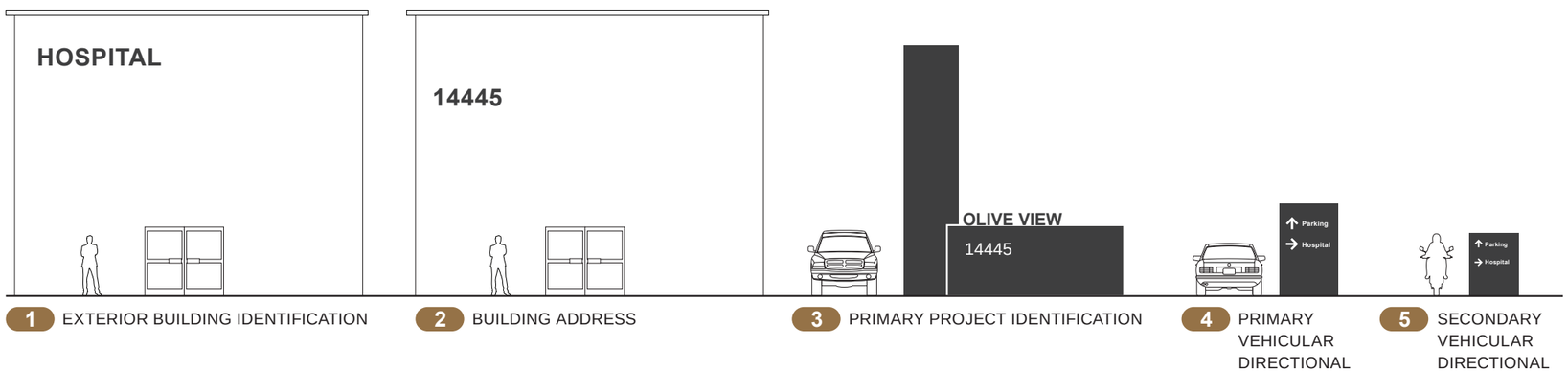
A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
a b c d e f g h i j k l m n o p q r s t u v w x y z
0 1 2 3 4 5 6 7 8 9

Logo

OLIVE VIEW
UCLA MEDICAL CENTER

7.75 Graphic Standards

EXTERIOR SIGN TYPES



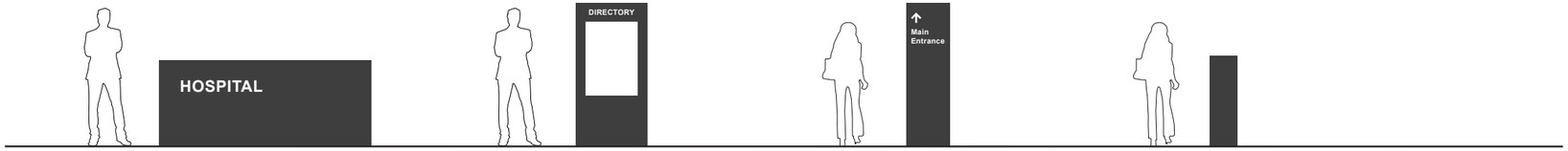
1 EXTERIOR BUILDING IDENTIFICATION

2 BUILDING ADDRESS

3 PRIMARY PROJECT IDENTIFICATION

4 PRIMARY VEHICULAR DIRECTIONAL

5 SECONDARY VEHICULAR DIRECTIONAL

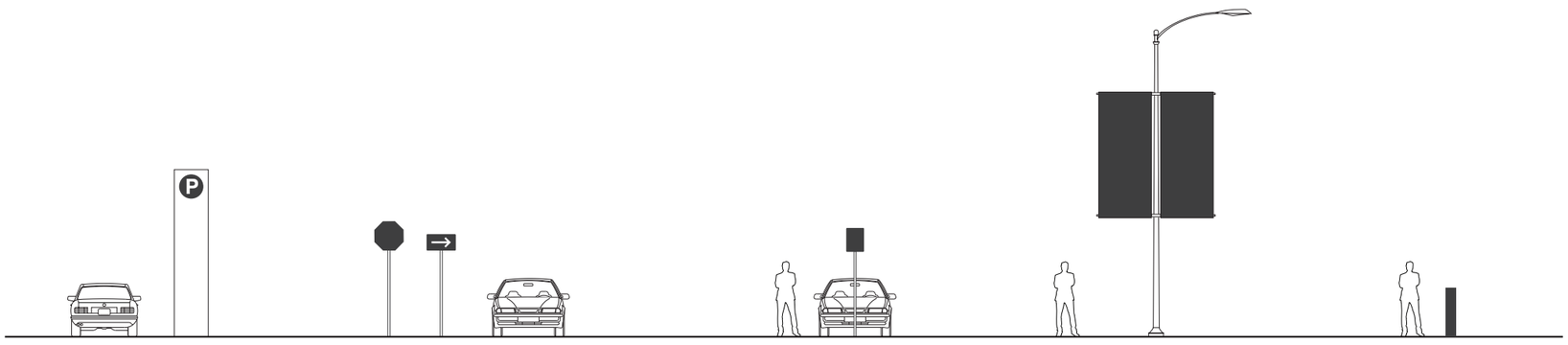


10 BUILDING MONUMENT

11 YOU ARE HERE DIRECTORY MAPS

12 PEDESTRIAN DIRECTIONAL

13 AMENITY SIGNAGE



14 PARKING ENTRANCE IDENTIFICATION

15 TRAFFIC SIGNAGE

16 VEHICULAR REGULATORY/ RESTRICTIVE SIGNAGE

17 BANNERS

18 TRAIL SIGNAGE MARKER

7.76 Exterior Sign Types

SIGNAGE LOCATION PLAN

7.77 Signage Location Site Plan

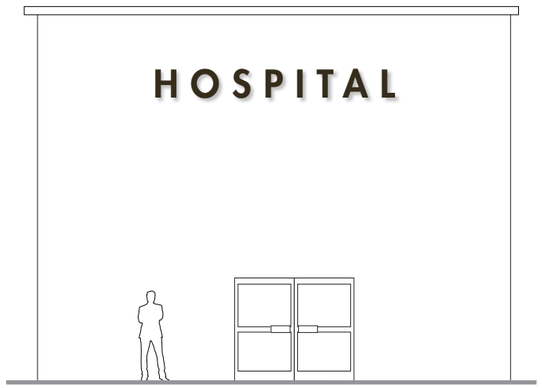
(Original) SmithGroup JJR, 2015, (Updated) Perkins Eastman 2019

EXTERIOR BUILDING IDENTIFICATION

The project name and branding identification will be displayed on the exterior of the building as dictated by the local codes and architectural conditions. These signs will be located so as to maximize visibility to local traffic and will be Illuminated as required by local codes.

Sign color should contrast with building background condition.

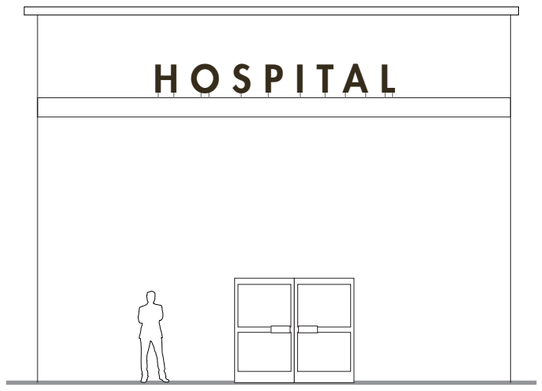
Sign shall be fabricated aluminum with either external, or halo-illuminated.



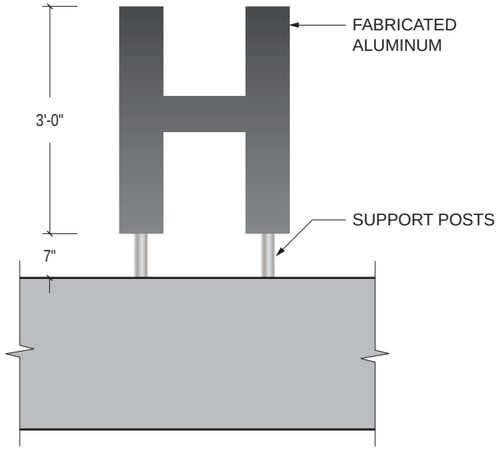
5 CONTEXT ELEVATION
SCALE: NTS

7.78 Example of Exterior Building Signage

7.79 Example of Exterior Building Signage

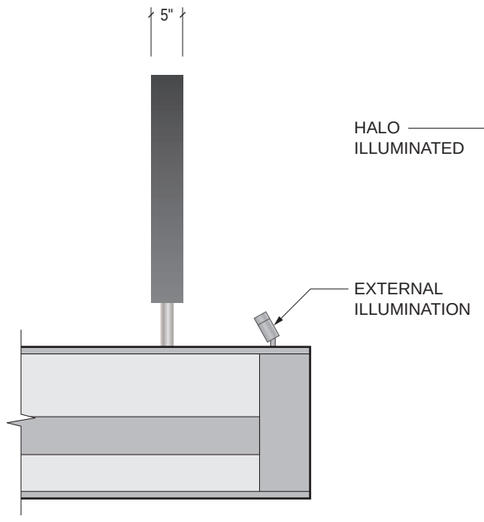


4 CONTEXT ELEVATION
SCALE: NTS

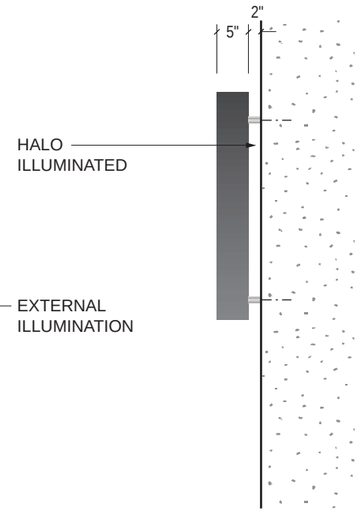


CANOPY MOUNT - FREESTANDING

1 EXTERIOR BUILDING IDENTIFICATION
SCALE: 1/2"=1'-0"



2 SIDE VIEW - FREESTANDING
SCALE: 1/2"=1'-0"



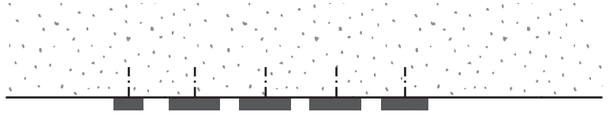
3 SIDE VIEW - WALL MOUNT
SCALE: 1/2"=1'-0"

7.80 Exterior Building Identification Sign Types

BUILDING ADDRESS

The project building address will be displayed on the exterior of the building as dictated by local codes with respect to location, size, and illumination methods.

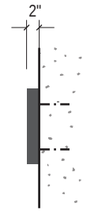
- Sign shall be located with sensitivity to architectural features and details.
- Sign shall be fabricated aluminum with a painted finish or made from stainless steel.
- Halo illumination or exterior illumination is preferred.



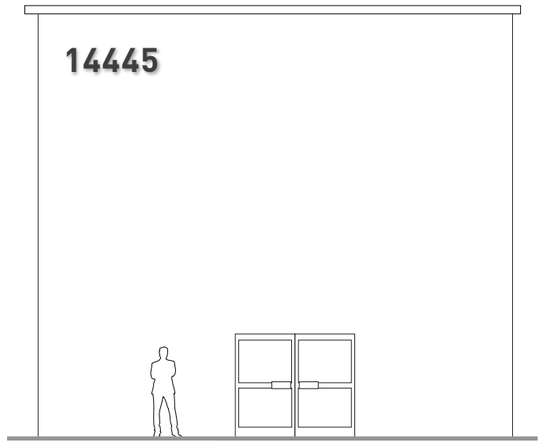
3 TOP VIEW

2 BUILDING ADDRESS

SCALE: 1/2"=1'-0"



2 SIDE VIEW

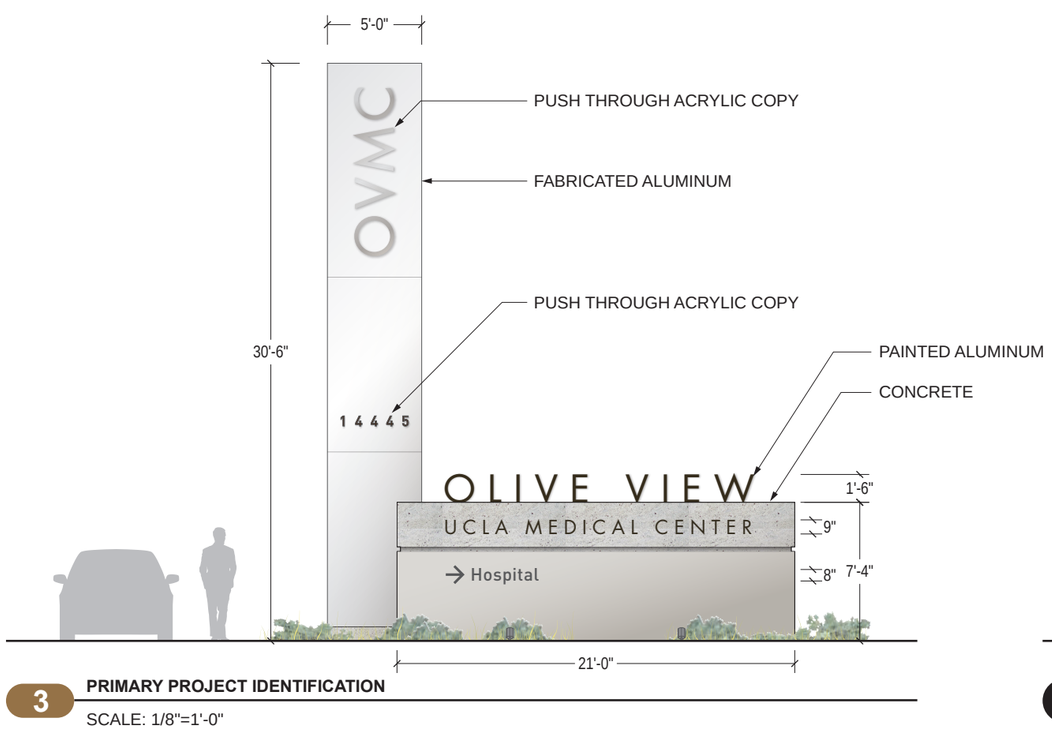


4 CONTEXT ELEVATION

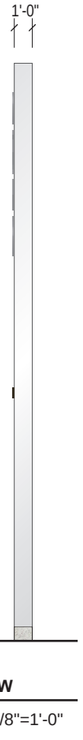
7.81 Exterior Building Address Sign

SMITHGROUP JJR

3 **TOP VIEW**
SCALE: 1/8"=1'-0"



3 **PRIMARY PROJECT IDENTIFICATION**
SCALE: 1/8"=1'-0"



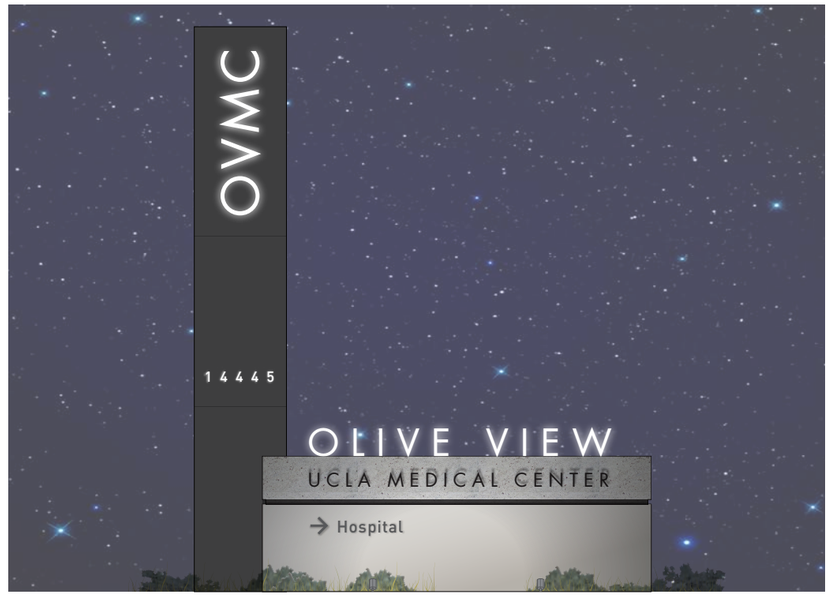
2 **SIDE VIEW**
SCALE: 1/8"=1'-0"

PRIMARY PROJECT IDENTIFICATION

A monument sign will be located at the entrance to the site. It will contain the project name, any applicable branding identification elements, the project address, and key directional information. The sign will be illuminated, either internally or with an external light source.

Sign will incorporate elements and materials related to the projects architectural standards. A variety of materials are suggested: concrete, stainless steel, fabricated aluminum.

Sign shall be incorporated into the landscape / hardscape design.



7.82 Monument Sign

PRIMARY VEHICULAR DIRECTIONAL

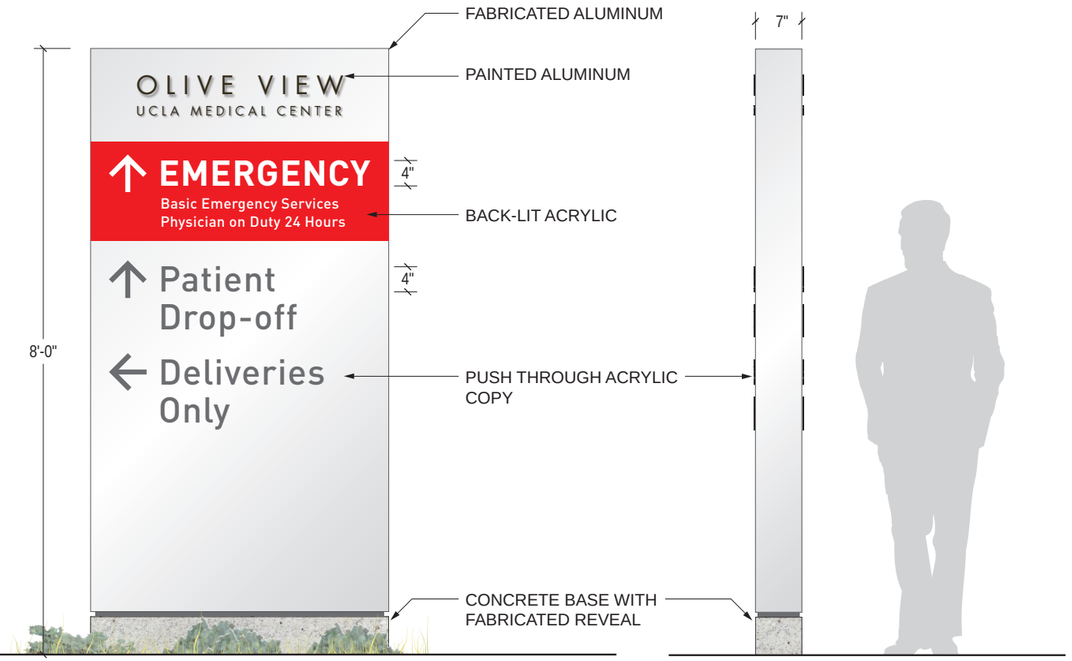
Signs will be located within the site to provide directional information for vehicular traffic. These will be large monument signs and display a list of key destinations with directional arrows. Branding elements, graphic devices, and project colors will be incorporated into this sign type.

Sign shall be fabricated aluminum and internally illuminated with routed and push through copy. Sign shall set upon a concrete base.

NIGHT VIEW

3 **TOP VIEW**

SCALE: 1/2"=1'-0"



4 **PRIMARY VEHICULAR DIRECTIONAL**

SCALE: 1/2"=1'-0"

2 **SIDE VIEW**

SCALE: 1/2"=1'-0"

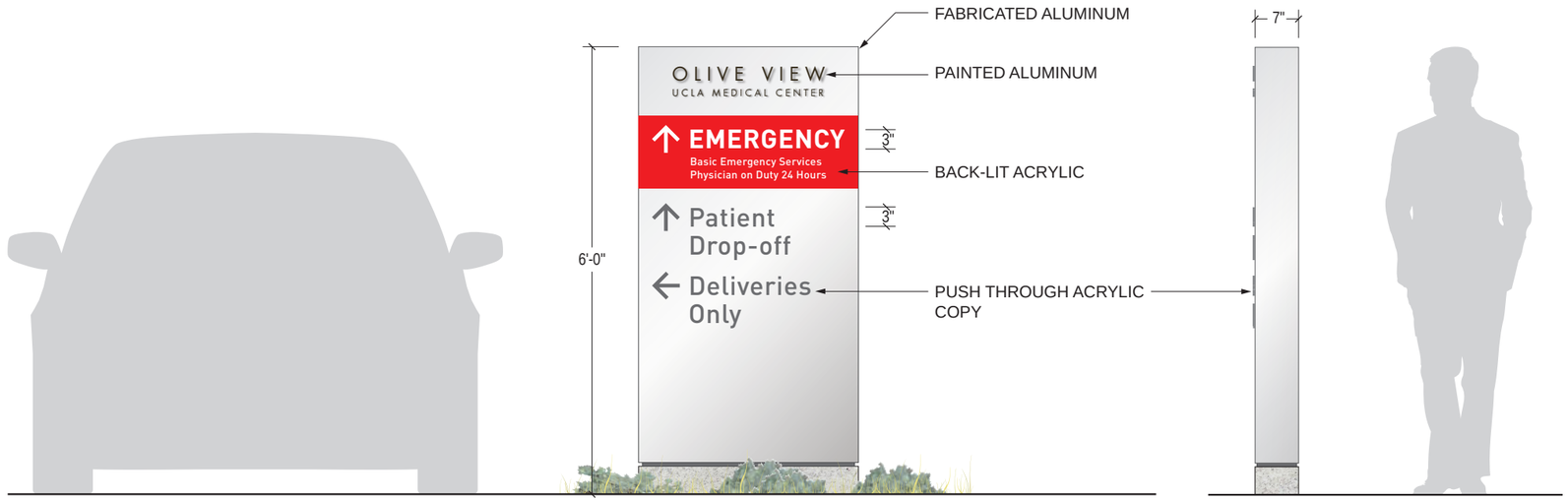
7.83 Primary Vehicle Sign

SECONDARY VEHICULAR DIRECTIONAL

Signs will be located within the site to provide directional information for vehicular traffic. These will be medium monument signs and display a list of key destinations with directional arrows. Branding elements, graphic devices, and project colors will be incorporated into this sign type.

Sign shall be fabricated aluminum and internally illuminated with routed and push through copy. Sign shall set upon a concrete base.

3 **TOP VIEW**
SCALE: 1/2"=1'-0"



5 **SECONDARY VEHICULAR DIRECTIONAL**
SCALE: 1/2"=1'-0"

2 **SIDE VIEW**
SCALE: 1/2"=1'-0"

7.84 Secondary Vehicle Sign

BUILDING MONUMENT

These signs will identify buildings within the site. They will be horizontal in format and contain the building name. These signs will be illuminated either internally or externally. They will be either fabricated aluminum cabinets, or concrete monuments with applied dimensional copy.

Signs will be located near the building entrance and be incorporated into landscape or hardscape conditions.

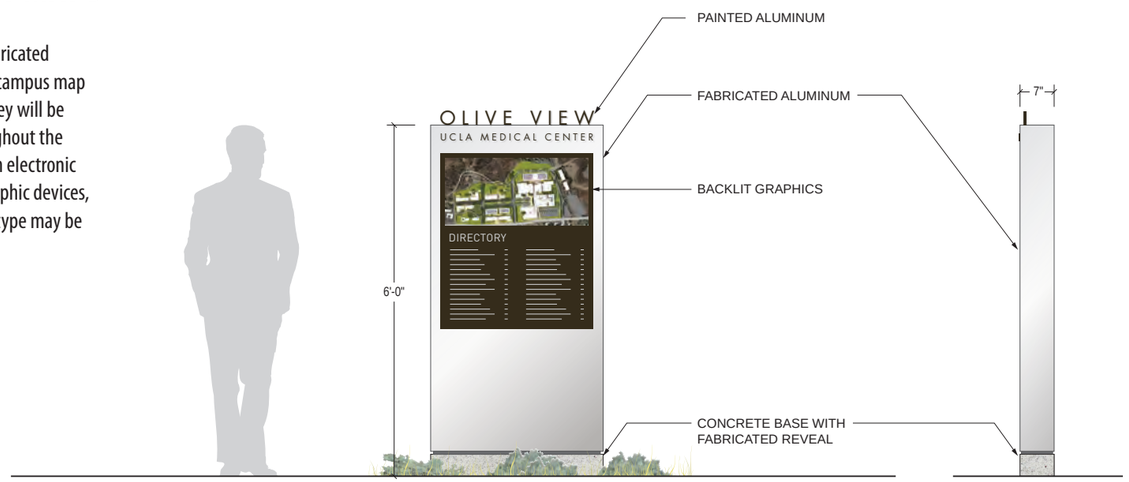
10 BUILDING MONUMENT
SCALE: 3/8"=1'-0"

2 SIDE VIEW
SCALE: 3/8"=1'-0"

7.85 Building Monument Sign

YOU-ARE-HERE DIRECTORY MAPS

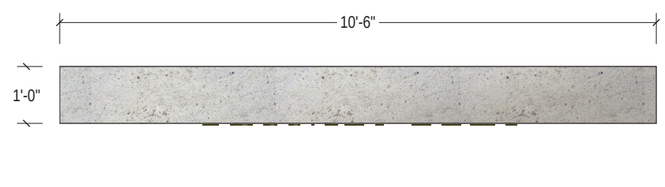
Pedestrian information kiosks will consist of a fabricated aluminum cabinet containing a digitally printed campus map and a directory of buildings and departments. They will be located at key decision/information points throughout the campus and at campus entrances. (A touch screen electronic map may be considered.) Branding elements, graphic devices, and project colors will be incorporated. This sign type may be internally illuminated.



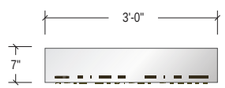
11 YOU ARE HERE DIRECTORY MAPS
SCALE: 1/2"=1'-0"

2 SIDE VIEW
SCALE: 1/2"=1'-0"

7.86 Directory Map



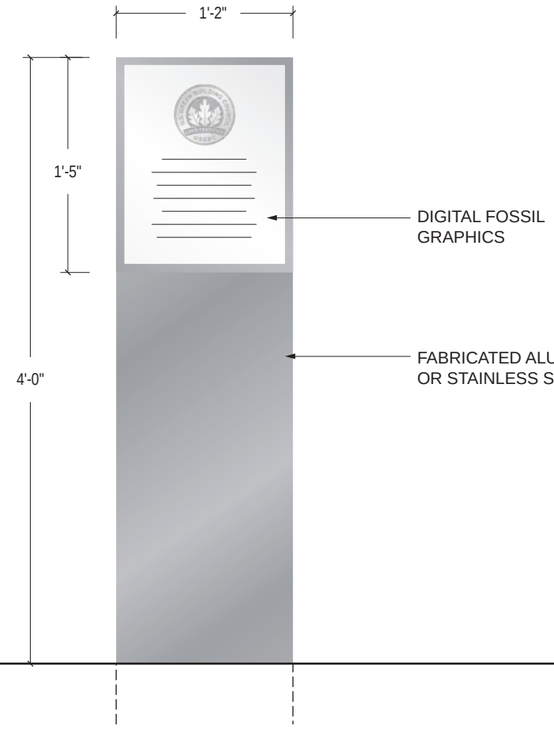
3 TOP VIEW
SCALE: 3/8"=1'-0"



3 TOP VIEW
SCALE: 1/2"=1'-0"

SMITHGROUP JJR

3 **TOP VIEW**



13 **AMENITY SIGNAGE**

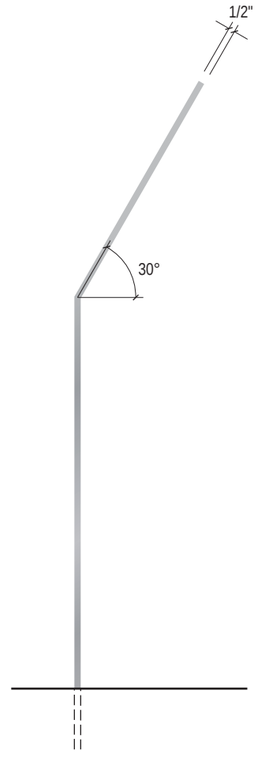
SCALE: 1/2"=1'-0"

4 **CONTEXT ELEVATION**

SCALE: 3/8"=1'-0"

AMENITY SIGNAGE

Small pylons will be located throughout the campus to identify and describe various LEED features of the campus and applicable buildings. They will consist of fabricated aluminum panels with screened or digitally printed copy and graphics. These signs with be non-illuminated.



2 **SIDE VIEW**

SCALE: 1/2"=1'-0"

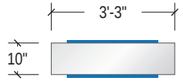
7.87 Amenity Signs

PARKING ENTRANCE IDENTIFICATION

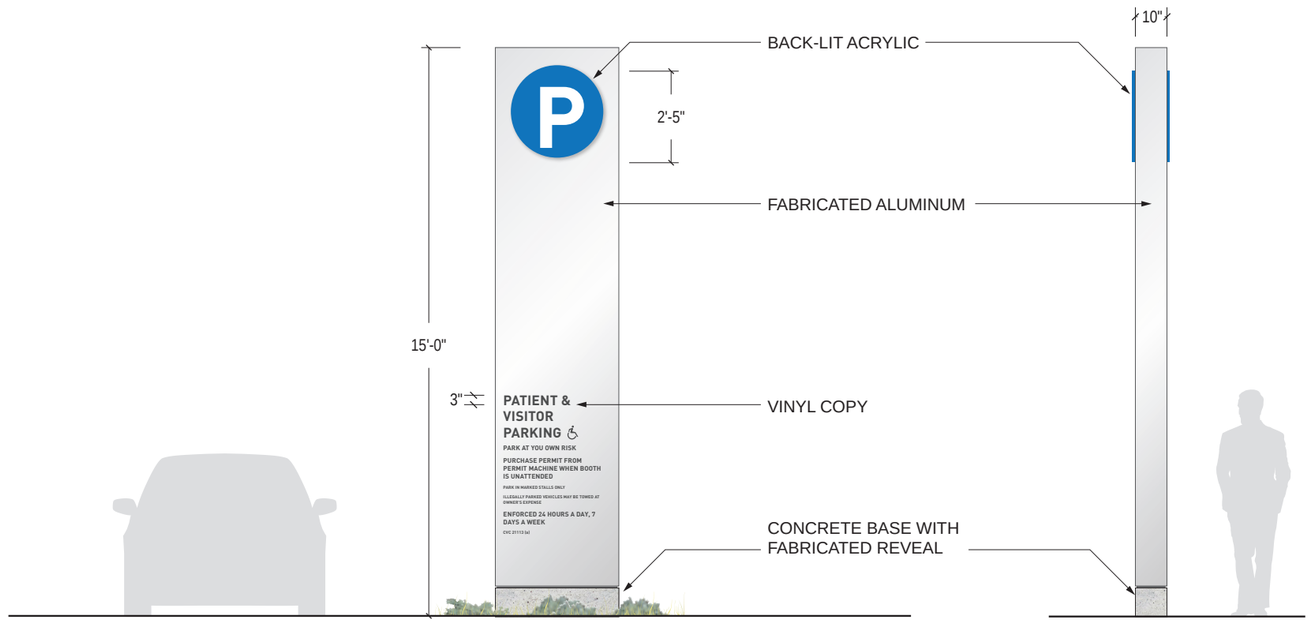
Parking lot entrances will be identified by pylon signs containing the parking lot identification number (or letter as required), and any restrictive parking information as required by code. Branding elements, graphic devices, and project colors will be incorporated into this sign type. Illumination (if any) will be determined during the design phase.

Signs shall be fabricated aluminum with dimensional and vinyl copy, set upon a concrete base.

Sign shall be located at the parking entrance, perpendicular to the flow of traffic, and incorporated into landscape and hardscape elements.



3 TOP VIEW
SCALE: 1/4"=1'-0"



14 PARKING ENTRANCE IDENTIFICATION
SCALE: 1/4"=1'-0"

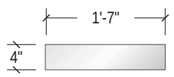
2 SIDE VIEW
SCALE: 1/4"=1'-0"

7.88 Parking Entrance Signs

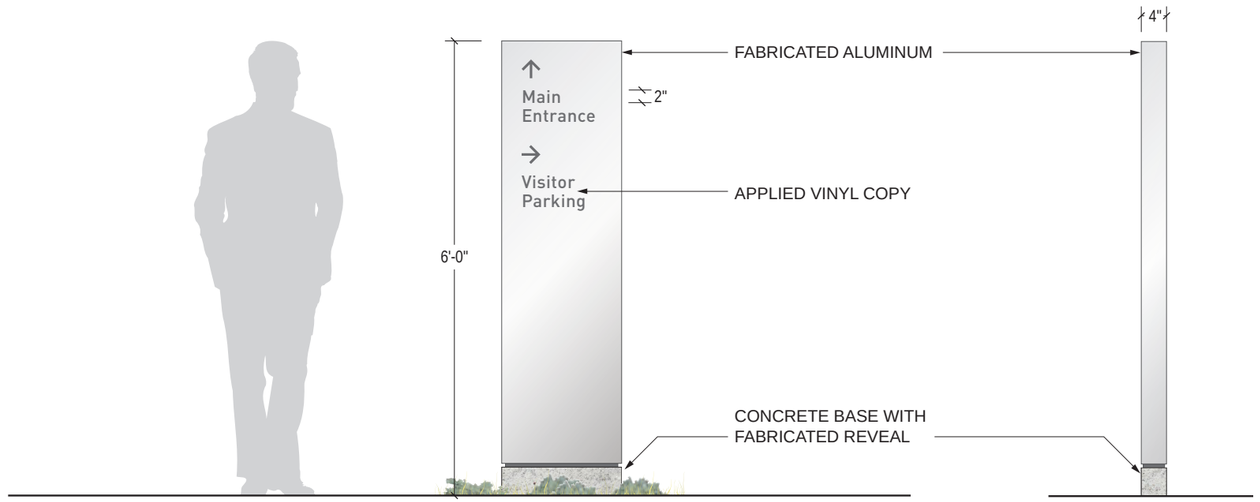
PEDESTRIAN DIRECTIONAL SIGNAGE

Small directional signs will be located throughout the site to guide pedestrians to the appropriate destinations. They will consist of fabricated aluminum pylons and contain key destinations and directional arrows. Branding elements, graphic devices, and project colors will be incorporated into this sign type.

Signs shall be non-illuminated. Signs shall sit upon a concrete base.



3 TOP VIEW
SCALE: 1/2"=1'-0"



12 PEDESTRIAN DIRECTIONAL
SCALE: 1/2"=1'-0"

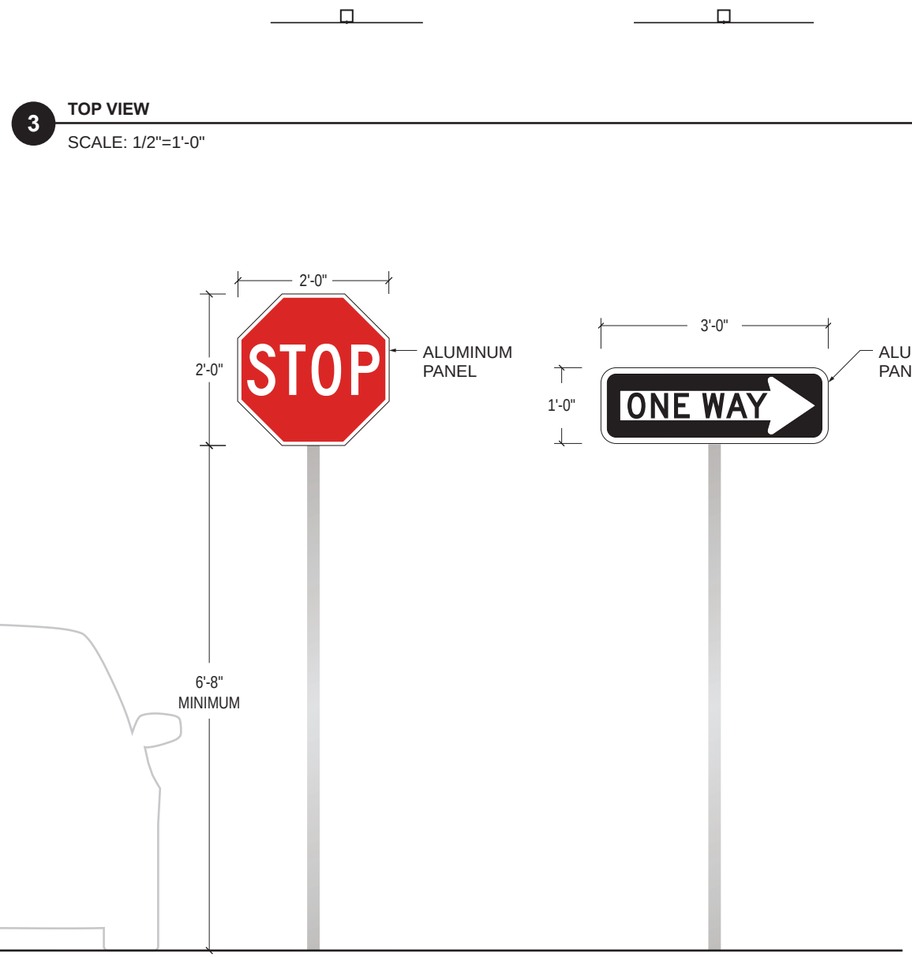
2 SIDE VIEW
SCALE: 1/2"=1'-0"

7.89 Pedestrian Directional Signs

SMITHGROUP JJR

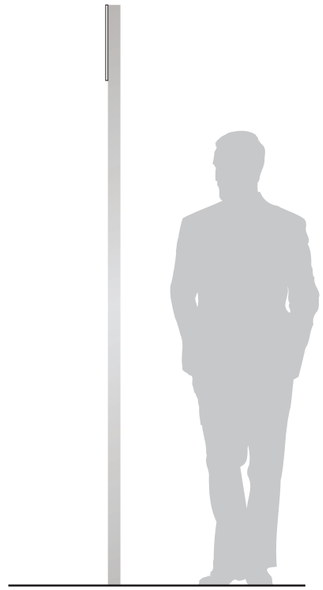
TRAFFIC SIGNAGE

Traffic signage will consist of standard traffic signs mounted to painted steel or aluminum poles. Sizes, locations, and quantities will be determined by the campus traffic engineer.



3 **TOP VIEW**
SCALE: 1/2"=1'-0"

15 **TRAFFIC SIGNAGE**
SCALE: 1/2"=1'-0"

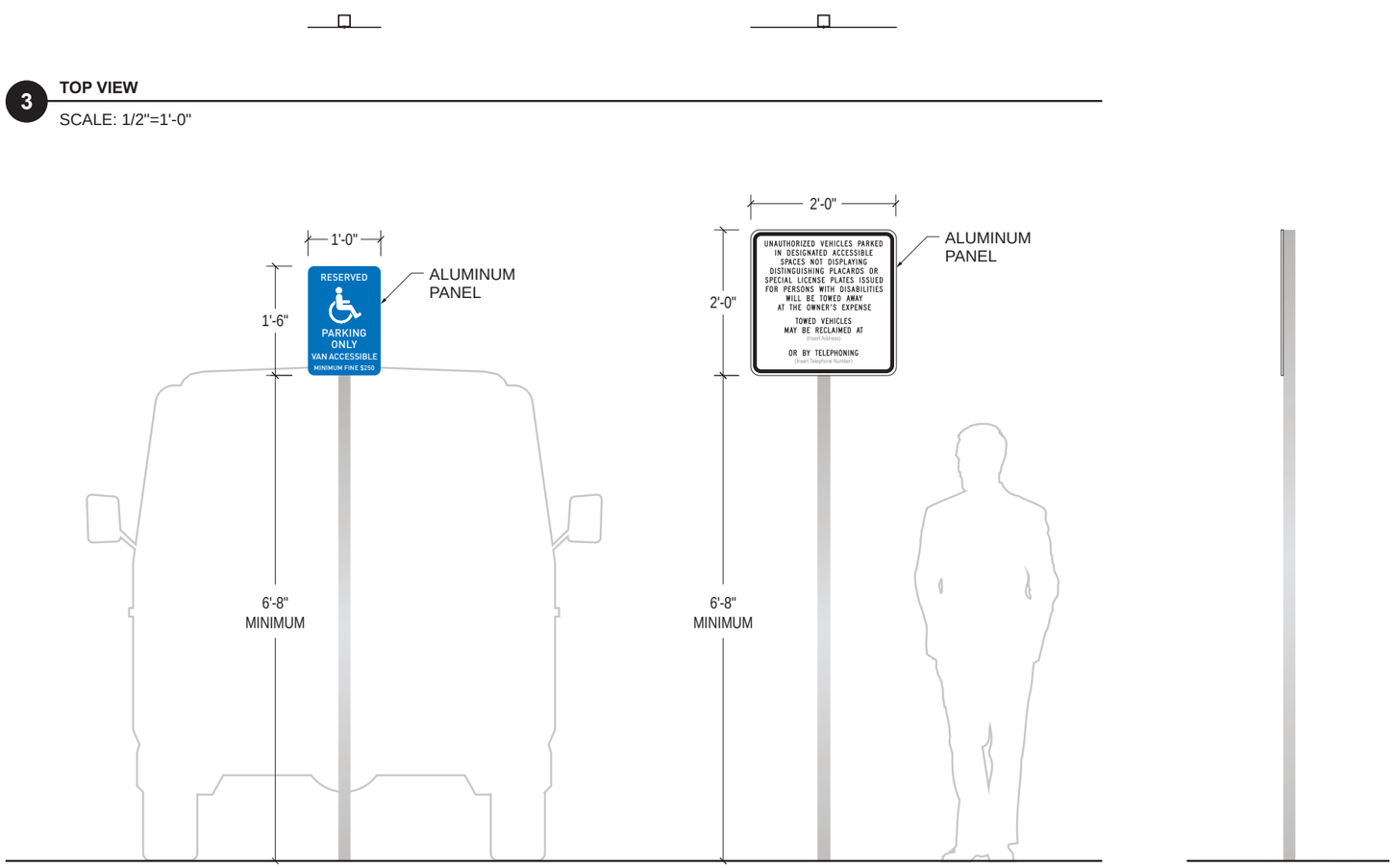


2 **SIDE VIEW**
SCALE: 1/2"=1'-0"

7.90 Traffic Signs

VEHICULAR REGULATORY/ RESTRICTIVE SIGNAGE

California Title 24 signage (accessible parking) will be located at all vehicular entrances and accessible parking stalls. Additional special parking stall identification and restrictive signage will be located as needed within the project boundaries. These signs will consist of painted aluminum panels mounted to painted steel or aluminum posts.

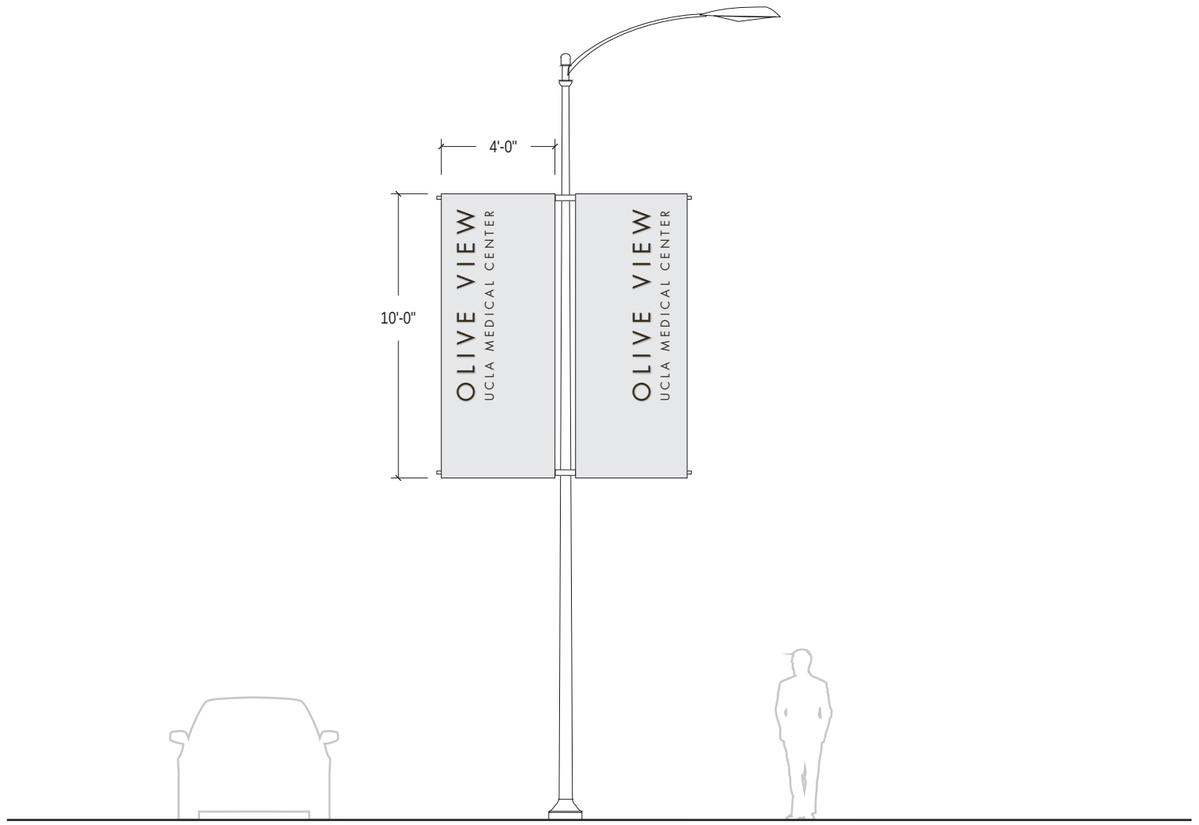


3 **TOP VIEW**
SCALE: 1/2"=1'-0"

16 **VEHICULAR REGULATORY/RESTRICTIVE SIGNAGE**
SCALE: 1/2"=1'-0"

2 **SIDE VIEW**
SCALE: 1/2"=1'-0"

7.91 Vehicular Regulatory Signs



17 BANNERS

SCALE: 3/16"=1'-0"

7.92 Banners

7.93 Examples of banners

BANNERS

A banner program shall be developed for use along the main vehicular routes within and bordering the site.

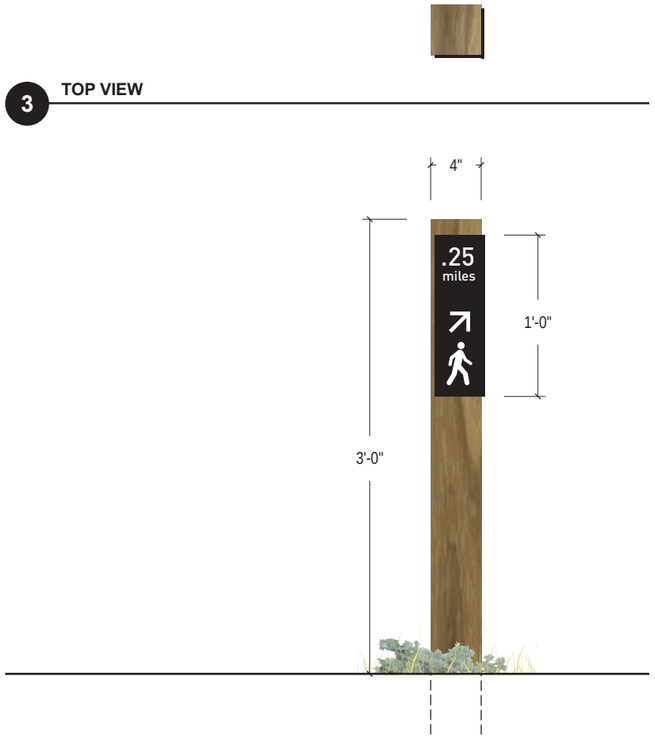
It is recommended that a series of banner designs be used and changed out on a regular basis. Banners shall contain branding identification and display upcoming events, seasonal greetings, and temporary information.

Banners shall be digitally printed on exterior grade fabric and be attached to existing light standards with a painted metal bracket.

TRAIL SIGNAGE

Small trail signs shall used to identify and direct pedestrians along the surrounding network of trails and health walks. They shall be located at regular intervals along the walk and display mile/distance marker information. They will also be located at decision points to identify routes and destinations. Signs shall be painted aluminum panels on wood or aluminum supports.

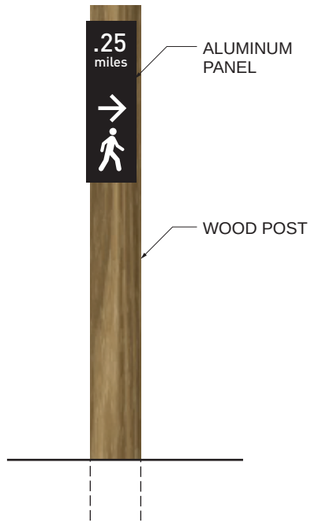
7.94 Examples of trail signs



3 **TOP VIEW**

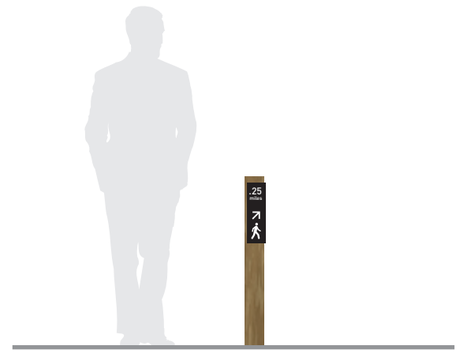
18 **TRAIL SIGNAGE MARKER**

SCALE: 1"=1'-0"



2 **SIDE VIEW**

SCALE: 1"=1'-0"



4 **CONTEXT ELEVATION**

SCALE: 3/8"=1'-0"

7.95 Trail Signs

SMITHGROUP JJR

08 IMPLEMENTATION

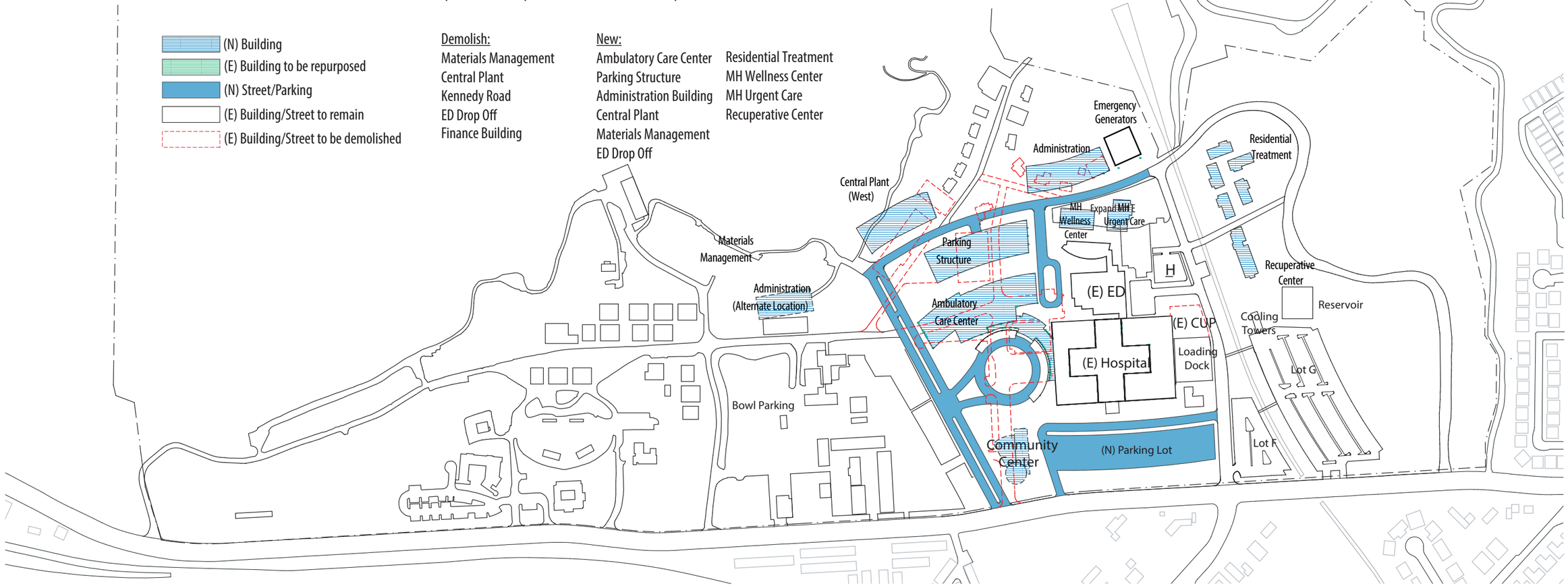
PHASING

The phased implementation of the Olive View - UCLA Medical Center Master Plan is represented in the following diagrams. They illustrate the many complexities and paths the master plan can take depending on the decisions made by the medical center and County of Los Angeles. These phasing diagrams are not intended to be the only representation for implementing this master plan, but should instead be used as a guide for how the campus master plan can be completed. More detailed studies will be required to properly execute the future construction projects at the campus.

RENOVATION PHASE 1

The first priority for the campus is a new Ambulatory Care Center and new Central Plant. Because of the parking demand required for this new building, a new parking structure is shown immediately to its north. A new Materials Management Building must be provided as shown, because the existing facility is displaced by the new parking structure. Similarly a new Administration Building must also be built, in order to consolidate and replace the programs currently housed in miscellaneous cottages and buildings displaced by the new structures.

A new Community Center is shown dashed as this program is not necessarily phase dependent and could be built at any point in time. Depending on the degree of renovation the County and Olive View - UCLA Medical Center choose to proceed with in the existing building, all buildings above may need to be completed before improvements can start in the hospital

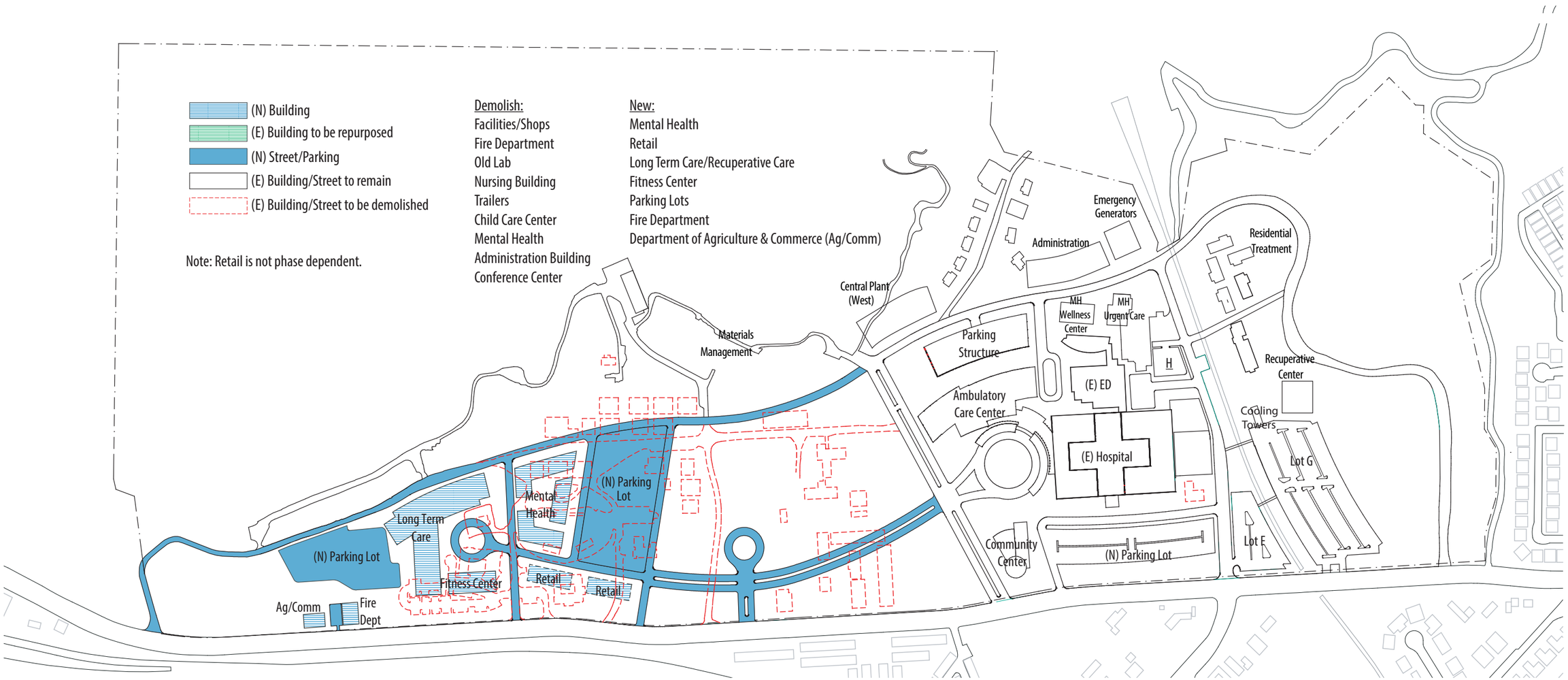


8.01 Phasing Diagram - Renovation Phase 1

(Original) SmithGroup JJR, 2015, (Updated) Perkins Eastman 2019

RENOVATION PHASE 2

A potential second phase is to develop the far west end of the campus. Included in this development is a new Supportive Care/Recuperative Care Building Complex, a new Fitness Center, and a new Mental Health Building. Is it also suggested that the existing facilities and maintenance shops can be relocated to the new Central Plant. A new Fire Department and Department of Agriculture and Commerce is shown to the far west end.



8.02 Phasing Diagram - Renovation Phase 2

(Original) SmithGroup JJR, 2015, (Updated) Perkins Eastman 2019

RENOVATION PHASE 3

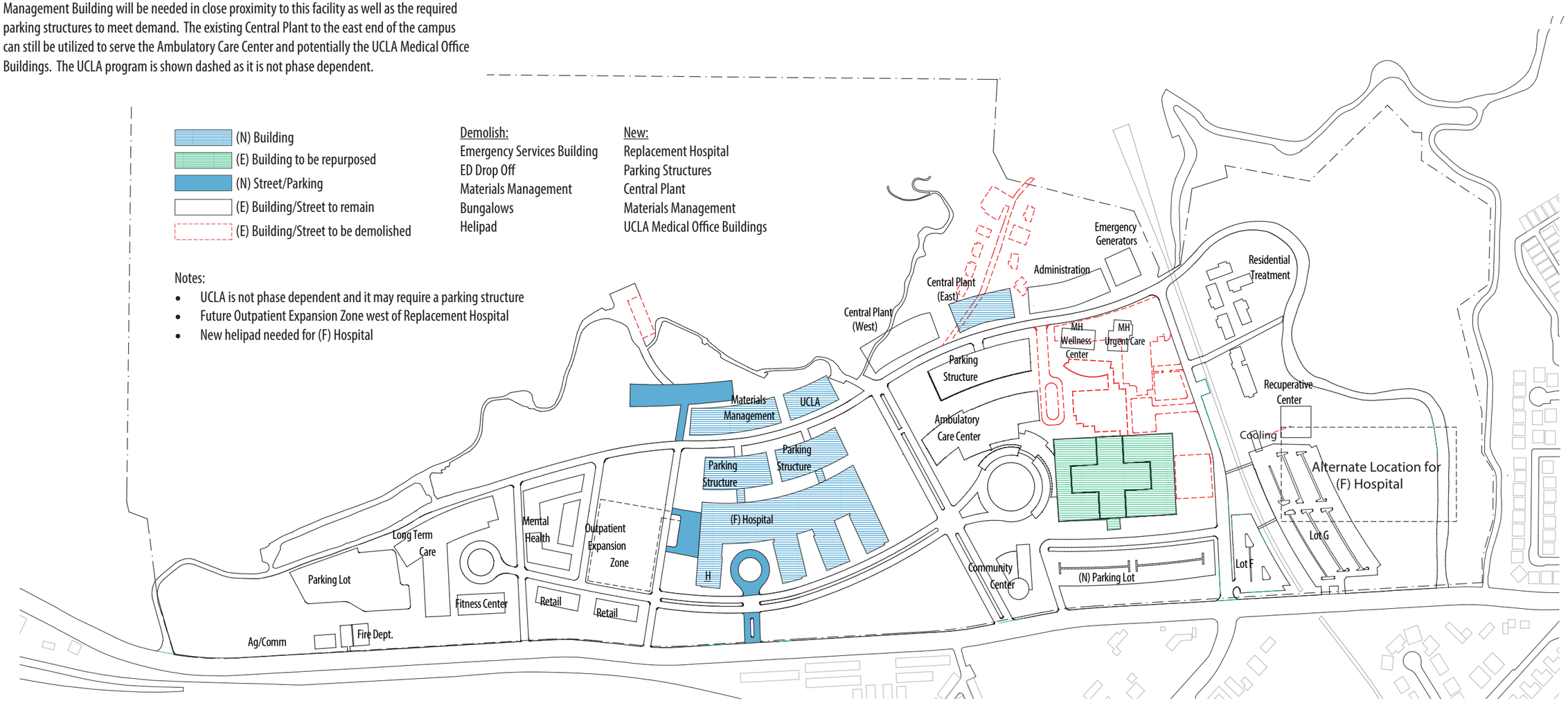
The third phase for Renovation reaches beyond the planning horizon described in the master plan report. If the medical center choses to renovate the existing Hospital, that facility can remain in operation beyond the requirements of OSHPD's 2030 deadline for seismic upgrades. When the time comes to replace this existing facility, it is still important to identify a zone on the campus where a new Hospital can be developed. A new dedicated Central Plant and Materials Management Building will be needed in close proximity to this facility as well as the required parking structures to meet demand. The existing Central Plant to the east end of the campus can still be utilized to serve the Ambulatory Care Center and potentially the UCLA Medical Office Buildings. The UCLA program is shown dashed as it is not phase dependent.

(N) Building
(E) Building to be repurposed
(N) Street/Parking
(E) Building/Street to remain
(E) Building/Street to be demolished

Demolish:
Emergency Services Building
ED Drop Off
Materials Management
Bungalows
Helipad

New:
Replacement Hospital
Parking Structures
Central Plant
Materials Management
UCLA Medical Office Buildings

Notes:
- UCLA is not phase dependent and it may require a parking structure
- Future Outpatient Expansion Zone west of Replacement Hospital
- New helipad needed for (F) Hospital

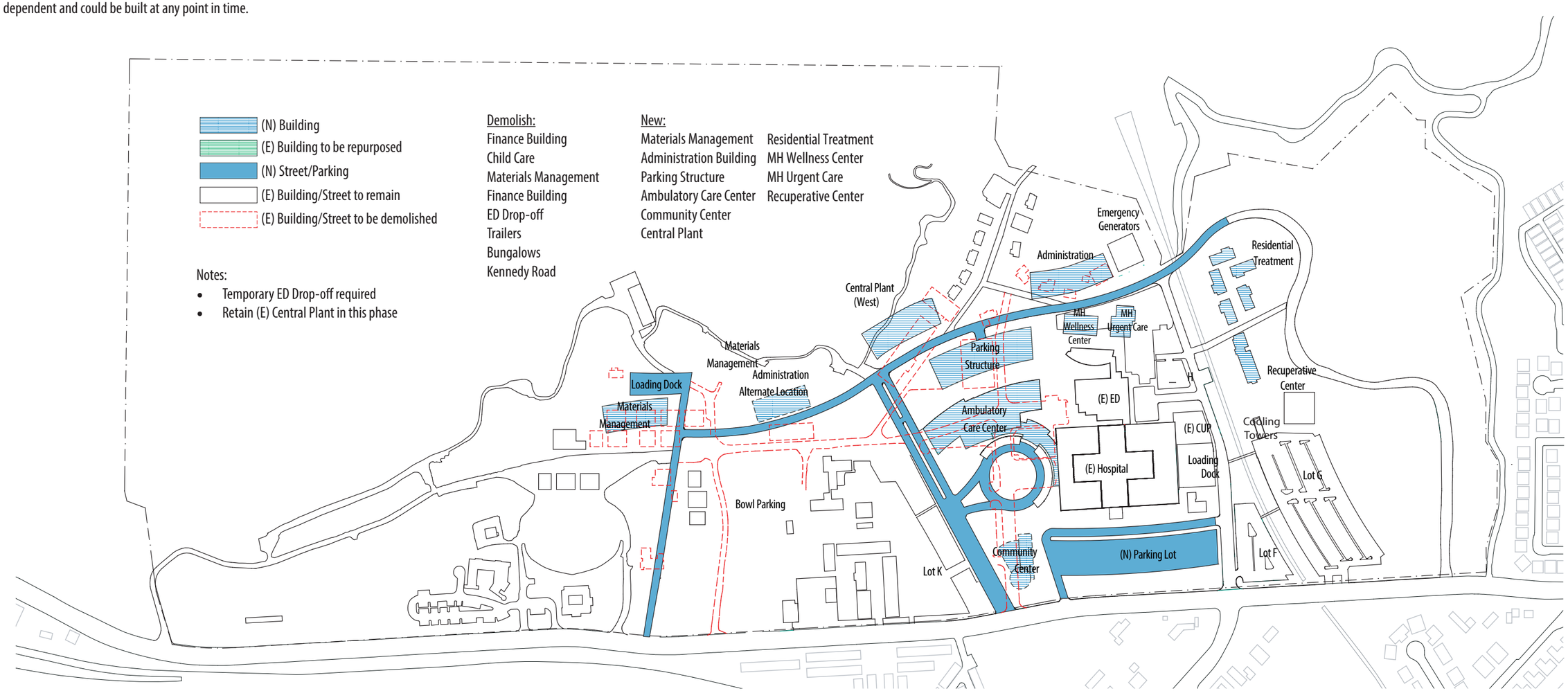


8.03 Phasing Diagram - Renovation Phase 3

(Original) SmithGroup JJR, 2015, (Updated) Perkins Eastman 2019

REPLACEMENT PHASE 1

Similar to the Renovation scheme, the first priority for the campus is a new Ambulatory Care Center and new Central Plant. A new parking structure to serve the Ambulatory Care Center is shown immediately to the north. Similarly, a new Materials Management Building is shown as the existing facility is displaced by the new parking structure. It is again suggested that a new Administration Building be provided to account for some of the impacts to the existing outlying cottages which currently house those services. A new Community Center is not necessarily phase dependent and could be built at any point in time.



8.04 Phasing Diagram - Replacement Phase 1

(Original) SmithGroup JJR, 2015, (Updated) Perkins Eastman 2019

REPLACEMENT PHASE 2

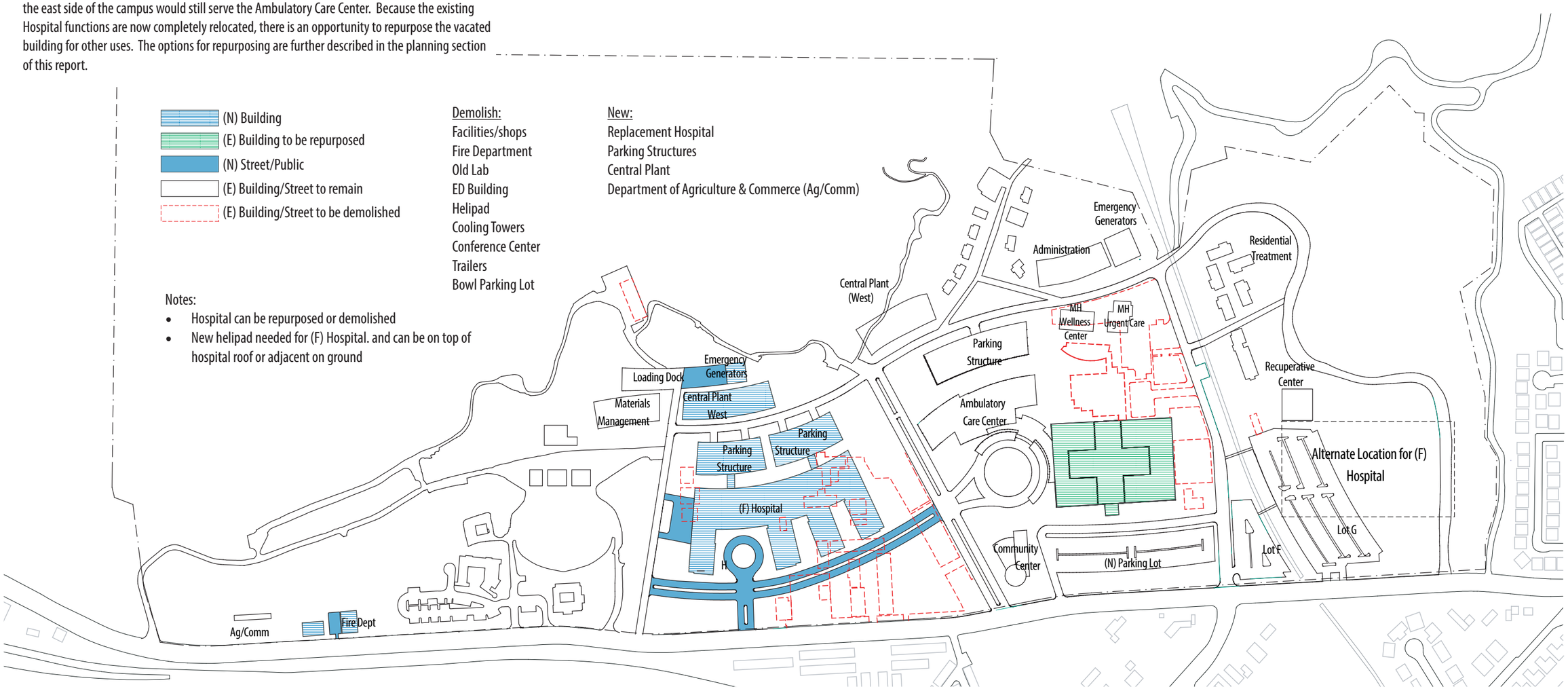
In contrast to the Renovation scheme which upgrades the existing Hospital to comply with the OSHPD seismic requirements and reserves an area for the future Hospital, the Replacement scheme is focused on developing a new facility within the planning horizon of 2035. Along with this new Hospital, parking structures are required to meet the demand. In addition, a new Central Plant is shown immediately to the north which would only serve this new Hospital. The central plant to the east side of the campus would still serve the Ambulatory Care Center. Because the existing Hospital functions are now completely relocated, there is an opportunity to repurpose the vacated building for other uses. The options for repurposing are further described in the planning section of this report.

(N) Building
(E) Building to be repurposed
(N) Street/Public
(E) Building/Street to remain
(E) Building/Street to be demolished

Demolish:
Facilities/shops
Fire Department
Old Lab
ED Building
Helipad
Cooling Towers
Conference Center
Trailers
Bowl Parking Lot

New:
Replacement Hospital
Parking Structures
Central Plant
Department of Agriculture & Commerce (Ag/Comm)

Notes:
- Hospital can be repurposed or demolished
- New helipad needed for (F) Hospital. and can be on top of hospital roof or adjacent on ground

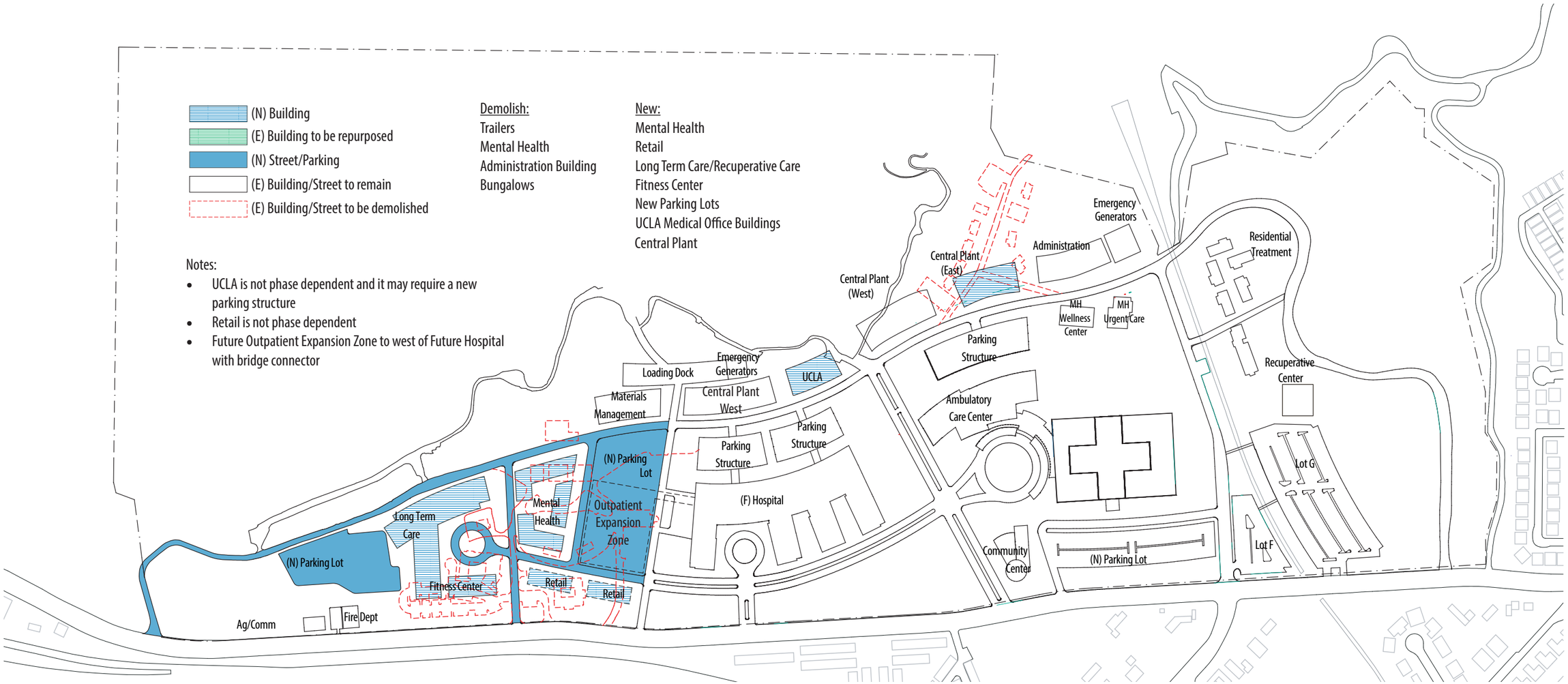


8.05 Phasing Diagram - Replacement Phase 2

(Original) SmithGroup JJR, 2015, (Updated) Perkins Eastman 2019

REPLACEMENT PHASE 3

The final phase consists of the development of the west end of the campus. The new Supportive Care/Recuperative Care Building and Mental Health buildings are located in this area. The Fitness Center will serve the Long Term Care Building. The retail buildings are not necessarily tied to this phase of development, but can be built when deemed appropriate to the campus.



8.06 Phasing Diagram - Replacement Phase 3

(Original) SmithGroup JJR, 2015, (Updated) Perkins Eastman 2019

(Original) SmithGroup JJR, 2015, (Updated) Perkins Eastman 2019

Future Hospital Entry Plaza and Drop-off

New Ambulatory Care Center and Existing Hospital Drop-off

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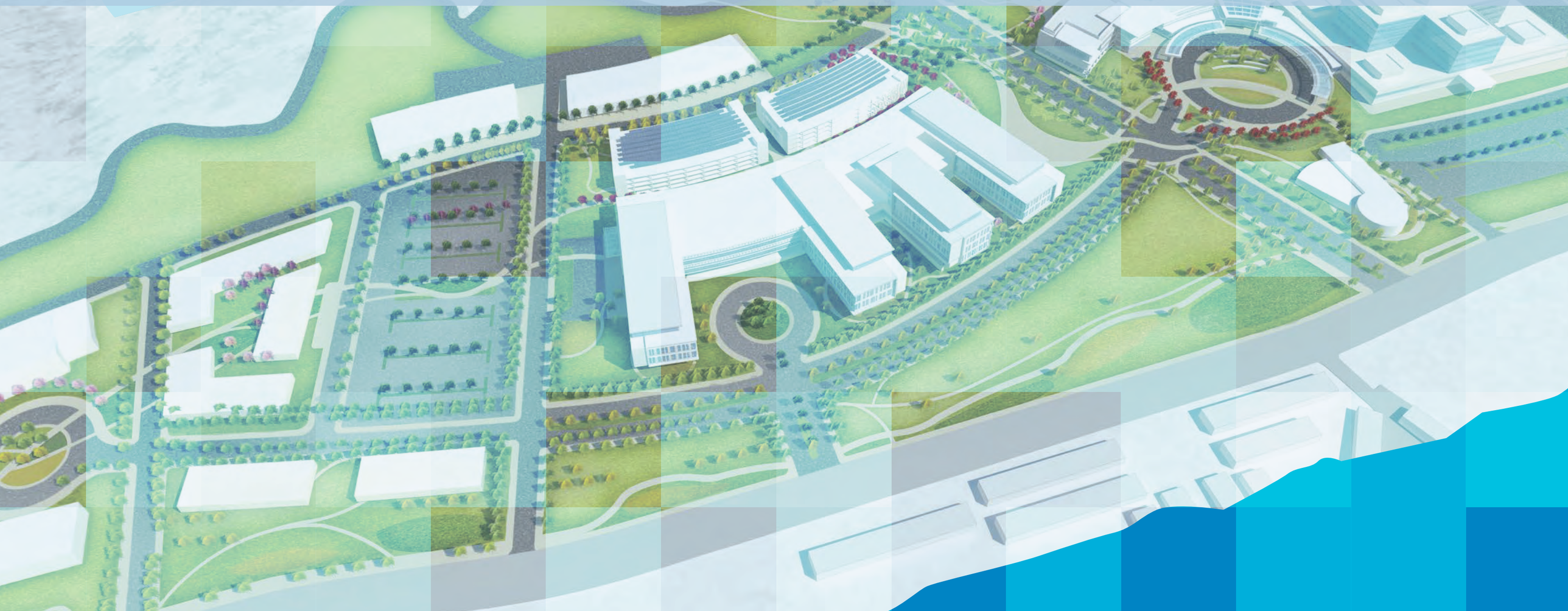

Appendix C

Air Quality, Energy, Greenhouse Gas Emissions Calculations

Los Angeles County Department of Public Works

Olive View-UCLA Medical Center Master Plan

ASSUMPTIONS

CONSTRUCTION

Tier 1A (Mental Health Wellness Center, Psych Urgent Care, Residential Treatment, and Recuperative Care)

Building	Demolition Required	Proposed	Units	Daily Trips	Daily Trips per ksf
Recuperative Care Center	-	16,356	sf	48	9.39
Residential Treatment Program Facility	-	47,035	sf	306	
Psychiatric Urgent Care Center	-	10,000	sf	335	
Mental Health Wellness Center	-	10,000	sf	297	29.70

Construction Schedule

Phase Name	Start Date	End Date	Num Days Week	Num Days
Demolition	1/1/2020	1/28/2020	5	20
Site Preparation	1/29/2020	1/30/2020	5	2
Grading	1/31/2020	2/5/2020	5	4
Building Construction	2/6/2020	11/11/2020	5	200
Paving	11/12/2020	11/25/2020	5	10
Architectural Coating	11/26/2020	12/9/2020	5	10

Assumptions / Notes

1. All buildings under construction concurrently. Default construction schedule based on building square footages.
2. Default construction equipment based on building square footages.
3. Off-site export is estimated to be 200 cy per day during the site prep and excavation phases; no import is assumed
4. No building demolition is required for the Restorative Village structures.
5. Default construction trip number and length.
6. Daily operational trips based on March 2019 TIA prepared by Fehr & Peers
7. Rule 403 compliance includes watering exposed areas three times per day and cleaning paved surfaces.
8. VOC content of architectural coatings changed to 50 g/L per SCAQMD Rule 1113

Tier 1B (Ambulatory Care Center, Parking Structure, Administration, Community Center, Material Management, and Central Plant East)

Building	Demolition Required	Proposed	Units	Daily Trips	Daily Trips per ksf	Import	Export
Ambulatory Care Center	-	296,000	sf	9,973	33.69	8,850	-
Parking Structure	-	674	spaces			700	3,600
Community Center	-	20,000	sf			1,000	1,000
Administration	52,300	96,000	sf			6,950	-
Central Plant East	51,000	77,000	sf			-	17,600
Material Management	32,500	68,100	sf			-	12,050
TOTAL	135,800				**TOTAL**	**17,500**	**34,250**
					Site Prep	5,833.33	11,417
					Grading	11,667	22,833

Construction Schedule

Phase Name	Start Date	End Date	Num Days Week	Num Days
Demolition	1/1/2021	1/28/2021	5	20
Site Preparation	1/29/2021	2/11/2021	5	10
Grading	2/12/2021	3/11/2021	5	20
Building Construction	3/12/2021	1/27/2022	5	230
Paving	1/28/2022	2/24/2022	5	20
Architectural Coating	2/25/2022	3/24/2022	5	20

Assumptions / Notes

1. All buildings under construction concurrently. Default construction schedule based on building square footages.
2. Default construction equipment based on building square footages.
3. Off-site export and import estimates provided by SmithGroupJJR. Import/export quantities assumed to be distributed evenly over demo, site prep, and grading phases.
4. Demolition square footage provided by SmithGroupJJR
5. Default construction trip number and length.
6. Daily operational trips based on March 2019 TIA prepared by Fehr & Peers
7. Rule 403 compliance includes watering exposed areas three times per day and cleaning paved surfaces.
8. VOC content of architectural coatings changed to 50 g/L per SCAQMD Rule 1113
9. Community center modeled as library, as this is the land use type that most closely resembles the function.

OPERATION

	Existing (sf)*	Proposed Tier 1 (sf)
Ambulatory Care Center	-	296,000
Community Center	9,300	20,000
Recuperative Care Center	-	16,356
Residential Treatment Program Facility	-	47,035
Psychiatric Urgent Care Center		10,000
Mental Health Wellness Center		10,000
Administration**	108,000	96,000
Retail	-	-
Mental Health	11,000	-
Materials Management/Supply Services	32,500	68,100
Central Utility Plant	51,000	77,000
Support Services Buildings	16,800	-
Storage Trailers (vacant during survey)	61,000	-
Parking Facilities		
Surface stalls	2,672	1,369
Stalls in structure	-	674
Surface square footage	1,256,000	643,000

Total Trips 6,132

Trips apportioned into Administration land use 56.78

* Only net changes in square footage were modeled under existing conditions.

Los Angeles County Department of Public Works
Olive View-UCLA Medical Center Master Plan
EMISSIONS FROM PERMITTED SOURCES

	MT/yr	tons/yr						lbs per average day					
	GHG	VOC	NOx	CO	SOx	PM10	PM2.5	VOC	NOx	CO	SOx	PM10	PM2.5
Existing (2016)	17,832	0.5	15.0	5.5	0.5	3.3	3.3	3	82	30	3	18	18
Net Proposed New Uses (a)	4,280	0.1	3.6	1.3	0.1	0.8	0.8	1	20	7	1	4	4
Ex + Project	22,112	1	19	7	1	4	4	4	102	37	4	23	23

Scalar (a) 24%

(a) Net increase in emissions after accounting for demolition of existing uses and construction of proposed new uses

	Existing	Tier 1A	Tier 1B
Area	0.5	0	<1
Energy	1,178	945	5,325
Mobile	11,190	1499	14,282
Waste	200	453	1,742
Water	424	74	635
	17,832		22,112
Permitted			
Total	*30,825*	*2,972*	*44,096*

Tier 1 Total	Net Emissions	Amortized Construction	Construction + Operation
47,068	16,243	55	16,298

GHGs is 2016; CP are 2016 from FIND

2018	2.0	17.6		0.5	3.4	3.4
2017	0.4	14.9	5.3	0.5	3.7	3.7
2016	0.542	14.981	5.451	0.518	3.346	3.346

Source: https://xappprod.aqmd.gov/find//facility/AQMDsearch?facilityID=3093

Year	GHGs
2012	16,610
2013	17,654
2014	17,596
2015	18,304
2016	17,832
2017	18,726

Source: https://ww2.arb.ca.gov/mrr-data

Tier 1 Building Square Footages

	Existing	Tier I (2035)	
		Proposed Demolition	Proposed New Development
Recuperative Care Center	-	-	16,356
Residential Treatment Program Facility	-	-	47,035
Mental Health Urgent Care Center			10,000
Mental Health Wellness Center			10,000
Ambulatory Care Center	-	-	296,000
Inpatient Hospital	534,300	4,300	
Community Center	9,300	-	10,000
Central Utility Plant	51,000	51,000	77,000
Materials Management/Supply Services	32,500	32,500	68,100
Administration**	108,000	52,300	96,000
Support Services Buildings	16,800	16,800	
Research and Development			
Long-Term Care			
Retail	-	-	-
Mental Health	11,000	-	-
Storage Trailers (vacant during survey)	61,000	-	-
	823,900	**-156,900**	**640,491**
Energy Use Intensity (kBtu/SF-yr)	450	450	250
Energy Use (kBtu/yr)	370,755,000	(70,605,000)	160,122,750
			124%

	Energy Use Intensity (kBtu/SF-yr)	% Reduction from Existing
Existing	450	-
2020	250	44%
2030	50	89%

Source: August 2015 Olive View-UCLA Medical Center Master Plan, Figure 6.49, p. 103

TOTAL
460,272,750

Los Angeles County Department of Public Works
Olive View-UCLA Medical Center Master Plan
CONSTRUCTION EMISSIONS

Daily Construction Emissions

Tier 1A (Mental Health Wellness Center, Psych Urgent Care, Residential Treatment, and Recuperative Care)

Daily Construction Emissions (pounds per day) - Unmitigated

		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Demolition	On-Site	2	21	15	0		1	1		1	1
	Off-Site	0	0	1	0	0	0	0	0	0	0
	Phase Total	**2**	**21**	**15**	**0**	**0**	**1**	**1**	**0**	**1**	**1**
Site Preparation	On-Site	2	18	8	0	2	1	3	1	1	2
	Off-Site	0	4	1	0	0	0	0	0	0	0
	Phase Total	**2**	**22**	**9**	**0**	**2**	**1**	**3**	**1**	**1**	**2**
Grading	On-Site	1	15	6	0	2	1	3	1	1	2
	Off-Site	0	2	1	0	0	0	0	0	0	0
	Phase Total	**1**	**17**	**7**	**0**	**2**	**1**	**3**	**1**	**1**	**2**
Building Construction	On-Site	2	15	13	0		1	1		1	1
	Off-Site	0	2	2	0	0	0	0	0	0	0
	Phase Total	**2**	**16**	**15**	**0**	**0**	**1**	**1**	**0**	**1**	**1**
Paving	On-Site	1	8	9	0		0	0		0	0
	Off-Site	0	0	1	0	0	0	0	0	0	0
	Phase Total	**1**	**8**	**9**	**0**	**0**	**0**	**1**	**0**	**0**	**0**
Architectural Coating	On-Site	39	2	2	0		0	0		0	0
	Off-Site	0	0	0	0	0	0	0	0	0	0
	Phase Total	**39**	**2**	**2**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Localized Emissions											
On-Site Emissions		39	21	15	0	2	1	3	1	1	2
10% of off-site emissions		0.00	0.00	0.11	0.00	0.02	0.00	0.01	0.00	0.00	0.00
Total On-Site Emissions		39	21	15	0	2	1	3	1	1	2
Localized Significance Thresholds (a)		N/A	122	2,227	N/A	N/A	N/A	54	N/A	N/A	18
Exceeds Threshold?		No	No	No	No	No	No	No	No	No	No
Regional Emissions											
Maximum Regional Emissions		39	22	15	0	2	1	3	1	1	2
Regional Significance Thresholds		75	100	550	150	N/A	N/A	150	N/A	N/A	55
Exceeds Threshold?		No	No	No	No	No	No	No	No	No	No

(a) LSTs for SRA 7 assume 1-acre site and a 200-m receptor distance. Actual receptor distance is approximately 350 m.

Tier 1B (Ambulatory Care Center, Parking Structure, Administration, Community Center, Material Management, and Central Plant East)

Daily Construction Emissions (pounds per day) - Unmitigated

		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Demolition	On-Site	3	31	22	0	3	2	4	0	1	2
	Off-Site	0	8	3	0	0	0	0	0	0	0
	Phase Total	**3**	**40**	**24**	**0**	**3**	**2**	**5**	**1**	**1**	**2**
Site Preparation	On-Site	4	40	21	0	7	2	9	4	2	6
	Off-Site	2	58	14	0	2	0	3	1	0	1
	Phase Total	**6**	**98**	**35**	**0**	**10**	**2**	**12**	**5**	**2**	**7**
Grading	On-Site	2	25	16	0	3	1	4	1	1	2
	Off-Site	2	58	14	0	2	0	3	1	0	1
	Phase Total	**4**	**83**	**30**	**0**	**5**	**1**	**6**	**2**	**1**	**3**
Building Construction (2021)	On-Site	2	17	17	0		1	1		1	1
	Off-Site	2	14	16	0	3	0	3	1	0	1
	Phase Total	**4**	**31**	**32**	**0**	**3**	**1**	**4**	**1**	**1**	**2**
Building Construction (2022)	On-Site	2	16	16	0		1	1		1	1
	Off-Site	2	13	15	0	3	0	3	1	0	1
	Phase Total	**3**	**29**	**31**	**0**	**3**	**1**	**3**	**1**	**1**	**2**
Paving	On-Site	1	11	15	0		1	1		1	1
	Off-Site	0	0	1	0	0	0	0	0	0	0
	Phase Total	**1**	**11**	**15**	**0**	**0**	**1**	**1**	**0**	**1**	**1**
Architectural Coating	On-Site	66	1	2	0		0	0		0	0
	Off-Site	0	0	2	0	0	0	0	0	0	0
	Phase Total	**66**	**2**	**4**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Localized Emissions											
On-Site Total Emissions		66	40	22	0	7	2	9	4	2	6
10% of off-site emissions		0.02	5.79	0.25	0.02	0.25	0.02	0.26	0.07	0.02	0.09
Total On-Site Emissions		66	46	22	0	8	2	10	4	2	6
Localized Significance Thresholds (b)		N/A	165	1,872	N/A	N/A	N/A	42	N/A	N/A	10
Exceeds Threshold?		N/A	No	No	N/A	N/A	N/A	No	N/A	N/A	No
Regional Emissions											
Maximum Regional Emissions		66	98	35	0	10	2	12	5	2	7
Regional Significance Thresholds		75	100	550	150	N/A	N/A	150	N/A	N/A	55
Exceeds Threshold?		No	No	No	No	No	No	No	No	No	No

(b) LSTs for SRA 7 assume 5-acre site and a 50-m receptor distance from the proposed community center to the multi-family residential development south of the site.

Daily Construction Emissions (pounds per day) - Mitigated with Architectural Coatings VOC 25 g/L or less

		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Demolition	On-Site	3	31	22	0	3	2	4	0	1	2
	Off-Site	0	8	3	0	0	0	0	0	0	0
	Phase Total	**3**	**40**	**24**	**0**	**3**	**2**	**5**	**1**	**1**	**2**
Site Preparation	On-Site	4	40	21	0	7	2	9	4	2	6
	Off-Site	2	58	14	0	2	0	3	1	0	1
	Phase Total	**6**	**98**	**35**	**0**	**10**	**2**	**12**	**5**	**2**	**7**
Grading	On-Site	2	25	16	0	3	1	4	1	1	2
	Off-Site	2	58	14	0	2	0	3	1	0	1
	Phase Total	**4**	**83**	**30**	**0**	**5**	**1**	**6**	**2**	**1**	**3**
Building Construction (2021)	On-Site	2	17	17	0		1	1		1	1
	Off-Site	2	14	16	0	3	0	3	1	0	1
	Phase Total	**4**	**31**	**32**	**0**	**3**	**1**	**4**	**1**	**1**	**2**
Building Construction (2022)	On-Site	2	16	16	0		1	1		1	1
	Off-Site	2	13	15	0	3	0	3	1	0	1
	Phase Total	**3**	**29**	**31**	**0**	**3**	**1**	**3**	**1**	**1**	**2**
Paving	On-Site	1	11	15	0		1	1		1	1
	Off-Site	0	0	1	0	0	0	0	0	0	0
	Phase Total	**1**	**11**	**15**	**0**	**0**	**1**	**1**	**0**	**1**	**1**
Architectural Coating	On-Site	66	1	2	0		0	0		0	0
	Off-Site	0	0	2	0	0	0	0	0	0	0
	Phase Total	**66**	**2**	**4**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Localized Emissions											
On-Site Total Emissions		66	40	22	0	7	2	9	4	2	6
10% of off-site emissions		0.02	5.79	0.25	0.02	0.25	0.02	0.26	0.07	0.02	0.09
Total On-Site Emissions		66	46	22	0	8	2	10	4	2	6
Localized Significance Thresholds (b)		N/A	165	1,872	N/A	N/A	N/A	42	N/A	N/A	10
Exceeds Threshold?		No	No	No	No	No	No	No	No	No	No
Regional Emissions											
Maximum Regional Emissions		66	98	35	0	10	2	12	5	2	7
Regional Significance Thresholds		75	100	550	150	N/A	N/A	150	N/A	N/A	55
Exceeds Threshold?		No	No	No	No	No	No	No	No	No	No

b. LSTs for SRA 7 assume 5-acre site and a 50-m receptor distance from the proposed community center to the multi-family residential development south of the site.

Annual Construction Emissions

Tier 1A (Mental Health Wellness Center, Psych Urgent Care, Residential Treatment, and Recuperative Care)

Annual Construction Emissions (tons per year, metric tons for CO2e) - Unmitigated

		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	CO2 Total (MT)	CO2e Total (MT)
Tier 1A	2020	0.45	1.96	1.70	0.00	0.03	0.10	0.13	0.01	0.09	0.10	280.54	281.6763
	Total	**0.45**	**1.96**	**1.70**	**0.00**	**0.03**	**0.10**	**0.13**	**0.01**	**0.09**	**0.10**	**280.54**	**281.6763**

Tier 1B (Ambulatory Care Center, Parking Structure, Administration, Community Center, Material Management, and Central Plant East)

Annual Construction Emissions (tons per year, metric tons for CO2e) - Unmitigated

		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	CO2 Total (MT)	CO2e Total (MT)
Tier 1B	2021	0.49	5.10	4.08	0.01	0.39	0.15	0.54	0.12	0.14	0.26	1267.50	1270.804
	2022	0.70	0.41	0.48	0.00	0.03	0.01	0.04	0.01	0.01	0.02	111.20	111.5647
	Total	**1.193**	**5.505**	**4.5626**	**0.01493**	**0.4163**	**0.1619**	**0.5783**	**0.13128**	**0.1517**	**0.283**	**1378.69**	**1382.369**

Amortized Construction Emissions	**55.47** MT CO2e

Los Angeles County Department of Public Works
Olive View-UCLA Medical Center Master Plan
OPERATIONAL EMISSIONS

Daily Operational Emissions

Existing Daily Operational Emissions (pounds per day)

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Area	6	0	0	0		0	0		0	0
Energy	0	1	1	0		0	0		0	0
Mobile	22	90	295	1	49	1	50	13	1	14
Permitted Stationary Sources	3	82	30	3			18			18
Total	**31**	**173**	**325**	**4**	**49**	**1**	**68**	**13**	**1**	**32**

Tier 1A (Mental Health Wellness Center, Psych Urgent Care, Residential Treatment, and Recuperative Care)

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Area	2	0	0	0		0	0		0	0
Energy	0	1	1	0		0	0		0	0
Mobile	2	9	27	0	7	0	7	2	0	2
Total	**4**	**10**	**28**	**0**	**7**	**0**	**7**	**2**	**0**	**2**

Tier 1B (Ambulatory Care Center, Parking Structure, Administration, Community Center, Material Management, and Central Plant East)

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Area	12	0	0	0		0	0		0	0
Energy	1	6	5	0		0	0		0	0
Mobile	17	73	254	1	82	1	83	22	1	23
Net Mobile (Tier 1B-Tier 1A) (a)	16	64	227	1	75	1	76	20	1	21
Permitted Stationary Sources	4	102	37	4			23			23
Total	**32**	**172**	**269**	**4**	**75**	**1**	**99**	**20**	**1**	**44**

(a) The CalEEMod run for Tier 1B included all trips at Tier 1 buildout, including those associated the Tier 1A Restorative Care Village

Net Daily Operational Emissions (pounds per day)

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Regional	4	9	-29	1	34	0	38	9	0	14
Localized	8	20	7	1	N/A	N/A	4	N/A	N/A	4
Regional Threshold	55	55	550	150	N/A	N/A	150	N/A	N/A	55
LST (b)	N/A	194	4119	N/A	N/A	N/A	21	N/A	N/A	7

(b) 5-acre site with a 200-m receptor distance in SRA 7. Receptor distance is based on the distance from the nearest new on-site stationary source (at proposed ambulatory care center) to the nearest off-site receptor (multi-family residences south of Olive View Drive).

Annual Operational Emissions

Existing Annual Operational Emissions (tons per year)

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	CO2e (MT/yr)	CO2e (MT/yr)
Area	1	0	0	0		0	0		0	0	0	0
Energy	0	0	0	0		0	0		0	0	1174	1178
Mobile	4	17	52	0	9	0	9	2	0	3	11170	11190
Waste						0	0		0	0	81	200
Water						0	0		0	0	363	424
Permitted Stationary Sources	1	15	5	1			3			3	17832	17832
Total	**6**	**32**	**58**	**1**	**9**	**0**	**12**	**2**	**0**	**6**	**30621**	**30825**

Tier 1A (Mental Health Wellness Center, Psych Urgent Care, Residential Treatment, and Recuperative Care)

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	CO2e (MT/yr)	CO2e (MT/yr)
Area	0	0	0	0		0	0		0	0	0	0
Energy	0	0	0	0		0	0		0	0	942	945
Mobile	0	2	5	0	1	0	1	0	0	0	1497	1499
Waste						0	0		0	0	183	453
Water						0	0		0	0	63	74
Total	**1**	**2**	**5**	**0**	**1**	**0**	**1**	**0**	**0**	**0**	**2972**	**2972**

Tier 1B (Ambulatory Care Center, Parking Structure, Administration, Community Center, Material Management, and Central Plant East)

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	CO2e (MT/yr)	CO2e (MT/yr)
Area	2	0	0	0		0	0		0	0	0	0
Energy	0	1	1	0		0	0		0	0	5306	5325
Mobile	3	14	44	0	15	0	15	4	0	4	15763	15782
Net Mobile (Tier 1B-Tier 1A) (a)	3	12	39	0	13	0	13	4	0	4	14265	14282
Waste						0	0		0	0	703	1742
Water						0	0		0	0	541	635
Permitted Stationary Sources	1	20	7	1			4	4.400219		4	22112	22112
Total	**6**	**33**	**48**	**1**	**13**	**0**	**18**	**8**	**0**	**8**	**42927**	**44096**

(a) The CalEEMod run for Tier 1B included all trips at Tier 1 buildout, including those associated the Tier 1A Restorative Care Village

Net Annual Operational Emissions (tons per year)

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	CO2e (MT/yr)	CO2e (MT/yr)
Regional	**1**	**2**	**-5**	**0**	**6**	**0**	**7**	**6**	**0**	**3**	**15278**	**16243**

Los Angeles County Department of Public Works
Olive View-UCLA Medical Center Master Plan
ENERGY

Tier 1A (Mental Health Wellness Center, Psych Urgent Care, Residential Treatment, and Recuperative Care)

Construction

1	2	3		4	5	6
C02 (metric tons)	**pounds per ton**	**pounds CO2**	**kg of CO2 per gallon of motor gasoline**	**pounds of CO2 per gallon diesel**	**gallons diesel**	**Btu/gal (gross)**
280.54	2,000	561,070	10.21	22.51	24,926	138,700
		=Col 1* Col 2			=Col 3 / Col 4	
CalEEMod output			Climate Registry 2017	Conversion factor		Oak Ridge National Lab 2019

7
MMBTU
3,457.28
=Col 5*Col6/1 mill

Construction MMBTU	**3,457**

Operation

	1	***2***	***3***	***4***	***5***	***6***
				kWh	**BTU/kWh**	**MMBTU/yr**
Electricity				1,804,684	3,412	6,158
				CalEEMod		=Col 5 * Col 6/1M
					kBTU	**MMBTU/yr**
Natural Gas					4,856,900	4,856.90
					CalEEMod	= Col 5/1,000
	MT/CO2 per year	**pounds/MT**	**pounds of CO2 for 90% gas/10% diesel trips**	**gallons of fuel**	**Btu/gal (gross)**	**MMBTU/yr**
Mobile	1,497.14	2204.6	19.89	165,944	138,700	23,016
	CalEEMod		19.6 lbs CO2/gal gas 22.5 lbs CO2/gal diesel	= Col 1 * Col 2/Col 3		=Col 4 * Col 5/1,000,000

Annual MMBTU	**34,031**

Tier 1B (Ambulatory Care Center, Parking Structure, Administration, Community Center, Material Management, and Central Plant East)

Construction

1	2	3		4	5	6
C02 (metric tons)	**pounds per ton**	**pounds CO2**	**kg of CO2 per gallon of motor gasoline**	**pounds of CO2 per gallon diesel**	**gallons diesel**	**Btu/gal (gross)**
1,378.69	2,000	2,757,390	10.21	22.51	122,501	138,700
		=Col 1* Col 2			=Col 3 / Col 4	
CalEEMod output			Climate Registry 2017	Conversion factor		Oak Ridge National Lab 2019

7
MMBTU
16,990.85
=Col 5*Col6/1 mill

Construction MMBTU	**16,991**

Operation

	1	2	3	4	5	6
				kWh	**BTU/kWh**	**MMBTU/yr**
Electricity				10,923,910	3,412	37,272
				CalEEMod		=Col 5 * Col 6/1M
					kBTU	**MMBTU/yr**
Natural Gas					21,983,307	21,983.31
					CalEEMod	= Col 5/1,000
	MT/CO2 per year	**pounds/MT**	**pounds of CO2 for 90% gas/10% diesel trips**	**gallons of fuel**	**Btu/gal (gross)**	**MMBTU/yr**
Mobile (a)	14,265.36	2204.6	19.89	1,581,184	138,700	219,310
	CalEEMod		19.6 lbs CO2/gal gas	= Col 1 * Col 2/Col 3		=Col 4 * Col 5/1,000,000
			22.5 lbs CO2/gal diesel			
Permitted Sources (b)					**Kbtu**	**MMBTU/yr**
					460,272,750	460,273
					LACDPW 2015	=Col 5/1,000
			Annual MMBTU	**738,839**		

Existing Conditions

Operation

	1	2	3	4	5	6
				kWh	**BTU/kWh**	**MMBTU/yr**
Electricity				2,749,848	3,412	9,382
				CalEEMod		=Col 5 * Col 6/1M
					kBTU	**MMBTU/yr**
Natural Gas					2,514,843	2,514.84
					CalEEMod	= Col 5/1,000
	MT/CO2 per year	**pounds/MT**	**pounds of CO2 for 90% gas/10% diesel trips**	**gallons of fuel**	**Btu/gal (gross)**	**MMBTU/yr**
Mobile	11,170.10	2204.6	19.89	1,238,102	138,700	171,725
	CalEEMod		19.6 lbs CO2/gal gas	= Col 1 * Col 2/Col 3		=Col 4 * Col 5/1,000,000
			22.5 lbs CO2/gal diesel			
Permitted Sources					**Kbtu**	**MMBTU/yr**
					370,755,000	370,755
					LACDPW 2015	=Col 5/1,000
			Annual MMBTU	**554,377**		

Net Operational MMBTU	**218,492**

(a) The CalEEMod run for Tier 1B included all trips at Tier 1 buildout, including those associated the Tier 1A Restorative Care Village. The number in this table reduces the CO2 emissions from Tier 1A mobile sources.

(b) All proposed permitted sources under Tier 1 assumed in Tier 1B. See Permitted Sources sheet.

Sources

Oak Ridge National Laboratory. 2019. Transportation Energy Data Book, Edition 37. Table B.4: Heat Content for Various Fuels.

Climate Registry. 2017. Default Emissions Factors. Table 13.1.1.

LACDPW. 2015. Olive View-UCLA Medical Center Master Plan, Figure 6.49, p. 103. kBtu/sf-yr multiplied by Existing and Tier I square footages. See Emisions from Permitted Sources sheets.

Los Angeles County Department of Public Works

Olive View-UCLA Medical Center Master Plan

Peak Hour Intersection Turning Movement Volumes (2035 Cumulative + Project)

Intersection #	Street 1 (North-South)	Street 2 (East-West)		Direction	AM	PM	AM Total	PM Total	Estimated Daily Vol
				N-S Vol	217	158			
1	Glenoaks	Foothill		E-W Vol	385	317	602	475	5385
				N-S Vol	749	904			
2	Roxford	I-210 WB Ramps		E-W Vol	364	197	1113	1101	11070
				N-S Vol	658	545			
3	Roxford	I-210 EB Ramps		E-W Vol	470	252	1128	797	9625
				N-S Vol	795	609			
4	Roxford	Foothill		E-W Vol	413	248	1208	857	10325
				N-S Vol	742	580			
5	Roxford	Glenoaks		E-W Vol	390	205	1132	785	9585
				N-S Vol	601	434			
6	Roxford	San Fernando		E-W Vol	351	384	952	818	8850
				N-S Vol	654	667			
7	Roxford	Encinitas/I-5 NB		E-W Vol	655	300	1309	967	11380
				N-S Vol	1278	896			
8	Roxford	I-5 SB Ramps		E-W Vol	251	265	1529	1161	13450
				N-S Vol	338	306			
9	Bledsoe	Olive View		E-W Vol	521	188	859	494	6765
				N-S Vol	280	251			
10	Bledsoe	Foothill		E-W Vol	335	262	615	513	5640
				N-S Vol	294	188			
11	Bledsoe	Glenoaks		E-W Vol	596	472	890	660	7750
				N-S Vol	830	595			
12	Polk	I-210 WB Ramps		E-W Vol	553	661	1383	1256	13195
				N-S Vol	1268	871			
13	Polk	I-210 EB Ramps		E-W Vol	309	299	1577	1170	13735
				N-S Vol	758	814			
14	Polk	Foothill		E-W Vol	642	498	1400	1312	13560
								Maximum	**13735**

LOS and V/C				Without Project		With Project		
Intersection #	Street 1 (North-South)	Street 2 (East-West)	Peak Hour	V/C	LOS	V/C	LOS	Change in V/C
			AM	0.283	A	0.301	A	0.018
1	Glenoaks	Foothill	PM	0.197	A	0.217	A	0.02
			AM	0.596	A	0.642	B	0.046
2	Roxford	I-210 WB Ramps	PM	0.539	A	0.634	B	0.095
			AM	0.607	B	0.692	B	0.085
3	Roxford	I-210 EB Ramps	PM	0.419	A	0.459	A	0.04
			AM	0.747	C	0.779	C	0.032
4	Roxford	Foothill	PM	0.508	A	0.523	A	0.015
			AM	0.63	B	0.655	B	0.025
5	Roxford	Glenoaks	PM	0.411	A	0.423	A	0.012
			AM	0.588	A	0.592	A	0.004
6	Roxford	San Fernando	PM	0.487	A	0.495	A	0.008
			AM	0.809	D	0.819	D	0.01
7	Roxford	Encinitas/I-5 NB	PM	0.568	A	0.579	A	0.011
			AM	0.969	E	0.973	E	0.004
8	Roxford	I-5 SB Ramps	PM	0.703	C	0.715	C	0.012
			AM	-	-	-	-	-
9	Bledsoe	Olive View	PM	-	-	-	-	-
			AM	0.292	A	0.31	A	0.018
10	Bledsoe	Foothill	PM	0.22	A	0.242	A	0.022
			AM	0.492	A	0.493	A	0.001
11	Bledsoe	Glenoaks	PM	0.336	A	0.34	A	0.004
			AM	0.807	D	0.822	D	0.015
12	Polk	I-210 WB Ramps	PM	0.729	C	0.737	C	0.008
			AM	0.945	E	0.951	E	0.006
13	Polk	I-210 EB Ramps	PM	0.666	B	0.68	B	0.014
			AM	0.909	E	0.918	E	0.009
14	Polk	Foothill	PM	0.836	D	0.854	D	0.018

Olive View Medical Center - Existing (2016) Operations

Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	108.00	1000sqft	2.48	108,000.00	0
General Office Building	16.80	1000sqft	0.39	16,800.00	0
Medical Office Building	11.00	1000sqft	0.25	11,000.00	0
Day-Care Center	9.30	1000sqft	0.21	9,300.00	0
General Light Industry	51.00	1000sqft	1.17	51,000.00	0
Unrefrigerated Warehouse-No Rail	32.50	1000sqft	0.75	32,500.00	0
Unrefrigerated Warehouse-No Rail	61.00	1000sqft	1.40	61,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2016
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	834	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - LADWP CO2 intensity revised based on 2016 CO2 intensity identified in 2017 Power Strategic Long-Term Resource Plan (p. C-15).

Land Use - Square footages from project description

Construction Phase - Existing operations only. No construction considered for this run.

Off-road Equipment - Existing operations only. No construction considered for this run.

Off-road Equipment - Existing operations only. No construction considered for this run.

Off-road Equipment - Existing operations only. No construction considered for this run.

Off-road Equipment - Existing operations only. No construction considered for this run.

Off-road Equipment - Existing operations only. No construction considered for this run.

Off-road Equipment - Existing operations only. No construction considered for this run.

Grading - Existing operations only. No construction considered for this run.

Trips and VMT - Existing operations only. No construction considered for this run.

On-road Fugitive Dust - Existing operations only. No construction considered for this run.

Architectural Coating - Existing operations only. No construction considered for this run.

Vehicle Trips - According to the Traffic Impact Analysis, there are 6,132 trips daily. All have been apportioned to the Administration (general office) land use. All other trips have been zeroed out.

Vehicle Emission Factors - Defaults used.

Vehicle Emission Factors - Defaults used.

Vehicle Emission Factors - Defaults used.

Road Dust - Defaults used.

Energy Use - Defaults used.

Water And Wastewater - Defaults used.

Solid Waste - Defaults used.

Olive View Medical Center - Existing (2016) Operations - Los Angeles-South Coast County, Summer

Table Name	Column Name	Default Value	New Value
tblProjectCharacteristics	CO2IntensityFactor	1227.89	834
tblVehicleTrips	ST_TR	6.21	0.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	ST_TR	2.46	56.78
tblVehicleTrips	ST_TR	8.96	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	5.83	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	SU_TR	1.05	56.78
tblVehicleTrips	SU_TR	1.55	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	74.06	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblVehicleTrips	WD_TR	11.03	56.78
tblVehicleTrips	WD_TR	36.13	0.00
tblVehicleTrips	WD_TR	1.68	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2014	5.4066	55.9350	31.3347	0.0545	18.2675	3.1640	21.4315	9.9840	2.9109	12.8949	0.0000	5,536.4948	5,536.4948	1.2087	0.0000	5,558.5984
2015	134.8126	37.8657	29.6439	0.0542	1.5081	2.2180	3.7260	0.4068	2.0866	2.4933	0.0000	5,492.6626	5,492.6626	0.8550	0.0000	5,514.0366
Maximum	**134.8126**	**55.9350**	**31.3347**	**0.0545**	**18.2675**	**3.1640**	**21.4315**	**9.9840**	**2.9109**	**12.8949**	**0.0000**	**5,536.4948**	**5,536.4948**	**1.2087**	**0.0000**	**5,558.5984**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2014	5.4066	55.9350	31.3347	0.0545	18.2675	3.1640	21.4315	9.9840	2.9109	12.8949	0.0000	5,536.4948	5,536.4948	1.2087	0.0000	5,558.5984
2015	134.8126	37.8657	29.6439	0.0542	1.5081	2.2180	3.7260	0.4068	2.0866	2.4933	0.0000	5,492.6626	5,492.6626	0.8550	0.0000	5,514.0366
Maximum	**134.8126**	**55.9350**	**31.3347**	**0.0545**	**18.2675**	**3.1640**	**21.4315**	**9.9840**	**2.9109**	**12.8949**	**0.0000**	**5,536.4948**	**5,536.4948**	**1.2087**	**0.0000**	**5,558.5984**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	6.4725	2.9000e-004	0.0303	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004		0.0634	0.0634	1.8000e-004		0.0679
Energy	0.0743	0.6755	0.5674	4.0500e-003		0.0513	0.0513		0.0513	0.0513		810.5860	810.5860	0.0155	0.0149	815.4029
Mobile	21.9108	90.3015	294.8523	0.6936	48.5746	1.0552	49.6298	13.0078	0.9970	14.0048		70,170.4214	70,170.4214	4.8404		70,291.4308
Total	**28.4577**	**90.9773**	**295.4500**	**0.6977**	**48.5746**	**1.1066**	**49.6812**	**13.0078**	**1.0484**	**14.0562**		**70,981.0707**	**70,981.0707**	**4.8561**	**0.0149**	**71,106.9015**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	6.4725	2.9000e-004	0.0303	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004		0.0634	0.0634	1.8000e-004		0.0679
Energy	0.0743	0.6755	0.5674	4.0500e-003		0.0513	0.0513		0.0513	0.0513		810.5860	810.5860	0.0155	0.0149	815.4029
Mobile	21.9108	90.3015	294.8523	0.6936	48.5746	1.0552	49.6298	13.0078	0.9970	14.0048		70,170.4214	70,170.4214	4.8404		70,291.4308
Total	**28.4577**	**90.9773**	**295.4500**	**0.6977**	**48.5746**	**1.1066**	**49.6812**	**13.0078**	**1.0484**	**14.0562**		**70,981.0707**	**70,981.0707**	**4.8561**	**0.0149**	**71,106.9015**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2014	1/28/2014	5	20	
2	Site Preparation	Site Preparation	1/29/2014	2/11/2014	5	10	
3	Grading	Grading	2/12/2014	3/25/2014	5	20	
4	Building Construction	Building Construction	3/26/2014	5/19/2015	5	230	
5	Paving	Paving	5/20/2015	6/16/2015	5	20	
6	Architectural Coating	Architectural Coating	6/17/2015	7/14/2015	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 434,400; Non-Residential Outdoor: 144,800; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Olive View Medical Center - Existing (2016) Operations - Los Angeles-South Coast County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Excavators	3	8.00	158	0.38
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Excavators	1	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Paving Equipment	2	8.00	132	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	22.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	108.00	47.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	4.5339	47.9591	23.3048	0.0388		2.5246	2.5246		2.3570	2.3570		4,047.0313	4,047.0313	1.0907		4,074.2982
Total	**4.5339**	**47.9591**	**23.3048**	**0.0388**		**2.5246**	**2.5246**		**2.3570**	**2.3570**		**4,047.0313**	**4,047.0313**	**1.0907**		**4,074.2982**

3.2 Demolition - 2014

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1350	0.1077	1.3458	2.0900e-003	0.1677	1.8900e-003	0.1696	0.0445	1.7500e-003	0.0462		206.7599	206.7599	0.0117		207.0530
Total	**0.1350**	**0.1077**	**1.3458**	**2.0900e-003**	**0.1677**	**1.8900e-003**	**0.1696**	**0.0445**	**1.7500e-003**	**0.0462**		**206.7599**	**206.7599**	**0.0117**		**207.0530**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	4.5339	47.9591	23.3048	0.0388		2.5246	2.5246		2.3570	2.3570	0.0000	4,047.0313	4,047.0313	1.0907		4,074.2982
Total	**4.5339**	**47.9591**	**23.3048**	**0.0388**		**2.5246**	**2.5246**		**2.3570**	**2.3570**	**0.0000**	**4,047.0313**	**4,047.0313**	**1.0907**		**4,074.2982**

3.2 Demolition - 2014

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1350	0.1077	1.3458	2.0900e-003	0.1677	1.8900e-003	0.1696	0.0445	1.7500e-003	0.0462		206.7599	206.7599	0.0117		207.0530
Total	**0.1350**	**0.1077**	**1.3458**	**2.0900e-003**	**0.1677**	**1.8900e-003**	**0.1696**	**0.0445**	**1.7500e-003**	**0.0462**		**206.7599**	**206.7599**	**0.0117**		**207.0530**

3.3 Site Preparation - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	5.2447	55.8058	23.8676	0.0381		3.1617	3.1617		2.9088	2.9088		4,042.6677	4,042.6677	1.1947		4,072.5340
Total	**5.2447**	**55.8058**	**23.8676**	**0.0381**	**18.0663**	**3.1617**	**21.2280**	**9.9307**	**2.9088**	**12.8395**		**4,042.6677**	**4,042.6677**	**1.1947**		**4,072.5340**

3.3 Site Preparation - 2014

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1620	0.1292	1.6150	2.5000e-003	0.2012	2.2700e-003	0.2035	0.0534	2.1000e-003	0.0555		248.1119	248.1119	0.0141		248.4636
Total	**0.1620**	**0.1292**	**1.6150**	**2.5000e-003**	**0.2012**	**2.2700e-003**	**0.2035**	**0.0534**	**2.1000e-003**	**0.0555**		**248.1119**	**248.1119**	**0.0141**		**248.4636**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	5.2447	55.8058	23.8676	0.0381		3.1617	3.1617		2.9088	2.9088	0.0000	4,042.6677	4,042.6677	1.1947		4,072.5340
Total	**5.2447**	**55.8058**	**23.8676**	**0.0381**	**18.0663**	**3.1617**	**21.2280**	**9.9307**	**2.9088**	**12.8395**	**0.0000**	**4,042.6677**	**4,042.6677**	**1.1947**		**4,072.5340**

3.3 Site Preparation - 2014

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1620	0.1292	1.6150	2.5000e-003	0.2012	2.2700e-003	0.2035	0.0534	2.1000e-003	0.0555		248.1119	248.1119	0.0141		248.4636
Total	**0.1620**	**0.1292**	**1.6150**	**2.5000e-003**	**0.2012**	**2.2700e-003**	**0.2035**	**0.0534**	**2.1000e-003**	**0.0555**		**248.1119**	**248.1119**	**0.0141**		**248.4636**

3.4 Grading - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	3.3025	37.1828	17.3114	0.0297		2.0094	2.0094		1.8487	1.8487		3,153.0047	3,153.0047	0.9318		3,176.2984
Total	**3.3025**	**37.1828**	**17.3114**	**0.0297**	**6.5523**	**2.0094**	**8.5618**	**3.3675**	**1.8487**	**5.2162**		**3,153.0047**	**3,153.0047**	**0.9318**		**3,176.2984**

3.4 Grading - 2014

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1350	0.1077	1.3458	2.0900e-003	0.1677	1.8900e-003	0.1696	0.0445	1.7500e-003	0.0462		206.7599	206.7599	0.0117		207.0530
Total	**0.1350**	**0.1077**	**1.3458**	**2.0900e-003**	**0.1677**	**1.8900e-003**	**0.1696**	**0.0445**	**1.7500e-003**	**0.0462**		**206.7599**	**206.7599**	**0.0117**		**207.0530**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	3.3025	37.1828	17.3114	0.0297		2.0094	2.0094		1.8487	1.8487	0.0000	3,153.0047	3,153.0047	0.9318		3,176.2984
Total	**3.3025**	**37.1828**	**17.3114**	**0.0297**	**6.5523**	**2.0094**	**8.5618**	**3.3675**	**1.8487**	**5.2162**	**0.0000**	**3,153.0047**	**3,153.0047**	**0.9318**		**3,176.2984**

3.4 Grading - 2014

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1350	0.1077	1.3458	2.0900e-003	0.1677	1.8900e-003	0.1696	0.0445	1.7500e-003	0.0462		206.7599	206.7599	0.0117		207.0530
Total	**0.1350**	**0.1077**	**1.3458**	**2.0900e-003**	**0.1677**	**1.8900e-003**	**0.1696**	**0.0445**	**1.7500e-003**	**0.0462**		**206.7599**	**206.7599**	**0.0117**		**207.0530**

3.5 Building Construction - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.8827	31.4296	18.9909	0.0269		2.2360	2.2360		2.1047	2.1047		2,720.7811	2,720.7811	0.6923		2,738.0882
Total	**3.8827**	**31.4296**	**18.9909**	**0.0269**		**2.2360**	**2.2360**		**2.1047**	**2.1047**		**2,720.7811**	**2,720.7811**	**0.6923**		**2,738.0882**

3.5 Building Construction - 2014

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3993	7.6270	2.6538	0.0125	0.3009	0.1119	0.4128	0.0866	0.1071	0.1937		1,327.0425	1,327.0425	0.1074		1,329.7283
Worker	0.9719	0.7751	9.6901	0.0150	1.2072	0.0136	1.2208	0.3202	0.0126	0.3328		1,488.6712	1,488.6712	0.0844		1,490.7819
Total	**1.3712**	**8.4020**	**12.3439**	**0.0276**	**1.5081**	**0.1256**	**1.6336**	**0.4068**	**0.1197**	**0.5265**		**2,815.7137**	**2,815.7137**	**0.1919**		**2,820.5102**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.8827	31.4296	18.9909	0.0269		2.2360	2.2360		2.1047	2.1047	0.0000	2,720.7811	2,720.7811	0.6923		2,738.0882
Total	**3.8827**	**31.4296**	**18.9909**	**0.0269**		**2.2360**	**2.2360**		**2.1047**	**2.1047**	**0.0000**	**2,720.7811**	**2,720.7811**	**0.6923**		**2,738.0882**

3.5 Building Construction - 2014

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3993	7.6270	2.6538	0.0125	0.3009	0.1119	0.4128	0.0866	0.1071	0.1937		1,327.0425	1,327.0425	0.1074		1,329.7283
Worker	0.9719	0.7751	9.6901	0.0150	1.2072	0.0136	1.2208	0.3202	0.0126	0.3328		1,488.6712	1,488.6712	0.0844		1,490.7819
Total	**1.3712**	**8.4020**	**12.3439**	**0.0276**	**1.5081**	**0.1256**	**1.6336**	**0.4068**	**0.1197**	**0.5265**		**2,815.7137**	**2,815.7137**	**0.1919**		**2,820.5102**

3.5 Building Construction - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.6734	30.2005	18.8039	0.0269		2.1245	2.1245		1.9976	1.9976		2,701.0442	2,701.0442	0.6782		2,718.0002
Total	**3.6734**	**30.2005**	**18.8039**	**0.0269**		**2.1245**	**2.1245**		**1.9976**	**1.9976**		**2,701.0442**	**2,701.0442**	**0.6782**		**2,718.0002**

3.5 Building Construction - 2015

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3288	6.9844	2.2515	0.0125	0.3009	0.0808	0.3817	0.0866	0.0773	0.1640		1,329.3239	1,329.3239	0.1019		1,331.8725
Worker	0.8660	0.6808	8.5885	0.0147	1.2072	0.0126	1.2198	0.3202	0.0117	0.3318		1,462.2946	1,462.2946	0.0748		1,464.1639
Total	**1.1949**	**7.6652**	**10.8400**	**0.0273**	**1.5081**	**0.0935**	**1.6015**	**0.4068**	**0.0890**	**0.4958**		**2,791.6185**	**2,791.6185**	**0.1767**		**2,796.0364**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.6734	30.2005	18.8039	0.0269		2.1245	2.1245		1.9976	1.9976	0.0000	2,701.0442	2,701.0442	0.6782		2,718.0002
Total	**3.6734**	**30.2005**	**18.8039**	**0.0269**		**2.1245**	**2.1245**		**1.9976**	**1.9976**	**0.0000**	**2,701.0442**	**2,701.0442**	**0.6782**		**2,718.0002**

3.5 Building Construction - 2015

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3288	6.9844	2.2515	0.0125	0.3009	0.0808	0.3817	0.0866	0.0773	0.1640		1,329.3239	1,329.3239	0.1019		1,331.8725
Worker	0.8660	0.6808	8.5885	0.0147	1.2072	0.0126	1.2198	0.3202	0.0117	0.3318		1,462.2946	1,462.2946	0.0748		1,464.1639
Total	**1.1949**	**7.6652**	**10.8400**	**0.0273**	**1.5081**	**0.0935**	**1.6015**	**0.4068**	**0.0890**	**0.4958**		**2,791.6185**	**2,791.6185**	**0.1767**		**2,796.0364**

3.6 Paving - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3639	25.7121	15.2877	0.0228		1.4415	1.4415		1.3262	1.3262		2,390.7486	2,390.7486	0.7137		2,408.5920
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.3639**	**25.7121**	**15.2877**	**0.0228**		**1.4415**	**1.4415**		**1.3262**	**1.3262**		**2,390.7486**	**2,390.7486**	**0.7137**		**2,408.5920**

3.6 Paving - 2015

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1203	0.0946	1.1929	2.0500e-003	0.1677	1.7500e-003	0.1694	0.0445	1.6200e-003	0.0461		203.0965	203.0965	0.0104		203.3561
Total	**0.1203**	**0.0946**	**1.1929**	**2.0500e-003**	**0.1677**	**1.7500e-003**	**0.1694**	**0.0445**	**1.6200e-003**	**0.0461**		**203.0965**	**203.0965**	**0.0104**		**203.3561**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3639	25.7121	15.2877	0.0228		1.4415	1.4415		1.3262	1.3262	0.0000	2,390.7486	2,390.7486	0.7137		2,408.5920
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.3639**	**25.7121**	**15.2877**	**0.0228**		**1.4415**	**1.4415**		**1.3262**	**1.3262**	**0.0000**	**2,390.7486**	**2,390.7486**	**0.7137**		**2,408.5920**

3.6 Paving - 2015

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1203	0.0946	1.1929	2.0500e-003	0.1677	1.7500e-003	0.1694	0.0445	1.6200e-003	0.0461		203.0965	203.0965	0.0104		203.3561
Total	**0.1203**	**0.0946**	**1.1929**	**2.0500e-003**	**0.1677**	**1.7500e-003**	**0.1694**	**0.0445**	**1.6200e-003**	**0.0461**		**203.0965**	**203.0965**	**0.0104**		**203.3561**

3.7 Architectural Coating - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	134.2296					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4066	2.5703	1.9018	2.9700e-003		0.2209	0.2209		0.2209	0.2209		281.4481	281.4481	0.0367		282.3643
Total	**134.6362**	**2.5703**	**1.9018**	**2.9700e-003**		**0.2209**	**0.2209**		**0.2209**	**0.2209**		**281.4481**	**281.4481**	**0.0367**		**282.3643**

3.7 Architectural Coating - 2015

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1764	0.1387	1.7495	3.0000e-003	0.2459	2.5700e-003	0.2485	0.0652	2.3800e-003	0.0676		297.8748	297.8748	0.0152		298.2556
Total	**0.1764**	**0.1387**	**1.7495**	**3.0000e-003**	**0.2459**	**2.5700e-003**	**0.2485**	**0.0652**	**2.3800e-003**	**0.0676**		**297.8748**	**297.8748**	**0.0152**		**298.2556**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	134.2296					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4066	2.5703	1.9018	2.9700e-003		0.2209	0.2209		0.2209	0.2209	0.0000	281.4481	281.4481	0.0367		282.3643
Total	**134.6362**	**2.5703**	**1.9018**	**2.9700e-003**		**0.2209**	**0.2209**		**0.2209**	**0.2209**	**0.0000**	**281.4481**	**281.4481**	**0.0367**		**282.3643**

3.7 Architectural Coating - 2015

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1764	0.1387	1.7495	3.0000e-003	0.2459	2.5700e-003	0.2485	0.0652	2.3800e-003	0.0676		297.8748	297.8748	0.0152		298.2556
Total	**0.1764**	**0.1387**	**1.7495**	**3.0000e-003**	**0.2459**	**2.5700e-003**	**0.2485**	**0.0652**	**2.3800e-003**	**0.0676**		**297.8748**	**297.8748**	**0.0152**		**298.2556**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	21.9108	90.3015	294.8523	0.6936	48.5746	1.0552	49.6298	13.0078	0.9970	14.0048		70,170.4214	70,170.4214	4.8404		70,291.4308
Unmitigated	21.9108	90.3015	294.8523	0.6936	48.5746	1.0552	49.6298	13.0078	0.9970	14.0048		70,170.4214	70,170.4214	4.8404		70,291.4308

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Day-Care Center	0.00	0.00	0.00		
General Light Industry	0.00	0.00	0.00		
General Office Building	6,132.24	6,132.24	6132.24	19,754,772	19,754,772
General Office Building	953.90	953.90	953.90	3,072,965	3,072,965
Medical Office Building	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	7,086.14	7,086.14	7,086.14	22,827,736	22,827,736

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Day-Care Center	16.60	8.40	6.90	12.70	82.30	5.00	28	58	14
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Medical Office Building	16.60	8.40	6.90	29.60	51.40	19.00	60	30	10
Unrefrigerated Warehouse-No Rail	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3
Unrefrigerated Warehouse-No Rail	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Day-Care Center	0.546581	0.047315	0.196959	0.128768	0.019038	0.005774	0.017712	0.026513	0.002264	0.002897	0.004538	0.000646	0.000994
General Light Industry	0.546581	0.047315	0.196959	0.128768	0.019038	0.005774	0.017712	0.026513	0.002264	0.002897	0.004538	0.000646	0.000994
General Office Building	0.546581	0.047315	0.196959	0.128768	0.019038	0.005774	0.017712	0.026513	0.002264	0.002897	0.004538	0.000646	0.000994
Medical Office Building	0.546581	0.047315	0.196959	0.128768	0.019038	0.005774	0.017712	0.026513	0.002264	0.002897	0.004538	0.000646	0.000994
Unrefrigerated Warehouse-No Rail	0.546581	0.047315	0.196959	0.128768	0.019038	0.005774	0.017712	0.026513	0.002264	0.002897	0.004538	0.000646	0.000994

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Olive View Medical Center - Existing (2016) Operations - Los Angeles-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0743	0.6755	0.5674	4.0500e-003		0.0513	0.0513		0.0513	0.0513		810.5860	810.5860	0.0155	0.0149	815.4029
NaturalGas Unmitigated	0.0743	0.6755	0.5674	4.0500e-003		0.0513	0.0513		0.0513	0.0513		810.5860	810.5860	0.0155	0.0149	815.4029

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Day-Care Center	264.986	2.8600e-003	0.0260	0.0218	1.6000e-004		1.9700e-003	1.9700e-003		1.9700e-003	1.9700e-003		31.1749	31.1749	6.0000e-004	5.7000e-004	31.3601
General Light Industry	2529.04	0.0273	0.2480	0.2083	1.4900e-003		0.0188	0.0188		0.0188	0.0188		297.5343	297.5343	5.7000e-003	5.4500e-003	299.3023
General Office Building	3080.22	0.0332	0.3020	0.2537	1.8100e-003		0.0230	0.0230		0.0230	0.0230		362.3787	362.3787	6.9500e-003	6.6400e-003	364.5322
General Office Building	479.145	5.1700e-003	0.0470	0.0395	2.8000e-004		3.5700e-003	3.5700e-003		3.5700e-003	3.5700e-003		56.3700	56.3700	1.0800e-003	1.0300e-003	56.7050
Medical Office Building	313.726	3.3800e-003	0.0308	0.0258	1.8000e-004		2.3400e-003	2.3400e-003		2.3400e-003	2.3400e-003		36.9089	36.9089	7.1000e-004	6.8000e-004	37.1283
Unrefrigerated Warehouse-No Rail	145.397	1.5700e-003	0.0143	0.0120	9.0000e-005		1.0800e-003	1.0800e-003		1.0800e-003	1.0800e-003		17.1056	17.1056	3.3000e-004	3.1000e-004	17.2072
Unrefrigerated Warehouse-No Rail	77.4658	8.4000e-004	7.5900e-003	6.3800e-003	5.0000e-005		5.8000e-004	5.8000e-004		5.8000e-004	5.8000e-004		9.1136	9.1136	1.7000e-004	1.7000e-004	9.1678
Total		**0.0743**	**0.6755**	**0.5674**	**4.0600e-003**		**0.0513**	**0.0513**		**0.0513**	**0.0513**		**810.5860**	**810.5860**	**0.0155**	**0.0149**	**815.4029**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Day-Care Center	0.264986	2.8600e-003	0.0260	0.0218	1.6000e-004		1.9700e-003	1.9700e-003		1.9700e-003	1.9700e-003		31.1749	31.1749	6.0000e-004	5.7000e-004	31.3601
General Light Industry	2.52904	0.0273	0.2480	0.2083	1.4900e-003		0.0188	0.0188		0.0188	0.0188		297.5343	297.5343	5.7000e-003	5.4500e-003	299.3023
General Office Building	0.479145	5.1700e-003	0.0470	0.0395	2.8000e-004		3.5700e-003	3.5700e-003		3.5700e-003	3.5700e-003		56.3700	56.3700	1.0800e-003	1.0300e-003	56.7050
General Office Building	3.08022	0.0332	0.3020	0.2537	1.8100e-003		0.0230	0.0230		0.0230	0.0230		362.3787	362.3787	6.9500e-003	6.6400e-003	364.5322
Medical Office Building	0.313726	3.3800e-003	0.0308	0.0258	1.8000e-004		2.3400e-003	2.3400e-003		2.3400e-003	2.3400e-003		36.9089	36.9089	7.1000e-004	6.8000e-004	37.1283
Unrefrigerated Warehouse-No Rail	0.0774658	8.4000e-004	7.5900e-003	6.3800e-003	5.0000e-005		5.8000e-004	5.8000e-004		5.8000e-004	5.8000e-004		9.1136	9.1136	1.7000e-004	1.7000e-004	9.1678
Unrefrigerated Warehouse-No Rail	0.145397	1.5700e-003	0.0143	0.0120	9.0000e-005		1.0800e-003	1.0800e-003		1.0800e-003	1.0800e-003		17.1056	17.1056	3.3000e-004	3.1000e-004	17.2072
Total		**0.0743**	**0.6755**	**0.5674**	**4.0600e-003**		**0.0513**	**0.0513**		**0.0513**	**0.0513**		**810.5860**	**810.5860**	**0.0155**	**0.0149**	**815.4029**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	6.4725	2.9000e-004	0.0303	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004		0.0634	0.0634	1.8000e-004		0.0679
Unmitigated	6.4725	2.9000e-004	0.0303	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004		0.0634	0.0634	1.8000e-004		0.0679

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.7355					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.7341					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.9600e-003	2.9000e-004	0.0303	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004		0.0634	0.0634	1.8000e-004		0.0679
Total	**6.4725**	**2.9000e-004**	**0.0303**	**0.0000**		**1.1000e-004**	**1.1000e-004**		**1.1000e-004**	**1.1000e-004**		**0.0634**	**0.0634**	**1.8000e-004**		**0.0679**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.7355					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.7341					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.9600e-003	2.9000e-004	0.0303	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004		0.0634	0.0634	1.8000e-004		0.0679
Total	**6.4725**	**2.9000e-004**	**0.0303**	**0.0000**		**1.1000e-004**	**1.1000e-004**		**1.1000e-004**	**1.1000e-004**		**0.0634**	**0.0634**	**1.8000e-004**		**0.0679**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Olive View Medical Center - Existing (2016) Operations

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	108.00	1000sqft	2.48	108,000.00	0
General Office Building	16.80	1000sqft	0.39	16,800.00	0
Medical Office Building	11.00	1000sqft	0.25	11,000.00	0
Day-Care Center	9.30	1000sqft	0.21	9,300.00	0
General Light Industry	51.00	1000sqft	1.17	51,000.00	0
Unrefrigerated Warehouse-No Rail	32.50	1000sqft	0.75	32,500.00	0
Unrefrigerated Warehouse-No Rail	61.00	1000sqft	1.40	61,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2016
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	834	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - LADWP CO2 intensity revised based on 2016 CO2 intensity identified in 2017 Power Strategic Long-Term Resource Plan (p. C-15).

Land Use - Square footages from project description

Construction Phase - Existing operations only. No construction considered for this run.

Off-road Equipment - Existing operations only. No construction considered for this run.

Off-road Equipment - Existing operations only. No construction considered for this run.

Off-road Equipment - Existing operations only. No construction considered for this run.

Off-road Equipment - Existing operations only. No construction considered for this run.

Off-road Equipment - Existing operations only. No construction considered for this run.

Off-road Equipment - Existing operations only. No construction considered for this run.

Grading - Existing operations only. No construction considered for this run.

Trips and VMT - Existing operations only. No construction considered for this run.

On-road Fugitive Dust - Existing operations only. No construction considered for this run.

Architectural Coating - Existing operations only. No construction considered for this run.

Vehicle Trips - According to the Traffic Impact Analysis, there are 6,132 trips daily. All have been apportioned to the Administration (general office) land use. All other trips have been zeroed out.

Vehicle Emission Factors - Defaults used.

Vehicle Emission Factors - Defaults used.

Vehicle Emission Factors - Defaults used.

Road Dust - Defaults used.

Energy Use - Defaults used.

Water And Wastewater - Defaults used.

Solid Waste - Defaults used.

Table Name	Column Name	Default Value	New Value
tblProjectCharacteristics	CO2IntensityFactor	1227.89	834
tblVehicleTrips	ST_TR	6.21	0.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	ST_TR	2.46	56.78
tblVehicleTrips	ST_TR	8.96	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	5.83	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	SU_TR	1.05	56.78
tblVehicleTrips	SU_TR	1.55	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	74.06	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblVehicleTrips	WD_TR	11.03	56.78
tblVehicleTrips	WD_TR	36.13	0.00
tblVehicleTrips	WD_TR	1.68	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2014	0.6549	5.3564	3.7700	6.4900e-003	0.3424	0.3087	0.6511	0.1417	0.2895	0.4312	0.0000	601.4401	601.4401	0.1090	0.0000	604.1640
2015	1.6146	2.1737	1.6528	2.9500e-003	0.0773	0.1265	0.2038	0.0209	0.1188	0.1397	0.0000	271.8709	271.8709	0.0454	0.0000	273.0070
Maximum	**1.6146**	**5.3564**	**3.7700**	**6.4900e-003**	**0.3424**	**0.3087**	**0.6511**	**0.1417**	**0.2895**	**0.4312**	**0.0000**	**601.4401**	**601.4401**	**0.1090**	**0.0000**	**604.1640**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2014	0.6549	5.3564	3.7700	6.4900e-003	0.3424	0.3087	0.6511	0.1417	0.2895	0.4312	0.0000	601.4397	601.4397	0.1090	0.0000	604.1635
2015	1.6146	2.1737	1.6528	2.9500e-003	0.0773	0.1265	0.2038	0.0209	0.1188	0.1397	0.0000	271.8707	271.8707	0.0454	0.0000	273.0068
Maximum	**1.6146**	**5.3564**	**3.7700**	**6.4900e-003**	**0.3424**	**0.3087**	**0.6511**	**0.1417**	**0.2895**	**0.4312**	**0.0000**	**601.4397**	**601.4397**	**0.1090**	**0.0000**	**604.1635**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2014	3-31-2014	1.5430	1.5430
2	4-1-2014	6-30-2014	1.4653	1.4653
3	7-1-2014	9-30-2014	1.4814	1.4814
4	10-1-2014	12-31-2014	1.4904	1.4904
5	1-1-2015	3-31-2015	1.3809	1.3809
6	4-1-2015	6-30-2015	1.7184	1.7184
7	7-1-2015	9-30-2015	0.6876	0.6876
		Highest	1.7184	1.7184

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.1811	4.0000e-005	3.7900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.1900e-003	7.1900e-003	2.0000e-005	0.0000	7.7000e-003
Energy	0.0136	0.1233	0.1036	7.4000e-004		9.3700e-003	9.3700e-003		9.3700e-003	9.3700e-003	0.0000	1,174.4582	1,174.4582	0.0387	9.9400e-003	1,178.3902
Mobile	3.8233	17.3554	52.0646	0.1217	8.6700	0.1924	8.8625	2.3256	0.1818	2.5074	0.0000	11,170.0982	11,170.0982	0.7917	0.0000	11,189.8908
Waste						0.0000	0.0000		0.0000	0.0000	80.8066	0.0000	80.8066	4.7755	0.0000	200.1950
Water						0.0000	0.0000		0.0000	0.0000	18.2027	345.1755	363.3782	1.8816	0.0466	424.3135
Total	**5.0179**	**17.4787**	**52.1719**	**0.1224**	**8.6700**	**0.2018**	**8.8718**	**2.3256**	**0.1912**	**2.5167**	**99.0094**	**12,689.7390**	**12,788.7484**	**7.4876**	**0.0566**	**12,992.7972**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.1811	4.0000e-005	3.7900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.1900e-003	7.1900e-003	2.0000e-005	0.0000	7.7000e-003
Energy	0.0136	0.1233	0.1036	7.4000e-004		9.3700e-003	9.3700e-003		9.3700e-003	9.3700e-003	0.0000	1,174.4582	1,174.4582	0.0387	9.9400e-003	1,178.3902
Mobile	3.8233	17.3554	52.0646	0.1217	8.6700	0.1924	8.8625	2.3256	0.1818	2.5074	0.0000	11,170.0982	11,170.0982	0.7917	0.0000	11,189.8908
Waste						0.0000	0.0000		0.0000	0.0000	80.8066	0.0000	80.8066	4.7755	0.0000	200.1950
Water						0.0000	0.0000		0.0000	0.0000	18.2027	345.1755	363.3782	1.8816	0.0466	424.3135
Total	**5.0179**	**17.4787**	**52.1719**	**0.1224**	**8.6700**	**0.2018**	**8.8718**	**2.3256**	**0.1912**	**2.5167**	**99.0094**	**12,689.7390**	**12,788.7484**	**7.4876**	**0.0566**	**12,992.7972**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Olive View Medical Center - Existing (2016) Operations - Los Angeles-South Coast County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2014	1/28/2014	5	20	
2	Site Preparation	Site Preparation	1/29/2014	2/11/2014	5	10	
3	Grading	Grading	2/12/2014	3/25/2014	5	20	
4	Building Construction	Building Construction	3/26/2014	5/19/2015	5	230	
5	Paving	Paving	5/20/2015	6/16/2015	5	20	
6	Architectural Coating	Architectural Coating	6/17/2015	7/14/2015	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 434,400; Non-Residential Outdoor: 144,800; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Olive View Medical Center - Existing (2016) Operations - Los Angeles-South Coast County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Excavators	3	8.00	158	0.38
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Excavators	1	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Paving Equipment	2	8.00	132	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	22.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	108.00	47.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0453	0.4796	0.2331	3.9000e-004		0.0253	0.0253		0.0236	0.0236	0.0000	36.7141	36.7141	9.8900e-003	0.0000	36.9614
Total	**0.0453**	**0.4796**	**0.2331**	**3.9000e-004**		**0.0253**	**0.0253**		**0.0236**	**0.0236**	**0.0000**	**36.7141**	**36.7141**	**9.8900e-003**	**0.0000**	**36.9614**

3.2 Demolition - 2014

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3600e-003	1.2200e-003	0.0129	2.0000e-005	1.6400e-003	2.0000e-005	1.6600e-003	4.4000e-004	2.0000e-005	4.5000e-004	0.0000	1.7967	1.7967	1.0000e-004	0.0000	1.7992
Total	**1.3600e-003**	**1.2200e-003**	**0.0129**	**2.0000e-005**	**1.6400e-003**	**2.0000e-005**	**1.6600e-003**	**4.4000e-004**	**2.0000e-005**	**4.5000e-004**	**0.0000**	**1.7967**	**1.7967**	**1.0000e-004**	**0.0000**	**1.7992**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0453	0.4796	0.2331	3.9000e-004		0.0253	0.0253		0.0236	0.0236	0.0000	36.7140	36.7140	9.8900e-003	0.0000	36.9614
Total	**0.0453**	**0.4796**	**0.2331**	**3.9000e-004**		**0.0253**	**0.0253**		**0.0236**	**0.0236**	**0.0000**	**36.7140**	**36.7140**	**9.8900e-003**	**0.0000**	**36.9614**

3.2 Demolition - 2014

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3600e-003	1.2200e-003	0.0129	2.0000e-005	1.6400e-003	2.0000e-005	1.6600e-003	4.4000e-004	2.0000e-005	4.5000e-004	0.0000	1.7967	1.7967	1.0000e-004	0.0000	1.7992
Total	**1.3600e-003**	**1.2200e-003**	**0.0129**	**2.0000e-005**	**1.6400e-003**	**2.0000e-005**	**1.6600e-003**	**4.4000e-004**	**2.0000e-005**	**4.5000e-004**	**0.0000**	**1.7967**	**1.7967**	**1.0000e-004**	**0.0000**	**1.7992**

3.3 Site Preparation - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0262	0.2790	0.1193	1.9000e-004		0.0158	0.0158		0.0145	0.0145	0.0000	18.3372	18.3372	5.4200e-003	0.0000	18.4727
Total	**0.0262**	**0.2790**	**0.1193**	**1.9000e-004**	**0.0903**	**0.0158**	**0.1061**	**0.0497**	**0.0145**	**0.0642**	**0.0000**	**18.3372**	**18.3372**	**5.4200e-003**	**0.0000**	**18.4727**

3.3 Site Preparation - 2014

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.2000e-004	7.3000e-004	7.7200e-003	1.0000e-005	9.9000e-004	1.0000e-005	1.0000e-003	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	1.0780	1.0780	6.0000e-005	0.0000	1.0795
Total	**8.2000e-004**	**7.3000e-004**	**7.7200e-003**	**1.0000e-005**	**9.9000e-004**	**1.0000e-005**	**1.0000e-003**	**2.6000e-004**	**1.0000e-005**	**2.7000e-004**	**0.0000**	**1.0780**	**1.0780**	**6.0000e-005**	**0.0000**	**1.0795**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0262	0.2790	0.1193	1.9000e-004		0.0158	0.0158		0.0145	0.0145	0.0000	18.3372	18.3372	5.4200e-003	0.0000	18.4727
Total	**0.0262**	**0.2790**	**0.1193**	**1.9000e-004**	**0.0903**	**0.0158**	**0.1061**	**0.0497**	**0.0145**	**0.0642**	**0.0000**	**18.3372**	**18.3372**	**5.4200e-003**	**0.0000**	**18.4727**

3.3 Site Preparation - 2014

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.2000e-004	7.3000e-004	7.7200e-003	1.0000e-005	9.9000e-004	1.0000e-005	1.0000e-003	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	1.0780	1.0780	6.0000e-005	0.0000	1.0795
Total	**8.2000e-004**	**7.3000e-004**	**7.7200e-003**	**1.0000e-005**	**9.9000e-004**	**1.0000e-005**	**1.0000e-003**	**2.6000e-004**	**1.0000e-005**	**2.7000e-004**	**0.0000**	**1.0780**	**1.0780**	**6.0000e-005**	**0.0000**	**1.0795**

3.4 Grading - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0983	0.0000	0.0983	0.0505	0.0000	0.0505	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0495	0.5577	0.2597	4.5000e-004		0.0301	0.0301		0.0277	0.0277	0.0000	42.9054	42.9054	0.0127	0.0000	43.2223
Total	**0.0495**	**0.5577**	**0.2597**	**4.5000e-004**	**0.0983**	**0.0301**	**0.1284**	**0.0505**	**0.0277**	**0.0782**	**0.0000**	**42.9054**	**42.9054**	**0.0127**	**0.0000**	**43.2223**

3.4 Grading - 2014

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0400e-003	1.8400e-003	0.0193	3.0000e-005	2.4700e-003	3.0000e-005	2.4900e-003	6.5000e-004	3.0000e-005	6.8000e-004	0.0000	2.6950	2.6950	1.5000e-004	0.0000	2.6989
Total	**2.0400e-003**	**1.8400e-003**	**0.0193**	**3.0000e-005**	**2.4700e-003**	**3.0000e-005**	**2.4900e-003**	**6.5000e-004**	**3.0000e-005**	**6.8000e-004**	**0.0000**	**2.6950**	**2.6950**	**1.5000e-004**	**0.0000**	**2.6989**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0983	0.0000	0.0983	0.0505	0.0000	0.0505	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0495	0.5577	0.2597	4.5000e-004		0.0301	0.0301		0.0277	0.0277	0.0000	42.9053	42.9053	0.0127	0.0000	43.2223
Total	**0.0495**	**0.5577**	**0.2597**	**4.5000e-004**	**0.0983**	**0.0301**	**0.1284**	**0.0505**	**0.0277**	**0.0782**	**0.0000**	**42.9053**	**42.9053**	**0.0127**	**0.0000**	**43.2223**

3.4 Grading - 2014

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0400e-003	1.8400e-003	0.0193	3.0000e-005	2.4700e-003	3.0000e-005	2.4900e-003	6.5000e-004	3.0000e-005	6.8000e-004	0.0000	2.6950	2.6950	1.5000e-004	0.0000	2.6989
Total	**2.0400e-003**	**1.8400e-003**	**0.0193**	**3.0000e-005**	**2.4700e-003**	**3.0000e-005**	**2.4900e-003**	**6.5000e-004**	**3.0000e-005**	**6.8000e-004**	**0.0000**	**2.6950**	**2.6950**	**1.5000e-004**	**0.0000**	**2.6989**

3.5 Building Construction - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3902	3.1587	1.9086	2.7100e-003		0.2247	0.2247		0.2115	0.2115	0.0000	248.0592	248.0592	0.0631	0.0000	249.6372
Total	**0.3902**	**3.1587**	**1.9086**	**2.7100e-003**		**0.2247**	**0.2247**		**0.2115**	**0.2115**	**0.0000**	**248.0592**	**248.0592**	**0.0631**	**0.0000**	**249.6372**

3.5 Building Construction - 2014

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0408	0.7890	0.2779	1.2500e-003	0.0298	0.0113	0.0411	8.5900e-003	0.0108	0.0194	0.0000	119.8479	119.8479	0.0101	0.0000	120.0999
Worker	0.0986	0.0886	0.9316	1.4500e-003	0.1189	1.3700e-003	0.1203	0.0316	1.2700e-003	0.0329	0.0000	130.0067	130.0067	7.4500e-003	0.0000	130.1928
Total	**0.1394**	**0.8776**	**1.2095**	**2.7000e-003**	**0.1487**	**0.0127**	**0.1614**	**0.0402**	**0.0121**	**0.0523**	**0.0000**	**249.8546**	**249.8546**	**0.0175**	**0.0000**	**250.2927**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3902	3.1587	1.9086	2.7100e-003		0.2247	0.2247		0.2115	0.2115	0.0000	248.0589	248.0589	0.0631	0.0000	249.6369
Total	**0.3902**	**3.1587**	**1.9086**	**2.7100e-003**		**0.2247**	**0.2247**		**0.2115**	**0.2115**	**0.0000**	**248.0589**	**248.0589**	**0.0631**	**0.0000**	**249.6369**

3.5 Building Construction - 2014

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0408	0.7890	0.2779	1.2500e-003	0.0298	0.0113	0.0411	8.5900e-003	0.0108	0.0194	0.0000	119.8479	119.8479	0.0101	0.0000	120.0999
Worker	0.0986	0.0886	0.9316	1.4500e-003	0.1189	1.3700e-003	0.1203	0.0316	1.2700e-003	0.0329	0.0000	130.0067	130.0067	7.4500e-003	0.0000	130.1928
Total	**0.1394**	**0.8776**	**1.2095**	**2.7000e-003**	**0.1487**	**0.0127**	**0.1614**	**0.0402**	**0.0121**	**0.0523**	**0.0000**	**249.8546**	**249.8546**	**0.0175**	**0.0000**	**250.2927**

3.5 Building Construction - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1818	1.4949	0.9308	1.3300e-003		0.1052	0.1052		0.0989	0.0989	0.0000	121.2921	121.2921	0.0305	0.0000	122.0536
Total	**0.1818**	**1.4949**	**0.9308**	**1.3300e-003**		**0.1052**	**0.1052**		**0.0989**	**0.0989**	**0.0000**	**121.2921**	**121.2921**	**0.0305**	**0.0000**	**122.0536**

3.5 Building Construction - 2015

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0166	0.3550	0.1165	6.1000e-004	0.0147	4.0300e-003	0.0187	4.2300e-003	3.8500e-003	8.0800e-003	0.0000	59.0980	59.0980	4.7100e-003	0.0000	59.2158
Worker	0.0432	0.0383	0.4056	7.0000e-004	0.0586	6.2000e-004	0.0592	0.0156	5.8000e-004	0.0161	0.0000	62.8866	62.8866	3.2400e-003	0.0000	62.9677
Total	**0.0598**	**0.3933**	**0.5221**	**1.3100e-003**	**0.0732**	**4.6500e-003**	**0.0779**	**0.0198**	**4.4300e-003**	**0.0242**	**0.0000**	**121.9846**	**121.9846**	**7.9500e-003**	**0.0000**	**122.1835**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1818	1.4949	0.9308	1.3300e-003		0.1052	0.1052		0.0989	0.0989	0.0000	121.2920	121.2920	0.0305	0.0000	122.0534
Total	**0.1818**	**1.4949**	**0.9308**	**1.3300e-003**		**0.1052**	**0.1052**		**0.0989**	**0.0989**	**0.0000**	**121.2920**	**121.2920**	**0.0305**	**0.0000**	**122.0534**

3.5 Building Construction - 2015

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0166	0.3550	0.1165	6.1000e-004	0.0147	4.0300e-003	0.0187	4.2300e-003	3.8500e-003	8.0800e-003	0.0000	59.0980	59.0980	4.7100e-003	0.0000	59.2158
Worker	0.0432	0.0383	0.4056	7.0000e-004	0.0586	6.2000e-004	0.0592	0.0156	5.8000e-004	0.0161	0.0000	62.8866	62.8866	3.2400e-003	0.0000	62.9677
Total	**0.0598**	**0.3933**	**0.5221**	**1.3100e-003**	**0.0732**	**4.6500e-003**	**0.0779**	**0.0198**	**4.4300e-003**	**0.0242**	**0.0000**	**121.9846**	**121.9846**	**7.9500e-003**	**0.0000**	**122.1835**

3.6 Paving - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0236	0.2571	0.1529	2.3000e-004		0.0144	0.0144		0.0133	0.0133	0.0000	21.6885	21.6885	6.4700e-003	0.0000	21.8504
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0236**	**0.2571**	**0.1529**	**2.3000e-004**		**0.0144**	**0.0144**		**0.0133**	**0.0133**	**0.0000**	**21.6885**	**21.6885**	**6.4700e-003**	**0.0000**	**21.8504**

3.6 Paving - 2015

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2100e-003	1.0700e-003	0.0114	2.0000e-005	1.6400e-003	2.0000e-005	1.6600e-003	4.4000e-004	2.0000e-005	4.5000e-004	0.0000	1.7645	1.7645	9.0000e-005	0.0000	1.7668
Total	**1.2100e-003**	**1.0700e-003**	**0.0114**	**2.0000e-005**	**1.6400e-003**	**2.0000e-005**	**1.6600e-003**	**4.4000e-004**	**2.0000e-005**	**4.5000e-004**	**0.0000**	**1.7645**	**1.7645**	**9.0000e-005**	**0.0000**	**1.7668**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0236	0.2571	0.1529	2.3000e-004		0.0144	0.0144		0.0133	0.0133	0.0000	21.6885	21.6885	6.4700e-003	0.0000	21.8504
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0236**	**0.2571**	**0.1529**	**2.3000e-004**		**0.0144**	**0.0144**		**0.0133**	**0.0133**	**0.0000**	**21.6885**	**21.6885**	**6.4700e-003**	**0.0000**	**21.8504**

3.6 Paving - 2015

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2100e-003	1.0700e-003	0.0114	2.0000e-005	1.6400e-003	2.0000e-005	1.6600e-003	4.4000e-004	2.0000e-005	4.5000e-004	0.0000	1.7645	1.7645	9.0000e-005	0.0000	1.7668
Total	**1.2100e-003**	**1.0700e-003**	**0.0114**	**2.0000e-005**	**1.6400e-003**	**2.0000e-005**	**1.6600e-003**	**4.4000e-004**	**2.0000e-005**	**4.5000e-004**	**0.0000**	**1.7645**	**1.7645**	**9.0000e-005**	**0.0000**	**1.7668**

3.7 Architectural Coating - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.3423					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.0700e-003	0.0257	0.0190	3.0000e-005		2.2100e-003	2.2100e-003		2.2100e-003	2.2100e-003	0.0000	2.5533	2.5533	3.3000e-004	0.0000	2.5616
Total	**1.3464**	**0.0257**	**0.0190**	**3.0000e-005**		**2.2100e-003**	**2.2100e-003**		**2.2100e-003**	**2.2100e-003**	**0.0000**	**2.5533**	**2.5533**	**3.3000e-004**	**0.0000**	**2.5616**

3.7 Architectural Coating - 2015

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7800e-003	1.5800e-003	0.0167	3.0000e-005	2.4100e-003	3.0000e-005	2.4400e-003	6.4000e-004	2.0000e-005	6.6000e-004	0.0000	2.5879	2.5879	1.3000e-004	0.0000	2.5913
Total	**1.7800e-003**	**1.5800e-003**	**0.0167**	**3.0000e-005**	**2.4100e-003**	**3.0000e-005**	**2.4400e-003**	**6.4000e-004**	**2.0000e-005**	**6.6000e-004**	**0.0000**	**2.5879**	**2.5879**	**1.3000e-004**	**0.0000**	**2.5913**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.3423					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.0700e-003	0.0257	0.0190	3.0000e-005		2.2100e-003	2.2100e-003		2.2100e-003	2.2100e-003	0.0000	2.5533	2.5533	3.3000e-004	0.0000	2.5616
Total	**1.3464**	**0.0257**	**0.0190**	**3.0000e-005**		**2.2100e-003**	**2.2100e-003**		**2.2100e-003**	**2.2100e-003**	**0.0000**	**2.5533**	**2.5533**	**3.3000e-004**	**0.0000**	**2.5616**

3.7 Architectural Coating - 2015

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7800e-003	1.5800e-003	0.0167	3.0000e-005	2.4100e-003	3.0000e-005	2.4400e-003	6.4000e-004	2.0000e-005	6.6000e-004	0.0000	2.5879	2.5879	1.3000e-004	0.0000	2.5913
Total	**1.7800e-003**	**1.5800e-003**	**0.0167**	**3.0000e-005**	**2.4100e-003**	**3.0000e-005**	**2.4400e-003**	**6.4000e-004**	**2.0000e-005**	**6.6000e-004**	**0.0000**	**2.5879**	**2.5879**	**1.3000e-004**	**0.0000**	**2.5913**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	3.8233	17.3554	52.0646	0.1217	8.6700	0.1924	8.8625	2.3256	0.1818	2.5074	0.0000	11,170.0982	11,170.0982	0.7917	0.0000	11,189.8908
Unmitigated	3.8233	17.3554	52.0646	0.1217	8.6700	0.1924	8.8625	2.3256	0.1818	2.5074	0.0000	11,170.0982	11,170.0982	0.7917	0.0000	11,189.8908

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Day-Care Center	0.00	0.00	0.00		
General Light Industry	0.00	0.00	0.00		
General Office Building	6,132.24	6,132.24	6132.24	19,754,772	19,754,772
General Office Building	953.90	953.90	953.90	3,072,965	3,072,965
Medical Office Building	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	7,086.14	7,086.14	7,086.14	22,827,736	22,827,736

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Day-Care Center	16.60	8.40	6.90	12.70	82.30	5.00	28	58	14
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Medical Office Building	16.60	8.40	6.90	29.60	51.40	19.00	60	30	10
Unrefrigerated Warehouse-No Rail	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3
Unrefrigerated Warehouse-No Rail	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Day-Care Center	0.546581	0.047315	0.196959	0.128768	0.019038	0.005774	0.017712	0.026513	0.002264	0.002897	0.004538	0.000646	0.000994
General Light Industry	0.546581	0.047315	0.196959	0.128768	0.019038	0.005774	0.017712	0.026513	0.002264	0.002897	0.004538	0.000646	0.000994
General Office Building	0.546581	0.047315	0.196959	0.128768	0.019038	0.005774	0.017712	0.026513	0.002264	0.002897	0.004538	0.000646	0.000994
Medical Office Building	0.546581	0.047315	0.196959	0.128768	0.019038	0.005774	0.017712	0.026513	0.002264	0.002897	0.004538	0.000646	0.000994
Unrefrigerated Warehouse-No Rail	0.546581	0.047315	0.196959	0.128768	0.019038	0.005774	0.017712	0.026513	0.002264	0.002897	0.004538	0.000646	0.000994

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Olive View Medical Center - Existing (2016) Operations - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,040.2566	1,040.2566	0.0362	7.4800e-003	1,043.3911
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,040.2566	1,040.2566	0.0362	7.4800e-003	1,043.3911
NaturalGas Mitigated	0.0136	0.1233	0.1036	7.4000e-004		9.3700e-003	9.3700e-003		9.3700e-003	9.3700e-003	0.0000	134.2016	134.2016	2.5700e-003	2.4600e-003	134.9991
NaturalGas Unmitigated	0.0136	0.1233	0.1036	7.4000e-004		9.3700e-003	9.3700e-003		9.3700e-003	9.3700e-003	0.0000	134.2016	134.2016	2.5700e-003	2.4600e-003	134.9991

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Day-Care Center	96720	5.2000e-004	4.7400e-003	3.9800e-003	3.0000e-005		3.6000e-004	3.6000e-004		3.6000e-004	3.6000e-004	0.0000	5.1614	5.1614	1.0000e-004	9.0000e-005	5.1920
General Light Industry	923100	4.9800e-003	0.0453	0.0380	2.7000e-004		3.4400e-003	3.4400e-003		3.4400e-003	3.4400e-003	0.0000	49.2601	49.2601	9.4000e-004	9.0000e-004	49.5529
General Office Building	1.12428e+006	6.0600e-003	0.0551	0.0463	3.3000e-004		4.1900e-003	4.1900e-003		4.1900e-003	4.1900e-003	0.0000	59.9959	59.9959	1.1500e-003	1.1000e-003	60.3524
General Office Building	174888	9.4000e-004	8.5700e-003	7.2000e-003	5.0000e-005		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004	0.0000	9.3327	9.3327	1.8000e-004	1.7000e-004	9.3882
Medical Office Building	114510	6.2000e-004	5.6100e-003	4.7200e-003	3.0000e-005		4.3000e-004	4.3000e-004		4.3000e-004	4.3000e-004	0.0000	6.1107	6.1107	1.2000e-004	1.1000e-004	6.1470
Unrefrigerated Warehouse-No Rail	28275	1.5000e-004	1.3900e-003	1.1600e-003	1.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	1.5089	1.5089	3.0000e-005	3.0000e-005	1.5178
Unrefrigerated Warehouse-No Rail	53070	2.9000e-004	2.6000e-003	2.1900e-003	2.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	2.8320	2.8320	5.0000e-005	5.0000e-005	2.8489
Total		**0.0136**	**0.1233**	**0.1036**	**7.4000e-004**		**9.3800e-003**	**9.3800e-003**		**9.3800e-003**	**9.3800e-003**	**0.0000**	**134.2016**	**134.2016**	**2.5700e-003**	**2.4500e-003**	**134.9991**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Day-Care Center	96720	5.2000e-004	4.7400e-003	3.9800e-003	3.0000e-005		3.6000e-004	3.6000e-004		3.6000e-004	3.6000e-004	0.0000	5.1614	5.1614	1.0000e-004	9.0000e-005	5.1920
General Light Industry	923100	4.9800e-003	0.0453	0.0380	2.7000e-004		3.4400e-003	3.4400e-003		3.4400e-003	3.4400e-003	0.0000	49.2601	49.2601	9.4000e-004	9.0000e-004	49.5529
General Office Building	1.12428e+006	6.0600e-003	0.0551	0.0463	3.3000e-004		4.1900e-003	4.1900e-003		4.1900e-003	4.1900e-003	0.0000	59.9959	59.9959	1.1500e-003	1.1000e-003	60.3524
General Office Building	174888	9.4000e-004	8.5700e-003	7.2000e-003	5.0000e-005		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004	0.0000	9.3327	9.3327	1.8000e-004	1.7000e-004	9.3882
Medical Office Building	114510	6.2000e-004	5.6100e-003	4.7200e-003	3.0000e-005		4.3000e-004	4.3000e-004		4.3000e-004	4.3000e-004	0.0000	6.1107	6.1107	1.2000e-004	1.1000e-004	6.1470
Unrefrigerated Warehouse-No Rail	28275	1.5000e-004	1.3900e-003	1.1600e-003	1.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	1.5089	1.5089	3.0000e-005	3.0000e-005	1.5178
Unrefrigerated Warehouse-No Rail	53070	2.9000e-004	2.6000e-003	2.1900e-003	2.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	2.8320	2.8320	5.0000e-005	5.0000e-005	2.8489
Total		**0.0136**	**0.1233**	**0.1036**	**7.4000e-004**		**9.3800e-003**	**9.3800e-003**		**9.3800e-003**	**9.3800e-003**	**0.0000**	**134.2016**	**134.2016**	**2.5700e-003**	**2.4500e-003**	**134.9991**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Day-Care Center	55056	20.8275	7.2000e-004	1.5000e-004	20.8902
General Light Industry	566100	214.1534	7.4500e-003	1.5400e-003	214.7987
General Office Building	1.40292e+006	530.7191	0.0185	3.8200e-003	532.3182
General Office Building	218232	82.5563	2.8700e-003	5.9000e-004	82.8051
Medical Office Building	142890	54.0547	1.8800e-003	3.9000e-004	54.2176
Unrefrigerated Warehouse-No Rail	126750	47.9490	1.6700e-003	3.4000e-004	48.0935
Unrefrigerated Warehouse-No Rail	237900	89.9966	3.1300e-003	6.5000e-004	90.2678
Total		**1,040.2566**	**0.0362**	**7.4800e-003**	**1,043.3911**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Day-Care Center	55056	20.8275	7.2000e-004	1.5000e-004	20.8902
General Light Industry	566100	214.1534	7.4500e-003	1.5400e-003	214.7987
General Office Building	1.40292e+006	530.7191	0.0185	3.8200e-003	532.3182
General Office Building	218232	82.5563	2.8700e-003	5.9000e-004	82.8051
Medical Office Building	142890	54.0547	1.8800e-003	3.9000e-004	54.2176
Unrefrigerated Warehouse-No Rail	126750	47.9490	1.6700e-003	3.4000e-004	48.0935
Unrefrigerated Warehouse-No Rail	237900	89.9966	3.1300e-003	6.5000e-004	90.2678
Total		**1,040.2566**	**0.0362**	**7.4800e-003**	**1,043.3911**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.1811	4.0000e-005	3.7900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.1900e-003	7.1900e-003	2.0000e-005	0.0000	7.7000e-003
Unmitigated	1.1811	4.0000e-005	3.7900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.1900e-003	7.1900e-003	2.0000e-005	0.0000	7.7000e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1342					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.0465					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.7000e-004	4.0000e-005	3.7900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.1900e-003	7.1900e-003	2.0000e-005	0.0000	7.7000e-003
Total	**1.1811**	**4.0000e-005**	**3.7900e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**7.1900e-003**	**7.1900e-003**	**2.0000e-005**	**0.0000**	**7.7000e-003**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1342					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.0465					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.7000e-004	4.0000e-005	3.7900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.1900e-003	7.1900e-003	2.0000e-005	0.0000	7.7000e-003
Total	**1.1811**	**4.0000e-005**	**3.7900e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**7.1900e-003**	**7.1900e-003**	**2.0000e-005**	**0.0000**	**7.7000e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	363.3782	1.8816	0.0466	424.3135
Unmitigated	363.3782	1.8816	0.0466	424.3135

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Day-Care Center	0.398873 / 1.02567	6.4021	0.0132	3.5000e-004	6.8374
General Light Industry	11.7937 / 0	61.8352	0.3863	9.4900e-003	74.3218
General Office Building	22.1812 / 13.5949	173.4346	0.7286	0.0183	197.0910
Medical Office Building	1.38029 / 0.262912	8.3419	0.0453	1.1200e-003	9.8066
Unrefrigerated Warehouse-No Rail	21.6219 / 0	113.3645	0.7083	0.0174	136.2567
Total		**363.3782**	**1.8816**	**0.0466**	**424.3135**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Day-Care Center	0.398873 / 1.02567	6.4021	0.0132	3.5000e-004	6.8374
General Light Industry	11.7937 / 0	61.8352	0.3863	9.4900e-003	74.3218
General Office Building	22.1812 / 13.5949	173.4346	0.7286	0.0183	197.0910
Medical Office Building	1.38029 / 0.262912	8.3419	0.0453	1.1200e-003	9.8066
Unrefrigerated Warehouse-No Rail	21.6219 / 0	113.3645	0.7083	0.0174	136.2567
Total		**363.3782**	**1.8816**	**0.0466**	**424.3135**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	80.8066	4.7755	0.0000	200.1950
Unmitigated	80.8066	4.7755	0.0000	200.1950

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Day-Care Center	12.09	2.4542	0.1450	0.0000	6.0801
General Light Industry	63.24	12.8372	0.7587	0.0000	31.8035
General Office Building	116.06	23.5591	1.3923	0.0000	58.3668
Medical Office Building	118.8	24.1153	1.4252	0.0000	59.7447
Unrefrigerated Warehouse-No Rail	87.89	17.8409	1.0544	0.0000	44.2000
Total		**80.8067**	**4.7755**	**0.0000**	**200.1950**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Day-Care Center	12.09	2.4542	0.1450	0.0000	6.0801
General Light Industry	63.24	12.8372	0.7587	0.0000	31.8035
General Office Building	116.06	23.5591	1.3923	0.0000	58.3668
Medical Office Building	118.8	24.1153	1.4252	0.0000	59.7447
Unrefrigerated Warehouse-No Rail	87.89	17.8409	1.0544	0.0000	44.2000
Total		**80.8067**	**4.7755**	**0.0000**	**200.1950**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Olive View-UCLA Medical Center - Tier 1A (Restorative Care Village)

Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	16.36	1000sqft	0.38	16,356.00	0
Hospital	47.03	1000sqft	1.08	47,035.00	0
Hospital	10.00	1000sqft	0.23	10,000.00	0
Medical Office Building	10.00	1000sqft	0.23	10,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2021
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	834	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Construction schedule based on the 9/4/2018 CEO letter to the Board of Supervisors stating that construction would be complete by early 2021. LADWP CO2 intensity revised based on 2016 CO2 intensity identified in 2017 Power Strategic Long-Term Resource Plan (p. C-15).

Land Use - Building square footages from project description. All Restorative Village structures modeled as hospital except for the Mental Health Wellness Center, which would function similar to a medical office building.

Construction Phase - Default construction schedule based on building square footages. All buildings assumed to be under construction concurrently

Off-road Equipment - Default construction equipment.

Off-road Equipment - Default construction equipment.

Off-road Equipment - Default construction equipment.

Off-road Equipment - Default construction equipment.

Off-road Equipment - Default construction equipment.

Off-road Equipment - Default construction equipment.

Grading - Off-site export is estimated to be 200 cy per day during the site prep and excavation phases; no import is assumed.

Demolition - No building demolition is required for the Restorative Village structures.

Trips and VMT - Default number of trips and distances assumed.

On-road Fugitive Dust - Defaults assumed.

Architectural Coating - Defaults assumed.

Vehicle Trips - Daily trips based on March 2019 TIA prepared by Fehr & Peers

Energy Use - Defaults assumed.

Water And Wastewater - Defaults assumed.

Solid Waste - Defaults assumed.

Construction Off-road Equipment Mitigation - Rule 403 compliance

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	50
tblGrading	MaterialExported	0.00	200.00
tblGrading	MaterialExported	0.00	200.00
tblLandUse	LandUseSquareFeet	16,360.00	16,356.00
tblLandUse	LandUseSquareFeet	47,030.00	47,035.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	834
tblVehicleTrips	ST_TR	10.18	9.39
tblVehicleTrips	ST_TR	8.96	29.70
tblVehicleTrips	SU_TR	8.91	9.39
tblVehicleTrips	SU_TR	1.55	29.70
tblVehicleTrips	WD_TR	13.22	9.39
tblVehicleTrips	WD_TR	36.13	29.70

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	38.9172	21.9669	15.2265	0.0289	6.1189	1.1537	6.9520	3.0390	1.0773	3.8060	0.0000	2,831.2907	2,831.2907	0.6151	0.0000	2,846.6671
Maximum	**38.9172**	**21.9669**	**15.2265**	**0.0289**	**6.1189**	**1.1537**	**6.9520**	**3.0390**	**1.0773**	**3.8060**	**0.0000**	**2,831.2907**	**2,831.2907**	**0.6151**	**0.0000**	**2,846.6671**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	38.9172	21.9669	15.2265	0.0289	2.4527	1.1537	3.2859	1.2064	1.0773	1.9733	0.0000	2,831.2907	2,831.2907	0.6151	0.0000	2,846.6671
Maximum	**38.9172**	**21.9669**	**15.2265**	**0.0289**	**2.4527**	**1.1537**	**3.2859**	**1.2064**	**1.0773**	**1.9733**	**0.0000**	**2,831.2907**	**2,831.2907**	**0.6151**	**0.0000**	**2,846.6671**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**59.92**	**0.00**	**52.73**	**60.30**	**0.00**	**48.15**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.8637	8.0000e-005	8.5500e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0183	0.0183	5.0000e-005		0.0195
Energy	0.1435	1.3046	1.0958	7.8300e-003		0.0992	0.0992		0.0992	0.0992		1,565.4798	1,565.4798	0.0300	0.0287	1,574.7827
Mobile	1.9318	9.1246	26.7459	0.0924	7.3192	0.0761	7.3953	1.9588	0.0710	2.0299		9,397.0937	9,397.0937	0.4870		9,409.2697
Total	**3.9390**	**10.4293**	**27.8503**	**0.1003**	**7.3192**	**0.1753**	**7.4945**	**1.9588**	**0.1702**	**2.1290**		**10,962.5918**	**10,962.5918**	**0.5171**	**0.0287**	**10,984.0718**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.8637	8.0000e-005	8.5500e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0183	0.0183	5.0000e-005		0.0195
Energy	0.1435	1.3046	1.0958	7.8300e-003		0.0992	0.0992		0.0992	0.0992		1,565.4798	1,565.4798	0.0300	0.0287	1,574.7827
Mobile	1.9318	9.1246	26.7459	0.0924	7.3192	0.0761	7.3953	1.9588	0.0710	2.0299		9,397.0937	9,397.0937	0.4870		9,409.2697
Total	**3.9390**	**10.4293**	**27.8503**	**0.1003**	**7.3192**	**0.1753**	**7.4945**	**1.9588**	**0.1702**	**2.1290**		**10,962.5918**	**10,962.5918**	**0.5171**	**0.0287**	**10,984.0718**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2020	1/28/2020	5	20	
2	Site Preparation	Site Preparation	1/29/2020	1/30/2020	5	2	
3	Grading	Grading	1/31/2020	2/5/2020	5	4	
4	Building Construction	Building Construction	2/6/2020	11/11/2020	5	200	
5	Paving	Paving	11/12/2020	11/25/2020	5	10	
6	Architectural Coating	Architectural Coating	11/26/2020	12/9/2020	5	10	

Acres of Grading (Site Preparation Phase): 1

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 125,087; Non-Residential Outdoor: 41,696; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	6.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	6.00	187	0.41
Paving	Paving Equipment	1	8.00	132	0.36
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Building Construction	Welders	3	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	25.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	25.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	27.00	14.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Clean Paved Roads

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1262	20.9463	14.6573	0.0241		1.1525	1.1525		1.0761	1.0761		2,322.3127	2,322.3127	0.5970		2,337.2363
Total	**2.1262**	**20.9463**	**14.6573**	**0.0241**		**1.1525**	**1.1525**		**1.0761**	**1.0761**		**2,322.3127**	**2,322.3127**	**0.5970**		**2,337.2363**

3.2 Demolition - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0598	0.0426	0.5692	1.5400e-003	0.1453	1.2100e-003	0.1465	0.0385	1.1200e-003	0.0397		152.8947	152.8947	4.8200e-003		153.0152
Total	**0.0598**	**0.0426**	**0.5692**	**1.5400e-003**	**0.1453**	**1.2100e-003**	**0.1465**	**0.0385**	**1.1200e-003**	**0.0397**		**152.8947**	**152.8947**	**4.8200e-003**		**153.0152**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1262	20.9463	14.6573	0.0241		1.1525	1.1525		1.0761	1.0761	0.0000	2,322.3127	2,322.3127	0.5970		2,337.2363
Total	**2.1262**	**20.9463**	**14.6573**	**0.0241**		**1.1525**	**1.1525**		**1.0761**	**1.0761**	**0.0000**	**2,322.3127**	**2,322.3127**	**0.5970**		**2,337.2363**

3.2 Demolition - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0598	0.0426	0.5692	1.5400e-003	0.0822	1.2100e-003	0.0834	0.0230	1.1200e-003	0.0242		152.8947	152.8947	4.8200e-003		153.0152
Total	**0.0598**	**0.0426**	**0.5692**	**1.5400e-003**	**0.0822**	**1.2100e-003**	**0.0834**	**0.0230**	**1.1200e-003**	**0.0242**		**152.8947**	**152.8947**	**4.8200e-003**		**153.0152**

3.3 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.8109	0.0000	5.8109	2.9554	0.0000	2.9554			0.0000			0.0000
Off-Road	1.6299	18.3464	7.7093	0.0172		0.8210	0.8210		0.7553	0.7553		1,667.4119	1,667.4119	0.5393		1,680.8937
Total	**1.6299**	**18.3464**	**7.7093**	**0.0172**	**5.8109**	**0.8210**	**6.6318**	**2.9554**	**0.7553**	**3.7107**		**1,667.4119**	**1,667.4119**	**0.5393**		**1,680.8937**

3.3 Site Preparation - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1092	3.5943	0.7965	9.8700e-003	0.2186	0.0115	0.2300	0.0599	0.0110	0.0709		1,069.7898	1,069.7898	0.0728		1,071.6102
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0368	0.0262	0.3503	9.4000e-004	0.0894	7.5000e-004	0.0902	0.0237	6.9000e-004	0.0244		94.0890	94.0890	2.9700e-003		94.1632
Total	**0.1460**	**3.6205**	**1.1467**	**0.0108**	**0.3080**	**0.0122**	**0.3202**	**0.0836**	**0.0117**	**0.0953**		**1,163.8788**	**1,163.8788**	**0.0758**		**1,165.7734**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.2662	0.0000	2.2662	1.1526	0.0000	1.1526			0.0000			0.0000
Off-Road	1.6299	18.3464	7.7093	0.0172		0.8210	0.8210		0.7553	0.7553	0.0000	1,667.4119	1,667.4119	0.5393		1,680.8937
Total	**1.6299**	**18.3464**	**7.7093**	**0.0172**	**2.2662**	**0.8210**	**3.0872**	**1.1526**	**0.7553**	**1.9079**	**0.0000**	**1,667.4119**	**1,667.4119**	**0.5393**		**1,680.8937**

3.3 Site Preparation - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1092	3.5943	0.7965	9.8700e-003	0.1359	0.0115	0.1474	0.0396	0.0110	0.0506		1,069.7898	1,069.7898	0.0728		1,071.6102
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0368	0.0262	0.3503	9.4000e-004	0.0506	7.5000e-004	0.0513	0.0142	6.9000e-004	0.0149		94.0890	94.0890	2.9700e-003		94.1632
Total	**0.1460**	**3.6205**	**1.1467**	**0.0108**	**0.1865**	**0.0122**	**0.1987**	**0.0538**	**0.0117**	**0.0655**		**1,163.8788**	**1,163.8788**	**0.0758**		**1,165.7734**

3.4 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.9199	0.0000	4.9199	2.5265	0.0000	2.5265			0.0000			0.0000
Off-Road	1.3498	15.0854	6.4543	0.0141		0.6844	0.6844		0.6296	0.6296		1,365.7183	1,365.7183	0.4417		1,376.7609
Total	**1.3498**	**15.0854**	**6.4543**	**0.0141**	**4.9199**	**0.6844**	**5.6043**	**2.5265**	**0.6296**	**3.1561**		**1,365.7183**	**1,365.7183**	**0.4417**		**1,376.7609**

3.4 Grading - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0546	1.7971	0.3982	4.9400e-003	0.1093	5.7400e-003	0.1150	0.0300	5.4900e-003	0.0354		534.8949	534.8949	0.0364		535.8051
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0368	0.0262	0.3503	9.4000e-004	0.0894	7.5000e-004	0.0902	0.0237	6.9000e-004	0.0244		94.0890	94.0890	2.9700e-003		94.1632
Total	**0.0914**	**1.8233**	**0.7485**	**5.8800e-003**	**0.1987**	**6.4900e-003**	**0.2052**	**0.0537**	**6.1800e-003**	**0.0598**		**628.9839**	**628.9839**	**0.0394**		**629.9683**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.9188	0.0000	1.9188	0.9853	0.0000	0.9853			0.0000			0.0000
Off-Road	1.3498	15.0854	6.4543	0.0141		0.6844	0.6844		0.6296	0.6296	0.0000	1,365.7183	1,365.7183	0.4417		1,376.7609
Total	**1.3498**	**15.0854**	**6.4543**	**0.0141**	**1.9188**	**0.6844**	**2.6031**	**0.9853**	**0.6296**	**1.6150**	**0.0000**	**1,365.7183**	**1,365.7183**	**0.4417**		**1,376.7609**

3.4 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0546	1.7971	0.3982	4.9400e-003	0.0680	5.7400e-003	0.0737	0.0198	5.4900e-003	0.0253		534.8949	534.8949	0.0364		535.8051
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0368	0.0262	0.3503	9.4000e-004	0.0506	7.5000e-004	0.0513	0.0142	6.9000e-004	0.0149		94.0890	94.0890	2.9700e-003		94.1632
Total	**0.0914**	**1.8233**	**0.7485**	**5.8800e-003**	**0.1185**	**6.4900e-003**	**0.1250**	**0.0340**	**6.1800e-003**	**0.0402**		**628.9839**	**628.9839**	**0.0394**		**629.9683**

3.5 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0305	14.7882	13.1881	0.0220		0.7960	0.7960		0.7688	0.7688		2,001.1595	2,001.1595	0.3715		2,010.4467
Total	**2.0305**	**14.7882**	**13.1881**	**0.0220**		**0.7960**	**0.7960**		**0.7688**	**0.7688**		**2,001.1595**	**2,001.1595**	**0.3715**		**2,010.4467**

3.5 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0498	1.4892	0.3902	3.6300e-003	0.0896	7.0100e-003	0.0966	0.0258	6.7000e-003	0.0325		387.8346	387.8346	0.0237		388.4263
Worker	0.1243	0.0884	1.1822	3.1900e-003	0.3018	2.5200e-003	0.3043	0.0800	2.3200e-003	0.0824		317.5505	317.5505	0.0100		317.8008
Total	**0.1740**	**1.5776**	**1.5724**	**6.8200e-003**	**0.3914**	**9.5300e-003**	**0.4010**	**0.1059**	**9.0200e-003**	**0.1149**		**705.3851**	**705.3851**	**0.0337**		**706.2270**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0305	14.7882	13.1881	0.0220		0.7960	0.7960		0.7688	0.7688	0.0000	2,001.1595	2,001.1595	0.3715		2,010.4467
Total	**2.0305**	**14.7882**	**13.1881**	**0.0220**		**0.7960**	**0.7960**		**0.7688**	**0.7688**	**0.0000**	**2,001.1595**	**2,001.1595**	**0.3715**		**2,010.4467**

3.5 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0498	1.4892	0.3902	3.6300e-003	0.0577	7.0100e-003	0.0647	0.0180	6.7000e-003	0.0247		387.8346	387.8346	0.0237		388.4263
Worker	0.1243	0.0884	1.1822	3.1900e-003	0.1706	2.5200e-003	0.1731	0.0478	2.3200e-003	0.0502		317.5505	317.5505	0.0100		317.8008
Total	**0.1740**	**1.5776**	**1.5724**	**6.8200e-003**	**0.2283**	**9.5300e-003**	**0.2378**	**0.0658**	**9.0200e-003**	**0.0748**		**705.3851**	**705.3851**	**0.0337**		**706.2270**

3.6 Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8402	8.4514	8.8758	0.0135		0.4695	0.4695		0.4328	0.4328		1,296.9461	1,296.9461	0.4111		1,307.2246
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.8402**	**8.4514**	**8.8758**	**0.0135**		**0.4695**	**0.4695**		**0.4328**	**0.4328**		**1,296.9461**	**1,296.9461**	**0.4111**		**1,307.2246**

3.6 Paving - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0598	0.0426	0.5692	1.5400e-003	0.1453	1.2100e-003	0.1465	0.0385	1.1200e-003	0.0397		152.8947	152.8947	4.8200e-003		153.0152
Total	**0.0598**	**0.0426**	**0.5692**	**1.5400e-003**	**0.1453**	**1.2100e-003**	**0.1465**	**0.0385**	**1.1200e-003**	**0.0397**		**152.8947**	**152.8947**	**4.8200e-003**		**153.0152**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8402	8.4514	8.8758	0.0135		0.4695	0.4695		0.4328	0.4328	0.0000	1,296.9461	1,296.9461	0.4111		1,307.2246
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.8402**	**8.4514**	**8.8758**	**0.0135**		**0.4695**	**0.4695**		**0.4328**	**0.4328**	**0.0000**	**1,296.9461**	**1,296.9461**	**0.4111**		**1,307.2246**

3.6 Paving - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0598	0.0426	0.5692	1.5400e-003	0.0822	1.2100e-003	0.0834	0.0230	1.1200e-003	0.0242		152.8947	152.8947	4.8200e-003		153.0152
Total	**0.0598**	**0.0426**	**0.5692**	**1.5400e-003**	**0.0822**	**1.2100e-003**	**0.0834**	**0.0230**	**1.1200e-003**	**0.0242**		**152.8947**	**152.8947**	**4.8200e-003**		**153.0152**

3.7 Architectural Coating - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	38.6520					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928
Total	**38.8941**	**1.6838**	**1.8314**	**2.9700e-003**		**0.1109**	**0.1109**		**0.1109**	**0.1109**		**281.4481**	**281.4481**	**0.0218**		**281.9928**

3.7 Architectural Coating - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0230	0.0164	0.2189	5.9000e-004	0.0559	4.7000e-004	0.0564	0.0148	4.3000e-004	0.0153		58.8056	58.8056	1.8500e-003		58.8520
Total	**0.0230**	**0.0164**	**0.2189**	**5.9000e-004**	**0.0559**	**4.7000e-004**	**0.0564**	**0.0148**	**4.3000e-004**	**0.0153**		**58.8056**	**58.8056**	**1.8500e-003**		**58.8520**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	38.6520					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928
Total	**38.8941**	**1.6838**	**1.8314**	**2.9700e-003**		**0.1109**	**0.1109**		**0.1109**	**0.1109**	**0.0000**	**281.4481**	**281.4481**	**0.0218**		**281.9928**

3.7 Architectural Coating - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0230	0.0164	0.2189	5.9000e-004	0.0316	4.7000e-004	0.0321	8.8600e-003	4.3000e-004	9.2900e-003		58.8056	58.8056	1.8500e-003		58.8520
Total	**0.0230**	**0.0164**	**0.2189**	**5.9000e-004**	**0.0316**	**4.7000e-004**	**0.0321**	**8.8600e-003**	**4.3000e-004**	**9.2900e-003**		**58.8056**	**58.8056**	**1.8500e-003**		**58.8520**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.9318	9.1246	26.7459	0.0924	7.3192	0.0761	7.3953	1.9588	0.0710	2.0299		9,397.0937	9,397.0937	0.4870		9,409.2697
Unmitigated	1.9318	9.1246	26.7459	0.0924	7.3192	0.0761	7.3953	1.9588	0.0710	2.0299		9,397.0937	9,397.0937	0.4870		9,409.2697

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Hospital	153.62	153.62	153.62	595,562	595,562
Hospital	441.61	441.61	441.61	1,712,059	1,712,059
Hospital	93.90	93.90	93.90	364,035	364,035
Medical Office Building	297.00	297.00	297.00	770,376	770,376
Total	986.13	986.13	986.13	3,442,032	3,442,032

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Hospital	16.60	8.40	6.90	64.90	16.10	19.00	73	25	2
Hospital	16.60	8.40	6.90	64.90	16.10	19.00	73	25	2
Hospital	16.60	8.40	6.90	64.90	16.10	19.00	73	25	2
Medical Office Building	16.60	8.40	6.90	29.60	51.40	19.00	60	30	10

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Hospital	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891
Medical Office Building	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1435	1.3046	1.0958	7.8300e-003		0.0992	0.0992		0.0992	0.0992		1,565.4798	1,565.4798	0.0300	0.0287	1,574.7827
NaturalGas Unmitigated	0.1435	1.3046	1.0958	7.8300e-003		0.0992	0.0992		0.0992	0.0992		1,565.4798	1,565.4798	0.0300	0.0287	1,574.7827

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Hospital	1774.25	0.0191	0.1740	0.1461	1.0400e-003		0.0132	0.0132		0.0132	0.0132		208.7349	208.7349	4.0000e-003	3.8300e-003	209.9753
Hospital	2901.96	0.0313	0.2845	0.2390	1.7100e-003		0.0216	0.0216		0.0216	0.0216		341.4068	341.4068	6.5400e-003	6.2600e-003	343.4356
Hospital	8345.17	0.0900	0.8182	0.6873	4.9100e-003		0.0622	0.0622		0.0622	0.0622		981.7846	981.7846	0.0188	0.0180	987.6188
Medical Office Building	285.205	3.0800e-003	0.0280	0.0235	1.7000e-004		2.1300e-003	2.1300e-003		2.1300e-003	2.1300e-003		33.5536	33.5536	6.4000e-004	6.2000e-004	33.7530
Total		**0.1435**	**1.3046**	**1.0958**	**7.8300e-003**		**0.0992**	**0.0992**		**0.0992**	**0.0992**		**1,565.4798**	**1,565.4798**	**0.0300**	**0.0287**	**1,574.7827**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Hospital	2.90196	0.0313	0.2845	0.2390	1.7100e-003		0.0216	0.0216		0.0216	0.0216		341.4068	341.4068	6.5400e-003	6.2600e-003	343.4356
Hospital	8.34517	0.0900	0.8182	0.6873	4.9100e-003		0.0622	0.0622		0.0622	0.0622		981.7846	981.7846	0.0188	0.0180	987.6188
Hospital	1.77425	0.0191	0.1740	0.1461	1.0400e-003		0.0132	0.0132		0.0132	0.0132		208.7349	208.7349	4.0000e-003	3.8300e-003	209.9753
Medical Office Building	0.285205	3.0800e-003	0.0280	0.0235	1.7000e-004		2.1300e-003	2.1300e-003		2.1300e-003	2.1300e-003		33.5536	33.5536	6.4000e-004	6.2000e-004	33.7530
Total		**0.1435**	**1.3046**	**1.0958**	**7.8300e-003**		**0.0992**	**0.0992**		**0.0992**	**0.0992**		**1,565.4798**	**1,565.4798**	**0.0300**	**0.0287**	**1,574.7827**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.8637	8.0000e-005	8.5500e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0183	0.0183	5.0000e-005		0.0195
Unmitigated	1.8637	8.0000e-005	8.5500e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0183	0.0183	5.0000e-005		0.0195

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2118					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.6511					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	8.0000e-004	8.0000e-005	8.5500e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0183	0.0183	5.0000e-005		0.0195
Total	**1.8637**	**8.0000e-005**	**8.5500e-003**	**0.0000**		**3.0000e-005**	**3.0000e-005**		**3.0000e-005**	**3.0000e-005**		**0.0183**	**0.0183**	**5.0000e-005**		**0.0195**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2118					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.6511					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	8.0000e-004	8.0000e-005	8.5500e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0183	0.0183	5.0000e-005		0.0195
Total	**1.8637**	**8.0000e-005**	**8.5500e-003**	**0.0000**		**3.0000e-005**	**3.0000e-005**		**3.0000e-005**	**3.0000e-005**		**0.0183**	**0.0183**	**5.0000e-005**		**0.0195**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Olive View-UCLA Medical Center - Tier 1A (Restorative Care Village)

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	16.36	1000sqft	0.38	16,356.00	0
Hospital	47.03	1000sqft	1.08	47,035.00	0
Hospital	10.00	1000sqft	0.23	10,000.00	0
Medical Office Building	10.00	1000sqft	0.23	10,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2021
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	834	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Construction schedule based on the 9/4/2018 CEO letter to the Board of Supervisors stating that construction would be complete by early 2021. LADWP CO2 intensity revised based on 2016 CO2 intensity identified in 2017 Power Strategic Long-Term Resource Plan (p. C-15).

Land Use - Building square footages from project description. All Restorative Village structures modeled as hospital except for the Mental Health Wellness Center, which would function similar to a medical office building.

Construction Phase - Default construction schedule based on building square footages. All buildings assumed to be under construction concurrently

Off-road Equipment - Default construction equipment.

Off-road Equipment - Default construction equipment.

Off-road Equipment - Default construction equipment.

Off-road Equipment - Default construction equipment.

Off-road Equipment - Default construction equipment.

Off-road Equipment - Default construction equipment.

Grading - Off-site export is estimated to be 200 cy per day during the site prep and excavation phases; no import is assumed.

Demolition - No building demolition is required for the Restorative Village structures.

Trips and VMT - Default number of trips and distances assumed.

On-road Fugitive Dust - Defaults assumed.

Architectural Coating - Defaults assumed.

Vehicle Trips - Daily trips based on March 2019 TIA prepared by Fehr & Peers

Energy Use - Defaults assumed.

Water And Wastewater - Defaults assumed.

Solid Waste - Defaults assumed.

Construction Off-road Equipment Mitigation - Rule 403 compliance

Olive View-UCLA Medical Center - Tier 1A (Restorative Care Village) - Los Angeles-South Coast County, Annual

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	50
tblGrading	MaterialExported	0.00	200.00
tblGrading	MaterialExported	0.00	200.00
tblLandUse	LandUseSquareFeet	16,360.00	16,356.00
tblLandUse	LandUseSquareFeet	47,030.00	47,035.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	834
tblVehicleTrips	ST_TR	10.18	9.39
tblVehicleTrips	ST_TR	8.96	29.70
tblVehicleTrips	SU_TR	8.91	9.39
tblVehicleTrips	SU_TR	1.55	29.70
tblVehicleTrips	WD_TR	13.22	9.39
tblVehicleTrips	WD_TR	36.13	29.70

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.4462	1.9576	1.7034	3.2800e-003	0.0572	0.0972	0.1544	0.0192	0.0933	0.1126	0.0000	280.5350	280.5350	0.0457	0.0000	281.6766
Maximum	**0.4462**	**1.9576**	**1.7034**	**3.2800e-003**	**0.0572**	**0.0972**	**0.1544**	**0.0192**	**0.0933**	**0.1126**	**0.0000**	**280.5350**	**280.5350**	**0.0457**	**0.0000**	**281.6766**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.4462	1.9576	1.7034	3.2800e-003	0.0304	0.0972	0.1276	0.0101	0.0933	0.1035	0.0000	280.5348	280.5348	0.0457	0.0000	281.6763
Maximum	**0.4462**	**1.9576**	**1.7034**	**3.2800e-003**	**0.0304**	**0.0972**	**0.1276**	**0.0101**	**0.0933**	**0.1035**	**0.0000**	**280.5348**	**280.5348**	**0.0457**	**0.0000**	**281.6763**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**46.90**	**0.00**	**17.37**	**47.40**	**0.00**	**8.10**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2020	3-31-2020	0.6535	0.6535
2	4-1-2020	6-30-2020	0.6035	0.6035
3	7-1-2020	9-30-2020	0.6102	0.6102
		Highest	0.6535	0.6535

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.3401	1.0000e-005	1.0700e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0700e-003	2.0700e-003	1.0000e-005	0.0000	2.2100e-003
Energy	0.0262	0.2381	0.2000	1.4300e-003		0.0181	0.0181		0.0181	0.0181	0.0000	941.8870	941.8870	0.0287	9.6600e-003	945.4843
Mobile	0.3341	1.7373	4.6836	0.0162	1.3064	0.0139	1.3202	0.3502	0.0129	0.3631	0.0000	1,497.1394	1,497.1394	0.0798	0.0000	1,499.1335
Waste						0.0000	0.0000		0.0000	0.0000	182.8157	0.0000	182.8157	10.8041	0.0000	452.9181
Water						0.0000	0.0000		0.0000	0.0000	3.3197	59.9194	63.2391	0.3431	8.4800e-003	74.3429
Total	**0.7003**	**1.9754**	**4.8847**	**0.0177**	**1.3064**	**0.0320**	**1.3383**	**0.3502**	**0.0310**	**0.3812**	**186.1354**	**2,498.9479**	**2,685.0833**	**11.2556**	**0.0181**	**2,971.8811**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.3401	1.0000e-005	1.0700e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0700e-003	2.0700e-003	1.0000e-005	0.0000	2.2100e-003
Energy	0.0262	0.2381	0.2000	1.4300e-003		0.0181	0.0181		0.0181	0.0181	0.0000	941.8870	941.8870	0.0287	9.6600e-003	945.4843
Mobile	0.3341	1.7373	4.6836	0.0162	1.3064	0.0139	1.3202	0.3502	0.0129	0.3631	0.0000	1,497.1394	1,497.1394	0.0798	0.0000	1,499.1335
Waste						0.0000	0.0000		0.0000	0.0000	182.8157	0.0000	182.8157	10.8041	0.0000	452.9181
Water						0.0000	0.0000		0.0000	0.0000	3.3197	59.9194	63.2391	0.3431	8.4800e-003	74.3429
Total	**0.7003**	**1.9754**	**4.8847**	**0.0177**	**1.3064**	**0.0320**	**1.3383**	**0.3502**	**0.0310**	**0.3812**	**186.1354**	**2,498.9479**	**2,685.0833**	**11.2556**	**0.0181**	**2,971.8811**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Olive View-UCLA Medical Center - Tier 1A (Restorative Care Village) - Los Angeles-South Coast County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2020	1/28/2020	5	20	
2	Site Preparation	Site Preparation	1/29/2020	1/30/2020	5	2	
3	Grading	Grading	1/31/2020	2/5/2020	5	4	
4	Building Construction	Building Construction	2/6/2020	11/11/2020	5	200	
5	Paving	Paving	11/12/2020	11/25/2020	5	10	
6	Architectural Coating	Architectural Coating	11/26/2020	12/9/2020	5	10	

Acres of Grading (Site Preparation Phase): 1

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 125,087; Non-Residential Outdoor: 41,696; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Olive View-UCLA Medical Center - Tier 1A (Restorative Care Village) - Los Angeles-South Coast County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	6.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	6.00	187	0.41
Paving	Paving Equipment	1	8.00	132	0.36
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Building Construction	Welders	3	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	25.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	25.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	27.00	14.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Clean Paved Roads

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0213	0.2095	0.1466	2.4000e-004		0.0115	0.0115		0.0108	0.0108	0.0000	21.0677	21.0677	5.4200e-003	0.0000	21.2031
Total	**0.0213**	**0.2095**	**0.1466**	**2.4000e-004**		**0.0115**	**0.0115**		**0.0108**	**0.0108**	**0.0000**	**21.0677**	**21.0677**	**5.4200e-003**	**0.0000**	**21.2031**

3.2 Demolition - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-004	4.8000e-004	5.3500e-003	1.0000e-005	1.4200e-003	1.0000e-005	1.4400e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.3278	1.3278	4.0000e-005	0.0000	1.3288
Total	**6.0000e-004**	**4.8000e-004**	**5.3500e-003**	**1.0000e-005**	**1.4200e-003**	**1.0000e-005**	**1.4400e-003**	**3.8000e-004**	**1.0000e-005**	**3.9000e-004**	**0.0000**	**1.3278**	**1.3278**	**4.0000e-005**	**0.0000**	**1.3288**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0213	0.2095	0.1466	2.4000e-004		0.0115	0.0115		0.0108	0.0108	0.0000	21.0676	21.0676	5.4200e-003	0.0000	21.2030
Total	**0.0213**	**0.2095**	**0.1466**	**2.4000e-004**		**0.0115**	**0.0115**		**0.0108**	**0.0108**	**0.0000**	**21.0676**	**21.0676**	**5.4200e-003**	**0.0000**	**21.2030**

3.2 Demolition - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-004	4.8000e-004	5.3500e-003	1.0000e-005	8.1000e-004	1.0000e-005	8.2000e-004	2.3000e-004	1.0000e-005	2.4000e-004	0.0000	1.3278	1.3278	4.0000e-005	0.0000	1.3288
Total	**6.0000e-004**	**4.8000e-004**	**5.3500e-003**	**1.0000e-005**	**8.1000e-004**	**1.0000e-005**	**8.2000e-004**	**2.3000e-004**	**1.0000e-005**	**2.4000e-004**	**0.0000**	**1.3278**	**1.3278**	**4.0000e-005**	**0.0000**	**1.3288**

3.3 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.8100e-003	0.0000	5.8100e-003	2.9600e-003	0.0000	2.9600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.6300e-003	0.0184	7.7100e-003	2.0000e-005		8.2000e-004	8.2000e-004		7.6000e-004	7.6000e-004	0.0000	1.5127	1.5127	4.9000e-004	0.0000	1.5249
Total	**1.6300e-003**	**0.0184**	**7.7100e-003**	**2.0000e-005**	**5.8100e-003**	**8.2000e-004**	**6.6300e-003**	**2.9600e-003**	**7.6000e-004**	**3.7200e-003**	**0.0000**	**1.5127**	**1.5127**	**4.9000e-004**	**0.0000**	**1.5249**

3.3 Site Preparation - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.1000e-004	3.7100e-003	8.2000e-004	1.0000e-005	2.1000e-004	1.0000e-005	2.3000e-004	6.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.9635	0.9635	7.0000e-005	0.0000	0.9652
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	3.0000e-005	3.3000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0817	0.0817	0.0000	0.0000	0.0818
Total	**1.5000e-004**	**3.7400e-003**	**1.1500e-003**	**1.0000e-005**	**3.0000e-004**	**1.0000e-005**	**3.2000e-004**	**8.0000e-005**	**1.0000e-005**	**9.0000e-005**	**0.0000**	**1.0452**	**1.0452**	**7.0000e-005**	**0.0000**	**1.0469**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.2700e-003	0.0000	2.2700e-003	1.1500e-003	0.0000	1.1500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.6300e-003	0.0184	7.7100e-003	2.0000e-005		8.2000e-004	8.2000e-004		7.6000e-004	7.6000e-004	0.0000	1.5127	1.5127	4.9000e-004	0.0000	1.5249
Total	**1.6300e-003**	**0.0184**	**7.7100e-003**	**2.0000e-005**	**2.2700e-003**	**8.2000e-004**	**3.0900e-003**	**1.1500e-003**	**7.6000e-004**	**1.9100e-003**	**0.0000**	**1.5127**	**1.5127**	**4.9000e-004**	**0.0000**	**1.5249**

3.3 Site Preparation - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.1000e-004	3.7100e-003	8.2000e-004	1.0000e-005	1.3000e-004	1.0000e-005	1.5000e-004	4.0000e-005	1.0000e-005	5.0000e-005	0.0000	0.9635	0.9635	7.0000e-005	0.0000	0.9652
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	3.0000e-005	3.3000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0817	0.0817	0.0000	0.0000	0.0818
Total	**1.5000e-004**	**3.7400e-003**	**1.1500e-003**	**1.0000e-005**	**1.8000e-004**	**1.0000e-005**	**2.0000e-004**	**5.0000e-005**	**1.0000e-005**	**6.0000e-005**	**0.0000**	**1.0452**	**1.0452**	**7.0000e-005**	**0.0000**	**1.0469**

3.4 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					9.8400e-003	0.0000	9.8400e-003	5.0500e-003	0.0000	5.0500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.7000e-003	0.0302	0.0129	3.0000e-005		1.3700e-003	1.3700e-003		1.2600e-003	1.2600e-003	0.0000	2.4779	2.4779	8.0000e-004	0.0000	2.4980
Total	**2.7000e-003**	**0.0302**	**0.0129**	**3.0000e-005**	**9.8400e-003**	**1.3700e-003**	**0.0112**	**5.0500e-003**	**1.2600e-003**	**6.3100e-003**	**0.0000**	**2.4779**	**2.4779**	**8.0000e-004**	**0.0000**	**2.4980**

3.4 Grading - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.1000e-004	3.7100e-003	8.2000e-004	1.0000e-005	2.1000e-004	1.0000e-005	2.3000e-004	6.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.9635	0.9635	7.0000e-005	0.0000	0.9652
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.0000e-005	6.0000e-005	6.6000e-004	0.0000	1.8000e-004	0.0000	1.8000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1634	0.1634	1.0000e-005	0.0000	0.1635
Total	**1.8000e-004**	**3.7700e-003**	**1.4800e-003**	**1.0000e-005**	**3.9000e-004**	**1.0000e-005**	**4.1000e-004**	**1.1000e-004**	**1.0000e-005**	**1.2000e-004**	**0.0000**	**1.1269**	**1.1269**	**8.0000e-005**	**0.0000**	**1.1287**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.8400e-003	0.0000	3.8400e-003	1.9700e-003	0.0000	1.9700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.7000e-003	0.0302	0.0129	3.0000e-005		1.3700e-003	1.3700e-003		1.2600e-003	1.2600e-003	0.0000	2.4779	2.4779	8.0000e-004	0.0000	2.4980
Total	**2.7000e-003**	**0.0302**	**0.0129**	**3.0000e-005**	**3.8400e-003**	**1.3700e-003**	**5.2100e-003**	**1.9700e-003**	**1.2600e-003**	**3.2300e-003**	**0.0000**	**2.4779**	**2.4779**	**8.0000e-004**	**0.0000**	**2.4980**

3.4 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.1000e-004	3.7100e-003	8.2000e-004	1.0000e-005	1.3000e-004	1.0000e-005	1.5000e-004	4.0000e-005	1.0000e-005	5.0000e-005	0.0000	0.9635	0.9635	7.0000e-005	0.0000	0.9652
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.0000e-005	6.0000e-005	6.6000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1634	0.1634	1.0000e-005	0.0000	0.1635
Total	**1.8000e-004**	**3.7700e-003**	**1.4800e-003**	**1.0000e-005**	**2.3000e-004**	**1.0000e-005**	**2.5000e-004**	**7.0000e-005**	**1.0000e-005**	**8.0000e-005**	**0.0000**	**1.1269**	**1.1269**	**8.0000e-005**	**0.0000**	**1.1287**

3.5 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2031	1.4788	1.3188	2.2000e-003		0.0796	0.0796		0.0769	0.0769	0.0000	181.5421	181.5421	0.0337	0.0000	182.3847
Total	**0.2031**	**1.4788**	**1.3188**	**2.2000e-003**		**0.0796**	**0.0796**		**0.0769**	**0.0769**	**0.0000**	**181.5421**	**181.5421**	**0.0337**	**0.0000**	**182.3847**

3.5 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0800e-003	0.1517	0.0411	3.6000e-004	8.8200e-003	7.1000e-004	9.5200e-003	2.5500e-003	6.7000e-004	3.2200e-003	0.0000	34.7797	34.7797	2.2100e-003	0.0000	34.8349
Worker	0.0125	0.0101	0.1111	3.1000e-004	0.0296	2.5000e-004	0.0298	7.8600e-003	2.3000e-004	8.0900e-003	0.0000	27.5765	27.5765	8.7000e-004	0.0000	27.5982
Total	**0.0175**	**0.1618**	**0.1522**	**6.7000e-004**	**0.0384**	**9.6000e-004**	**0.0394**	**0.0104**	**9.0000e-004**	**0.0113**	**0.0000**	**62.3561**	**62.3561**	**3.0800e-003**	**0.0000**	**62.4331**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2031	1.4788	1.3188	2.2000e-003		0.0796	0.0796		0.0769	0.0769	0.0000	181.5419	181.5419	0.0337	0.0000	182.3844
Total	**0.2031**	**1.4788**	**1.3188**	**2.2000e-003**		**0.0796**	**0.0796**		**0.0769**	**0.0769**	**0.0000**	**181.5419**	**181.5419**	**0.0337**	**0.0000**	**182.3844**

3.5 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0800e-003	0.1517	0.0411	3.6000e-004	5.7000e-003	7.1000e-004	6.4000e-003	1.7800e-003	6.7000e-004	2.4500e-003	0.0000	34.7797	34.7797	2.2100e-003	0.0000	34.8349
Worker	0.0125	0.0101	0.1111	3.1000e-004	0.0168	2.5000e-004	0.0170	4.7100e-003	2.3000e-004	4.9400e-003	0.0000	27.5765	27.5765	8.7000e-004	0.0000	27.5982
Total	**0.0175**	**0.1618**	**0.1522**	**6.7000e-004**	**0.0225**	**9.6000e-004**	**0.0234**	**6.4900e-003**	**9.0000e-004**	**7.3900e-003**	**0.0000**	**62.3561**	**62.3561**	**3.0800e-003**	**0.0000**	**62.4331**

3.6 Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.2000e-003	0.0423	0.0444	7.0000e-005		2.3500e-003	2.3500e-003		2.1600e-003	2.1600e-003	0.0000	5.8829	5.8829	1.8600e-003	0.0000	5.9295
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**4.2000e-003**	**0.0423**	**0.0444**	**7.0000e-005**		**2.3500e-003**	**2.3500e-003**		**2.1600e-003**	**2.1600e-003**	**0.0000**	**5.8829**	**5.8829**	**1.8600e-003**	**0.0000**	**5.9295**

3.6 Paving - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-004	2.4000e-004	2.6800e-003	1.0000e-005	7.1000e-004	1.0000e-005	7.2000e-004	1.9000e-004	1.0000e-005	1.9000e-004	0.0000	0.6639	0.6639	2.0000e-005	0.0000	0.6644
Total	**3.0000e-004**	**2.4000e-004**	**2.6800e-003**	**1.0000e-005**	**7.1000e-004**	**1.0000e-005**	**7.2000e-004**	**1.9000e-004**	**1.0000e-005**	**1.9000e-004**	**0.0000**	**0.6639**	**0.6639**	**2.0000e-005**	**0.0000**	**0.6644**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.2000e-003	0.0423	0.0444	7.0000e-005		2.3500e-003	2.3500e-003		2.1600e-003	2.1600e-003	0.0000	5.8828	5.8828	1.8600e-003	0.0000	5.9295
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**4.2000e-003**	**0.0423**	**0.0444**	**7.0000e-005**		**2.3500e-003**	**2.3500e-003**		**2.1600e-003**	**2.1600e-003**	**0.0000**	**5.8828**	**5.8828**	**1.8600e-003**	**0.0000**	**5.9295**

3.6 Paving - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-004	2.4000e-004	2.6800e-003	1.0000e-005	4.0000e-004	1.0000e-005	4.1000e-004	1.1000e-004	1.0000e-005	1.2000e-004	0.0000	0.6639	0.6639	2.0000e-005	0.0000	0.6644
Total	**3.0000e-004**	**2.4000e-004**	**2.6800e-003**	**1.0000e-005**	**4.0000e-004**	**1.0000e-005**	**4.1000e-004**	**1.1000e-004**	**1.0000e-005**	**1.2000e-004**	**0.0000**	**0.6639**	**0.6639**	**2.0000e-005**	**0.0000**	**0.6644**

3.7 Architectural Coating - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1933					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.2100e-003	8.4200e-003	9.1600e-003	1.0000e-005		5.5000e-004	5.5000e-004		5.5000e-004	5.5000e-004	0.0000	1.2766	1.2766	1.0000e-004	0.0000	1.2791
Total	**0.1945**	**8.4200e-003**	**9.1600e-003**	**1.0000e-005**		**5.5000e-004**	**5.5000e-004**		**5.5000e-004**	**5.5000e-004**	**0.0000**	**1.2766**	**1.2766**	**1.0000e-004**	**0.0000**	**1.2791**

3.7 Architectural Coating - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2000e-004	9.0000e-005	1.0300e-003	0.0000	2.7000e-004	0.0000	2.8000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2553	0.2553	1.0000e-005	0.0000	0.2555
Total	**1.2000e-004**	**9.0000e-005**	**1.0300e-003**	**0.0000**	**2.7000e-004**	**0.0000**	**2.8000e-004**	**7.0000e-005**	**0.0000**	**7.0000e-005**	**0.0000**	**0.2553**	**0.2553**	**1.0000e-005**	**0.0000**	**0.2555**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1933					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.2100e-003	8.4200e-003	9.1600e-003	1.0000e-005		5.5000e-004	5.5000e-004		5.5000e-004	5.5000e-004	0.0000	1.2766	1.2766	1.0000e-004	0.0000	1.2791
Total	**0.1945**	**8.4200e-003**	**9.1600e-003**	**1.0000e-005**		**5.5000e-004**	**5.5000e-004**		**5.5000e-004**	**5.5000e-004**	**0.0000**	**1.2766**	**1.2766**	**1.0000e-004**	**0.0000**	**1.2791**

3.7 Architectural Coating - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2000e-004	9.0000e-005	1.0300e-003	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	5.0000e-005	0.0000	0.2553	0.2553	1.0000e-005	0.0000	0.2555
Total	**1.2000e-004**	**9.0000e-005**	**1.0300e-003**	**0.0000**	**1.6000e-004**	**0.0000**	**1.6000e-004**	**4.0000e-005**	**0.0000**	**5.0000e-005**	**0.0000**	**0.2553**	**0.2553**	**1.0000e-005**	**0.0000**	**0.2555**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.3341	1.7373	4.6836	0.0162	1.3064	0.0139	1.3202	0.3502	0.0129	0.3631	0.0000	1,497.1394	1,497.1394	0.0798	0.0000	1,499.1335
Unmitigated	0.3341	1.7373	4.6836	0.0162	1.3064	0.0139	1.3202	0.3502	0.0129	0.3631	0.0000	1,497.1394	1,497.1394	0.0798	0.0000	1,499.1335

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Hospital	153.62	153.62	153.62	595,562	595,562
Hospital	441.61	441.61	441.61	1,712,059	1,712,059
Hospital	93.90	93.90	93.90	364,035	364,035
Medical Office Building	297.00	297.00	297.00	770,376	770,376
Total	986.13	986.13	986.13	3,442,032	3,442,032

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Hospital	16.60	8.40	6.90	64.90	16.10	19.00	73	25	2
Hospital	16.60	8.40	6.90	64.90	16.10	19.00	73	25	2
Hospital	16.60	8.40	6.90	64.90	16.10	19.00	73	25	2
Medical Office Building	16.60	8.40	6.90	29.60	51.40	19.00	60	30	10

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Hospital	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891
Medical Office Building	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	682.7043	682.7043	0.0237	4.9100e-003	684.7614
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	682.7043	682.7043	0.0237	4.9100e-003	684.7614
NaturalGas Mitigated	0.0262	0.2381	0.2000	1.4300e-003		0.0181	0.0181		0.0181	0.0181	0.0000	259.1827	259.1827	4.9700e-003	4.7500e-003	260.7229
NaturalGas Unmitigated	0.0262	0.2381	0.2000	1.4300e-003		0.0181	0.0181		0.0181	0.0181	0.0000	259.1827	259.1827	4.9700e-003	4.7500e-003	260.7229

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Hospital	1.05921e+006	5.7100e-003	0.0519	0.0436	3.1000e-004		3.9500e-003	3.9500e-003		3.9500e-003	3.9500e-003	0.0000	56.5237	56.5237	1.0800e-003	1.0400e-003	56.8596
Hospital	3.04599e+006	0.0164	0.1493	0.1254	9.0000e-004		0.0114	0.0114		0.0114	0.0114	0.0000	162.5454	162.5454	3.1200e-003	2.9800e-003	163.5114
Hospital	647600	3.4900e-003	0.0318	0.0267	1.9000e-004		2.4100e-003	2.4100e-003		2.4100e-003	2.4100e-003	0.0000	34.5584	34.5584	6.6000e-004	6.3000e-004	34.7638
Medical Office Building	104100	5.6000e-004	5.1000e-003	4.2900e-003	3.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004	0.0000	5.5552	5.5552	1.1000e-004	1.0000e-004	5.5882
Total		**0.0262**	**0.2381**	**0.2000**	**1.4300e-003**		**0.0181**	**0.0181**		**0.0181**	**0.0181**	**0.0000**	**259.1827**	**259.1827**	**4.9700e-003**	**4.7500e-003**	**260.7229**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Hospital	3.04599e+006	0.0164	0.1493	0.1254	9.0000e-004		0.0114	0.0114		0.0114	0.0114	0.0000	162.5454	162.5454	3.1200e-003	2.9800e-003	163.5114
Hospital	647600	3.4900e-003	0.0318	0.0267	1.9000e-004		2.4100e-003	2.4100e-003		2.4100e-003	2.4100e-003	0.0000	34.5584	34.5584	6.6000e-004	6.3000e-004	34.7638
Hospital	1.05921e+006	5.7100e-003	0.0519	0.0436	3.1000e-004		3.9500e-003	3.9500e-003		3.9500e-003	3.9500e-003	0.0000	56.5237	56.5237	1.0800e-003	1.0400e-003	56.8596
Medical Office Building	104100	5.6000e-004	5.1000e-003	4.2900e-003	3.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004	0.0000	5.5552	5.5552	1.1000e-004	1.0000e-004	5.5882
Total		**0.0262**	**0.2381**	**0.2000**	**1.4300e-003**		**0.0181**	**0.0181**		**0.0181**	**0.0181**	**0.0000**	**259.1827**	**259.1827**	**4.9700e-003**	**4.7500e-003**	**260.7229**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Hospital	1.07334e+006	406.0398	0.0141	2.9200e-003	407.2633
Hospital	228200	86.3272	3.0000e-003	6.2000e-004	86.5873
Hospital	373244	141.1967	4.9100e-003	1.0200e-003	141.6222
Medical Office Building	129900	49.1407	1.7100e-003	3.5000e-004	49.2887
Total		**682.7043**	**0.0237**	**4.9100e-003**	**684.7614**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Hospital	1.07334e+006	406.0398	0.0141	2.9200e-003	407.2633
Hospital	228200	86.3272	3.0000e-003	6.2000e-004	86.5873
Hospital	373244	141.1967	4.9100e-003	1.0200e-003	141.6222
Medical Office Building	129900	49.1407	1.7100e-003	3.5000e-004	49.2887
Total		**682.7043**	**0.0237**	**4.9100e-003**	**684.7614**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.3401	1.0000e-005	1.0700e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0700e-003	2.0700e-003	1.0000e-005	0.0000	2.2100e-003
Unmitigated	0.3401	1.0000e-005	1.0700e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0700e-003	2.0700e-003	1.0000e-005	0.0000	2.2100e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0387					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3013					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-004	1.0000e-005	1.0700e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0700e-003	2.0700e-003	1.0000e-005	0.0000	2.2100e-003
Total	**0.3401**	**1.0000e-005**	**1.0700e-003**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**2.0700e-003**	**2.0700e-003**	**1.0000e-005**	**0.0000**	**2.2100e-003**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0387					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3013					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-004	1.0000e-005	1.0700e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0700e-003	2.0700e-003	1.0000e-005	0.0000	2.2100e-003
Total	**0.3401**	**1.0000e-005**	**1.0700e-003**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**2.0700e-003**	**2.0700e-003**	**1.0000e-005**	**0.0000**	**2.2100e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	63.2391	0.3431	8.4800e-003	74.3429
Unmitigated	63.2391	0.3431	8.4800e-003	74.3429

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Hospital	9.20902 / 1.7541	55.6556	0.3019	7.4600e-003	65.4278
Medical Office Building	1.25481 / 0.239011	7.5835	0.0411	1.0200e-003	8.9151
Total		**63.2391**	**0.3431**	**8.4800e-003**	**74.3429**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Hospital	9.20902 / 1.7541	55.6556	0.3019	7.4600e-003	65.4278
Medical Office Building	1.25481 / 0.239011	7.5835	0.0411	1.0200e-003	8.9151
Total		**63.2391**	**0.3431**	**8.4800e-003**	**74.3429**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	182.8157	10.8041	0.0000	452.9181
Unmitigated	182.8157	10.8041	0.0000	452.9181

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Hospital	792.61	160.8927	9.5085	0.0000	398.6048
Medical Office Building	108	21.9230	1.2956	0.0000	54.3134
Total		**182.8157**	**10.8041**	**0.0000**	**452.9181**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Hospital	792.61	160.8927	9.5085	0.0000	398.6048
Medical Office Building	108	21.9230	1.2956	0.0000	54.3134
Total		**182.8157**	**10.8041**	**0.0000**	**452.9181**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Olive View-UCLA Medical Center - Tier 1B

Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	96.00	1000sqft	0.67	96,000.00	0
Hospital	296.00	1000sqft	1.40	296,000.00	0
Library	20.00	1000sqft	0.55	20,000.00	0
General Light Industry	77.00	1000sqft	0.78	77,000.00	0
Unrefrigerated Warehouse-No Rail	68.10	1000sqft	0.56	68,100.00	0
Enclosed Parking with Elevator	674.00	Space	1.06	269,600.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2023
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	834	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - LADWP CO2 intensity revised based on 2016 CO2 intensity identified in 2017 Power Strategic Long-Term Resource Plan (p. C-15).

Land Use - Building square footages from project description.

Construction Phase - Default construction schedule based on building square footages. All buildings assumed to be under construction concurrently.

Off-road Equipment - Default construction equipment

Off-road Equipment - Default construction equipment

Off-road Equipment - Default construction equipment

Off-road Equipment - Default construction equipment

Off-road Equipment - Default construction equipment

Off-road Equipment - Default construction equipment

Grading - Off-site export and import estimates provided by SmithGroupJJR. Import/export quantities assumed to be distributed evenly over site prep and grading phases.

Demolition - Demolition square footage provided by SmithGroupJJR

Trips and VMT - Default number of trips and distances assumed.

On-road Fugitive Dust - Defaults assumed.

Architectural Coating - VOC content of architectural coatings changed to 25 g/L to exceed SCAQMD Rule 1113 requirements.

Vehicle Trips - Daily operational trips based on March 2019 TIA prepared by Fehr & Peers, which would total 9,973 trips per day. All trips included in the Hospital land use, including internal capture, transit/walk/bike credit, and carpool accounted for.

Vehicle Emission Factors - Defaults assumed.

Vehicle Emission Factors - Defaults assumed.

Vehicle Emission Factors - Defaults assumed.

Road Dust - Defaults assumed.

Area Coating - VOC content of architectural coatings changed to 50 g/L to meet SCAQMD Rule 1113 requirements

Energy Use - Defaults assumed.

Water And Wastewater - Defaults assumed.

Solid Waste - Defaults assumed.

Construction Off-road Equipment Mitigation - Rule 403 compliance

Olive View-UCLA Medical Center - Tier 1B - Los Angeles-South Coast County, Summer

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblAreaMitigation	UseLowVOCPaintParkingValue	100	0
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	50	0
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	50	0
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	50
tblGrading	AcresOfGrading	10.00	5.00
tblGrading	AcresOfGrading	0.00	5.00
tblGrading	MaterialExported	0.00	22,833.00
tblGrading	MaterialExported	0.00	11,417.00
tblGrading	MaterialImported	0.00	11,667.00
tblGrading	MaterialImported	0.00	5,833.00
tblLandUse	LotAcreage	2.20	0.67
tblLandUse	LotAcreage	6.80	1.40
tblLandUse	LotAcreage	0.46	0.55
tblLandUse	LotAcreage	1.77	0.78
tblLandUse	LotAcreage	1.56	0.56
tblLandUse	LotAcreage	6.07	1.06
tblProjectCharacteristics	CO2IntensityFactor	1227.89	834
tblTripsAndVMT	HaulingTripNumber	4,313.00	4,312.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	ST_TR	10.18	33.69

tblVehicleTrips	ST_TR	46.55	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	SU_TR	8.91	33.69
tblVehicleTrips	SU_TR	25.49	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	13.22	33.69
tblVehicleTrips	WD_TR	56.24	0.00
tblVehicleTrips	WD_TR	1.68	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	5.7630	98.3834	35.4395	0.2083	22.7626	2.2236	24.9862	11.1042	2.0522	13.1565	0.0000	22,140.0170	22,140.0170	2.4365	0.0000	22,200.9301
2022	131.4358	28.8999	31.0508	0.0953	4.3070	0.8594	5.1664	1.1619	0.8084	1.9703	0.0000	9,616.9270	9,616.9270	0.9165	0.0000	9,639.8381
Maximum	**131.4358**	**98.3834**	**35.4395**	**0.2083**	**22.7626**	**2.2236**	**24.9862**	**11.1042**	**2.0522**	**13.1565**	**0.0000**	**22,140.0170**	**22,140.0170**	**2.4365**	**0.0000**	**22,200.9301**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	5.7630	98.3834	35.4395	0.2083	9.7871	2.2236	12.0107	4.6223	2.0522	6.6745	0.0000	22,140.0170	22,140.0170	2.4365	0.0000	22,200.9301
2022	131.4358	28.8999	31.0508	0.0953	2.5026	0.8594	3.3620	0.7190	0.8084	1.5274	0.0000	9,616.9270	9,616.9270	0.9165	0.0000	9,639.8381
Maximum	**131.4358**	**98.3834**	**35.4395**	**0.2083**	**9.7871**	**2.2236**	**12.0107**	**4.6223**	**2.0522**	**6.6745**	**0.0000**	**22,140.0170**	**22,140.0170**	**2.4365**	**0.0000**	**22,200.9301**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**54.60**	**0.00**	**49.02**	**56.46**	**0.00**	**45.78**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	11.8657	1.1400e-003	0.1257	1.0000e-005		4.5000e-004	4.5000e-004		4.5000e-004	4.5000e-004		0.2694	0.2694	7.1000e-004		0.2871
Energy	0.6495	5.9047	4.9600	0.0354		0.4488	0.4488		0.4488	0.4488		7,085.6622	7,085.6622	0.1358	0.1299	7,127.7688
Mobile	17.4418	73.0423	253.6076	0.9711	82.2093	0.7056	82.9150	21.9997	0.6564	22.6560		98,883.0293	98,883.0293	4.6583		98,999.4879
Total	**29.9570**	**78.9482**	**258.6932**	**1.0066**	**82.2093**	**1.1549**	**83.3642**	**21.9997**	**1.1056**	**23.1053**		**105,968.9610**	**105,968.9610**	**4.7949**	**0.1299**	**106,127.5437**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	11.8657	1.1400e-003	0.1257	1.0000e-005		4.5000e-004	4.5000e-004		4.5000e-004	4.5000e-004		0.2694	0.2694	7.1000e-004		0.2871
Energy	0.6495	5.9047	4.9600	0.0354		0.4488	0.4488		0.4488	0.4488		7,085.6622	7,085.6622	0.1358	0.1299	7,127.7688
Mobile	17.4418	73.0423	253.6076	0.9711	82.2093	0.7056	82.9150	21.9997	0.6564	22.6560		98,883.0293	98,883.0293	4.6583		98,999.4879
Total	**29.9570**	**78.9482**	**258.6932**	**1.0066**	**82.2093**	**1.1549**	**83.3642**	**21.9997**	**1.1056**	**23.1053**		**105,968.9610**	**105,968.9610**	**4.7949**	**0.1299**	**106,127.5437**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2021	1/28/2021	5	20	
2	Site Preparation	Site Preparation	1/29/2021	2/11/2021	5	10	
3	Grading	Grading	2/12/2021	3/11/2021	5	20	
4	Building Construction	Building Construction	3/12/2021	1/27/2022	5	230	
5	Paving	Paving	1/28/2022	2/24/2022	5	20	
6	Architectural Coating	Architectural Coating	2/25/2022	3/24/2022	5	20	

Acres of Grading (Site Preparation Phase): 5

Acres of Grading (Grading Phase): 5

Acres of Paving: 1.06

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 835,650; Non-Residential Outdoor: 278,550; Striped Parking Area: 16,176 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	618.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	2,156.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	4,312.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	308.00	135.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	62.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Clean Paved Roads

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.6838	0.0000	6.6838	1.0120	0.0000	1.0120			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411		3,747.9449	3,747.9449	1.0549		3,774.3174
Total	**3.1651**	**31.4407**	**21.5650**	**0.0388**	**6.6838**	**1.5513**	**8.2351**	**1.0120**	**1.4411**	**2.4531**		**3,747.9449**	**3,747.9449**	**1.0549**		**3,774.3174**

3.2 Demolition - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2576	8.2887	1.9435	0.0241	0.5403	0.0254	0.5657	0.1481	0.0243	0.1725		2,615.5190	2,615.5190	0.1775		2,619.9564
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0643	0.0442	0.6042	1.7100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		170.8155	170.8155	5.0300e-003		170.9413
Total	**0.3219**	**8.3329**	**2.5476**	**0.0258**	**0.7080**	**0.0268**	**0.7348**	**0.1926**	**0.0256**	**0.2182**		**2,786.3345**	**2,786.3345**	**0.1825**		**2,790.8977**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.6067	0.0000	2.6067	0.3947	0.0000	0.3947			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174
Total	**3.1651**	**31.4407**	**21.5650**	**0.0388**	**2.6067**	**1.5513**	**4.1580**	**0.3947**	**1.4411**	**1.8358**	**0.0000**	**3,747.9449**	**3,747.9449**	**1.0549**		**3,774.3174**

3.2 Demolition - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2576	8.2887	1.9435	0.0241	0.3360	0.0254	0.3615	0.0980	0.0243	0.1223		2,615.5190	2,615.5190	0.1775		2,619.9564
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0643	0.0442	0.6042	1.7100e-003	0.0948	1.3500e-003	0.0961	0.0266	1.2500e-003	0.0278		170.8155	170.8155	5.0300e-003		170.9413
Total	**0.3219**	**8.3329**	**2.5476**	**0.0258**	**0.4308**	**0.0268**	**0.4576**	**0.1246**	**0.0256**	**0.1501**		**2,786.3345**	**2,786.3345**	**0.1825**		**2,790.8977**

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.7916	0.0000	18.7916	10.0175	0.0000	10.0175			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809		3,685.6569	3,685.6569	1.1920		3,715.4573
Total	**3.8882**	**40.4971**	**21.1543**	**0.0380**	**18.7916**	**2.0445**	**20.8361**	**10.0175**	**1.8809**	**11.8984**		**3,685.6569**	**3,685.6569**	**1.1920**		**3,715.4573**

3.3 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.7977	57.8333	13.5603	0.1682	3.7699	0.1775	3.9474	1.0334	0.1698	1.2032		18,249.3816	18,249.3816	1.2385		18,280.3433
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0772	0.0530	0.7250	2.0600e-003	0.2012	1.6300e-003	0.2028	0.0534	1.5000e-003	0.0549		204.9786	204.9786	6.0400e-003		205.1296
Total	**1.8748**	**57.8863**	**14.2852**	**0.1703**	**3.9711**	**0.1791**	**4.1502**	**1.0867**	**0.1713**	**1.2581**		**18,454.3602**	**18,454.3602**	**1.2445**		**18,485.4729**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.3287	0.0000	7.3287	3.9068	0.0000	3.9068			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573
Total	**3.8882**	**40.4971**	**21.1543**	**0.0380**	**7.3287**	**2.0445**	**9.3732**	**3.9068**	**1.8809**	**5.7877**	**0.0000**	**3,685.6569**	**3,685.6569**	**1.1920**		**3,715.4573**

3.3 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.7977	57.8333	13.5603	0.1682	2.3446	0.1775	2.5221	0.6836	0.1698	0.8534		18,249.3816	18,249.3816	1.2385		18,280.3433
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0772	0.0530	0.7250	2.0600e-003	0.1137	1.6300e-003	0.1154	0.0319	1.5000e-003	0.0334		204.9786	204.9786	6.0400e-003		205.1296
Total	**1.8748**	**57.8863**	**14.2852**	**0.1703**	**2.4584**	**0.1791**	**2.6375**	**0.7154**	**0.1713**	**0.8868**		**18,454.3602**	**18,454.3602**	**1.2445**		**18,485.4729**

3.4 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.4823	0.0000	6.4823	3.3684	0.0000	3.3684			0.0000			0.0000
Off-Road	2.2903	24.7367	15.8575	0.0296		1.1599	1.1599		1.0671	1.0671		2,871.9285	2,871.9285	0.9288		2,895.1495
Total	**2.2903**	**24.7367**	**15.8575**	**0.0296**	**6.4823**	**1.1599**	**7.6422**	**3.3684**	**1.0671**	**4.4355**		**2,871.9285**	**2,871.9285**	**0.9288**		**2,895.1495**

3.4 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.7977	57.8333	13.5603	0.1682	3.7699	0.1775	3.9474	1.0334	0.1698	1.2032		18,249.3816	18,249.3816	1.2385		18,280.3433
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0643	0.0442	0.6042	1.7100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		170.8155	170.8155	5.0300e-003		170.9413
Total	**1.8620**	**57.8775**	**14.1644**	**0.1699**	**3.9375**	**0.1789**	**4.1164**	**1.0779**	**0.1711**	**1.2489**		**18,420.1971**	**18,420.1971**	**1.2435**		**18,451.2846**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.5281	0.0000	2.5281	1.3137	0.0000	1.3137			0.0000			0.0000
Off-Road	2.2903	24.7367	15.8575	0.0296		1.1599	1.1599		1.0671	1.0671	0.0000	2,871.9285	2,871.9285	0.9288		2,895.1495
Total	**2.2903**	**24.7367**	**15.8575**	**0.0296**	**2.5281**	**1.1599**	**3.6880**	**1.3137**	**1.0671**	**2.3808**	**0.0000**	**2,871.9285**	**2,871.9285**	**0.9288**		**2,895.1495**

3.4 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.7977	57.8333	13.5603	0.1682	2.3446	0.1775	2.5221	0.6836	0.1698	0.8534		18,249.3816	18,249.3816	1.2385		18,280.3433
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0643	0.0442	0.6042	1.7100e-003	0.0948	1.3500e-003	0.0961	0.0266	1.2500e-003	0.0278		170.8155	170.8155	5.0300e-003		170.9413
Total	**1.8620**	**57.8775**	**14.1644**	**0.1699**	**2.4394**	**0.1789**	**2.6183**	**0.7101**	**0.1711**	**0.8812**		**18,420.1971**	**18,420.1971**	**1.2435**		**18,451.2846**

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**		**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4104	13.1071	3.4265	0.0347	0.8643	0.0268	0.8911	0.2488	0.0256	0.2745		3,710.8885	3,710.8885	0.2186		3,716.3540
Worker	1.3203	0.9075	12.4054	0.0352	3.4427	0.0278	3.4705	0.9130	0.0256	0.9387		3,507.4112	3,507.4112	0.1034		3,509.9948
Total	**1.7306**	**14.0146**	**15.8320**	**0.0699**	**4.3070**	**0.0546**	**4.3616**	**1.1619**	**0.0513**	**1.2131**		**7,218.2997**	**7,218.2997**	**0.3220**		**7,226.3488**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**	**0.0000**	**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4104	13.1071	3.4265	0.0347	0.5564	0.0268	0.5832	0.1733	0.0256	0.1989		3,710.8885	3,710.8885	0.2186		3,716.3540
Worker	1.3203	0.9075	12.4054	0.0352	1.9462	0.0278	1.9740	0.5457	0.0256	0.5713		3,507.4112	3,507.4112	0.1034		3,509.9948
Total	**1.7306**	**14.0146**	**15.8320**	**0.0699**	**2.5026**	**0.0546**	**2.5572**	**0.7190**	**0.0513**	**0.7702**		**7,218.2997**	**7,218.2997**	**0.3220**		**7,226.3488**

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**		**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

3.5 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3851	12.4646	3.2420	0.0344	0.8643	0.0234	0.8877	0.2489	0.0224	0.2713		3,678.5595	3,678.5595	0.2111		3,683.8370
Worker	1.2367	0.8197	11.4454	0.0340	3.4427	0.0270	3.4697	0.9130	0.0248	0.9379		3,384.0339	3,384.0339	0.0934		3,386.3690
Total	**1.6218**	**13.2843**	**14.6874**	**0.0683**	**4.3070**	**0.0504**	**4.3574**	**1.1619**	**0.0472**	**1.2091**		**7,062.5934**	**7,062.5934**	**0.3045**		**7,070.2059**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**	**0.0000**	**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

3.5 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3851	12.4646	3.2420	0.0344	0.5564	0.0234	0.5799	0.1733	0.0224	0.1957		3,678.5595	3,678.5595	0.2111		3,683.8370
Worker	1.2367	0.8197	11.4454	0.0340	1.9462	0.0270	1.9732	0.5457	0.0248	0.5705		3,384.0339	3,384.0339	0.0934		3,386.3690
Total	**1.6218**	**13.2843**	**14.6874**	**0.0683**	**2.5026**	**0.0504**	**2.5530**	**0.7190**	**0.0472**	**0.7662**		**7,062.5934**	**7,062.5934**	**0.3045**		**7,070.2059**

3.6 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.1028**	**11.1249**	**14.5805**	**0.0228**		**0.5679**	**0.5679**		**0.5225**	**0.5225**		**2,207.6603**	**2,207.6603**	**0.7140**		**2,225.5104**

3.6 Paving - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0602	0.0399	0.5574	1.6500e-003	0.1677	1.3100e-003	0.1690	0.0445	1.2100e-003	0.0457		164.8069	164.8069	4.5500e-003		164.9206
Total	**0.0602**	**0.0399**	**0.5574**	**1.6500e-003**	**0.1677**	**1.3100e-003**	**0.1690**	**0.0445**	**1.2100e-003**	**0.0457**		**164.8069**	**164.8069**	**4.5500e-003**		**164.9206**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.1028**	**11.1249**	**14.5805**	**0.0228**		**0.5679**	**0.5679**		**0.5225**	**0.5225**	**0.0000**	**2,207.6603**	**2,207.6603**	**0.7140**		**2,225.5104**

3.6 Paving - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0602	0.0399	0.5574	1.6500e-003	0.0948	1.3100e-003	0.0961	0.0266	1.2100e-003	0.0278		164.8069	164.8069	4.5500e-003		164.9206
Total	**0.0602**	**0.0399**	**0.5574**	**1.6500e-003**	**0.0948**	**1.3100e-003**	**0.0961**	**0.0266**	**1.2100e-003**	**0.0278**		**164.8069**	**164.8069**	**4.5500e-003**		**164.9206**

3.7 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	130.9823					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	**131.1869**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**		**281.4481**	**281.4481**	**0.0183**		**281.9062**

3.7 Architectural Coating - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2489	0.1650	2.3039	6.8400e-003	0.6930	5.4200e-003	0.6984	0.1838	5.0000e-003	0.1888		681.2016	681.2016	0.0188		681.6717
Total	**0.2489**	**0.1650**	**2.3039**	**6.8400e-003**	**0.6930**	**5.4200e-003**	**0.6984**	**0.1838**	**5.0000e-003**	**0.1888**		**681.2016**	**681.2016**	**0.0188**		**681.6717**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	130.9823					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	**131.1869**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**	**0.0000**	**281.4481**	**281.4481**	**0.0183**		**281.9062**

3.7 Architectural Coating - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2489	0.1650	2.3039	6.8400e-003	0.3918	5.4200e-003	0.3972	0.1099	5.0000e-003	0.1149		681.2016	681.2016	0.0188		681.6717
Total	**0.2489**	**0.1650**	**2.3039**	**6.8400e-003**	**0.3918**	**5.4200e-003**	**0.3972**	**0.1099**	**5.0000e-003**	**0.1149**		**681.2016**	**681.2016**	**0.0188**		**681.6717**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	17.4418	73.0423	253.6076	0.9711	82.2093	0.7056	82.9150	21.9997	0.6564	22.6560		98,883.0293	98,883.0293	4.6583		98,999.4879
Unmitigated	17.4418	73.0423	253.6076	0.9711	82.2093	0.7056	82.9150	21.9997	0.6564	22.6560		98,883.0293	98,883.0293	4.6583		98,999.4879

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Light Industry	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Hospital	9,972.24	9,972.24	9972.24	38,660,796	38,660,796
Library	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	9,972.24	9,972.24	9,972.24	38,660,796	38,660,796

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Hospital	16.60	8.40	6.90	64.90	16.10	19.00	73	25	2
Library	16.60	8.40	6.90	52.00	43.00	5.00	44	44	12
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking with Elevator	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
General Light Industry	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
General Office Building	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
Hospital	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
Library	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
Unrefrigerated Warehouse-No Rail	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Olive View-UCLA Medical Center - Tier 1B - Los Angeles-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.6495	5.9047	4.9600	0.0354		0.4488	0.4488		0.4488	0.4488		7,085.6622	7,085.6622	0.1358	0.1299	7,127.7688
NaturalGas Unmitigated	0.6495	5.9047	4.9600	0.0354		0.4488	0.4488		0.4488	0.4488		7,085.6622	7,085.6622	0.1358	0.1299	7,127.7688

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Light Industry	3818.36	0.0412	0.3744	0.3145	2.2500e-003		0.0285	0.0285		0.0285	0.0285		449.2184	449.2184	8.6100e-003	8.2400e-003	451.8879
General Office Building	2737.97	0.0295	0.2684	0.2255	1.6100e-003		0.0204	0.0204		0.0204	0.0204		322.1144	322.1144	6.1700e-003	5.9100e-003	324.0286
Hospital	52517.7	0.5664	5.1488	4.3250	0.0309		0.3913	0.3913		0.3913	0.3913		6,178.5528	6,178.5528	0.1184	0.1133	6,215.2688
Library	991.781	0.0107	0.0972	0.0817	5.8000e-004		7.3900e-003	7.3900e-003		7.3900e-003	7.3900e-003		116.6801	116.6801	2.2400e-003	2.1400e-003	117.3735
Unrefrigerated Warehouse-No Rail	162.321	1.7500e-003	0.0159	0.0134	1.0000e-004		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003		19.0965	19.0965	3.7000e-004	3.5000e-004	19.2100
Total		**0.6495**	**5.9047**	**4.9600**	**0.0354**		**0.4488**	**0.4488**		**0.4488**	**0.4488**		**7,085.6622**	**7,085.6622**	**0.1358**	**0.1299**	**7,127.7688**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Light Industry	3.81836	0.0412	0.3744	0.3145	2.2500e-003		0.0285	0.0285		0.0285	0.0285		449.2184	449.2184	8.6100e-003	8.2400e-003	451.8879
General Office Building	2.73797	0.0295	0.2684	0.2255	1.6100e-003		0.0204	0.0204		0.0204	0.0204		322.1144	322.1144	6.1700e-003	5.9100e-003	324.0286
Hospital	52.5177	0.5664	5.1488	4.3250	0.0309		0.3913	0.3913		0.3913	0.3913		6,178.5528	6,178.5528	0.1184	0.1133	6,215.2688
Library	0.991781	0.0107	0.0972	0.0817	5.8000e-004		7.3900e-003	7.3900e-003		7.3900e-003	7.3900e-003		116.6801	116.6801	2.2400e-003	2.1400e-003	117.3735
Unrefrigerated Warehouse-No Rail	0.162321	1.7500e-003	0.0159	0.0134	1.0000e-004		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003		19.0965	19.0965	3.7000e-004	3.5000e-004	19.2100
Total		**0.6495**	**5.9047**	**4.9600**	**0.0354**		**0.4488**	**0.4488**		**0.4488**	**0.4488**		**7,085.6622**	**7,085.6622**	**0.1358**	**0.1299**	**7,127.7688**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	11.8657	1.1400e-003	0.1257	1.0000e-005		4.5000e-004	4.5000e-004		4.5000e-004	4.5000e-004		0.2694	0.2694	7.1000e-004		0.2871
Unmitigated	11.8657	1.1400e-003	0.1257	1.0000e-005		4.5000e-004	4.5000e-004		4.5000e-004	4.5000e-004		0.2694	0.2694	7.1000e-004		0.2871

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.7280					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	11.1261					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0116	1.1400e-003	0.1257	1.0000e-005		4.5000e-004	4.5000e-004		4.5000e-004	4.5000e-004		0.2694	0.2694	7.1000e-004		0.2871
Total	**11.8657**	**1.1400e-003**	**0.1257**	**1.0000e-005**		**4.5000e-004**	**4.5000e-004**		**4.5000e-004**	**4.5000e-004**		**0.2694**	**0.2694**	**7.1000e-004**		**0.2871**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.7280					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	11.1261					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0116	1.1400e-003	0.1257	1.0000e-005		4.5000e-004	4.5000e-004		4.5000e-004	4.5000e-004		0.2694	0.2694	7.1000e-004		0.2871
Total	**11.8657**	**1.1400e-003**	**0.1257**	**1.0000e-005**		**4.5000e-004**	**4.5000e-004**		**4.5000e-004**	**4.5000e-004**		**0.2694**	**0.2694**	**7.1000e-004**		**0.2871**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Olive View-UCLA Medical Center - Tier 1B

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	96.00	1000sqft	0.67	96,000.00	0
Hospital	296.00	1000sqft	1.40	296,000.00	0
Library	20.00	1000sqft	0.55	20,000.00	0
General Light Industry	77.00	1000sqft	0.78	77,000.00	0
Unrefrigerated Warehouse-No Rail	68.10	1000sqft	0.56	68,100.00	0
Enclosed Parking with Elevator	674.00	Space	1.06	269,600.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2023
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	834	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - LADWP CO2 intensity revised based on 2016 CO2 intensity identified in 2017 Power Strategic Long-Term Resource Plan (p. C-15).

Land Use - Building square footages from project description.

Construction Phase - Default construction schedule based on building square footages. All buildings assumed to be under construction concurrently.

Off-road Equipment - Default construction equipment

Off-road Equipment - Default construction equipment

Off-road Equipment - Default construction equipment

Off-road Equipment - Default construction equipment

Off-road Equipment - Default construction equipment

Off-road Equipment - Default construction equipment

Grading - Off-site export and import estimates provided by SmithGroupJJR. Import/export quantities assumed to be distributed evenly over site prep and grading phases.

Demolition - Demolition square footage provided by SmithGroupJJR

Trips and VMT - Default number of trips and distances assumed.

On-road Fugitive Dust - Defaults assumed.

Architectural Coating - VOC content of architectural coatings changed to 25 g/L to exceed SCAQMD Rule 1113 requirements.

Vehicle Trips - Daily operational trips based on March 2019 TIA prepared by Fehr & Peers, which would total 9,973 trips per day. All trips included in the Hospital land use, including internal capture, transit/walk/bike credit, and carpool accounted for.

Vehicle Emission Factors - Defaults assumed.

Vehicle Emission Factors - Defaults assumed.

Vehicle Emission Factors - Defaults assumed.

Road Dust - Defaults assumed.

Area Coating - VOC content of architectural coatings changed to 50 g/L to meet SCAQMD Rule 1113 requirements

Energy Use - Defaults assumed.

Water And Wastewater - Defaults assumed.

Solid Waste - Defaults assumed.

Construction Off-road Equipment Mitigation - Rule 403 compliance

Olive View-UCLA Medical Center - Tier 1B - Los Angeles-South Coast County, Annual

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblAreaMitigation	UseLowVOCPaintParkingValue	100	0
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	50	0
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	50	0
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	50
tblGrading	AcresOfGrading	10.00	5.00
tblGrading	AcresOfGrading	0.00	5.00
tblGrading	MaterialExported	0.00	22,833.00
tblGrading	MaterialExported	0.00	11,417.00
tblGrading	MaterialImported	0.00	11,667.00
tblGrading	MaterialImported	0.00	5,833.00
tblLandUse	LotAcreage	2.20	0.67
tblLandUse	LotAcreage	6.80	1.40
tblLandUse	LotAcreage	0.46	0.55
tblLandUse	LotAcreage	1.77	0.78
tblLandUse	LotAcreage	1.56	0.56
tblLandUse	LotAcreage	6.07	1.06
tblProjectCharacteristics	CO2IntensityFactor	1227.89	834
tblTripsAndVMT	HaulingTripNumber	4,313.00	4,312.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	ST_TR	10.18	33.69

tblVehicleTrips	ST_TR	46.55	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	SU_TR	8.91	33.69
tblVehicleTrips	SU_TR	25.49	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	13.22	33.69
tblVehicleTrips	WD_TR	56.24	0.00
tblVehicleTrips	WD_TR	1.68	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.4901	5.0999	4.0820	0.0137	0.7366	0.1472	0.8838	0.2322	0.1379	0.3701	0.0000	1,267.4994	1,267.4994	0.1322	0.0000	1,270.8047
2022	1.3578	0.4051	0.4806	1.2300e-003	0.0486	0.0147	0.0633	0.0131	0.0138	0.0269	0.0000	111.1958	111.1958	0.0148	0.0000	111.5648
Maximum	**1.3578**	**5.0999**	**4.0820**	**0.0137**	**0.7366**	**0.1472**	**0.8838**	**0.2322**	**0.1379**	**0.3701**	**0.0000**	**1,267.4994**	**1,267.4994**	**0.1322**	**0.0000**	**1,270.8047**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.4901	5.0999	4.0820	0.0137	0.3881	0.1472	0.5354	0.1232	0.1379	0.2611	0.0000	1,267.4991	1,267.4991	0.1322	0.0000	1,270.8043
2022	1.3578	0.4051	0.4806	1.2300e-003	0.0282	0.0147	0.0429	8.0800e-003	0.0138	0.0219	0.0000	111.1957	111.1957	0.0148	0.0000	111.5647
Maximum	**1.3578**	**5.0999**	**4.0820**	**0.0137**	**0.3881**	**0.1472**	**0.5354**	**0.1232**	**0.1379**	**0.2611**	**0.0000**	**1,267.4991**	**1,267.4991**	**0.1322**	**0.0000**	**1,270.8043**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**46.98**	**0.00**	**38.94**	**46.48**	**0.00**	**28.73**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2021	3-31-2021	2.0859	2.0859
2	4-1-2021	6-30-2021	1.1400	1.1400
3	7-1-2021	9-30-2021	1.1526	1.1526
4	10-1-2021	12-31-2021	1.1604	1.1604
5	1-1-2022	3-31-2022	1.7668	1.7668
		Highest	2.0859	2.0859

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.1648	1.4000e-004	0.0157	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.0306	0.0306	8.0000e-005	0.0000	0.0326
Energy	0.1185	1.0776	0.9052	6.4700e-003		0.0819	0.0819		0.0819	0.0819	0.0000	5,305.5812	5,305.5812	0.1662	0.0512	5,325.0043
Mobile	3.0122	13.9140	44.1792	0.1705	14.6733	0.1285	14.8017	3.9331	0.1195	4.0526	0.0000	15,762.5023	15,762.5023	0.7622	0.0000	15,781.5564
Waste						0.0000	0.0000		0.0000	0.0000	703.1587	0.0000	703.1587	41.5555	0.0000	1,742.0458
Water						0.0000	0.0000		0.0000	0.0000	28.0404	513.1652	541.2056	2.8979	0.0717	635.0174
Total	**5.2955**	**14.9917**	**45.1001**	**0.1770**	**14.6733**	**0.2104**	**14.8837**	**3.9331**	**0.2015**	**4.1345**	**731.1991**	**21,581.2792**	**22,312.4783**	**45.3818**	**0.1229**	**23,483.6566**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.1648	1.4000e-004	0.0157	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.0306	0.0306	8.0000e-005	0.0000	0.0326
Energy	0.1185	1.0776	0.9052	6.4700e-003		0.0819	0.0819		0.0819	0.0819	0.0000	5,305.5812	5,305.5812	0.1662	0.0512	5,325.0043
Mobile	3.0122	13.9140	44.1792	0.1705	14.6733	0.1285	14.8017	3.9331	0.1195	4.0526	0.0000	15,762.5023	15,762.5023	0.7622	0.0000	15,781.5564
Waste						0.0000	0.0000		0.0000	0.0000	703.1587	0.0000	703.1587	41.5555	0.0000	1,742.0458
Water						0.0000	0.0000		0.0000	0.0000	28.0404	513.1652	541.2056	2.8979	0.0717	635.0174
Total	**5.2955**	**14.9917**	**45.1001**	**0.1770**	**14.6733**	**0.2104**	**14.8837**	**3.9331**	**0.2015**	**4.1345**	**731.1991**	**21,581.2792**	**22,312.4783**	**45.3818**	**0.1229**	**23,483.6566**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2021	1/28/2021	5	20	
2	Site Preparation	Site Preparation	1/29/2021	2/11/2021	5	10	
3	Grading	Grading	2/12/2021	3/11/2021	5	20	
4	Building Construction	Building Construction	3/12/2021	1/27/2022	5	230	
5	Paving	Paving	1/28/2022	2/24/2022	5	20	
6	Architectural Coating	Architectural Coating	2/25/2022	3/24/2022	5	20	

Acres of Grading (Site Preparation Phase): 5

Acres of Grading (Grading Phase): 5

Acres of Paving: 1.06

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 835,650; Non-Residential Outdoor: 278,550; Striped Parking Area: 16,176 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	618.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	2,156.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	4,312.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	308.00	135.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	62.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Clean Paved Roads

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0668	0.0000	0.0668	0.0101	0.0000	0.0101	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0317	0.3144	0.2157	3.9000e-004		0.0155	0.0155		0.0144	0.0144	0.0000	34.0008	34.0008	9.5700e-003	0.0000	34.2400
Total	**0.0317**	**0.3144**	**0.2157**	**3.9000e-004**	**0.0668**	**0.0155**	**0.0824**	**0.0101**	**0.0144**	**0.0245**	**0.0000**	**34.0008**	**34.0008**	**9.5700e-003**	**0.0000**	**34.2400**

3.2 Demolition - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.6000e-003	0.0855	0.0199	2.4000e-004	5.3100e-003	2.6000e-004	5.5700e-003	1.4600e-003	2.4000e-004	1.7000e-003	0.0000	23.5550	23.5550	1.6300e-003	0.0000	23.5958
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.5000e-004	5.0000e-004	5.6700e-003	2.0000e-005	1.6400e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4834	1.4834	4.0000e-005	0.0000	1.4845
Total	**3.2500e-003**	**0.0860**	**0.0256**	**2.6000e-004**	**6.9500e-003**	**2.7000e-004**	**7.2300e-003**	**1.9000e-003**	**2.5000e-004**	**2.1500e-003**	**0.0000**	**25.0383**	**25.0383**	**1.6700e-003**	**0.0000**	**25.0803**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0261	0.0000	0.0261	3.9500e-003	0.0000	3.9500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0317	0.3144	0.2157	3.9000e-004		0.0155	0.0155		0.0144	0.0144	0.0000	34.0007	34.0007	9.5700e-003	0.0000	34.2400
Total	**0.0317**	**0.3144**	**0.2157**	**3.9000e-004**	**0.0261**	**0.0155**	**0.0416**	**3.9500e-003**	**0.0144**	**0.0184**	**0.0000**	**34.0007**	**34.0007**	**9.5700e-003**	**0.0000**	**34.2400**

3.2 Demolition - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.6000e-003	0.0855	0.0199	2.4000e-004	3.3100e-003	2.6000e-004	3.5700e-003	9.7000e-004	2.4000e-004	1.2100e-003	0.0000	23.5550	23.5550	1.6300e-003	0.0000	23.5958
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.5000e-004	5.0000e-004	5.6700e-003	2.0000e-005	9.3000e-004	1.0000e-005	9.4000e-004	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	1.4834	1.4834	4.0000e-005	0.0000	1.4845
Total	**3.2500e-003**	**0.0860**	**0.0256**	**2.6000e-004**	**4.2400e-003**	**2.7000e-004**	**4.5100e-003**	**1.2300e-003**	**2.5000e-004**	**1.4800e-003**	**0.0000**	**25.0383**	**25.0383**	**1.6700e-003**	**0.0000**	**25.0803**

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0940	0.0000	0.0940	0.0501	0.0000	0.0501	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0194	0.2025	0.1058	1.9000e-004		0.0102	0.0102		9.4000e-003	9.4000e-003	0.0000	16.7179	16.7179	5.4100e-003	0.0000	16.8530
Total	**0.0194**	**0.2025**	**0.1058**	**1.9000e-004**	**0.0940**	**0.0102**	**0.1042**	**0.0501**	**9.4000e-003**	**0.0595**	**0.0000**	**16.7179**	**16.7179**	**5.4100e-003**	**0.0000**	**16.8530**

3.3 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	9.0800e-003	0.2984	0.0696	8.3000e-004	0.0185	8.9000e-004	0.0194	5.0900e-003	8.5000e-004	5.9400e-003	0.0000	82.1755	82.1755	5.7000e-003	0.0000	82.3181
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.9000e-004	3.0000e-004	3.4000e-003	1.0000e-005	9.9000e-004	1.0000e-005	9.9000e-004	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.8900	0.8900	3.0000e-005	0.0000	0.8907
Total	**9.4700e-003**	**0.2987**	**0.0730**	**8.4000e-004**	**0.0195**	**9.0000e-004**	**0.0204**	**5.3500e-003**	**8.6000e-004**	**6.2100e-003**	**0.0000**	**83.0656**	**83.0656**	**5.7300e-003**	**0.0000**	**83.2088**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0366	0.0000	0.0366	0.0195	0.0000	0.0195	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0194	0.2025	0.1058	1.9000e-004		0.0102	0.0102		9.4000e-003	9.4000e-003	0.0000	16.7178	16.7178	5.4100e-003	0.0000	16.8530
Total	**0.0194**	**0.2025**	**0.1058**	**1.9000e-004**	**0.0366**	**0.0102**	**0.0469**	**0.0195**	**9.4000e-003**	**0.0289**	**0.0000**	**16.7178**	**16.7178**	**5.4100e-003**	**0.0000**	**16.8530**

3.3 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	9.0800e-003	0.2984	0.0696	8.3000e-004	0.0116	8.9000e-004	0.0125	3.3800e-003	8.5000e-004	4.2300e-003	0.0000	82.1755	82.1755	5.7000e-003	0.0000	82.3181
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.9000e-004	3.0000e-004	3.4000e-003	1.0000e-005	5.6000e-004	1.0000e-005	5.7000e-004	1.6000e-004	1.0000e-005	1.6000e-004	0.0000	0.8900	0.8900	3.0000e-005	0.0000	0.8907
Total	**9.4700e-003**	**0.2987**	**0.0730**	**8.4000e-004**	**0.0121**	**9.0000e-004**	**0.0130**	**3.5400e-003**	**8.6000e-004**	**4.3900e-003**	**0.0000**	**83.0656**	**83.0656**	**5.7300e-003**	**0.0000**	**83.2088**

3.4 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0648	0.0000	0.0648	0.0337	0.0000	0.0337	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0229	0.2474	0.1586	3.0000e-004		0.0116	0.0116		0.0107	0.0107	0.0000	26.0537	26.0537	8.4300e-003	0.0000	26.2644
Total	**0.0229**	**0.2474**	**0.1586**	**3.0000e-004**	**0.0648**	**0.0116**	**0.0764**	**0.0337**	**0.0107**	**0.0444**	**0.0000**	**26.0537**	**26.0537**	**8.4300e-003**	**0.0000**	**26.2644**

3.4 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0182	0.5968	0.1392	1.6700e-003	0.0371	1.7900e-003	0.0388	0.0102	1.7100e-003	0.0119	0.0000	164.3511	164.3511	0.0114	0.0000	164.6363
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.5000e-004	5.0000e-004	5.6700e-003	2.0000e-005	1.6400e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4834	1.4834	4.0000e-005	0.0000	1.4845
Total	**0.0188**	**0.5973**	**0.1448**	**1.6900e-003**	**0.0387**	**1.8000e-003**	**0.0405**	**0.0106**	**1.7200e-003**	**0.0123**	**0.0000**	**165.8344**	**165.8344**	**0.0115**	**0.0000**	**166.1207**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0253	0.0000	0.0253	0.0131	0.0000	0.0131	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0229	0.2474	0.1586	3.0000e-004		0.0116	0.0116		0.0107	0.0107	0.0000	26.0537	26.0537	8.4300e-003	0.0000	26.2643
Total	**0.0229**	**0.2474**	**0.1586**	**3.0000e-004**	**0.0253**	**0.0116**	**0.0369**	**0.0131**	**0.0107**	**0.0238**	**0.0000**	**26.0537**	**26.0537**	**8.4300e-003**	**0.0000**	**26.2643**

3.4 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0182	0.5968	0.1392	1.6700e-003	0.0231	1.7900e-003	0.0249	6.7600e-003	1.7100e-003	8.4700e-003	0.0000	164.3511	164.3511	0.0114	0.0000	164.6363
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.5000e-004	5.0000e-004	5.6700e-003	2.0000e-005	9.3000e-004	1.0000e-005	9.4000e-004	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	1.4834	1.4834	4.0000e-005	0.0000	1.4845
Total	**0.0188**	**0.5973**	**0.1448**	**1.6900e-003**	**0.0241**	**1.8000e-003**	**0.0259**	**7.0200e-003**	**1.7200e-003**	**8.7400e-003**	**0.0000**	**165.8344**	**165.8344**	**0.0115**	**0.0000**	**166.1207**

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2006	1.8391	1.7487	2.8400e-003		0.1011	0.1011		0.0951	0.0951	0.0000	244.3773	244.3773	0.0590	0.0000	245.8513
Total	**0.2006**	**1.8391**	**1.7487**	**2.8400e-003**		**0.1011**	**0.1011**		**0.0951**	**0.0951**	**0.0000**	**244.3773**	**244.3773**	**0.0590**	**0.0000**	**245.8513**

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0442	1.4056	0.3811	3.6200e-003	0.0897	2.8700e-003	0.0926	0.0259	2.7400e-003	0.0286	0.0000	351.0728	351.0728	0.0215	0.0000	351.6111
Worker	0.1398	0.1089	1.2288	3.5600e-003	0.3561	2.9300e-003	0.3590	0.0946	2.7000e-003	0.0973	0.0000	321.3387	321.3387	9.4600e-003	0.0000	321.5751
Total	**0.1840**	**1.5144**	**1.6099**	**7.1800e-003**	**0.4458**	**5.8000e-003**	**0.4516**	**0.1205**	**5.4400e-003**	**0.1259**	**0.0000**	**672.4115**	**672.4115**	**0.0310**	**0.0000**	**673.1862**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2006	1.8391	1.7487	2.8400e-003		0.1011	0.1011		0.0951	0.0951	0.0000	244.3770	244.3770	0.0590	0.0000	245.8510
Total	**0.2006**	**1.8391**	**1.7487**	**2.8400e-003**		**0.1011**	**0.1011**		**0.0951**	**0.0951**	**0.0000**	**244.3770**	**244.3770**	**0.0590**	**0.0000**	**245.8510**

3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0442	1.4056	0.3811	3.6200e-003	0.0580	2.8700e-003	0.0608	0.0181	2.7400e-003	0.0208	0.0000	351.0728	351.0728	0.0215	0.0000	351.6111
Worker	0.1398	0.1089	1.2288	3.5600e-003	0.2018	2.9300e-003	0.2047	0.0567	2.7000e-003	0.0594	0.0000	321.3387	321.3387	9.4600e-003	0.0000	321.5751
Total	**0.1840**	**1.5144**	**1.6099**	**7.1800e-003**	**0.2597**	**5.8000e-003**	**0.2655**	**0.0748**	**5.4400e-003**	**0.0802**	**0.0000**	**672.4115**	**672.4115**	**0.0310**	**0.0000**	**673.1862**

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0162	0.1484	0.1555	2.6000e-004		7.6900e-003	7.6900e-003		7.2300e-003	7.2300e-003	0.0000	22.0139	22.0139	5.2700e-003	0.0000	22.1458
Total	**0.0162**	**0.1484**	**0.1555**	**2.6000e-004**		**7.6900e-003**	**7.6900e-003**		**7.2300e-003**	**7.2300e-003**	**0.0000**	**22.0139**	**22.0139**	**5.2700e-003**	**0.0000**	**22.1458**

3.5 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.7400e-003	0.1203	0.0325	3.2000e-004	8.0800e-003	2.3000e-004	8.3000e-003	2.3300e-003	2.2000e-004	2.5500e-003	0.0000	31.3355	31.3355	1.8700e-003	0.0000	31.3823
Worker	0.0118	8.8500e-003	0.1020	3.1000e-004	0.0321	2.6000e-004	0.0323	8.5200e-003	2.4000e-004	8.7500e-003	0.0000	27.9186	27.9186	7.7000e-004	0.0000	27.9378
Total	**0.0156**	**0.1291**	**0.1344**	**6.3000e-004**	**0.0401**	**4.9000e-004**	**0.0406**	**0.0109**	**4.6000e-004**	**0.0113**	**0.0000**	**59.2541**	**59.2541**	**2.6400e-003**	**0.0000**	**59.3201**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0162	0.1484	0.1555	2.6000e-004		7.6900e-003	7.6900e-003		7.2300e-003	7.2300e-003	0.0000	22.0139	22.0139	5.2700e-003	0.0000	22.1457
Total	**0.0162**	**0.1484**	**0.1555**	**2.6000e-004**		**7.6900e-003**	**7.6900e-003**		**7.2300e-003**	**7.2300e-003**	**0.0000**	**22.0139**	**22.0139**	**5.2700e-003**	**0.0000**	**22.1457**

3.5 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.7400e-003	0.1203	0.0325	3.2000e-004	5.2200e-003	2.3000e-004	5.4500e-003	1.6300e-003	2.2000e-004	1.8500e-003	0.0000	31.3355	31.3355	1.8700e-003	0.0000	31.3823
Worker	0.0118	8.8500e-003	0.1020	3.1000e-004	0.0182	2.6000e-004	0.0184	5.1100e-003	2.4000e-004	5.3400e-003	0.0000	27.9186	27.9186	7.7000e-004	0.0000	27.9378
Total	**0.0156**	**0.1291**	**0.1344**	**6.3000e-004**	**0.0234**	**4.9000e-004**	**0.0239**	**6.7400e-003**	**4.6000e-004**	**7.1900e-003**	**0.0000**	**59.2541**	**59.2541**	**2.6400e-003**	**0.0000**	**59.3201**

3.6 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0110	0.1113	0.1458	2.3000e-004		5.6800e-003	5.6800e-003		5.2200e-003	5.2200e-003	0.0000	20.0276	20.0276	6.4800e-003	0.0000	20.1895
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0110**	**0.1113**	**0.1458**	**2.3000e-004**		**5.6800e-003**	**5.6800e-003**		**5.2200e-003**	**5.2200e-003**	**0.0000**	**20.0276**	**20.0276**	**6.4800e-003**	**0.0000**	**20.1895**

3.6 Paving - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.1000e-004	4.5000e-004	5.2300e-003	2.0000e-005	1.6400e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4312	1.4312	4.0000e-005	0.0000	1.4322
Total	**6.1000e-004**	**4.5000e-004**	**5.2300e-003**	**2.0000e-005**	**1.6400e-003**	**1.0000e-005**	**1.6600e-003**	**4.4000e-004**	**1.0000e-005**	**4.5000e-004**	**0.0000**	**1.4312**	**1.4312**	**4.0000e-005**	**0.0000**	**1.4322**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0110	0.1113	0.1458	2.3000e-004		5.6800e-003	5.6800e-003		5.2200e-003	5.2200e-003	0.0000	20.0275	20.0275	6.4800e-003	0.0000	20.1895
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0110**	**0.1113**	**0.1458**	**2.3000e-004**		**5.6800e-003**	**5.6800e-003**		**5.2200e-003**	**5.2200e-003**	**0.0000**	**20.0275**	**20.0275**	**6.4800e-003**	**0.0000**	**20.1895**

3.6 Paving - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.1000e-004	4.5000e-004	5.2300e-003	2.0000e-005	9.3000e-004	1.0000e-005	9.4000e-004	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	1.4312	1.4312	4.0000e-005	0.0000	1.4322
Total	**6.1000e-004**	**4.5000e-004**	**5.2300e-003**	**2.0000e-005**	**9.3000e-004**	**1.0000e-005**	**9.4000e-004**	**2.6000e-004**	**1.0000e-005**	**2.7000e-004**	**0.0000**	**1.4312**	**1.4312**	**4.0000e-005**	**0.0000**	**1.4322**

3.7 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.3098					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0500e-003	0.0141	0.0181	3.0000e-005		8.2000e-004	8.2000e-004		8.2000e-004	8.2000e-004	0.0000	2.5533	2.5533	1.7000e-004	0.0000	2.5574
Total	**1.3119**	**0.0141**	**0.0181**	**3.0000e-005**		**8.2000e-004**	**8.2000e-004**		**8.2000e-004**	**8.2000e-004**	**0.0000**	**2.5533**	**2.5533**	**1.7000e-004**	**0.0000**	**2.5574**

3.7 Architectural Coating - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.5000e-003	1.8800e-003	0.0216	7.0000e-005	6.7900e-003	5.0000e-005	6.8500e-003	1.8000e-003	5.0000e-005	1.8500e-003	0.0000	5.9158	5.9158	1.6000e-004	0.0000	5.9198
Total	**2.5000e-003**	**1.8800e-003**	**0.0216**	**7.0000e-005**	**6.7900e-003**	**5.0000e-005**	**6.8500e-003**	**1.8000e-003**	**5.0000e-005**	**1.8500e-003**	**0.0000**	**5.9158**	**5.9158**	**1.6000e-004**	**0.0000**	**5.9198**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.3098					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0500e-003	0.0141	0.0181	3.0000e-005		8.2000e-004	8.2000e-004		8.2000e-004	8.2000e-004	0.0000	2.5533	2.5533	1.7000e-004	0.0000	2.5574
Total	**1.3119**	**0.0141**	**0.0181**	**3.0000e-005**		**8.2000e-004**	**8.2000e-004**		**8.2000e-004**	**8.2000e-004**	**0.0000**	**2.5533**	**2.5533**	**1.7000e-004**	**0.0000**	**2.5574**

3.7 Architectural Coating - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.5000e-003	1.8800e-003	0.0216	7.0000e-005	3.8500e-003	5.0000e-005	3.9000e-003	1.0800e-003	5.0000e-005	1.1300e-003	0.0000	5.9158	5.9158	1.6000e-004	0.0000	5.9198
Total	**2.5000e-003**	**1.8800e-003**	**0.0216**	**7.0000e-005**	**3.8500e-003**	**5.0000e-005**	**3.9000e-003**	**1.0800e-003**	**5.0000e-005**	**1.1300e-003**	**0.0000**	**5.9158**	**5.9158**	**1.6000e-004**	**0.0000**	**5.9198**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	3.0122	13.9140	44.1792	0.1705	14.6733	0.1285	14.8017	3.9331	0.1195	4.0526	0.0000	15,762.5023	15,762.5023	0.7622	0.0000	15,781.5564
Unmitigated	3.0122	13.9140	44.1792	0.1705	14.6733	0.1285	14.8017	3.9331	0.1195	4.0526	0.0000	15,762.5023	15,762.5023	0.7622	0.0000	15,781.5564

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Light Industry	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Hospital	9,972.24	9,972.24	9972.24	38,660,796	38,660,796
Library	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	9,972.24	9,972.24	9,972.24	38,660,796	38,660,796

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Hospital	16.60	8.40	6.90	64.90	16.10	19.00	73	25	2
Library	16.60	8.40	6.90	52.00	43.00	5.00	44	44	12
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking with Elevator	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
General Light Industry	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
General Office Building	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
Hospital	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
Library	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
Unrefrigerated Warehouse-No Rail	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Olive View-UCLA Medical Center - Tier 1B - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	4,132.4703	4,132.4703	0.1437	0.0297	4,144.9223
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	4,132.4703	4,132.4703	0.1437	0.0297	4,144.9223
NaturalGas Mitigated	0.1185	1.0776	0.9052	6.4700e-003		0.0819	0.0819		0.0819	0.0819	0.0000	1,173.1108	1,173.1108	0.0225	0.0215	1,180.0821
NaturalGas Unmitigated	0.1185	1.0776	0.9052	6.4700e-003		0.0819	0.0819		0.0819	0.0819	0.0000	1,173.1108	1,173.1108	0.0225	0.0215	1,180.0821

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Light Industry	1.3937e+006	7.5200e-003	0.0683	0.0574	4.1000e-004		5.1900e-003	5.1900e-003		5.1900e-003	5.1900e-003	0.0000	74.3731	74.3731	1.4300e-003	1.3600e-003	74.8151
General Office Building	999360	5.3900e-003	0.0490	0.0412	2.9000e-004		3.7200e-003	3.7200e-003		3.7200e-003	3.7200e-003	0.0000	53.3297	53.3297	1.0200e-003	9.8000e-004	53.6466
Hospital	1.9169e+007	0.1034	0.9397	0.7893	5.6400e-003		0.0714	0.0714		0.0714	0.0714	0.0000	1,022.9287	1,022.9287	0.0196	0.0188	1,029.0075
Library	362000	1.9500e-003	0.0178	0.0149	1.1000e-004		1.3500e-003	1.3500e-003		1.3500e-003	1.3500e-003	0.0000	19.3177	19.3177	3.7000e-004	3.5000e-004	19.4325
Unrefrigerated Warehouse-No Rail	59247	3.2000e-004	2.9000e-003	2.4400e-003	2.0000e-005		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	3.1617	3.1617	6.0000e-005	6.0000e-005	3.1804
Total		**0.1185**	**1.0776**	**0.9052**	**6.4700e-003**		**0.0819**	**0.0819**		**0.0819**	**0.0819**	**0.0000**	**1,173.1109**	**1,173.1109**	**0.0225**	**0.0215**	**1,180.0821**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Light Industry	1.3937e+006	7.5200e-003	0.0683	0.0574	4.1000e-004		5.1900e-003	5.1900e-003		5.1900e-003	5.1900e-003	0.0000	74.3731	74.3731	1.4300e-003	1.3600e-003	74.8151
General Office Building	999360	5.3900e-003	0.0490	0.0412	2.9000e-004		3.7200e-003	3.7200e-003		3.7200e-003	3.7200e-003	0.0000	53.3297	53.3297	1.0200e-003	9.8000e-004	53.6466
Hospital	1.9169e+007	0.1034	0.9397	0.7893	5.6400e-003		0.0714	0.0714		0.0714	0.0714	0.0000	1,022.9287	1,022.9287	0.0196	0.0188	1,029.0075
Library	362000	1.9500e-003	0.0178	0.0149	1.1000e-004		1.3500e-003	1.3500e-003		1.3500e-003	1.3500e-003	0.0000	19.3177	19.3177	3.7000e-004	3.5000e-004	19.4325
Unrefrigerated Warehouse-No Rail	59247	3.2000e-004	2.9000e-003	2.4400e-003	2.0000e-005		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	3.1617	3.1617	6.0000e-005	6.0000e-005	3.1804
Total		**0.1185**	**1.0776**	**0.9052**	**6.4700e-003**		**0.0819**	**0.0819**		**0.0819**	**0.0819**	**0.0000**	**1,173.1109**	**1,173.1109**	**0.0225**	**0.0215**	**1,180.0821**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Enclosed Parking with Elevator	1.57986e+006	597.6533	0.0208	4.3000e-003	599.4541
General Light Industry	854700	323.3296	0.0112	2.3300e-003	324.3039
General Office Building	1.24704e+006	471.7503	0.0164	3.3900e-003	473.1718
Hospital	6.75472e+006	2,555.2838	0.0889	0.0184	2,562.9834
Library	222000	83.9817	2.9200e-003	6.0000e-004	84.2348
Unrefrigerated Warehouse-No Rail	265590	100.4716	3.4900e-003	7.2000e-004	100.7744
Total		**4,132.4703**	**0.1437**	**0.0297**	**4,144.9223**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Enclosed Parking with Elevator	1.57986e+006	597.6533	0.0208	4.3000e-003	599.4541
General Light Industry	854700	323.3296	0.0112	2.3300e-003	324.3039
General Office Building	1.24704e+006	471.7503	0.0164	3.3900e-003	473.1718
Hospital	6.75472e+006	2,555.2838	0.0889	0.0184	2,562.9834
Library	222000	83.9817	2.9200e-003	6.0000e-004	84.2348
Unrefrigerated Warehouse-No Rail	265590	100.4716	3.4900e-003	7.2000e-004	100.7744
Total		**4,132.4703**	**0.1437**	**0.0297**	**4,144.9223**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.1648	1.4000e-004	0.0157	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.0306	0.0306	8.0000e-005	0.0000	0.0326
Unmitigated	2.1648	1.4000e-004	0.0157	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.0306	0.0306	8.0000e-005	0.0000	0.0326

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1329					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.0305					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.4600e-003	1.4000e-004	0.0157	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.0306	0.0306	8.0000e-005	0.0000	0.0326
Total	**2.1648**	**1.4000e-004**	**0.0157**	**0.0000**		**6.0000e-005**	**6.0000e-005**		**6.0000e-005**	**6.0000e-005**	**0.0000**	**0.0306**	**0.0306**	**8.0000e-005**	**0.0000**	**0.0326**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1329					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.0305					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.4600e-003	1.4000e-004	0.0157	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.0306	0.0306	8.0000e-005	0.0000	0.0326
Total	**2.1648**	**1.4000e-004**	**0.0157**	**0.0000**		**6.0000e-005**	**6.0000e-005**		**6.0000e-005**	**6.0000e-005**	**0.0000**	**0.0306**	**0.0306**	**8.0000e-005**	**0.0000**	**0.0326**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	541.2056	2.8979	0.0717	635.0174
Unmitigated	541.2056	2.8979	0.0717	635.0174

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
General Light Industry	17.8062 / 0	93.3590	0.5833	0.0143	112.2114
General Office Building	17.0624 / 10.4576	133.4112	0.5604	0.0141	151.6085
Hospital	37.1422 / 7.07471	224.4726	1.2177	0.0301	263.8865
Library	0.625778 / 0.978781	7.3947	0.0206	5.3000e-004	8.0696
Unrefrigerated Warehouse-No Rail	15.7481 / 0	82.5682	0.5159	0.0127	99.2415
Total		**541.2056**	**2.8979**	**0.0717**	**635.0174**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
General Light Industry	17.8062 / 0	93.3590	0.5833	0.0143	112.2114
General Office Building	17.0624 / 10.4576	133.4112	0.5604	0.0141	151.6085
Hospital	37.1422 / 7.07471	224.4726	1.2177	0.0301	263.8865
Library	0.625778 / 0.978781	7.3947	0.0206	5.3000e-004	8.0696
Unrefrigerated Warehouse-No Rail	15.7481 / 0	82.5682	0.5159	0.0127	99.2415
Total		**541.2056**	**2.8979**	**0.0717**	**635.0174**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	703.1587	41.5555	0.0000	1,742.0458
Unmitigated	703.1587	41.5555	0.0000	1,742.0458

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Light Industry	95.48	19.3816	1.1454	0.0000	48.0170
General Office Building	89.28	18.1230	1.0710	0.0000	44.8991
Hospital	3196.8	648.9215	38.3502	0.0000	1,607.6756
Library	18.42	3.7391	0.2210	0.0000	9.2635
Unrefrigerated Warehouse-No Rail	64.01	12.9935	0.7679	0.0000	32.1907
Total		**703.1587**	**41.5555**	**0.0000**	**1,742.0458**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Light Industry	95.48	19.3816	1.1454	0.0000	48.0170
General Office Building	89.28	18.1230	1.0710	0.0000	44.8991
Hospital	3196.8	648.9215	38.3502	0.0000	1,607.6756
Library	18.42	3.7391	0.2210	0.0000	9.2635
Unrefrigerated Warehouse-No Rail	64.01	12.9935	0.7679	0.0000	32.1907
Total		**703.1587**	**41.5555**	**0.0000**	**1,742.0458**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Olive View-UCLA Medical Center - Tier 1B

Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	96.00	1000sqft	0.67	96,000.00	0
Hospital	296.00	1000sqft	1.40	296,000.00	0
General Light Industry	77.00	1000sqft	0.78	77,000.00	0
Unrefrigerated Warehouse-No Rail	68.10	1000sqft	0.56	68,100.00	0
Enclosed Parking with Elevator	674.00	Space	1.06	269,600.00	0
Library	20.00	1000sqft	0.55	20,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2023
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	834	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - LADWP CO2 intensity revised based on 2016 CO2 intensity identified in 2017 Power Strategic Long-Term Resource Plan (p. C-15).

Land Use - Building square footages from project description.

Construction Phase - Default construction schedule based on building square footages. All buildings assumed to be under construction concurrently.

Off-road Equipment - Default construction equipment

Off-road Equipment - Default construction equipment

Off-road Equipment - Default construction equipment

Off-road Equipment - Default construction equipment

Off-road Equipment - Default construction equipment

Off-road Equipment - Default construction equipment

Grading - Off-site export and import estimates provided by SmithGroupJJR. Import/export quantities assumed to be distributed evenly over site prep and grading phases.

Demolition - Demolition square footage provided by SmithGroupJJR

Trips and VMT - Default number of trips and distances assumed.

On-road Fugitive Dust - Defaults assumed.

Architectural Coating - VOC content of architectural coatings changed to 25 g/L to exceed SCAQMD Rule 1113 requirements.

Vehicle Trips - Daily operational trips based on March 2019 TIA prepared by Fehr & Peers, which would total 9,973 trips per day. All trips included in the Hospital land use, including internal capture, transit/walk/bike credit, and carpool accounted for.

Vehicle Emission Factors - Defaults assumed.

Vehicle Emission Factors - Defaults assumed.

Vehicle Emission Factors - Defaults assumed.

Area Coating - VOC content of architectural coatings changed to 25 g/L to exceed SCAQMD Rule 1113 requirements

Energy Use - Defaults assumed.

Water And Wastewater - Defaults assumed.

Solid Waste - Defaults assumed.

Construction Off-road Equipment Mitigation - Rule 403 compliance

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	25.00

tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	25.00
tblArchitecturalCoating	EF_Parking	100.00	25.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	25
tblAreaCoating	Area_EF_Nonresidential_Interior	100	25
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	50
tblGrading	AcresOfGrading	10.00	5.00
tblGrading	AcresOfGrading	0.00	5.00
tblGrading	MaterialExported	0.00	22,833.00
tblGrading	MaterialExported	0.00	11,417.00
tblGrading	MaterialImported	0.00	11,667.00
tblGrading	MaterialImported	0.00	5,833.00
tblLandUse	LotAcreage	2.20	0.67
tblLandUse	LotAcreage	6.80	1.40
tblLandUse	LotAcreage	1.77	0.78
tblLandUse	LotAcreage	1.56	0.56
tblLandUse	LotAcreage	6.07	1.06
tblLandUse	LotAcreage	0.46	0.55
tblProjectCharacteristics	CO2IntensityFactor	1227.89	834
tblTripsAndVMT	HaulingTripNumber	4,313.00	4,312.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	ST_TR	10.18	33.69
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	ST_TR	46.55	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	SU_TR	8.91	33.69

tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	SU_TR	25.49	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	13.22	33.69
tblVehicleTrips	WD_TR	1.68	0.00
tblVehicleTrips	WD_TR	56.24	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	5.7630	98.3834	35.4395	0.2083	22.7626	2.2236	24.9862	11.1042	2.0522	13.1565	0.0000	22,140.0170	22,140.0170	2.4365	0.0000	22,200.9301
2022	65.9446	28.8999	31.0508	0.0953	4.3070	0.8594	5.1664	1.1619	0.8084	1.9703	0.0000	9,616.9270	9,616.9270	0.9165	0.0000	9,639.8381
Maximum	**65.9446**	**98.3834**	**35.4395**	**0.2083**	**22.7626**	**2.2236**	**24.9862**	**11.1042**	**2.0522**	**13.1565**	**0.0000**	**22,140.0170**	**22,140.0170**	**2.4365**	**0.0000**	**22,200.9301**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	5.7630	98.3834	35.4395	0.2083	9.7871	2.2236	12.0107	4.6223	2.0522	6.6745	0.0000	22,140.0170	22,140.0170	2.4365	0.0000	22,200.9301
2022	65.9446	28.8999	31.0508	0.0953	2.5026	0.8594	3.3620	0.7190	0.8084	1.5274	0.0000	9,616.9270	9,616.9270	0.9165	0.0000	9,639.8381
Maximum	**65.9446**	**98.3834**	**35.4395**	**0.2083**	**9.7871**	**2.2236**	**12.0107**	**4.6223**	**2.0522**	**6.6745**	**0.0000**	**22,140.0170**	**22,140.0170**	**2.4365**	**0.0000**	**22,200.9301**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**54.60**	**0.00**	**49.02**	**56.46**	**0.00**	**45.78**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	11.5120	1.1400e-003	0.1257	1.0000e-005		4.5000e-004	4.5000e-004		4.5000e-004	4.5000e-004		0.2694	0.2694	7.1000e-004		0.2871
Energy	0.6495	5.9047	4.9600	0.0354		0.4488	0.4488		0.4488	0.4488		7,085.6622	7,085.6622	0.1358	0.1299	7,127.7688
Mobile	17.4418	73.0423	253.6076	0.9711	82.2093	0.7056	82.9150	21.9997	0.6564	22.6560		98,883.0293	98,883.0293	4.6583		98,999.4879
Total	**29.6033**	**78.9482**	**258.6932**	**1.0066**	**82.2093**	**1.1549**	**83.3642**	**21.9997**	**1.1056**	**23.1053**		**105,968.9610**	**105,968.9610**	**4.7949**	**0.1299**	**106,127.5437**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	11.5120	1.1400e-003	0.1257	1.0000e-005		4.5000e-004	4.5000e-004		4.5000e-004	4.5000e-004		0.2694	0.2694	7.1000e-004		0.2871
Energy	0.6495	5.9047	4.9600	0.0354		0.4488	0.4488		0.4488	0.4488		7,085.6622	7,085.6622	0.1358	0.1299	7,127.7688
Mobile	17.4418	73.0423	253.6076	0.9711	82.2093	0.7056	82.9150	21.9997	0.6564	22.6560		98,883.0293	98,883.0293	4.6583		98,999.4879
Total	**29.6033**	**78.9482**	**258.6932**	**1.0066**	**82.2093**	**1.1549**	**83.3642**	**21.9997**	**1.1056**	**23.1053**		**105,968.9610**	**105,968.9610**	**4.7949**	**0.1299**	**106,127.5437**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2021	1/28/2021	5	20	
2	Site Preparation	Site Preparation	1/29/2021	2/11/2021	5	10	
3	Grading	Grading	2/12/2021	3/11/2021	5	20	
4	Building Construction	Building Construction	3/12/2021	1/27/2022	5	230	
5	Paving	Paving	1/28/2022	2/24/2022	5	20	
6	Architectural Coating	Architectural Coating	2/25/2022	3/24/2022	5	20	

Acres of Grading (Site Preparation Phase): 5

Acres of Grading (Grading Phase): 5

Acres of Paving: 1.06

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 835,650; Non-Residential Outdoor: 278,550; Striped Parking Area: 16,176 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Excavators	3	8.00	158	0.38
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Excavators	1	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Paving Equipment	2	8.00	132	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	62.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	308.00	135.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	6	15.00	0.00	618.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	4,312.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	2,156.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Clean Paved Roads

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.6838	0.0000	6.6838	1.0120	0.0000	1.0120			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411		3,747.9449	3,747.9449	1.0549		3,774.3174
Total	**3.1651**	**31.4407**	**21.5650**	**0.0388**	**6.6838**	**1.5513**	**8.2351**	**1.0120**	**1.4411**	**2.4531**		**3,747.9449**	**3,747.9449**	**1.0549**		**3,774.3174**

3.2 Demolition - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2576	8.2887	1.9435	0.0241	0.5403	0.0254	0.5657	0.1481	0.0243	0.1725		2,615.5190	2,615.5190	0.1775		2,619.9564
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0643	0.0442	0.6042	1.7100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		170.8155	170.8155	5.0300e-003		170.9413
Total	**0.3219**	**8.3329**	**2.5476**	**0.0258**	**0.7080**	**0.0268**	**0.7348**	**0.1926**	**0.0256**	**0.2182**		**2,786.3345**	**2,786.3345**	**0.1825**		**2,790.8977**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.6067	0.0000	2.6067	0.3947	0.0000	0.3947			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174
Total	**3.1651**	**31.4407**	**21.5650**	**0.0388**	**2.6067**	**1.5513**	**4.1580**	**0.3947**	**1.4411**	**1.8358**	**0.0000**	**3,747.9449**	**3,747.9449**	**1.0549**		**3,774.3174**

3.2 Demolition - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2576	8.2887	1.9435	0.0241	0.3360	0.0254	0.3615	0.0980	0.0243	0.1223		2,615.5190	2,615.5190	0.1775		2,619.9564
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0643	0.0442	0.6042	1.7100e-003	0.0948	1.3500e-003	0.0961	0.0266	1.2500e-003	0.0278		170.8155	170.8155	5.0300e-003		170.9413
Total	**0.3219**	**8.3329**	**2.5476**	**0.0258**	**0.4308**	**0.0268**	**0.4576**	**0.1246**	**0.0256**	**0.1501**		**2,786.3345**	**2,786.3345**	**0.1825**		**2,790.8977**

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.7916	0.0000	18.7916	10.0175	0.0000	10.0175			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809		3,685.6569	3,685.6569	1.1920		3,715.4573
Total	**3.8882**	**40.4971**	**21.1543**	**0.0380**	**18.7916**	**2.0445**	**20.8361**	**10.0175**	**1.8809**	**11.8984**		**3,685.6569**	**3,685.6569**	**1.1920**		**3,715.4573**

3.3 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.7977	57.8333	13.5603	0.1682	3.7699	0.1775	3.9474	1.0334	0.1698	1.2032		18,249.3816	18,249.3816	1.2385		18,280.3433
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0772	0.0530	0.7250	2.0600e-003	0.2012	1.6300e-003	0.2028	0.0534	1.5000e-003	0.0549		204.9786	204.9786	6.0400e-003		205.1296
Total	**1.8748**	**57.8863**	**14.2852**	**0.1703**	**3.9711**	**0.1791**	**4.1502**	**1.0867**	**0.1713**	**1.2581**		**18,454.3602**	**18,454.3602**	**1.2445**		**18,485.4729**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.3287	0.0000	7.3287	3.9068	0.0000	3.9068			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573
Total	**3.8882**	**40.4971**	**21.1543**	**0.0380**	**7.3287**	**2.0445**	**9.3732**	**3.9068**	**1.8809**	**5.7877**	**0.0000**	**3,685.6569**	**3,685.6569**	**1.1920**		**3,715.4573**

Olive View-UCLA Medical Center - Tier 1B - Los Angeles-South Coast County, Annual

Olive View-UCLA Medical Center - Tier 1B

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	96.00	1000sqft	0.67	96,000.00	0
Hospital	296.00	1000sqft	1.40	296,000.00	0
General Light Industry	77.00	1000sqft	0.78	77,000.00	0
Unrefrigerated Warehouse-No Rail	68.10	1000sqft	0.56	68,100.00	0
Enclosed Parking with Elevator	674.00	Space	1.06	269,600.00	0
Library	20.00	1000sqft	0.55	20,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2023
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	834	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - LADWP CO2 intensity revised based on 2016 CO2 intensity identified in 2017 Power Strategic Long-Term Resource Plan (p. C-15).

Land Use - Building square footages from project description.

Construction Phase - Default construction schedule based on building square footages. All buildings assumed to be under construction concurrently.

Off-road Equipment - Default construction equipment

Off-road Equipment - Default construction equipment

Off-road Equipment - Default construction equipment

Off-road Equipment - Default construction equipment

Off-road Equipment - Default construction equipment

Off-road Equipment - Default construction equipment

Grading - Off-site export and import estimates provided by SmithGroupJJR. Import/export quantities assumed to be distributed evenly over site prep and grading phases.

Demolition - Demolition square footage provided by SmithGroupJJR

Trips and VMT - Default number of trips and distances assumed.

On-road Fugitive Dust - Defaults assumed.

Architectural Coating - VOC content of architectural coatings changed to 25 g/L to exceed SCAQMD Rule 1113 requirements.

Vehicle Trips - Daily operational trips based on March 2019 TIA prepared by Fehr & Peers, which would total 9,973 trips per day. All trips included in the Hospital land use, including internal capture, transit/walk/bike credit, and carpool accounted for.

Vehicle Emission Factors - Defaults assumed.

Vehicle Emission Factors - Defaults assumed.

Vehicle Emission Factors - Defaults assumed.

Area Coating - VOC content of architectural coatings changed to 25 g/L to exceed SCAQMD Rule 1113 requirements

Energy Use - Defaults assumed.

Water And Wastewater - Defaults assumed.

Solid Waste - Defaults assumed.

Construction Off-road Equipment Mitigation - Rule 403 compliance

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	25.00

tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	25.00
tblArchitecturalCoating	EF_Parking	100.00	25.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	25
tblAreaCoating	Area_EF_Nonresidential_Interior	100	25
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	50
tblGrading	AcresOfGrading	10.00	5.00
tblGrading	AcresOfGrading	0.00	5.00
tblGrading	MaterialExported	0.00	22,833.00
tblGrading	MaterialExported	0.00	11,417.00
tblGrading	MaterialImported	0.00	11,667.00
tblGrading	MaterialImported	0.00	5,833.00
tblLandUse	LotAcreage	2.20	0.67
tblLandUse	LotAcreage	6.80	1.40
tblLandUse	LotAcreage	1.77	0.78
tblLandUse	LotAcreage	1.56	0.56
tblLandUse	LotAcreage	6.07	1.06
tblLandUse	LotAcreage	0.46	0.55
tblProjectCharacteristics	CO2IntensityFactor	1227.89	834
tblTripsAndVMT	HaulingTripNumber	4,313.00	4,312.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	ST_TR	10.18	33.69
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	ST_TR	46.55	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	SU_TR	8.91	33.69

tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	SU_TR	25.49	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	13.22	33.69
tblVehicleTrips	WD_TR	1.68	0.00
tblVehicleTrips	WD_TR	56.24	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.4901	5.0999	4.0820	0.0137	0.7366	0.1472	0.8838	0.2322	0.1379	0.3701	0.0000	1,267.4994	1,267.4994	0.1322	0.0000	1,270.8047
2022	0.7029	0.4051	0.4806	1.2300e-003	0.0486	0.0147	0.0633	0.0131	0.0138	0.0269	0.0000	111.1958	111.1958	0.0148	0.0000	111.5648
Maximum	**0.7029**	**5.0999**	**4.0820**	**0.0137**	**0.7366**	**0.1472**	**0.8838**	**0.2322**	**0.1379**	**0.3701**	**0.0000**	**1,267.4994**	**1,267.4994**	**0.1322**	**0.0000**	**1,270.8047**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.4901	5.0999	4.0820	0.0137	0.3881	0.1472	0.5354	0.1232	0.1379	0.2611	0.0000	1,267.4991	1,267.4991	0.1322	0.0000	1,270.8043
2022	0.7029	0.4051	0.4806	1.2300e-003	0.0282	0.0147	0.0429	8.0800e-003	0.0138	0.0219	0.0000	111.1957	111.1957	0.0148	0.0000	111.5647
Maximum	**0.7029**	**5.0999**	**4.0820**	**0.0137**	**0.3881**	**0.1472**	**0.5354**	**0.1232**	**0.1379**	**0.2611**	**0.0000**	**1,267.4991**	**1,267.4991**	**0.1322**	**0.0000**	**1,270.8043**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**46.98**	**0.00**	**38.94**	**46.48**	**0.00**	**28.73**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2021	3-31-2021	2.0859	2.0859
2	4-1-2021	6-30-2021	1.1400	1.1400
3	7-1-2021	9-30-2021	1.1526	1.1526
4	10-1-2021	12-31-2021	1.1604	1.1604
5	1-1-2022	3-31-2022	1.1119	1.1119
		Highest	2.0859	2.0859

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.1003	1.4000e-004	0.0157	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.0306	0.0306	8.0000e-005	0.0000	0.0326
Energy	0.1185	1.0776	0.9052	6.4700e-003		0.0819	0.0819		0.0819	0.0819	0.0000	5,305.5812	5,305.5812	0.1662	0.0512	5,325.0043
Mobile	3.0122	13.9140	44.1792	0.1705	14.6733	0.1285	14.8017	3.9331	0.1195	4.0526	0.0000	15,762.5023	15,762.5023	0.7622	0.0000	15,781.5564
Waste						0.0000	0.0000		0.0000	0.0000	703.1587	0.0000	703.1587	41.5555	0.0000	1,742.0458
Water						0.0000	0.0000		0.0000	0.0000	28.0404	513.1652	541.2056	2.8979	0.0717	635.0174
Total	**5.2310**	**14.9917**	**45.1001**	**0.1770**	**14.6733**	**0.2104**	**14.8837**	**3.9331**	**0.2015**	**4.1345**	**731.1991**	**21,581.2792**	**22,312.4783**	**45.3818**	**0.1229**	**23,483.6566**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.1003	1.4000e-004	0.0157	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.0306	0.0306	8.0000e-005	0.0000	0.0326
Energy	0.1185	1.0776	0.9052	6.4700e-003		0.0819	0.0819		0.0819	0.0819	0.0000	5,305.5812	5,305.5812	0.1662	0.0512	5,325.0043
Mobile	3.0122	13.9140	44.1792	0.1705	14.6733	0.1285	14.8017	3.9331	0.1195	4.0526	0.0000	15,762.5023	15,762.5023	0.7622	0.0000	15,781.5564
Waste						0.0000	0.0000		0.0000	0.0000	703.1587	0.0000	703.1587	41.5555	0.0000	1,742.0458
Water						0.0000	0.0000		0.0000	0.0000	28.0404	513.1652	541.2056	2.8979	0.0717	635.0174
Total	**5.2310**	**14.9917**	**45.1001**	**0.1770**	**14.6733**	**0.2104**	**14.8837**	**3.9331**	**0.2015**	**4.1345**	**731.1991**	**21,581.2792**	**22,312.4783**	**45.3818**	**0.1229**	**23,483.6566**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2021	1/28/2021	5	20	
2	Site Preparation	Site Preparation	1/29/2021	2/11/2021	5	10	
3	Grading	Grading	2/12/2021	3/11/2021	5	20	
4	Building Construction	Building Construction	3/12/2021	1/27/2022	5	230	
5	Paving	Paving	1/28/2022	2/24/2022	5	20	
6	Architectural Coating	Architectural Coating	2/25/2022	3/24/2022	5	20	

Acres of Grading (Site Preparation Phase): 5

Acres of Grading (Grading Phase): 5

Acres of Paving: 1.06

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 835,650; Non-Residential Outdoor: 278,550; Striped Parking Area: 16,176 (Architectural Coating – sqft)

OffRoad Equipment

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Excavators	3	8.00	158	0.38
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Excavators	1	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Paving Equipment	2	8.00	132	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	62.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	308.00	135.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	6	15.00	0.00	618.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	4,312.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	2,156.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Clean Paved Roads

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0668	0.0000	0.0668	0.0101	0.0000	0.0101	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0317	0.3144	0.2157	3.9000e-004		0.0155	0.0155		0.0144	0.0144	0.0000	34.0008	34.0008	9.5700e-003	0.0000	34.2400
Total	**0.0317**	**0.3144**	**0.2157**	**3.9000e-004**	**0.0668**	**0.0155**	**0.0824**	**0.0101**	**0.0144**	**0.0245**	**0.0000**	**34.0008**	**34.0008**	**9.5700e-003**	**0.0000**	**34.2400**

3.2 Demolition - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.6000e-003	0.0855	0.0199	2.4000e-004	5.3100e-003	2.6000e-004	5.5700e-003	1.4600e-003	2.4000e-004	1.7000e-003	0.0000	23.5550	23.5550	1.6300e-003	0.0000	23.5958
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.5000e-004	5.0000e-004	5.6700e-003	2.0000e-005	1.6400e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4834	1.4834	4.0000e-005	0.0000	1.4845
Total	**3.2500e-003**	**0.0860**	**0.0256**	**2.6000e-004**	**6.9500e-003**	**2.7000e-004**	**7.2300e-003**	**1.9000e-003**	**2.5000e-004**	**2.1500e-003**	**0.0000**	**25.0383**	**25.0383**	**1.6700e-003**	**0.0000**	**25.0803**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0261	0.0000	0.0261	3.9500e-003	0.0000	3.9500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0317	0.3144	0.2157	3.9000e-004		0.0155	0.0155		0.0144	0.0144	0.0000	34.0007	34.0007	9.5700e-003	0.0000	34.2400
Total	**0.0317**	**0.3144**	**0.2157**	**3.9000e-004**	**0.0261**	**0.0155**	**0.0416**	**3.9500e-003**	**0.0144**	**0.0184**	**0.0000**	**34.0007**	**34.0007**	**9.5700e-003**	**0.0000**	**34.2400**

3.2 Demolition - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.6000e-003	0.0855	0.0199	2.4000e-004	3.3100e-003	2.6000e-004	3.5700e-003	9.7000e-004	2.4000e-004	1.2100e-003	0.0000	23.5550	23.5550	1.6300e-003	0.0000	23.5958
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.5000e-004	5.0000e-004	5.6700e-003	2.0000e-005	9.3000e-004	1.0000e-005	9.4000e-004	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	1.4834	1.4834	4.0000e-005	0.0000	1.4845
Total	**3.2500e-003**	**0.0860**	**0.0256**	**2.6000e-004**	**4.2400e-003**	**2.7000e-004**	**4.5100e-003**	**1.2300e-003**	**2.5000e-004**	**1.4800e-003**	**0.0000**	**25.0383**	**25.0383**	**1.6700e-003**	**0.0000**	**25.0803**

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0940	0.0000	0.0940	0.0501	0.0000	0.0501	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0194	0.2025	0.1058	1.9000e-004		0.0102	0.0102		9.4000e-003	9.4000e-003	0.0000	16.7179	16.7179	5.4100e-003	0.0000	16.8530
Total	**0.0194**	**0.2025**	**0.1058**	**1.9000e-004**	**0.0940**	**0.0102**	**0.1042**	**0.0501**	**9.4000e-003**	**0.0595**	**0.0000**	**16.7179**	**16.7179**	**5.4100e-003**	**0.0000**	**16.8530**

3.3 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	9.0800e-003	0.2984	0.0696	8.3000e-004	0.0185	8.9000e-004	0.0194	5.0900e-003	8.5000e-004	5.9400e-003	0.0000	82.1755	82.1755	5.7000e-003	0.0000	82.3181
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.9000e-004	3.0000e-004	3.4000e-003	1.0000e-005	9.9000e-004	1.0000e-005	9.9000e-004	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.8900	0.8900	3.0000e-005	0.0000	0.8907
Total	**9.4700e-003**	**0.2987**	**0.0730**	**8.4000e-004**	**0.0195**	**9.0000e-004**	**0.0204**	**5.3500e-003**	**8.6000e-004**	**6.2100e-003**	**0.0000**	**83.0656**	**83.0656**	**5.7300e-003**	**0.0000**	**83.2088**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0366	0.0000	0.0366	0.0195	0.0000	0.0195	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0194	0.2025	0.1058	1.9000e-004		0.0102	0.0102		9.4000e-003	9.4000e-003	0.0000	16.7178	16.7178	5.4100e-003	0.0000	16.8530
Total	**0.0194**	**0.2025**	**0.1058**	**1.9000e-004**	**0.0366**	**0.0102**	**0.0469**	**0.0195**	**9.4000e-003**	**0.0289**	**0.0000**	**16.7178**	**16.7178**	**5.4100e-003**	**0.0000**	**16.8530**

3.3 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	9.0800e-003	0.2984	0.0696	8.3000e-004	0.0116	8.9000e-004	0.0125	3.3800e-003	8.5000e-004	4.2300e-003	0.0000	82.1755	82.1755	5.7000e-003	0.0000	82.3181
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.9000e-004	3.0000e-004	3.4000e-003	1.0000e-005	5.6000e-004	1.0000e-005	5.7000e-004	1.6000e-004	1.0000e-005	1.6000e-004	0.0000	0.8900	0.8900	3.0000e-005	0.0000	0.8907
Total	**9.4700e-003**	**0.2987**	**0.0730**	**8.4000e-004**	**0.0121**	**9.0000e-004**	**0.0130**	**3.5400e-003**	**8.6000e-004**	**4.3900e-003**	**0.0000**	**83.0656**	**83.0656**	**5.7300e-003**	**0.0000**	**83.2088**

3.4 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0648	0.0000	0.0648	0.0337	0.0000	0.0337	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0229	0.2474	0.1586	3.0000e-004		0.0116	0.0116		0.0107	0.0107	0.0000	26.0537	26.0537	8.4300e-003	0.0000	26.2644
Total	**0.0229**	**0.2474**	**0.1586**	**3.0000e-004**	**0.0648**	**0.0116**	**0.0764**	**0.0337**	**0.0107**	**0.0444**	**0.0000**	**26.0537**	**26.0537**	**8.4300e-003**	**0.0000**	**26.2644**

3.4 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0182	0.5968	0.1392	1.6700e-003	0.0371	1.7900e-003	0.0388	0.0102	1.7100e-003	0.0119	0.0000	164.3511	164.3511	0.0114	0.0000	164.6363
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.5000e-004	5.0000e-004	5.6700e-003	2.0000e-005	1.6400e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4834	1.4834	4.0000e-005	0.0000	1.4845
Total	**0.0188**	**0.5973**	**0.1448**	**1.6900e-003**	**0.0387**	**1.8000e-003**	**0.0405**	**0.0106**	**1.7200e-003**	**0.0123**	**0.0000**	**165.8344**	**165.8344**	**0.0115**	**0.0000**	**166.1207**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0253	0.0000	0.0253	0.0131	0.0000	0.0131	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0229	0.2474	0.1586	3.0000e-004		0.0116	0.0116		0.0107	0.0107	0.0000	26.0537	26.0537	8.4300e-003	0.0000	26.2643
Total	**0.0229**	**0.2474**	**0.1586**	**3.0000e-004**	**0.0253**	**0.0116**	**0.0369**	**0.0131**	**0.0107**	**0.0238**	**0.0000**	**26.0537**	**26.0537**	**8.4300e-003**	**0.0000**	**26.2643**

3.4 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0182	0.5968	0.1392	1.6700e-003	0.0231	1.7900e-003	0.0249	6.7600e-003	1.7100e-003	8.4700e-003	0.0000	164.3511	164.3511	0.0114	0.0000	164.6363
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.5000e-004	5.0000e-004	5.6700e-003	2.0000e-005	9.3000e-004	1.0000e-005	9.4000e-004	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	1.4834	1.4834	4.0000e-005	0.0000	1.4845
Total	**0.0188**	**0.5973**	**0.1448**	**1.6900e-003**	**0.0241**	**1.8000e-003**	**0.0259**	**7.0200e-003**	**1.7200e-003**	**8.7400e-003**	**0.0000**	**165.8344**	**165.8344**	**0.0115**	**0.0000**	**166.1207**

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2006	1.8391	1.7487	2.8400e-003		0.1011	0.1011		0.0951	0.0951	0.0000	244.3773	244.3773	0.0590	0.0000	245.8513
Total	**0.2006**	**1.8391**	**1.7487**	**2.8400e-003**		**0.1011**	**0.1011**		**0.0951**	**0.0951**	**0.0000**	**244.3773**	**244.3773**	**0.0590**	**0.0000**	**245.8513**

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0442	1.4056	0.3811	3.6200e-003	0.0897	2.8700e-003	0.0926	0.0259	2.7400e-003	0.0286	0.0000	351.0728	351.0728	0.0215	0.0000	351.6111
Worker	0.1398	0.1089	1.2288	3.5600e-003	0.3561	2.9300e-003	0.3590	0.0946	2.7000e-003	0.0973	0.0000	321.3387	321.3387	9.4600e-003	0.0000	321.5751
Total	**0.1840**	**1.5144**	**1.6099**	**7.1800e-003**	**0.4458**	**5.8000e-003**	**0.4516**	**0.1205**	**5.4400e-003**	**0.1259**	**0.0000**	**672.4115**	**672.4115**	**0.0310**	**0.0000**	**673.1862**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2006	1.8391	1.7487	2.8400e-003		0.1011	0.1011		0.0951	0.0951	0.0000	244.3770	244.3770	0.0590	0.0000	245.8510
Total	**0.2006**	**1.8391**	**1.7487**	**2.8400e-003**		**0.1011**	**0.1011**		**0.0951**	**0.0951**	**0.0000**	**244.3770**	**244.3770**	**0.0590**	**0.0000**	**245.8510**

3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0442	1.4056	0.3811	3.6200e-003	0.0580	2.8700e-003	0.0608	0.0181	2.7400e-003	0.0208	0.0000	351.0728	351.0728	0.0215	0.0000	351.6111
Worker	0.1398	0.1089	1.2288	3.5600e-003	0.2018	2.9300e-003	0.2047	0.0567	2.7000e-003	0.0594	0.0000	321.3387	321.3387	9.4600e-003	0.0000	321.5751
Total	**0.1840**	**1.5144**	**1.6099**	**7.1800e-003**	**0.2597**	**5.8000e-003**	**0.2655**	**0.0748**	**5.4400e-003**	**0.0802**	**0.0000**	**672.4115**	**672.4115**	**0.0310**	**0.0000**	**673.1862**

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0162	0.1484	0.1555	2.6000e-004		7.6900e-003	7.6900e-003		7.2300e-003	7.2300e-003	0.0000	22.0139	22.0139	5.2700e-003	0.0000	22.1458
Total	**0.0162**	**0.1484**	**0.1555**	**2.6000e-004**		**7.6900e-003**	**7.6900e-003**		**7.2300e-003**	**7.2300e-003**	**0.0000**	**22.0139**	**22.0139**	**5.2700e-003**	**0.0000**	**22.1458**

3.5 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.7400e-003	0.1203	0.0325	3.2000e-004	8.0800e-003	2.3000e-004	8.3000e-003	2.3300e-003	2.2000e-004	2.5500e-003	0.0000	31.3355	31.3355	1.8700e-003	0.0000	31.3823
Worker	0.0118	8.8500e-003	0.1020	3.1000e-004	0.0321	2.6000e-004	0.0323	8.5200e-003	2.4000e-004	8.7500e-003	0.0000	27.9186	27.9186	7.7000e-004	0.0000	27.9378
Total	**0.0156**	**0.1291**	**0.1344**	**6.3000e-004**	**0.0401**	**4.9000e-004**	**0.0406**	**0.0109**	**4.6000e-004**	**0.0113**	**0.0000**	**59.2541**	**59.2541**	**2.6400e-003**	**0.0000**	**59.3201**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0162	0.1484	0.1555	2.6000e-004		7.6900e-003	7.6900e-003		7.2300e-003	7.2300e-003	0.0000	22.0139	22.0139	5.2700e-003	0.0000	22.1457
Total	**0.0162**	**0.1484**	**0.1555**	**2.6000e-004**		**7.6900e-003**	**7.6900e-003**		**7.2300e-003**	**7.2300e-003**	**0.0000**	**22.0139**	**22.0139**	**5.2700e-003**	**0.0000**	**22.1457**

3.5 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.7400e-003	0.1203	0.0325	3.2000e-004	5.2200e-003	2.3000e-004	5.4500e-003	1.6300e-003	2.2000e-004	1.8500e-003	0.0000	31.3355	31.3355	1.8700e-003	0.0000	31.3823
Worker	0.0118	8.8500e-003	0.1020	3.1000e-004	0.0182	2.6000e-004	0.0184	5.1100e-003	2.4000e-004	5.3400e-003	0.0000	27.9186	27.9186	7.7000e-004	0.0000	27.9378
Total	**0.0156**	**0.1291**	**0.1344**	**6.3000e-004**	**0.0234**	**4.9000e-004**	**0.0239**	**6.7400e-003**	**4.6000e-004**	**7.1900e-003**	**0.0000**	**59.2541**	**59.2541**	**2.6400e-003**	**0.0000**	**59.3201**

3.6 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0110	0.1113	0.1458	2.3000e-004		5.6800e-003	5.6800e-003		5.2200e-003	5.2200e-003	0.0000	20.0276	20.0276	6.4800e-003	0.0000	20.1895
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0110**	**0.1113**	**0.1458**	**2.3000e-004**		**5.6800e-003**	**5.6800e-003**		**5.2200e-003**	**5.2200e-003**	**0.0000**	**20.0276**	**20.0276**	**6.4800e-003**	**0.0000**	**20.1895**

3.6 Paving - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.1000e-004	4.5000e-004	5.2300e-003	2.0000e-005	1.6400e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4312	1.4312	4.0000e-005	0.0000	1.4322
Total	**6.1000e-004**	**4.5000e-004**	**5.2300e-003**	**2.0000e-005**	**1.6400e-003**	**1.0000e-005**	**1.6600e-003**	**4.4000e-004**	**1.0000e-005**	**4.5000e-004**	**0.0000**	**1.4312**	**1.4312**	**4.0000e-005**	**0.0000**	**1.4322**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0110	0.1113	0.1458	2.3000e-004		5.6800e-003	5.6800e-003		5.2200e-003	5.2200e-003	0.0000	20.0275	20.0275	6.4800e-003	0.0000	20.1895
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0110**	**0.1113**	**0.1458**	**2.3000e-004**		**5.6800e-003**	**5.6800e-003**		**5.2200e-003**	**5.2200e-003**	**0.0000**	**20.0275**	**20.0275**	**6.4800e-003**	**0.0000**	**20.1895**

3.6 Paving - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.1000e-004	4.5000e-004	5.2300e-003	2.0000e-005	9.3000e-004	1.0000e-005	9.4000e-004	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	1.4312	1.4312	4.0000e-005	0.0000	1.4322
Total	**6.1000e-004**	**4.5000e-004**	**5.2300e-003**	**2.0000e-005**	**9.3000e-004**	**1.0000e-005**	**9.4000e-004**	**2.6000e-004**	**1.0000e-005**	**2.7000e-004**	**0.0000**	**1.4312**	**1.4312**	**4.0000e-005**	**0.0000**	**1.4322**

3.7 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.6549					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0500e-003	0.0141	0.0181	3.0000e-005		8.2000e-004	8.2000e-004		8.2000e-004	8.2000e-004	0.0000	2.5533	2.5533	1.7000e-004	0.0000	2.5574
Total	**0.6570**	**0.0141**	**0.0181**	**3.0000e-005**		**8.2000e-004**	**8.2000e-004**		**8.2000e-004**	**8.2000e-004**	**0.0000**	**2.5533**	**2.5533**	**1.7000e-004**	**0.0000**	**2.5574**

3.7 Architectural Coating - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.5000e-003	1.8800e-003	0.0216	7.0000e-005	6.7900e-003	5.0000e-005	6.8500e-003	1.8000e-003	5.0000e-005	1.8500e-003	0.0000	5.9158	5.9158	1.6000e-004	0.0000	5.9198
Total	**2.5000e-003**	**1.8800e-003**	**0.0216**	**7.0000e-005**	**6.7900e-003**	**5.0000e-005**	**6.8500e-003**	**1.8000e-003**	**5.0000e-005**	**1.8500e-003**	**0.0000**	**5.9158**	**5.9158**	**1.6000e-004**	**0.0000**	**5.9198**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.6549					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0500e-003	0.0141	0.0181	3.0000e-005		8.2000e-004	8.2000e-004		8.2000e-004	8.2000e-004	0.0000	2.5533	2.5533	1.7000e-004	0.0000	2.5574
Total	**0.6570**	**0.0141**	**0.0181**	**3.0000e-005**		**8.2000e-004**	**8.2000e-004**		**8.2000e-004**	**8.2000e-004**	**0.0000**	**2.5533**	**2.5533**	**1.7000e-004**	**0.0000**	**2.5574**

3.7 Architectural Coating - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.5000e-003	1.8800e-003	0.0216	7.0000e-005	3.8500e-003	5.0000e-005	3.9000e-003	1.0800e-003	5.0000e-005	1.1300e-003	0.0000	5.9158	5.9158	1.6000e-004	0.0000	5.9198
Total	**2.5000e-003**	**1.8800e-003**	**0.0216**	**7.0000e-005**	**3.8500e-003**	**5.0000e-005**	**3.9000e-003**	**1.0800e-003**	**5.0000e-005**	**1.1300e-003**	**0.0000**	**5.9158**	**5.9158**	**1.6000e-004**	**0.0000**	**5.9198**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	3.0122	13.9140	44.1792	0.1705	14.6733	0.1285	14.8017	3.9331	0.1195	4.0526	0.0000	15,762.5023	15,762.5023	0.7622	0.0000	15,781.5564
Unmitigated	3.0122	13.9140	44.1792	0.1705	14.6733	0.1285	14.8017	3.9331	0.1195	4.0526	0.0000	15,762.5023	15,762.5023	0.7622	0.0000	15,781.5564

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Light Industry	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Hospital	9,972.24	9,972.24	9972.24	38,660,796	38,660,796
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Library	0.00	0.00	0.00		
Total	9,972.24	9,972.24	9,972.24	38,660,796	38,660,796

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Hospital	16.60	8.40	6.90	64.90	16.10	19.00	73	25	2
Unrefrigerated Warehouse-No Rail	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3
Library	16.60	8.40	6.90	52.00	43.00	5.00	44	44	12

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking with Elevator	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
General Light Industry	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
General Office Building	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
Hospital	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
Unrefrigerated Warehouse-No Rail	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
Library	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Olive View-UCLA Medical Center - Tier 1B - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	4,132.4703	4,132.4703	0.1437	0.0297	4,144.9223
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	4,132.4703	4,132.4703	0.1437	0.0297	4,144.9223
NaturalGas Mitigated	0.1185	1.0776	0.9052	6.4700e-003		0.0819	0.0819		0.0819	0.0819	0.0000	1,173.1108	1,173.1108	0.0225	0.0215	1,180.0821
NaturalGas Unmitigated	0.1185	1.0776	0.9052	6.4700e-003		0.0819	0.0819		0.0819	0.0819	0.0000	1,173.1108	1,173.1108	0.0225	0.0215	1,180.0821

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Light Industry	1.3937e+006	7.5200e-003	0.0683	0.0574	4.1000e-004		5.1900e-003	5.1900e-003		5.1900e-003	5.1900e-003	0.0000	74.3731	74.3731	1.4300e-003	1.3600e-003	74.8151
General Office Building	999360	5.3900e-003	0.0490	0.0412	2.9000e-004		3.7200e-003	3.7200e-003		3.7200e-003	3.7200e-003	0.0000	53.3297	53.3297	1.0200e-003	9.8000e-004	53.6466
Hospital	1.9169e+007	0.1034	0.9397	0.7893	5.6400e-003		0.0714	0.0714		0.0714	0.0714	0.0000	1,022.9287	1,022.9287	0.0196	0.0188	1,029.0075
Library	362000	1.9500e-003	0.0178	0.0149	1.1000e-004		1.3500e-003	1.3500e-003		1.3500e-003	1.3500e-003	0.0000	19.3177	19.3177	3.7000e-004	3.5000e-004	19.4325
Unrefrigerated Warehouse-No Rail	59247	3.2000e-004	2.9000e-003	2.4400e-003	2.0000e-005		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	3.1617	3.1617	6.0000e-005	6.0000e-005	3.1804
Total		**0.1185**	**1.0776**	**0.9052**	**6.4700e-003**		**0.0819**	**0.0819**		**0.0819**	**0.0819**	**0.0000**	**1,173.1109**	**1,173.1109**	**0.0225**	**0.0215**	**1,180.0821**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Light Industry	1.3937e+006	7.5200e-003	0.0683	0.0574	4.1000e-004		5.1900e-003	5.1900e-003		5.1900e-003	5.1900e-003	0.0000	74.3731	74.3731	1.4300e-003	1.3600e-003	74.8151
General Office Building	999360	5.3900e-003	0.0490	0.0412	2.9000e-004		3.7200e-003	3.7200e-003		3.7200e-003	3.7200e-003	0.0000	53.3297	53.3297	1.0200e-003	9.8000e-004	53.6466
Hospital	1.9169e+007	0.1034	0.9397	0.7893	5.6400e-003		0.0714	0.0714		0.0714	0.0714	0.0000	1,022.9287	1,022.9287	0.0196	0.0188	1,029.0075
Library	362000	1.9500e-003	0.0178	0.0149	1.1000e-004		1.3500e-003	1.3500e-003		1.3500e-003	1.3500e-003	0.0000	19.3177	19.3177	3.7000e-004	3.5000e-004	19.4325
Unrefrigerated Warehouse-No Rail	59247	3.2000e-004	2.9000e-003	2.4400e-003	2.0000e-005		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	3.1617	3.1617	6.0000e-005	6.0000e-005	3.1804
Total		**0.1185**	**1.0776**	**0.9052**	**6.4700e-003**		**0.0819**	**0.0819**		**0.0819**	**0.0819**	**0.0000**	**1,173.1109**	**1,173.1109**	**0.0225**	**0.0215**	**1,180.0821**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Enclosed Parking with Elevator	1.57986e+006	597.6533	0.0208	4.3000e-003	599.4541
General Light Industry	854700	323.3296	0.0112	2.3300e-003	324.3039
General Office Building	1.24704e+006	471.7503	0.0164	3.3900e-003	473.1718
Hospital	6.75472e+006	2,555.2838	0.0889	0.0184	2,562.9834
Library	222000	83.9817	2.9200e-003	6.0000e-004	84.2348
Unrefrigerated Warehouse-No Rail	265590	100.4716	3.4900e-003	7.2000e-004	100.7744
Total		**4,132.4703**	**0.1437**	**0.0297**	**4,144.9223**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Enclosed Parking with Elevator	1.57986e+006	597.6533	0.0208	4.3000e-003	599.4541
General Light Industry	854700	323.3296	0.0112	2.3300e-003	324.3039
General Office Building	1.24704e+006	471.7503	0.0164	3.3900e-003	473.1718
Hospital	6.75472e+006	2,555.2838	0.0889	0.0184	2,562.9834
Library	222000	83.9817	2.9200e-003	6.0000e-004	84.2348
Unrefrigerated Warehouse-No Rail	265590	100.4716	3.4900e-003	7.2000e-004	100.7744
Total		**4,132.4703**	**0.1437**	**0.0297**	**4,144.9223**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.1003	1.4000e-004	0.0157	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.0306	0.0306	8.0000e-005	0.0000	0.0326
Unmitigated	2.1003	1.4000e-004	0.0157	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.0306	0.0306	8.0000e-005	0.0000	0.0326

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0683					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.0305					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.4600e-003	1.4000e-004	0.0157	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.0306	0.0306	8.0000e-005	0.0000	0.0326
Total	**2.1003**	**1.4000e-004**	**0.0157**	**0.0000**		**6.0000e-005**	**6.0000e-005**		**6.0000e-005**	**6.0000e-005**	**0.0000**	**0.0306**	**0.0306**	**8.0000e-005**	**0.0000**	**0.0326**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0683					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.0305					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.4600e-003	1.4000e-004	0.0157	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.0306	0.0306	8.0000e-005	0.0000	0.0326
Total	**2.1003**	**1.4000e-004**	**0.0157**	**0.0000**		**6.0000e-005**	**6.0000e-005**		**6.0000e-005**	**6.0000e-005**	**0.0000**	**0.0306**	**0.0306**	**8.0000e-005**	**0.0000**	**0.0326**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	541.2056	2.8979	0.0717	635.0174
Unmitigated	541.2056	2.8979	0.0717	635.0174

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
General Light Industry	17.8062 / 0	93.3590	0.5833	0.0143	112.2114
General Office Building	17.0624 / 10.4576	133.4112	0.5604	0.0141	151.6085
Hospital	37.1422 / 7.07471	224.4726	1.2177	0.0301	263.8865
Library	0.625778 / 0.978781	7.3947	0.0206	5.3000e-004	8.0696
Unrefrigerated Warehouse-No Rail	15.7481 / 0	82.5682	0.5159	0.0127	99.2415
Total		**541.2056**	**2.8979**	**0.0717**	**635.0174**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
General Light Industry	17.8062 / 0	93.3590	0.5833	0.0143	112.2114
General Office Building	17.0624 / 10.4576	133.4112	0.5604	0.0141	151.6085
Hospital	37.1422 / 7.07471	224.4726	1.2177	0.0301	263.8865
Library	0.625778 / 0.978781	7.3947	0.0206	5.3000e-004	8.0696
Unrefrigerated Warehouse-No Rail	15.7481 / 0	82.5682	0.5159	0.0127	99.2415
Total		**541.2056**	**2.8979**	**0.0717**	**635.0174**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	703.1587	41.5555	0.0000	1,742.0458
Unmitigated	703.1587	41.5555	0.0000	1,742.0458

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Light Industry	95.48	19.3816	1.1454	0.0000	48.0170
General Office Building	89.28	18.1230	1.0710	0.0000	44.8991
Hospital	3196.8	648.9215	38.3502	0.0000	1,607.6756
Library	18.42	3.7391	0.2210	0.0000	9.2635
Unrefrigerated Warehouse-No Rail	64.01	12.9935	0.7679	0.0000	32.1907
Total		**703.1587**	**41.5555**	**0.0000**	**1,742.0458**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Light Industry	95.48	19.3816	1.1454	0.0000	48.0170
General Office Building	89.28	18.1230	1.0710	0.0000	44.8991
Hospital	3196.8	648.9215	38.3502	0.0000	1,607.6756
Library	18.42	3.7391	0.2210	0.0000	9.2635
Unrefrigerated Warehouse-No Rail	64.01	12.9935	0.7679	0.0000	32.1907
Total		**703.1587**	**41.5555**	**0.0000**	**1,742.0458**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

3.3 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.7977	57.8333	13.5603	0.1682	2.3446	0.1775	2.5221	0.6836	0.1698	0.8534		18,249.3816	18,249.3816	1.2385		18,280.3433
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0772	0.0530	0.7250	2.0600e-003	0.1137	1.6300e-003	0.1154	0.0319	1.5000e-003	0.0334		204.9786	204.9786	6.0400e-003		205.1296
Total	**1.8748**	**57.8863**	**14.2852**	**0.1703**	**2.4584**	**0.1791**	**2.6375**	**0.7154**	**0.1713**	**0.8868**		**18,454.3602**	**18,454.3602**	**1.2445**		**18,485.4729**

3.4 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.4823	0.0000	6.4823	3.3684	0.0000	3.3684			0.0000			0.0000
Off-Road	2.2903	24.7367	15.8575	0.0296		1.1599	1.1599		1.0671	1.0671		2,871.9285	2,871.9285	0.9288		2,895.1495
Total	**2.2903**	**24.7367**	**15.8575**	**0.0296**	**6.4823**	**1.1599**	**7.6422**	**3.3684**	**1.0671**	**4.4355**		**2,871.9285**	**2,871.9285**	**0.9288**		**2,895.1495**

3.4 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.7977	57.8333	13.5603	0.1682	3.7699	0.1775	3.9474	1.0334	0.1698	1.2032		18,249.3816	18,249.3816	1.2385		18,280.3433
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0643	0.0442	0.6042	1.7100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		170.8155	170.8155	5.0300e-003		170.9413
Total	**1.8620**	**57.8775**	**14.1644**	**0.1699**	**3.9375**	**0.1789**	**4.1164**	**1.0779**	**0.1711**	**1.2489**		**18,420.1971**	**18,420.1971**	**1.2435**		**18,451.2846**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.5281	0.0000	2.5281	1.3137	0.0000	1.3137			0.0000			0.0000
Off-Road	2.2903	24.7367	15.8575	0.0296		1.1599	1.1599		1.0671	1.0671	0.0000	2,871.9285	2,871.9285	0.9288		2,895.1495
Total	**2.2903**	**24.7367**	**15.8575**	**0.0296**	**2.5281**	**1.1599**	**3.6880**	**1.3137**	**1.0671**	**2.3808**	**0.0000**	**2,871.9285**	**2,871.9285**	**0.9288**		**2,895.1495**

3.4 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.7977	57.8333	13.5603	0.1682	2.3446	0.1775	2.5221	0.6836	0.1698	0.8534		18,249.3816	18,249.3816	1.2385		18,280.3433
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0643	0.0442	0.6042	1.7100e-003	0.0948	1.3500e-003	0.0961	0.0266	1.2500e-003	0.0278		170.8155	170.8155	5.0300e-003		170.9413
Total	**1.8620**	**57.8775**	**14.1644**	**0.1699**	**2.4394**	**0.1789**	**2.6183**	**0.7101**	**0.1711**	**0.8812**		**18,420.1971**	**18,420.1971**	**1.2435**		**18,451.2846**

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**		**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4104	13.1071	3.4265	0.0347	0.8643	0.0268	0.8911	0.2488	0.0256	0.2745		3,710.8885	3,710.8885	0.2186		3,716.3540
Worker	1.3203	0.9075	12.4054	0.0352	3.4427	0.0278	3.4705	0.9130	0.0256	0.9387		3,507.4112	3,507.4112	0.1034		3,509.9948
Total	**1.7306**	**14.0146**	**15.8320**	**0.0699**	**4.3070**	**0.0546**	**4.3616**	**1.1619**	**0.0513**	**1.2131**		**7,218.2997**	**7,218.2997**	**0.3220**		**7,226.3488**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**	**0.0000**	**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4104	13.1071	3.4265	0.0347	0.5564	0.0268	0.5832	0.1733	0.0256	0.1989		3,710.8885	3,710.8885	0.2186		3,716.3540
Worker	1.3203	0.9075	12.4054	0.0352	1.9462	0.0278	1.9740	0.5457	0.0256	0.5713		3,507.4112	3,507.4112	0.1034		3,509.9948
Total	**1.7306**	**14.0146**	**15.8320**	**0.0699**	**2.5026**	**0.0546**	**2.5572**	**0.7190**	**0.0513**	**0.7702**		**7,218.2997**	**7,218.2997**	**0.3220**		**7,226.3488**

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**		**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

3.5 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3851	12.4646	3.2420	0.0344	0.8643	0.0234	0.8877	0.2489	0.0224	0.2713		3,678.5595	3,678.5595	0.2111		3,683.8370
Worker	1.2367	0.8197	11.4454	0.0340	3.4427	0.0270	3.4697	0.9130	0.0248	0.9379		3,384.0339	3,384.0339	0.0934		3,386.3690
Total	**1.6218**	**13.2843**	**14.6874**	**0.0683**	**4.3070**	**0.0504**	**4.3574**	**1.1619**	**0.0472**	**1.2091**		**7,062.5934**	**7,062.5934**	**0.3045**		**7,070.2059**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**	**0.0000**	**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

3.5 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3851	12.4646	3.2420	0.0344	0.5564	0.0234	0.5799	0.1733	0.0224	0.1957		3,678.5595	3,678.5595	0.2111		3,683.8370
Worker	1.2367	0.8197	11.4454	0.0340	1.9462	0.0270	1.9732	0.5457	0.0248	0.5705		3,384.0339	3,384.0339	0.0934		3,386.3690
Total	**1.6218**	**13.2843**	**14.6874**	**0.0683**	**2.5026**	**0.0504**	**2.5530**	**0.7190**	**0.0472**	**0.7662**		**7,062.5934**	**7,062.5934**	**0.3045**		**7,070.2059**

3.6 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.1028**	**11.1249**	**14.5805**	**0.0228**		**0.5679**	**0.5679**		**0.5225**	**0.5225**		**2,207.6603**	**2,207.6603**	**0.7140**		**2,225.5104**

3.6 Paving - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0602	0.0399	0.5574	1.6500e-003	0.1677	1.3100e-003	0.1690	0.0445	1.2100e-003	0.0457		164.8069	164.8069	4.5500e-003		164.9206
Total	**0.0602**	**0.0399**	**0.5574**	**1.6500e-003**	**0.1677**	**1.3100e-003**	**0.1690**	**0.0445**	**1.2100e-003**	**0.0457**		**164.8069**	**164.8069**	**4.5500e-003**		**164.9206**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.1028**	**11.1249**	**14.5805**	**0.0228**		**0.5679**	**0.5679**		**0.5225**	**0.5225**	**0.0000**	**2,207.6603**	**2,207.6603**	**0.7140**		**2,225.5104**

3.6 Paving - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0602	0.0399	0.5574	1.6500e-003	0.0948	1.3100e-003	0.0961	0.0266	1.2100e-003	0.0278		164.8069	164.8069	4.5500e-003		164.9206
Total	**0.0602**	**0.0399**	**0.5574**	**1.6500e-003**	**0.0948**	**1.3100e-003**	**0.0961**	**0.0266**	**1.2100e-003**	**0.0278**		**164.8069**	**164.8069**	**4.5500e-003**		**164.9206**

3.7 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	65.4912					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	**65.6957**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**		**281.4481**	**281.4481**	**0.0183**		**281.9062**

3.7 Architectural Coating - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2489	0.1650	2.3039	6.8400e-003	0.6930	5.4200e-003	0.6984	0.1838	5.0000e-003	0.1888		681.2016	681.2016	0.0188		681.6717
Total	**0.2489**	**0.1650**	**2.3039**	**6.8400e-003**	**0.6930**	**5.4200e-003**	**0.6984**	**0.1838**	**5.0000e-003**	**0.1888**		**681.2016**	**681.2016**	**0.0188**		**681.6717**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	65.4912					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	**65.6957**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**	**0.0000**	**281.4481**	**281.4481**	**0.0183**		**281.9062**

3.7 Architectural Coating - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2489	0.1650	2.3039	6.8400e-003	0.3918	5.4200e-003	0.3972	0.1099	5.0000e-003	0.1149		681.2016	681.2016	0.0188		681.6717
Total	**0.2489**	**0.1650**	**2.3039**	**6.8400e-003**	**0.3918**	**5.4200e-003**	**0.3972**	**0.1099**	**5.0000e-003**	**0.1149**		**681.2016**	**681.2016**	**0.0188**		**681.6717**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	17.4418	73.0423	253.6076	0.9711	82.2093	0.7056	82.9150	21.9997	0.6564	22.6560		98,883.0293	98,883.0293	4.6583		98,999.4879
Unmitigated	17.4418	73.0423	253.6076	0.9711	82.2093	0.7056	82.9150	21.9997	0.6564	22.6560		98,883.0293	98,883.0293	4.6583		98,999.4879

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Light Industry	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Hospital	9,972.24	9,972.24	9972.24	38,660,796	38,660,796
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Library	0.00	0.00	0.00		
Total	9,972.24	9,972.24	9,972.24	38,660,796	38,660,796

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Hospital	16.60	8.40	6.90	64.90	16.10	19.00	73	25	2
Unrefrigerated Warehouse-No Rail	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3
Library	16.60	8.40	6.90	52.00	43.00	5.00	44	44	12

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking with Elevator	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
General Light Industry	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
General Office Building	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
Hospital	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
Unrefrigerated Warehouse-No Rail	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
Library	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Olive View-UCLA Medical Center - Tier 1B - Los Angeles-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.6495	5.9047	4.9600	0.0354		0.4488	0.4488		0.4488	0.4488		7,085.6622	7,085.6622	0.1358	0.1299	7,127.7688
NaturalGas Unmitigated	0.6495	5.9047	4.9600	0.0354		0.4488	0.4488		0.4488	0.4488		7,085.6622	7,085.6622	0.1358	0.1299	7,127.7688

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Light Industry	3818.36	0.0412	0.3744	0.3145	2.2500e-003		0.0285	0.0285		0.0285	0.0285		449.2184	449.2184	8.6100e-003	8.2400e-003	451.8879
General Office Building	2737.97	0.0295	0.2684	0.2255	1.6100e-003		0.0204	0.0204		0.0204	0.0204		322.1144	322.1144	6.1700e-003	5.9100e-003	324.0286
Hospital	52517.7	0.5664	5.1488	4.3250	0.0309		0.3913	0.3913		0.3913	0.3913		6,178.5528	6,178.5528	0.1184	0.1133	6,215.2688
Library	991.781	0.0107	0.0972	0.0817	5.8000e-004		7.3900e-003	7.3900e-003		7.3900e-003	7.3900e-003		116.6801	116.6801	2.2400e-003	2.1400e-003	117.3735
Unrefrigerated Warehouse-No Rail	162.321	1.7500e-003	0.0159	0.0134	1.0000e-004		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003		19.0965	19.0965	3.7000e-004	3.5000e-004	19.2100
Total		**0.6495**	**5.9047**	**4.9600**	**0.0354**		**0.4488**	**0.4488**		**0.4488**	**0.4488**		**7,085.6622**	**7,085.6622**	**0.1358**	**0.1299**	**7,127.7688**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Light Industry	3.81836	0.0412	0.3744	0.3145	2.2500e-003		0.0285	0.0285		0.0285	0.0285		449.2184	449.2184	8.6100e-003	8.2400e-003	451.8879
General Office Building	2.73797	0.0295	0.2684	0.2255	1.6100e-003		0.0204	0.0204		0.0204	0.0204		322.1144	322.1144	6.1700e-003	5.9100e-003	324.0286
Hospital	52.5177	0.5664	5.1488	4.3250	0.0309		0.3913	0.3913		0.3913	0.3913		6,178.5528	6,178.5528	0.1184	0.1133	6,215.2688
Library	0.991781	0.0107	0.0972	0.0817	5.8000e-004		7.3900e-003	7.3900e-003		7.3900e-003	7.3900e-003		116.6801	116.6801	2.2400e-003	2.1400e-003	117.3735
Unrefrigerated Warehouse-No Rail	0.162321	1.7500e-003	0.0159	0.0134	1.0000e-004		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003		19.0965	19.0965	3.7000e-004	3.5000e-004	19.2100
Total		**0.6495**	**5.9047**	**4.9600**	**0.0354**		**0.4488**	**0.4488**		**0.4488**	**0.4488**		**7,085.6622**	**7,085.6622**	**0.1358**	**0.1299**	**7,127.7688**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	11.5120	1.1400e-003	0.1257	1.0000e-005		4.5000e-004	4.5000e-004		4.5000e-004	4.5000e-004		0.2694	0.2694	7.1000e-004		0.2871
Unmitigated	11.5120	1.1400e-003	0.1257	1.0000e-005		4.5000e-004	4.5000e-004		4.5000e-004	4.5000e-004		0.2694	0.2694	7.1000e-004		0.2871

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.3743					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	11.1261					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0116	1.1400e-003	0.1257	1.0000e-005		4.5000e-004	4.5000e-004		4.5000e-004	4.5000e-004		0.2694	0.2694	7.1000e-004		0.2871
Total	**11.5120**	**1.1400e-003**	**0.1257**	**1.0000e-005**		**4.5000e-004**	**4.5000e-004**		**4.5000e-004**	**4.5000e-004**		**0.2694**	**0.2694**	**7.1000e-004**		**0.2871**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.3743					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	11.1261					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0116	1.1400e-003	0.1257	1.0000e-005		4.5000e-004	4.5000e-004		4.5000e-004	4.5000e-004		0.2694	0.2694	7.1000e-004		0.2871
Total	**11.5120**	**1.1400e-003**	**0.1257**	**1.0000e-005**		**4.5000e-004**	**4.5000e-004**		**4.5000e-004**	**4.5000e-004**		**0.2694**	**0.2694**	**7.1000e-004**		**0.2871**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

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** Lakes Environmental AERMOD MPI
**
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**
** AERMOD Input Produced by:
** AERMOD View Ver. 9.6.5
** Lakes Environmental Software Inc.
** Date: 4/3/2019
** File: C:\project_files\Olive_View\AERMOD\OVMC_Construction_Elev\OVMC_Construction_Elev.ADI
**
**************************************
**
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** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE Olive View UCLA Medical Center: Construction DPM concentration
   TITLETWO ELEV Option
   MODELOPT DFAULT CONC
   AVERTIME PERIOD
   URBANOPT 9818605
   POLLUTID DPM
   RUNORNOT RUN
   ERRORFIL OVMC_Construction_Elev.err
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION T1A_1        AREAPOLY   367101.744  3799472.640      454.190
** DESCRSRC Tier 1A: Residential Treatment 1
   LOCATION T1A_2        AREAPOLY   367103.122  3799454.497      451.180
** DESCRSRC Tier 1A: Residential Treatment 2
   LOCATION T1A_3        AREAPOLY   367113.451  3799413.347      449.420
** DESCRSRC Tier 1A: Residential Treatment 3
   LOCATION T1A_4        AREAPOLY   367124.440  3799457.687      450.470
** DESCRSRC Tier 1A: Residential Treatment 4
   LOCATION T1A_5        AREAPOLY   367135.919  3799436.298      449.780
** DESCRSRC Tier 1A: Residential Treatment 5
   LOCATION T1A_6        AREAPOLY   367133.070  3799379.087      449.440
** DESCRSRC Tier 1A: Recuperative Care Center
   LOCATION T1A_7        AREAPOLY   366994.462  3799413.385      450.020
** DESCRSRC Tier 1A: Psych Urgent Care
   LOCATION T1A_8        AREAPOLY   366934.668  3799405.359      449.270
** DESCRSRC Tier 1A: Mental Health Wellness Center
   LOCATION T1B_UM_1     AREAPOLY   366920.768  3799460.598      451.580
** DESCRSRC Tier 1B - Unmitigated: Administration
   LOCATION T1B_UM_2     AREAPOLY   366819.539  3799439.778      449.270
** DESCRSRC Tier 1B - Unmitigated: Central Plant East
   LOCATION T1B_UM_3     AREAPOLY   366574.399  3799321.960      449.150
** DESCRSRC Tier 1B - Unmitigated: Material Management
   LOCATION T1B_UM_4     AREAPOLY   366781.937  3799356.625      445.400
** DESCRSRC Tier 1B - Unmitigated: Parking Structure
   LOCATION T1B_UM_5     AREAPOLY   366778.172  3799284.843      444.020
** DESCRSRC Tier 1B - Unmitigated: Ambulatory Care Center
   LOCATION T1B_UM_6     AREAPOLY   366885.524  3799153.037      441.290
** DESCRSRC Tier 1B - Unmitigated: Community Center
   LOCATION T1B_M_1      AREAPOLY   366920.768  3799460.598      451.580
** DESCRSRC Tier 1B - Mitigated: Administration
   LOCATION T1B_M_2      AREAPOLY   366819.539  3799439.778      449.270
** DESCRSRC Tier 1B - Mitigated: Central Plant East
   LOCATION T1B_M_3      AREAPOLY   366574.399  3799321.960      449.150
** DESCRSRC Tier 1B - Mitigated: Material Management
   LOCATION T1B_M_4      AREAPOLY   366781.937  3799356.625      445.400
** DESCRSRC Tier 1B - Mitigated: Parking Structure
   LOCATION T1B_M_5      AREAPOLY   366778.172  3799284.843      444.020
** DESCRSRC Tier 1B - Mitigated: Ambulatory Care Center
   LOCATION T1B_M_6      AREAPOLY   366885.524  3799153.037      441.290
** DESCRSRC Tier 1B - Mitigated: Community Center
** Source Parameters **
   SRCPARAM T1A_1        4.409E-06     2.550         9     2.370
   AREAVERT T1A_1        367101.744 3799472.640 367117.016 3799477.807
   AREAVERT T1A_1        367117.131 3799481.023 367126.088 3799483.664
   AREAVERT T1A_1        367126.662 3799481.712 367130.222 3799482.056
   AREAVERT T1A_1        367134.011 3799469.539 367134.011 3799469.425
   AREAVERT T1A_1        367105.993 3799460.353
   SRCPARAM T1A_2        4.409E-06     2.550         8     2.370
   AREAVERT T1A_2        367103.122 3799454.497 367113.457 3799458.056
   AREAVERT T1A_2        367123.102 3799428.889 367112.653 3799425.444
   AREAVERT T1A_2        367111.619 3799428.430 367108.978 3799427.167
   AREAVERT T1A_2        367105.763 3799436.813 367108.519 3799437.846
   SRCPARAM T1A_3        4.409E-06     2.550         9     2.370
   AREAVERT T1A_3        367113.451 3799413.347 367117.160 3799414.421
   AREAVERT T1A_3        367116.477 3799416.861 367127.604 3799420.277
   AREAVERT T1A_3        367135.900 3799393.533 367135.900 3799393.337
   AREAVERT T1A_3        367124.871 3799389.921 367119.990 3799405.343
   AREAVERT T1A_3        367117.257 3799404.367
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SRCPARAM T1A_4        4.409E-06     2.550         8     2.370
AREAVERT T1A_4        367124.440 3799457.687 367153.147 3799467.643
AREAVERT T1A_4        367157.130 3799456.774 367141.615 3799451.381
AREAVERT T1A_4        367142.361 3799447.979 367132.156 3799444.163
AREAVERT T1A_4        367131.161 3799447.233 367128.672 3799446.652
SRCPARAM T1A_5        4.409E-06     2.550         8     2.370
AREAVERT T1A_5        367135.919 3799436.298 367145.651 3799439.471
AREAVERT T1A_5        367146.568 3799437.073 367149.389 3799437.849
AREAVERT T1A_5        367152.069 3799429.598 367149.459 3799428.328
AREAVERT T1A_5        367154.537 3799413.307 367144.875 3799410.063
SRCPARAM T1A_6        4.409E-06     2.550        18     2.370
AREAVERT T1A_6        367133.070 3799379.087 367143.026 3799382.210
AREAVERT T1A_6        367147.906 3799367.667 367143.611 3799366.593
AREAVERT T1A_6        367145.856 3799359.566 367149.565 3799360.737
AREAVERT T1A_6        367161.376 3799330.674 367157.471 3799329.503
AREAVERT T1A_6        367158.447 3799326.477 367154.153 3799324.525
AREAVERT T1A_6        367153.274 3799326.867 367149.175 3799325.598
AREAVERT T1A_6        367138.145 3799357.223 367135.315 3799356.345
AREAVERT T1A_6        367132.777 3799363.763 367134.534 3799364.348
AREAVERT T1A_6        367131.118 3799374.987 367133.753 3799375.866
SRCPARAM T1A_7        4.409E-06     2.550         9     2.370
AREAVERT T1A_7        366994.462 3799413.385 367014.100 3799413.271
AREAVERT T1A_7        367016.053 3799408.677 367016.627 3799395.814
AREAVERT T1A_7        367010.655 3799395.240 367008.703 3799377.899
AREAVERT T1A_7        366987.916 3799379.506 366989.064 3799402.131
AREAVERT T1A_7        366993.888 3799402.705
SRCPARAM T1A_8        4.409E-06     2.550         4     2.370
AREAVERT T1A_8        366934.668 3799405.359 366971.132 3799401.692
AREAVERT T1A_8        366969.016 3799380.604 366932.482 3799384.412
SRCPARAM T1B_UM_1     1.6336E-06     2.550        22     2.370
AREAVERT T1B_UM_1     366920.768 3799460.598 366937.600 3799463.965
AREAVERT T1B_UM_1     366948.260 3799466.022 366957.798 3799468.079
AREAVERT T1B_UM_1     366961.725 3799468.827 366971.076 3799472.007
AREAVERT T1B_UM_1     366985.290 3799476.308 366997.259 3799480.235
AREAVERT T1B_UM_1     367003.805 3799482.480 367015.213 3799456.671
AREAVERT T1B_UM_1     367003.057 3799451.995 366997.259 3799449.751
AREAVERT T1B_UM_1     366994.454 3799448.442 366980.801 3799444.328
AREAVERT T1B_UM_1     366971.824 3799441.709 366960.790 3799439.278
AREAVERT T1B_UM_1     366945.080 3799435.725 366938.161 3799433.855
AREAVERT T1B_UM_1     366930.306 3799432.171 366925.069 3799430.862
AREAVERT T1B_UM_1     366921.703 3799455.362 366920.394 3799461.346
SRCPARAM T1B_UM_2     1.6336E-06     2.550        18     2.370
AREAVERT T1B_UM_2     366819.539 3799439.778 366828.704 3799442.770
AREAVERT T1B_UM_2     366840.112 3799445.950 366849.277 3799448.568
AREAVERT T1B_UM_2     366857.319 3799450.813 366866.109 3799453.057
AREAVERT T1B_UM_2     366874.152 3799454.740 366881.072 3799456.610
AREAVERT T1B_UM_2     366889.675 3799458.855 366896.034 3799426.686
AREAVERT T1B_UM_2     366888.740 3799424.816 366875.087 3799422.010
AREAVERT T1B_UM_2     366864.800 3799419.766 366859.563 3799418.831
AREAVERT T1B_UM_2     366855.636 3799417.709 366846.845 3799414.903
AREAVERT T1B_UM_2     366840.299 3799412.659 366830.387 3799409.666
SRCPARAM T1B_UM_3     1.6336E-06     2.550        23     2.370
AREAVERT T1B_UM_3     366574.399 3799321.960 366582.189 3799324.185
AREAVERT T1B_UM_3     366590.297 3799326.411 366596.179 3799328.001
AREAVERT T1B_UM_3     366602.220 3799329.750 366604.287 3799330.386
AREAVERT T1B_UM_3     366611.759 3799333.406 366623.842 3799338.176
AREAVERT T1B_UM_3     366636.560 3799343.263 366646.576 3799347.397
AREAVERT T1B_UM_3     366654.048 3799350.894 366661.361 3799354.233
AREAVERT T1B_UM_3     366674.875 3799328.796 366666.767 3799325.139
AREAVERT T1B_UM_3     366650.869 3799317.667 366642.443 3799314.011
AREAVERT T1B_UM_3     366637.673 3799311.944 366629.724 3799308.128
AREAVERT T1B_UM_3     366626.068 3799306.538 366622.888 3799305.426
AREAVERT T1B_UM_3     366610.805 3799301.928 366590.615 3799296.046
AREAVERT T1B_UM_3     366578.691 3799292.389
SRCPARAM T1B_UM_4     1.6336E-06     2.550        20     2.370
AREAVERT T1B_UM_4     366781.937 3799356.625 366803.447 3799365.603
AREAVERT T1B_UM_4     366818.224 3799371.775 366827.389 3799375.703
AREAVERT T1B_UM_4     366831.317 3799377.200 366834.684 3799378.322
AREAVERT T1B_UM_4     366846.468 3799381.315 366865.172 3799386.365
AREAVERT T1B_UM_4     366879.575 3799390.106 366889.675 3799392.538
AREAVERT T1B_UM_4     366901.459 3799395.530 366903.330 3799359.804
AREAVERT T1B_UM_4     366885.560 3799356.064 366865.546 3799351.949
AREAVERT T1B_UM_4     366858.252 3799349.891 366845.907 3799346.337
AREAVERT T1B_UM_4     366827.389 3799340.165 366821.029 3799338.481
AREAVERT T1B_UM_4     366807.749 3799331.748 366793.908 3799325.388
SRCPARAM T1B_UM_5     1.6336E-06     2.550        45     2.370
AREAVERT T1B_UM_5     366778.172 3799284.843 366791.452 3799294.195
AREAVERT T1B_UM_5     366802.863 3799302.425 366810.719 3799307.476
AREAVERT T1B_UM_5     366819.884 3799313.274 366822.877 3799315.145
AREAVERT T1B_UM_5     366824.561 3799312.900 366839.151 3799317.390
AREAVERT T1B_UM_5     366852.431 3799322.253 366861.410 3799324.872
AREAVERT T1B_UM_5     366869.827 3799327.677 366877.870 3799330.109
AREAVERT T1B_UM_5     366886.100 3799331.793 366907.611 3799334.972
AREAVERT T1B_UM_5     366909.295 3799302.987 366887.036 3799299.058
AREAVERT T1B_UM_5     366887.784 3799290.080 366892.273 3799289.145
AREAVERT T1B_UM_5     366895.453 3799292.138 366904.432 3799289.332
AREAVERT T1B_UM_5     366908.547 3799287.835 366916.216 3799282.785
AREAVERT T1B_UM_5     366918.647 3799281.289 366917.899 3799276.986
AREAVERT T1B_UM_5     366926.691 3799267.821 366928.187 3799220.497
AREAVERT T1B_UM_5     366925.007 3799219.936 366923.511 3799239.576
AREAVERT T1B_UM_5     366922.950 3799245.936 366915.468 3799260.152
AREAVERT T1B_UM_5     366908.734 3799266.886 366905.180 3799264.267
AREAVERT T1B_UM_5     366890.403 3799272.497 366890.029 3799276.238
AREAVERT T1B_UM_5     366878.993 3799277.922 366870.201 3799276.612
AREAVERT T1B_UM_5     366862.906 3799275.864 366859.913 3799275.303
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AREAVERT T1B_UM_5     366839.712 3799267.073 366827.179 3799262.022
AREAVERT T1B_UM_5     366820.819 3799275.490 366809.596 3799268.382
AREAVERT T1B_UM_5     366806.042 3799265.389 366793.323 3799254.166
AREAVERT T1B_UM_5     366779.294 3799282.411
SRCPARAM T1B_UM_6     1.6336E-06     2.550        24     2.370
AREAVERT T1B_UM_6     366885.524 3799153.037 366886.955 3799159.556
AREAVERT T1B_UM_6     366899.676 3799159.556 366902.379 3799113.922
AREAVERT T1B_UM_6     366899.199 3799113.922 366897.768 3799108.993
AREAVERT T1B_UM_6     366895.542 3799106.131 366893.475 3799103.746
AREAVERT T1B_UM_6     366889.659 3799102.315 366887.750 3799101.997
AREAVERT T1B_UM_6     366886.001 3799102.156 366882.980 3799102.315
AREAVERT T1B_UM_6     366879.323 3799105.336 366876.938 3799109.788
AREAVERT T1B_UM_6     366875.507 3799114.876 366875.825 3799118.533
AREAVERT T1B_UM_6     366862.787 3799143.656 366864.377 3799144.928
AREAVERT T1B_UM_6     366867.716 3799148.426 366870.260 3799149.698
AREAVERT T1B_UM_6     366873.599 3799151.129 366874.871 3799151.765
AREAVERT T1B_UM_6     366879.800 3799152.083 366882.662 3799152.719
SRCPARAM T1B_M_1      4.962E-08     2.550        22     2.370
AREAVERT T1B_M_1      366920.768 3799460.598 366937.600 3799463.965
AREAVERT T1B_M_1      366948.260 3799466.022 366957.798 3799468.079
AREAVERT T1B_M_1      366961.725 3799468.827 366971.076 3799472.007
AREAVERT T1B_M_1      366985.290 3799476.308 366997.259 3799480.235
AREAVERT T1B_M_1      367003.805 3799482.480 367015.213 3799456.671
AREAVERT T1B_M_1      367003.057 3799451.995 366997.259 3799449.751
AREAVERT T1B_M_1      366994.454 3799448.442 366980.801 3799444.328
AREAVERT T1B_M_1      366971.824 3799441.709 366960.790 3799439.278
AREAVERT T1B_M_1      366945.080 3799435.725 366938.161 3799433.855
AREAVERT T1B_M_1      366930.306 3799432.171 366925.069 3799430.862
AREAVERT T1B_M_1      366921.703 3799455.362 366920.394 3799461.346
SRCPARAM T1B_M_2      4.962E-08     2.550        18     2.370
AREAVERT T1B_M_2      366819.539 3799439.778 366828.704 3799442.770
AREAVERT T1B_M_2      366840.112 3799445.950 366849.277 3799448.568
AREAVERT T1B_M_2      366857.319 3799450.813 366866.109 3799453.057
AREAVERT T1B_M_2      366874.152 3799454.740 366881.072 3799456.610
AREAVERT T1B_M_2      366889.675 3799458.855 366896.034 3799426.686
AREAVERT T1B_M_2      366888.740 3799424.816 366875.087 3799422.010
AREAVERT T1B_M_2      366864.800 3799419.766 366859.563 3799418.831
AREAVERT T1B_M_2      366855.636 3799417.709 366846.845 3799414.903
AREAVERT T1B_M_2      366840.299 3799412.659 366830.387 3799409.666
SRCPARAM T1B_M_3      4.962E-08     2.550        23     2.370
AREAVERT T1B_M_3      366574.399 3799321.960 366582.189 3799324.185
AREAVERT T1B_M_3      366590.297 3799326.411 366596.179 3799328.001
AREAVERT T1B_M_3      366602.220 3799329.750 366604.287 3799330.386
AREAVERT T1B_M_3      366611.759 3799333.406 366623.842 3799338.176
AREAVERT T1B_M_3      366636.560 3799343.263 366646.576 3799347.397
AREAVERT T1B_M_3      366654.048 3799350.894 366661.361 3799354.233
AREAVERT T1B_M_3      366674.875 3799328.796 366666.767 3799325.139
AREAVERT T1B_M_3      366650.869 3799317.667 366642.443 3799314.011
AREAVERT T1B_M_3      366637.673 3799311.944 366629.724 3799308.128
AREAVERT T1B_M_3      366626.068 3799306.538 366622.888 3799305.426
AREAVERT T1B_M_3      366610.805 3799301.928 366590.615 3799296.046
AREAVERT T1B_M_3      366578.691 3799292.389
SRCPARAM T1B_M_4      4.962E-08     2.550        20     2.370
AREAVERT T1B_M_4      366781.937 3799356.625 366803.447 3799365.603
AREAVERT T1B_M_4      366818.224 3799371.775 366827.389 3799375.703
AREAVERT T1B_M_4      366831.317 3799377.200 366834.684 3799378.322
AREAVERT T1B_M_4      366846.468 3799381.315 366865.172 3799386.365
AREAVERT T1B_M_4      366879.575 3799390.106 366889.675 3799392.538
AREAVERT T1B_M_4      366901.459 3799395.530 366903.330 3799359.804
AREAVERT T1B_M_4      366885.560 3799356.064 366865.546 3799351.949
AREAVERT T1B_M_4      366858.252 3799349.891 366845.907 3799346.337
AREAVERT T1B_M_4      366827.389 3799340.165 366821.029 3799338.481
AREAVERT T1B_M_4      366807.749 3799331.748 366793.908 3799325.388
SRCPARAM T1B_M_5      4.962E-08     2.550        45     2.370
AREAVERT T1B_M_5      366778.172 3799284.843 366791.452 3799294.195
AREAVERT T1B_M_5      366802.863 3799302.425 366810.719 3799307.476
AREAVERT T1B_M_5      366819.884 3799313.274 366822.877 3799315.145
AREAVERT T1B_M_5      366824.561 3799312.900 366839.151 3799317.390
AREAVERT T1B_M_5      366852.431 3799322.253 366861.410 3799324.872
AREAVERT T1B_M_5      366869.827 3799327.677 366877.870 3799330.109
AREAVERT T1B_M_5      366886.100 3799331.793 366907.611 3799334.972
AREAVERT T1B_M_5      366909.295 3799302.987 366887.036 3799299.058
AREAVERT T1B_M_5      366887.784 3799290.080 366892.273 3799289.145
AREAVERT T1B_M_5      366895.453 3799292.138 366904.432 3799289.332
AREAVERT T1B_M_5      366908.547 3799287.835 366916.216 3799282.785
AREAVERT T1B_M_5      366918.647 3799281.289 366917.899 3799276.986
AREAVERT T1B_M_5      366926.691 3799267.821 366928.187 3799220.497
AREAVERT T1B_M_5      366925.007 3799219.936 366923.511 3799239.576
AREAVERT T1B_M_5      366922.950 3799245.936 366915.468 3799260.152
AREAVERT T1B_M_5      366908.734 3799266.886 366905.180 3799264.267
AREAVERT T1B_M_5      366890.403 3799272.497 366890.029 3799276.238
AREAVERT T1B_M_5      366878.993 3799277.922 366870.201 3799276.612
AREAVERT T1B_M_5      366862.906 3799275.864 366859.913 3799275.303
AREAVERT T1B_M_5      366839.712 3799267.073 366827.179 3799262.022
AREAVERT T1B_M_5      366820.819 3799275.490 366809.596 3799268.382
AREAVERT T1B_M_5      366806.042 3799265.389 366793.323 3799254.166
AREAVERT T1B_M_5      366779.294 3799282.411
SRCPARAM T1B_M_6      4.962E-08     2.550        24     2.370
AREAVERT T1B_M_6      366885.524 3799153.037 366886.955 3799159.556
AREAVERT T1B_M_6      366899.676 3799159.556 366902.379 3799113.922
AREAVERT T1B_M_6      366899.199 3799113.922 366897.768 3799108.993
AREAVERT T1B_M_6      366895.542 3799106.131 366893.475 3799103.746
AREAVERT T1B_M_6      366889.659 3799102.315 366887.750 3799101.997
AREAVERT T1B_M_6      366886.001 3799102.156 366882.980 3799102.315
AREAVERT T1B_M_6      366879.323 3799105.336 366876.938 3799109.788
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   AREAVERT T1B_M_6      366875.507 3799114.876 366875.825 3799118.533
   AREAVERT T1B_M_6      366862.787 3799143.656 366864.377 3799144.928
   AREAVERT T1B_M_6      366867.716 3799148.426 366870.260 3799149.698
   AREAVERT T1B_M_6      366873.599 3799151.129 366874.871 3799151.765
   AREAVERT T1B_M_6      366879.800 3799152.083 366882.662 3799152.719
   URBANSRC ALL

** Variable Emissions Type: "By Hour / Seven Days (HRDOW7)"
** Variable Emission Scenario: "Scenario 1"
   EMISFACT T1A_1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_1        HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT T1A_1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_1        HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT T1A_1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_1        HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT T1A_1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_1        HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT T1A_1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_1        HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT T1A_1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_2        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_2        HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT T1A_2        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_2        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_2        HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT T1A_2        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_2        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_2        HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT T1A_2        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_2        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_2        HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT T1A_2        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_2        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_2        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_2        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_2        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_2        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_2        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_3        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_3        HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT T1A_3        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_3        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_3        HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT T1A_3        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_3        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_3        HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT T1A_3        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_3        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_3        HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT T1A_3        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_3        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_3        HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT T1A_3        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_3        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_3        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_3        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_3        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_3        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_3        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_4        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_4        HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT T1A_4        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_4        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_4        HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT T1A_4        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_4        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_4        HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT T1A_4        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_4        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_4        HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT T1A_4        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_4        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_4        HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT T1A_4        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_4        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_4        HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT T1A_4        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_4        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_4        HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT T1A_4        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_4        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_4        HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT T1A_4        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_4        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_4        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_4        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_4        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_4        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_4        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_4        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT T1A_5        HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT T1A_5        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_5        HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT T1A_5        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_5        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_5        HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT T1A_5        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_5        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_5        HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT T1A_5        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_5        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_5        HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT T1A_5        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_5        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_5        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_5        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_5        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_5        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_5        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_5        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_6        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT T1A_6        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_6        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_6        HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT T1A_6        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_6        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_6        HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT T1A_6        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_6        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_6        HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT T1A_6        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_6        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_6        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_6        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT T1A_7        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_7        HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT T1A_7        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_7        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_7        HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT T1A_7        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_7        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_7        HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT T1A_7        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_7        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_7        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT T1A_8        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_8        HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT T1A_8        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_8        HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT T1A_8        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_8        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_8        HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT T1A_8        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_8        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_8        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_8        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_8        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_8        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_8        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT T1B_UM_1     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT T1B_UM_1     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_1     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT T1B_UM_1     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_1     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT T1B_UM_1     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT T1B_UM_1     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_1     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_1     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_1     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_1     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_1     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_2     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_2     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT T1B_UM_2     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_2     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_2     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT T1B_UM_2     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT T1B_UM_2     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_2     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT T1B_UM_2     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_2     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_2     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT T1B_UM_2     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_2     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_2     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_2     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_2     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT T1B_UM_3     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT T1B_UM_3     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_3     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_3     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_3     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_4     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_4     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT T1B_UM_4     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_4     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_4     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT T1B_UM_4     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_4     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT T1B_UM_4     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_4     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_4     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT T1B_UM_4     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_4     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_4     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_4     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_4     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_4     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_5     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_5     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT T1B_UM_5     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_5     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_5     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT T1B_UM_5     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_5     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_5     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT T1B_UM_5     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_5     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_5     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT T1B_UM_5     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_5     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_5     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_5     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_5     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_5     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_6     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_6     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT T1B_UM_6     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT T1B_UM_6     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_6     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT T1B_UM_6     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_6     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_6     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT T1B_UM_6     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_6     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT T1B_UM_6     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_6     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT T1B_UM_6     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_6     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_6     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_M_1      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_M_1      HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT T1B_M_1      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT T1B_M_1      HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT T1B_M_1      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_M_1      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_M_1      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_M_1      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_M_2      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_M_2      HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT T1B_M_2      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_M_2      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_M_2      HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT T1B_M_2      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_M_2      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_M_2      HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT T1B_M_2      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_M_2      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_M_2      HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT T1B_M_2      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_M_2      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_M_2      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_M_2      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_M_2      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_M_3      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_M_3      HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT T1B_M_3      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_M_3      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_M_3      HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT T1B_M_3      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_M_3      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_M_3      HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT T1B_M_3      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_M_3      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_M_3      HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT T1B_M_3      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_M_3      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_M_3      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_M_3      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_M_3      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_M_3      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_M_4      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_M_4      HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT T1B_M_4      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_M_4      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_M_4      HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT T1B_M_4      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_M_4      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_M_4      HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT T1B_M_4      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_M_4      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_M_4      HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT T1B_M_4      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_M_4      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_M_4      HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT T1B_M_4      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1B_M_4      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1B_M_4      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1B_M_4      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1B_M_4      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1B_M_4      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1B_M_4      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1B_M_5      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1B_M_5      HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT T1B_M_5      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1B_M_5      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1B_M_5      HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT T1B_M_5      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1B_M_5      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1B_M_5      HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT T1B_M_5      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1B_M_5      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1B_M_5      HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT T1B_M_5      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1B_M_5      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1B_M_5      HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT T1B_M_5      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1B_M_5      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1B_M_5      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1B_M_5      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1B_M_5      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1B_M_5      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1B_M_6      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1B_M_6      HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT T1B_M_6      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1B_M_6      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1B_M_6      HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT T1B_M_6      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1B_M_6      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1B_M_6      HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT T1B_M_6      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1B_M_6      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1B_M_6      HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT T1B_M_6      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1B_M_6      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1B_M_6      HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT T1B_M_6      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT T1B_M_6      HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT T1B_M_6      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1B_M_6      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1B_M_6      HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT T1B_M_6      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1B_M_6      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1B_M_6      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1B_M_6      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1B_M_6      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1B_M_6      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   SRCGROUP TIER1A   T1A_1 T1A_2 T1A_3 T1A_4 T1A_5 T1A_6 T1A_7 T1A_8
   SRCGROUP TIER1BM  T1B_M_1 T1B_M_2 T1B_M_3 T1B_M_4 T1B_M_5 T1B_M_6
   SRCGROUP TIER1BUM T1B_UM_1 T1B_UM_2 T1B_UM_3 T1B_UM_4 T1B_UM_5 T1B_UM_6
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED OVMC_Construction_Elev.rou
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE ..\..\metdata\KBUR_V9_ADJU\KBUR_v9.SFC
   PROFFILE ..\..\metdata\KBUR_V9_ADJU\KBUR_v9.PFL
   SURFDATA 23152 2012
   UAIRDATA 3190 2012
   PROFBASE 236.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   PLOTFILE PERIOD TIER1A OVMC_CONSTRUCTION_ELEV.AD\OVMC_Construction_Elev_DPM_Tier1A.PLT 31
   PLOTFILE PERIOD TIER1BM OVMC_CONSTRUCTION_ELEV.AD\OVMC_Construction_Elev_DPM_Tier1BM.PLT 32
   PLOTFILE PERIOD TIER1BUM OVMC_CONSTRUCTION_ELEV.AD\OVMC_Construction_Elev_DPM_Tier1BUM.PLT 33
   SUMMFILE OVMC_Construction_Elev.sum
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
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A Total of            2 Warning Message(s)
A Total of            0 Informational Message(s)


   ******** FATAL ERROR MESSAGES ********
              ***  NONE  ***


   ********   WARNING MESSAGES   ********
ME W186     740       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
ME W187     740       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

**********************************
*** SETUP Finishes Successfully ***
**********************************
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                        ***   MODEL SETUP OPTIONS SUMMARY   ***
- -

**Model Is Setup For Calculation of Average CONCentration Values.

  -- DEPOSITION LOGIC --
**NO GAS DEPOSITION Data Provided.
**NO PARTICLE DEPOSITION Data Provided.
**Model Uses NO DRY DEPLETION. DRYDPLT = F
**Model Uses NO WET DEPLETION. WETDPLT = F

**Model Uses URBAN Dispersion Algorithm for the SBL for   20 Source(s),
  for Total of   1 Urban Area(s):
  Urban Population =   9818605.0 ; Urban Roughness Length = 1.000 m

**Model Uses Regulatory DEFAULT Options:
        1. Stack-tip Downwash.
        2. Model Accounts for ELEVated Terrain Effects.
        3. Use Calms Processing Routine.
        4. Use Missing Data Processing Routine.
        5. No Exponential Decay.
        6. Urban Roughness Length of 1.0 Meter Assumed.

**Other Options Specified:
        ADJ_U*   - Use ADJ_U* option for SBL in AERMET
        CCVR_Sub - Meteorological data includes CCVR substitutions
        TEMP_Sub - Meteorological data includes TEMP substitutions

**Model Assumes No FLAGPOLE Receptor Heights.

**The User Specified a Pollutant Type of: DPM

**Model Calculates PERIOD Averages Only

**This Run Includes: 20 Source(s);   4 Source Group(s); and   193 Receptor(s)

               with: 0 POINT(s), including
                          0 POINTCAP(s) and   0 POINTHOR(s)
                and: 0 VOLUME source(s)
                and: 20 AREA type source(s)
                and: 0 LINE source(s)
                and: 0 OPENPIT source(s)
                and: 0 BUOYANT LINE source(s) with   0 line(s)

**Model Set To Continue RUNning After the Setup Testing.

**The AERMET Input Meteorological Data Version Date: 16216

**Output Options Selected:
         Model Outputs Tables of PERIOD Averages by Receptor
         Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
         Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

**NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
                                                                m for Missing Hours
                                                                b for Both Calm and Missing Hours

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) =   236.00 ; Decay Coef. =   0.000   ; Rot. Angle =   0.0
                 Emission Units = GRAMS/SEC   ; Emission Rate Unit Factor =   0.10000E+07
                 Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =   3.6 MB of RAM.

**Input Runstream File: aermod.inp
**Output Print File: aermod.out

**Detailed Error/Message File: OVMC_Construction_Elev.err
**File for Summary of Results: OVMC_Construction_Elev.sum

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** AREAPOLY SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC /METER**2)	LOCATION OF AREA X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	NUMBER OF VERTS.	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
T1A_1	0	0.44090E-05	367101.7	3799472.6	454.2	2.55	9	2.37	YES	HRDOW7
T1A_2	0	0.44090E-05	367103.1	3799454.5	451.2	2.55	8	2.37	YES	HRDOW7
T1A_3	0	0.44090E-05	367113.5	3799413.3	449.4	2.55	9	2.37	YES	HRDOW7
T1A_4	0	0.44090E-05	367124.4	3799457.7	450.5	2.55	8	2.37	YES	HRDOW7
T1A_5	0	0.44090E-05	367135.9	3799436.3	449.8	2.55	8	2.37	YES	HRDOW7
T1A_6	0	0.44090E-05	367133.1	3799379.1	449.4	2.55	18	2.37	YES	HRDOW7
T1A_7	0	0.44090E-05	366994.5	3799413.4	450.0	2.55	9	2.37	YES	HRDOW7
T1A_8	0	0.44090E-05	366934.7	3799405.4	449.3	2.55	4	2.37	YES	HRDOW7
T1B_UM_1	0	0.16336E-05	366920.8	3799460.6	451.6	2.55	22	2.37	YES	HRDOW7
T1B_UM_2	0	0.16336E-05	366819.5	3799439.8	449.3	2.55	18	2.37	YES	HRDOW7
T1B_UM_3	0	0.16336E-05	366574.4	3799322.0	449.2	2.55	23	2.37	YES	HRDOW7
T1B_UM_4	0	0.16336E-05	366781.9	3799356.6	445.4	2.55	20	2.37	YES	HRDOW7
T1B_UM_5	0	0.16336E-05	366778.2	3799284.8	444.0	2.55	45	2.37	YES	HRDOW7
T1B_UM_6	0	0.16336E-05	366885.5	3799153.0	441.3	2.55	24	2.37	YES	HRDOW7
T1B_M_1	0	0.49620E-07	366920.8	3799460.6	451.6	2.55	22	2.37	YES	HRDOW7
T1B_M_2	0	0.49620E-07	366819.5	3799439.8	449.3	2.55	18	2.37	YES	HRDOW7
T1B_M_3	0	0.49620E-07	366574.4	3799322.0	449.2	2.55	23	2.37	YES	HRDOW7
T1B_M_4	0	0.49620E-07	366781.9	3799356.6	445.4	2.55	20	2.37	YES	HRDOW7
T1B_M_5	0	0.49620E-07	366778.2	3799284.8	444.0	2.55	45	2.37	YES	HRDOW7
T1B_M_6	0	0.49620E-07	366885.5	3799153.0	441.3	2.55	24	2.37	YES	HRDOW7

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
TIER1A	T1A_1 , T1A_2 , T1A_3 , T1A_4 , T1A_5 , T1A_6 , T1A_7 , T1A_8 ,
TIER1BM	T1B_M_1 , T1B_M_2 , T1B_M_3 , T1B_M_4 , T1B_M_5 , T1B_M_6 ,
TIER1BUM	T1B_UM_1 , T1B_UM_2 , T1B_UM_3 , T1B_UM_4 , T1B_UM_5 , T1B_UM_6 ,
ALL	T1A_1 , T1A_2 , T1A_3 , T1A_4 , T1A_5 , T1A_6 , T1A_7 , T1A_8 ,
	T1B_UM_1 , T1B_UM_2 , T1B_UM_3 , T1B_UM_4 , T1B_UM_5 , T1B_UM_6 , T1B_M_1 , T1B_M_2 ,
	T1B_M_3 , T1B_M_4 , T1B_M_5 , T1B_M_6 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
	9818605.	T1A_1 , T1A_2 , T1A_3 , T1A_4 , T1A_5 , T1A_6 , T1A_7 , T1A_8 ,
		T1B_UM_1 , T1B_UM_2 , T1B_UM_3 , T1B_UM_4 , T1B_UM_5 , T1B_UM_6 , T1B_M_1 , T1B_M_2 ,
		T1B_M_3 , T1B_M_4 , T1B_M_5 , T1B_M_6 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = T1A_1 ; SOURCE TYPE = AREAPOLY :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = TUESDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = WEDNESDY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = THURSDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = FRIDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = T1A_2 ; SOURCE TYPE = AREAPOLY :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = TUESDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = WEDNESDY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = THURSDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = FRIDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = T1A_3 ; SOURCE TYPE = AREAPOLY :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = TUESDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = WEDNESDY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = THURSDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = FRIDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = T1A_4 ; SOURCE TYPE = AREAPOLY :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = TUESDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = WEDNESDY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = THURSDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = FRIDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = T1A_5 ; SOURCE TYPE = AREAPOLY :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = TUESDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = WEDNESDY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = THURSDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = FRIDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = T1A_6 ; SOURCE TYPE = AREAPOLY :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = TUESDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = WEDNESDY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = THURSDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = FRIDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = T1A_7 ; SOURCE TYPE = AREAPOLY :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = TUESDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = WEDNESDY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = THURSDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = FRIDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = T1A_8 ; SOURCE TYPE = AREAPOLY :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = TUESDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = WEDNESDY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = THURSDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = FRIDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = T1B_UM_1 ; SOURCE TYPE = AREAPOLY :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = TUESDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = WEDNESDY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = THURSDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = FRIDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = T1B_UM_2 ; SOURCE TYPE = AREAPOLY :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = TUESDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = WEDNESDY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = THURSDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = FRIDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = T1B_UM_3 ; SOURCE TYPE = AREAPOLY :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = TUESDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = WEDNESDY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = THURSDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = FRIDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = T1B_UM_4 ; SOURCE TYPE = AREAPOLY :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = TUESDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = WEDNESDY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = THURSDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = FRIDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = T1B_UM_5 ; SOURCE TYPE = AREAPOLY :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = TUESDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = WEDNESDY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = THURSDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = FRIDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = T1B_UM_6 ; SOURCE TYPE = AREAPOLY :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = TUESDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = WEDNESDY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = THURSDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = FRIDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = T1B_M_1 ; SOURCE TYPE = AREAPOLY :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = TUESDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = WEDNESDY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = THURSDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = FRIDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = T1B_M_2 ; SOURCE TYPE = AREAPOLY :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = TUESDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = WEDNESDY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = THURSDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = FRIDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = T1B_M_3 ; SOURCE TYPE = AREAPOLY :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = TUESDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = WEDNESDY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = THURSDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = FRIDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = T1B_M_4 ; SOURCE TYPE = AREAPOLY :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = TUESDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = WEDNESDY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = THURSDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = FRIDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = T1B_M_5 ; SOURCE TYPE = AREAPOLY :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = TUESDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = WEDNESDY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = THURSDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = FRIDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = T1B_M_6 ; SOURCE TYPE = AREAPOLY :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = TUESDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = WEDNESDY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = THURSDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = FRIDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(367472.3,	3799121.8,	439.9,	690.0,	0.0);	(367469.4,	3799140.8,	440.0,	690.0,	0.0);
(367470.4,	3799156.9,	440.5,	690.0,	0.0);	(367472.3,	3799171.1,	441.0,	690.0,	0.0);
(367474.2,	3799185.3,	441.4,	690.0,	0.0);	(367475.1,	3799202.3,	442.3,	690.0,	0.0);
(367474.2,	3799217.5,	442.8,	690.0,	0.0);	(367476.1,	3799231.7,	443.7,	690.0,	0.0);
(367477.0,	3799246.8,	444.0,	690.0,	0.0);	(367474.2,	3799270.5,	445.7,	690.0,	0.0);
(367475.1,	3799283.8,	446.0,	690.0,	0.0);	(367475.1,	3799298.9,	446.5,	690.0,	0.0);
(367475.1,	3799314.1,	446.8,	690.0,	0.0);	(367475.1,	3799329.2,	446.9,	690.0,	0.0);
(367476.1,	3799343.4,	447.2,	690.0,	0.0);	(367497.8,	3799350.1,	447.5,	690.0,	0.0);
(367527.2,	3799373.8,	452.2,	690.0,	0.0);	(367525.3,	3799400.3,	452.9,	690.0,	0.0);
(367521.5,	3799441.9,	462.9,	690.0,	0.0);	(367512.0,	3799459.0,	464.0,	690.0,	0.0);
(367501.6,	3799475.1,	464.9,	690.0,	0.0);	(367492.2,	3799492.1,	465.9,	690.0,	0.0);
(367485.5,	3799518.7,	466.1,	690.0,	0.0);	(367734.7,	3799074.8,	449.5,	690.0,	0.0);
(367702.4,	3799074.8,	447.6,	690.0,	0.0);	(367676.8,	3799072.6,	446.8,	690.0,	0.0);
(367641.1,	3799073.7,	443.9,	690.0,	0.0);	(367591.0,	3799073.7,	443.4,	690.0,	0.0);
(367543.1,	3799070.4,	439.8,	690.0,	0.0);	(367467.3,	3799067.0,	438.2,	690.0,	0.0);
(367429.4,	3799058.1,	436.8,	690.0,	0.0);	(367401.6,	3799055.9,	435.9,	690.0,	0.0);
(367348.1,	3799059.2,	433.6,	690.0,	0.0);	(367367.0,	3799048.1,	433.4,	690.0,	0.0);
(367287.9,	3799063.7,	436.5,	690.0,	0.0);	(367329.1,	3799049.2,	433.4,	690.0,	0.0);
(367177.6,	3799048.1,	436.7,	690.0,	0.0);	(367106.3,	3799060.4,	437.5,	690.0,	0.0);
(367072.9,	3799055.9,	437.3,	690.0,	0.0);	(367055.0,	3799062.6,	437.6,	690.0,	0.0);
(367002.7,	3799057.0,	437.1,	690.0,	0.0);	(366905.7,	3799025.8,	435.1,	690.0,	0.0);
(367018.3,	3798993.5,	435.3,	690.0,	0.0);	(366971.5,	3798998.0,	434.8,	690.0,	0.0);
(367162.0,	3799024.7,	436.2,	690.0,	0.0);	(366833.3,	3798998.0,	433.1,	690.0,	0.0);
(366848.9,	3798962.3,	431.9,	690.0,	0.0);	(366866.7,	3798933.3,	431.7,	690.0,	0.0);
(366880.1,	3798905.5,	431.0,	690.0,	0.0);	(366896.8,	3798876.5,	431.3,	690.0,	0.0);
(366805.4,	3799008.0,	433.6,	690.0,	0.0);	(366792.1,	3799029.2,	435.2,	690.0,	0.0);
(366763.1,	3799030.3,	435.0,	690.0,	0.0);	(366730.8,	3799023.6,	434.3,	690.0,	0.0);
(366710.7,	3799022.5,	433.9,	690.0,	0.0);	(366686.2,	3799026.9,	434.0,	690.0,	0.0);
(366658.3,	3799025.8,	434.2,	690.0,	0.0);	(366612.7,	3799018.0,	432.7,	690.0,	0.0);
(366578.1,	3799015.8,	433.0,	690.0,	0.0);	(366902.3,	3799006.5,	434.6,	690.0,	0.0);
(366930.5,	3798998.4,	434.7,	690.0,	0.0);	(366941.0,	3798993.6,	434.6,	690.0,	0.0);
(366923.2,	3798975.1,	433.8,	690.0,	0.0);	(366991.7,	3798982.3,	434.4,	690.0,	0.0);
(367015.8,	3799008.9,	435.6,	690.0,	0.0);	(366977.2,	3798971.9,	433.9,	690.0,	0.0);
(367002.1,	3798965.4,	434.1,	690.0,	0.0);	(366993.3,	3798955.0,	433.7,	690.0,	0.0);
(366978.8,	3798942.1,	433.0,	690.0,	0.0);	(366952.2,	3798932.4,	432.2,	690.0,	0.0);
(366955.5,	3798913.1,	431.8,	690.0,	0.0);	(366818.6,	3798975.9,	432.5,	690.0,	0.0);
(366826.6,	3798961.4,	432.4,	690.0,	0.0);	(366833.9,	3798945.3,	432.2,	690.0,	0.0);
(366841.1,	3798930.0,	432.1,	690.0,	0.0);	(366847.6,	3798917.9,	431.5,	690.0,	0.0);
(366803.3,	3798969.5,	432.1,	690.0,	0.0);	(366792.8,	3798956.6,	432.1,	690.0,	0.0);
(366798.5,	3798995.2,	433.1,	690.0,	0.0);	(366784.8,	3798979.9,	433.3,	690.0,	0.0);
(366771.9,	3798966.2,	432.5,	690.0,	0.0);	(366760.6,	3798954.2,	432.4,	690.0,	0.0);
(366781.6,	3798937.3,	431.7,	690.0,	0.0);	(366797.7,	3798930.8,	431.9,	690.0,	0.0);
(366818.6,	3798918.8,	431.7,	690.0,	0.0);	(366827.5,	3798912.3,	431.4,	690.0,	0.0);
(366845.2,	3798900.2,	430.3,	690.0,	0.0);	(366858.8,	3798893.0,	430.1,	690.0,	0.0);
(366904.7,	3798862.4,	430.7,	690.0,	0.0);	(366755.8,	3799010.5,	433.9,	690.0,	0.0);

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(366772.7,	3799008.1,	434.6,	690.0,	0.0);	(366691.4,	3799007.3,	433.3,	690.0,	0.0);
(366671.3,	3799007.3,	432.9,	690.0,	0.0);	(366643.1,	3799005.7,	432.5,	690.0,	0.0);
(366695.4,	3798992.0,	433.2,	690.0,	0.0);	(366709.9,	3798996.8,	432.6,	690.0,	0.0);
(366730.8,	3798998.4,	433.9,	690.0,	0.0);	(366746.9,	3798995.2,	433.4,	690.0,	0.0);
(366712.3,	3798975.1,	432.5,	690.0,	0.0);	(366732.5,	3798976.7,	432.8,	690.0,	0.0);
(366746.1,	3798977.5,	432.5,	690.0,	0.0);	(367168.8,	3799016.2,	436.1,	690.0,	0.0);
(367153.6,	3799001.1,	435.8,	690.0,	0.0);	(367133.8,	3799002.3,	435.7,	690.0,	0.0);
(367144.3,	3798992.4,	435.5,	690.0,	0.0);	(367120.5,	3798992.4,	435.3,	690.0,	0.0);
(367108.2,	3798981.3,	434.9,	690.0,	0.0);	(367130.9,	3798983.1,	435.1,	690.0,	0.0);
(367083.8,	3798953.4,	434.1,	690.0,	0.0);	(367072.8,	3798944.7,	433.8,	690.0,	0.0);
(367067.5,	3798937.7,	433.7,	690.0,	0.0);	(367064.0,	3798928.4,	433.5,	690.0,	0.0);
(367103.6,	3798929.0,	433.0,	690.0,	0.0);	(367053.6,	3798920.3,	433.0,	690.0,	0.0);
(367025.1,	3798892.3,	431.7,	690.0,	0.0);	(367013.4,	3798879.5,	431.2,	690.0,	0.0);
(367054.2,	3798899.9,	432.4,	690.0,	0.0);	(367018.7,	3798871.4,	431.1,	690.0,	0.0);
(367005.3,	3798849.9,	430.1,	690.0,	0.0);	(366993.7,	3798839.4,	429.7,	690.0,	0.0);
(367114.1,	3798903.4,	432.3,	690.0,	0.0);	(367058.2,	3798869.1,	431.2,	690.0,	0.0);
(367103.0,	3798882.5,	431.5,	690.0,	0.0);	(367082.1,	3798914.4,	432.6,	690.0,	0.0);
(367061.7,	3798894.7,	432.0,	690.0,	0.0);	(367042.5,	3798887.7,	431.7,	690.0,	0.0);
(367006.5,	3798866.8,	430.8,	690.0,	0.0);	(367021.6,	3798841.7,	430.0,	690.0,	0.0);
(367029.7,	3798835.3,	429.9,	690.0,	0.0);	(367043.7,	3798858.0,	430.7,	690.0,	0.0);
(367084.4,	3798883.0,	431.7,	690.0,	0.0);	(367093.1,	3798891.2,	431.9,	690.0,	0.0);
(367098.9,	3798950.5,	433.9,	690.0,	0.0);	(366837.8,	3798982.5,	432.2,	690.0,	0.0);
(367082.1,	3798871.4,	431.2,	690.0,	0.0);	(367073.9,	3798862.7,	431.1,	690.0,	0.0);
(367063.5,	3799045.3,	436.9,	690.0,	0.0);	(366998.9,	3799039.5,	436.7,	690.0,	0.0);
(367061.7,	3798850.5,	430.7,	690.0,	0.0);	(367079.2,	3798850.5,	430.4,	690.0,	0.0);
(367118.1,	3798889.4,	431.7,	690.0,	0.0);	(367123.4,	3798878.4,	431.4,	690.0,	0.0);
(367139.1,	3798868.5,	431.2,	690.0,	0.0);	(367145.5,	3798858.0,	430.9,	690.0,	0.0);
(367101.8,	3798838.2,	430.1,	690.0,	0.0);	(367104.8,	3798862.7,	430.9,	690.0,	0.0);
(367096.0,	3798824.3,	429.6,	690.0,	0.0);	(367051.2,	3798849.3,	430.5,	690.0,	0.0);
(367062.9,	3798838.2,	430.3,	690.0,	0.0);	(367068.7,	3798833.6,	430.1,	690.0,	0.0);
(367076.8,	3798820.8,	429.7,	690.0,	0.0);	(367014.0,	3798819.6,	429.2,	690.0,	0.0);
(367024.5,	3798815.0,	429.1,	690.0,	0.0);	(367162.9,	3798990.1,	435.4,	690.0,	0.0);
(367140.2,	3798980.2,	435.1,	690.0,	0.0);	(367132.7,	3798965.6,	434.4,	690.0,	0.0);
(367159.4,	3798973.2,	434.7,	690.0,	0.0);	(367161.8,	3798962.1,	434.3,	690.0,	0.0);
(367149.5,	3798958.1,	434.0,	690.0,	0.0);	(367144.3,	3798948.8,	433.7,	690.0,	0.0);
(367197.8,	3798965.0,	434.2,	690.0,	0.0);	(367178.6,	3798942.9,	433.9,	690.0,	0.0);
(367171.6,	3798929.0,	433.2,	690.0,	0.0);	(367179.2,	3798924.3,	432.9,	690.0,	0.0);
(367228.7,	3798958.1,	433.6,	690.0,	0.0);	(367203.6,	3798938.3,	433.6,	690.0,	0.0);
(367207.7,	3798929.6,	433.4,	690.0,	0.0);	(367197.2,	3798916.2,	433.0,	690.0,	0.0);
(367218.8,	3798919.1,	433.0,	690.0,	0.0);	(367279.3,	3798961.0,	432.6,	690.0,	0.0);
(367281.6,	3799037.2,	434.7,	690.0,	0.0);	(367313.5,	3799050.2,	434.3,	690.0,	0.0);
(367310.8,	3799027.6,	433.5,	690.0,	0.0);	(367304.6,	3799043.4,	434.7,	690.0,	0.0);
(367319.7,	3799018.8,	433.5,	690.0,	0.0);	(367329.9,	3799007.1,	433.2,	690.0,	0.0);
(367336.1,	3798994.1,	433.3,	690.0,	0.0);	(367345.7,	3798986.6,	433.2,	690.0,	0.0);
(367345.7,	3798974.3,	433.3,	690.0,	0.0);	(367337.5,	3798961.3,	433.2,	690.0,	0.0);

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(	367360.7,	3798959.2,	432.9,	690.0,	0.0);	(	367359.4,	3798944.1,	433.0,	690.0,	0.0);
(	367366.9,	3799035.2,	433.2,	690.0,	0.0);	(	367373.7,	3799022.2,	433.2,	690.0,	0.0);
(	367381.3,	3799014.6,	433.2,	690.0,	0.0);	(	367382.6,	3799002.3,	433.0,	690.0,	0.0);
(	367360.7,	3799061.9,	433.8,	690.0,	0.0);	(	367390.8,	3798993.4,	433.0,	690.0,	0.0);
(	367398.4,	3798974.9,	432.8,	690.0,	0.0);	(	367400.4,	3799019.4,	433.8,	690.0,	0.0);
(	367388.1,	3799042.7,	433.8,	690.0,	0.0);	(	367420.3,	3799006.4,	435.6,	690.0,	0.0);
(	367440.8,	3799023.5,	436.9,	690.0,	0.0);						

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
(1=YES; 0=NO)

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1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
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NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
(METERS/SEC)

1.54,   3.09,   5.14,   8.23, 10.80,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: ..\..\metdata\KBUR_V9_ADJU\KBUR_v9.SFC Met Version: 16216
Profile file: ..\..\metdata\KBUR_V9_ADJU\KBUR_v9.PFL
Surface format: FREE
Profile format: FREE
Surface station no.: 23152 Upper air station no.: 3190
Name: UNKNOWN Name: UNKNOWN
Year: 2012 Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	HT
12	01	01	1	01	-23.4	0.241	-9.000	-9.000	-999.	285.	64.1	0.16	3.02	1.00	2.45	359.	7.9	286.4	2.0
12	01	01	1	02	-11.3	0.143	-9.000	-9.000	-999.	134.	23.1	0.16	3.02	1.00	1.50	289.	7.9	284.9	2.0
12	01	01	1	03	-4.8	0.092	-9.000	-9.000	-999.	68.	14.5	0.16	3.02	1.00	0.99	300.	7.9	283.8	2.0
12	01	01	1	04	-8.1	0.121	-9.000	-9.000	-999.	100.	19.1	0.16	3.02	1.00	1.28	295.	7.9	284.2	2.0
12	01	01	1	05	-2.9	0.074	-9.000	-9.000	-999.	49.	12.3	0.16	3.02	1.00	0.75	323.	7.9	282.5	2.0
12	01	01	1	06	-11.3	0.143	-9.000	-9.000	-999.	130.	23.0	0.16	3.02	1.00	1.50	306.	7.9	283.1	2.0
12	01	01	1	07	-16.9	0.176	-9.000	-9.000	-999.	178.	34.3	0.16	3.02	1.00	1.82	315.	7.9	284.9	2.0
12	01	01	1	08	-8.8	0.134	-9.000	-9.000	-999.	118.	24.3	0.16	3.02	0.55	1.40	323.	7.9	287.0	2.0
12	01	01	1	09	36.3	0.171	0.339	0.008	38.	169.	-12.2	0.16	3.02	0.32	1.31	23.	7.9	288.8	2.0
12	01	01	1	10	110.9	0.119	0.729	0.009	124.	99.	-1.4	0.16	3.02	0.24	0.62	163.	7.9	292.0	2.0
12	01	01	1	11	165.2	0.157	1.185	0.005	358.	149.	-2.1	0.16	3.02	0.21	0.89	112.	7.9	296.4	2.0
12	01	01	1	12	192.9	0.184	1.540	0.005	672.	189.	-2.8	0.16	3.02	0.20	1.11	225.	7.9	299.2	2.0
12	01	01	1	13	192.1	0.199	1.840	0.005	1152.	213.	-3.6	0.16	3.02	0.20	1.26	250.	7.9	299.9	2.0
12	01	01	1	14	164.6	0.270	1.886	0.005	1447.	337.	-10.6	0.16	3.02	0.21	2.03	273.	7.9	300.4	2.0
12	01	01	1	15	111.1	0.289	1.699	0.005	1566.	373.	-19.3	0.16	3.02	0.25	2.35	270.	7.9	300.4	2.0
12	01	01	1	16	35.3	0.338	1.167	0.005	1596.	472.	-96.9	0.16	3.02	0.33	3.12	289.	7.9	298.8	2.0
12	01	01	1	17	-20.8	0.255	-9.000	-9.000	-999.	312.	71.4	0.16	3.02	0.60	2.57	318.	7.9	296.4	2.0
12	01	01	1	18	-35.0	0.369	-9.000	-9.000	-999.	538.	149.9	0.16	3.02	1.00	3.68	320.	7.9	293.8	2.0
12	01	01	1	19	-27.7	0.291	-9.000	-9.000	-999.	380.	93.2	0.16	3.02	1.00	2.93	345.	7.9	292.0	2.0
12	01	01	1	20	-20.7	0.216	-9.000	-9.000	-999.	243.	51.2	0.16	3.02	1.00	2.20	325.	7.9	290.4	2.0
12	01	01	1	21	-8.5	0.124	-9.000	-9.000	-999.	108.	19.8	0.16	3.02	1.00	1.31	359.	7.9	288.1	2.0
12	01	01	1	22	-7.4	0.116	-9.000	-9.000	-999.	94.	18.4	0.16	3.02	1.00	1.23	304.	7.9	287.5	2.0
12	01	01	1	23	-6.3	0.106	-9.000	-9.000	-999.	82.	16.7	0.16	3.02	1.00	1.13	314.	7.9	285.9	2.0
12	01	01	1	24	-19.7	0.203	-9.000	-9.000	-999.	220.	45.5	0.16	3.02	1.00	2.08	319.	7.9	287.0	2.0

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
12	01	01	01	7.9	1	359.	2.45	286.5	99.0	-99.00	-99.00

F indicates top of profile (=1) or below (=0)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TIER1A ***
INCLUDING SOURCE(S): T1A_1 , T1A_2 , T1A_3 , T1A_4 , T1A_5 ,
T1A_6 , T1A_7 , T1A_8 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
367472.27	3799121.83	0.00092	367469.43	3799140.77	0.00099
367470.38	3799156.87	0.00105	367472.27	3799171.08	0.00109
367474.17	3799185.29	0.00114	367475.11	3799202.33	0.00120
367474.17	3799217.49	0.00127	367476.06	3799231.69	0.00133
367477.01	3799246.85	0.00139	367474.17	3799270.53	0.00153
367475.11	3799283.78	0.00160	367475.11	3799298.94	0.00168
367475.11	3799314.09	0.00176	367475.11	3799329.25	0.00184
367476.06	3799343.45	0.00191	367497.84	3799350.08	0.00172
367527.20	3799373.76	0.00152	367525.31	3799400.28	0.00160
367521.52	3799441.95	0.00161	367512.05	3799459.00	0.00170
367501.63	3799475.10	0.00180	367492.16	3799492.15	0.00190
367485.53	3799518.67	0.00196	367734.73	3799074.85	0.00037
367702.41	3799074.85	0.00041	367676.79	3799072.62	0.00043
367641.13	3799073.73	0.00048	367590.99	3799073.73	0.00055
367543.08	3799070.39	0.00063	367467.31	3799067.05	0.00078
367429.42	3799058.13	0.00083	367401.56	3799055.90	0.00088
367348.08	3799059.25	0.00100	367367.02	3799048.10	0.00091
367287.91	3799063.70	0.00113	367329.14	3799049.22	0.00098
367177.60	3799048.10	0.00101	367106.29	3799060.36	0.00101
367072.86	3799055.90	0.00094	367055.03	3799062.59	0.00095
367002.66	3799057.02	0.00084	366905.72	3799025.82	0.00058
367018.26	3798993.51	0.00059	366971.46	3798997.96	0.00056
367162.00	3799024.70	0.00086	366833.29	3798997.96	0.00044
366848.89	3798962.31	0.00040	366866.72	3798933.34	0.00036
366880.09	3798905.48	0.00033	366896.81	3798876.51	0.00030
366805.44	3799007.99	0.00043	366792.07	3799029.16	0.00045
366763.09	3799030.28	0.00041	366730.78	3799023.59	0.00036
366710.72	3799022.48	0.00033	366686.21	3799026.93	0.00031
366658.35	3799025.82	0.00028	366612.67	3799018.02	0.00023
366578.13	3799015.79	0.00020	366902.32	3799006.50	0.00052
366930.50	3798998.45	0.00053	366940.97	3798993.62	0.00053
366923.25	3798975.11	0.00047	366991.69	3798982.35	0.00054
367015.84	3799008.92	0.00064	366977.19	3798971.89	0.00050
367002.15	3798965.45	0.00050	366993.30	3798954.98	0.00047
366978.81	3798942.10	0.00043	366952.24	3798932.44	0.00040
366955.46	3798913.12	0.00037	366818.59	3798975.91	0.00039
366826.64	3798961.42	0.00038	366833.89	3798945.32	0.00036
366841.14	3798930.02	0.00035	366847.58	3798917.95	0.00034
366803.30	3798969.47	0.00037	366792.83	3798956.59	0.00035
366798.47	3798995.23	0.00040	366784.78	3798979.94	0.00037

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TIER1A ***
INCLUDING SOURCE(S): T1A_1 , T1A_2 , T1A_3 , T1A_4 , T1A_5 ,
T1A_6 , T1A_7 , T1A_8 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
366771.90	3798966.25	0.00035	366760.63	3798954.17	0.00032
366781.56	3798937.27	0.00032	366797.66	3798930.83	0.00033
366818.59	3798918.75	0.00032	366827.45	3798912.31	0.00032
366845.16	3798900.23	0.00031	366858.85	3798892.99	0.00031
366904.74	3798862.40	0.00029	366755.80	3799010.53	0.00038
366772.70	3799008.11	0.00039	366691.39	3799007.31	0.00030
366671.26	3799007.31	0.00028	366643.09	3799005.70	0.00025
366695.42	3798992.01	0.00030	366709.91	3798996.84	0.00031
366730.84	3798998.45	0.00034	366746.94	3798995.23	0.00035
366712.33	3798975.10	0.00030	366732.45	3798976.72	0.00032
366746.14	3798977.52	0.00033	367168.75	3799016.24	0.00083
367153.62	3799001.12	0.00075	367133.85	3799002.28	0.00073
367144.32	3798992.39	0.00070	367120.47	3798992.39	0.00068
367108.25	3798981.34	0.00063	367130.94	3798983.09	0.00066
367083.82	3798953.42	0.00053	367072.77	3798944.69	0.00050
367067.53	3798937.71	0.00048	367064.04	3798928.41	0.00045
367103.60	3798928.99	0.00048	367053.57	3798920.26	0.00043
367025.07	3798892.34	0.00036	367013.44	3798879.55	0.00034
367054.16	3798899.91	0.00039	367018.67	3798871.40	0.00033
367005.30	3798849.88	0.00030	366993.66	3798839.41	0.00028
367114.07	3798903.40	0.00043	367058.23	3798869.08	0.00034
367103.02	3798882.46	0.00039	367082.08	3798914.45	0.00043
367061.72	3798894.67	0.00039	367042.52	3798887.69	0.00036
367006.46	3798866.75	0.00032	367021.58	3798841.74	0.00029
367029.73	3798835.34	0.00029	367043.69	3798858.03	0.00032
367084.40	3798883.04	0.00038	367093.13	3798891.18	0.00040
367098.94	3798950.51	0.00053	366837.77	3798982.50	0.00042
367082.08	3798871.40	0.00036	367073.93	3798862.68	0.00034
367063.46	3799045.32	0.00086	366998.90	3799039.51	0.00075
367061.72	3798850.46	0.00032	367079.17	3798850.46	0.00033
367118.14	3798889.44	0.00041	367123.38	3798878.38	0.00039
367139.08	3798868.50	0.00038	367145.48	3798858.03	0.00037
367101.85	3798838.25	0.00032	367104.76	3798862.68	0.00035
367096.04	3798824.29	0.00030	367051.25	3798849.30	0.00031
367062.88	3798838.25	0.00030	367068.70	3798833.59	0.00030
367076.84	3798820.80	0.00029	367014.02	3798819.63	0.00027
367024.49	3798814.98	0.00027	367162.93	3798990.07	0.00071
367140.24	3798980.18	0.00065	367132.68	3798965.64	0.00060
367159.44	3798973.20	0.00065	367161.77	3798962.14	0.00061
367149.55	3798958.07	0.00059	367144.32	3798948.77	0.00056

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TIER1A ***
INCLUDING SOURCE(S): T1A_1 , T1A_2 , T1A_3 , T1A_4 , T1A_5 ,
T1A_6 , T1A_7 , T1A_8 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
367197.83	3798965.05	0.00065	367178.63	3798942.95	0.00057
367171.65	3798928.99	0.00053	367179.22	3798924.34	0.00052
367228.66	3798958.07	0.00064	367203.65	3798938.30	0.00057
367207.72	3798929.57	0.00055	367197.25	3798916.19	0.00051
367218.77	3798919.10	0.00053	367279.26	3798960.98	0.00066
367281.59	3799037.18	0.00097	367313.51	3799050.23	0.00101
367310.77	3799027.64	0.00090	367304.61	3799043.38	0.00099
367319.67	3799018.75	0.00086	367329.93	3799007.11	0.00080
367336.09	3798994.11	0.00075	367345.67	3798986.58	0.00072
367345.67	3798974.26	0.00068	367337.46	3798961.26	0.00065
367360.73	3798959.21	0.00063	367359.36	3798944.15	0.00059
367366.89	3799035.17	0.00086	367373.73	3799022.17	0.00081
367381.26	3799014.64	0.00077	367382.63	3799002.32	0.00073
367360.73	3799061.86	0.00099	367390.84	3798993.42	0.00070
367398.37	3798974.95	0.00064	367400.42	3799019.43	0.00076
367388.10	3799042.70	0.00086	367420.27	3799006.43	0.00070
367440.80	3799023.54	0.00071			

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TIER1BM ***
INCLUDING SOURCE(S): T1B_M_1 , T1B_M_2 , T1B_M_3 , T1B_M_4 , T1B_M_5 , T1B_M_6 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
367472.27	3799121.83	0.00003	367469.43	3799140.77	0.00003
367470.38	3799156.87	0.00003	367472.27	3799171.08	0.00003
367474.17	3799185.29	0.00003	367475.11	3799202.33	0.00003
367474.17	3799217.49	0.00003	367476.06	3799231.69	0.00003
367477.01	3799246.85	0.00003	367474.17	3799270.53	0.00004
367475.11	3799283.78	0.00004	367475.11	3799298.94	0.00004
367475.11	3799314.09	0.00004	367475.11	3799329.25	0.00004
367476.06	3799343.45	0.00004	367497.84	3799350.08	0.00004
367527.20	3799373.76	0.00003	367525.31	3799400.28	0.00003
367521.52	3799441.95	0.00003	367512.05	3799459.00	0.00003
367501.63	3799475.10	0.00004	367492.16	3799492.15	0.00004
367485.53	3799518.67	0.00004	367734.73	3799074.85	0.00001
367702.41	3799074.85	0.00001	367676.79	3799072.62	0.00002
367641.13	3799073.73	0.00002	367590.99	3799073.73	0.00002
367543.08	3799070.39	0.00002	367467.31	3799067.05	0.00003
367429.42	3799058.13	0.00003	367401.56	3799055.90	0.00003
367348.08	3799059.25	0.00004	367367.02	3799048.10	0.00003
367287.91	3799063.70	0.00004	367329.14	3799049.22	0.00004
367177.60	3799048.10	0.00006	367106.29	3799060.36	0.00009
367072.86	3799055.90	0.00010	367055.03	3799062.59	0.00012
367002.66	3799057.02	0.00015	366905.72	3799025.82	0.00013
367018.26	3798993.51	0.00008	366971.46	3798997.96	0.00009
367162.00	3799024.70	0.00006	366833.29	3798997.96	0.00007
366848.89	3798962.31	0.00005	366866.72	3798933.34	0.00005
366880.09	3798905.48	0.00004	366896.81	3798876.51	0.00003
366805.44	3799007.99	0.00007	366792.07	3799029.16	0.00008
366763.09	3799030.28	0.00007	366730.78	3799023.59	0.00006
366710.72	3799022.48	0.00006	366686.21	3799026.93	0.00005
366658.35	3799025.82	0.00005	366612.67	3799018.02	0.00004
366578.13	3799015.79	0.00003	366902.32	3799006.50	0.00010
366930.50	3798998.45	0.00009	366940.97	3798993.62	0.00009
366923.25	3798975.11	0.00007	366991.69	3798982.35	0.00008
367015.84	3799008.92	0.00009	366977.19	3798971.89	0.00007
367002.15	3798965.45	0.00007	366993.30	3798954.98	0.00006
366978.81	3798942.10	0.00006	366952.24	3798932.44	0.00005
366955.46	3798913.12	0.00005	366818.59	3798975.91	0.00006
366826.64	3798961.42	0.00005	366833.89	3798945.32	0.00005
366841.14	3798930.02	0.00004	366847.58	3798917.95	0.00004
366803.30	3798969.47	0.00005	366792.83	3798956.59	0.00005
366798.47	3798995.23	0.00006	366784.78	3798979.94	0.00005

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TIER1BM ***
INCLUDING SOURCE(S): T1B_M_1 , T1B_M_2 , T1B_M_3 , T1B_M_4 , T1B_M_5 , T1B_M_6 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
366771.90	3798966.25	0.00005	366760.63	3798954.17	0.00004
366781.56	3798937.27	0.00004	366797.66	3798930.83	0.00004
366818.59	3798918.75	0.00004	366827.45	3798912.31	0.00004
366845.16	3798900.23	0.00004	366858.85	3798892.99	0.00003
366904.74	3798862.40	0.00003	366755.80	3799010.53	0.00006
366772.70	3799008.11	0.00006	366691.39	3799007.31	0.00005
366671.26	3799007.31	0.00005	366643.09	3799005.70	0.00004
366695.42	3798992.01	0.00005	366709.91	3798996.84	0.00005
366730.84	3798998.45	0.00005	366746.94	3798995.23	0.00005
366712.33	3798975.10	0.00004	366732.45	3798976.72	0.00005
366746.14	3798977.52	0.00005	367168.75	3799016.24	0.00006
367153.62	3799001.12	0.00006	367133.85	3799002.28	0.00006
367144.32	3798992.39	0.00006	367120.47	3798992.39	0.00006
367108.25	3798981.34	0.00006	367130.94	3798983.09	0.00006
367083.82	3798953.42	0.00006	367072.77	3798944.69	0.00005
367067.53	3798937.71	0.00005	367064.04	3798928.41	0.00005
367103.60	3798928.99	0.00005	367053.57	3798920.26	0.00005
367025.07	3798892.34	0.00004	367013.44	3798879.55	0.00004
367054.16	3798899.91	0.00004	367018.67	3798871.40	0.00004
367005.30	3798849.88	0.00003	366993.66	3798839.41	0.00003
367114.07	3798903.40	0.00004	367058.23	3798869.08	0.00004
367103.02	3798882.46	0.00004	367082.08	3798914.45	0.00005
367061.72	3798894.67	0.00004	367042.52	3798887.69	0.00004
367006.46	3798866.75	0.00004	367021.58	3798841.74	0.00003
367029.73	3798835.34	0.00003	367043.69	3798858.03	0.00004
367084.40	3798883.04	0.00004	367093.13	3798891.18	0.00004
367098.94	3798950.51	0.00005	366837.77	3798982.50	0.00006
367082.08	3798871.40	0.00004	367073.93	3798862.68	0.00004
367063.46	3799045.32	0.00010	366998.90	3799039.51	0.00013
367061.72	3798850.46	0.00003	367079.17	3798850.46	0.00003
367118.14	3798889.44	0.00004	367123.38	3798878.38	0.00004
367139.08	3798868.50	0.00003	367145.48	3798858.03	0.00003
367101.85	3798838.25	0.00003	367104.76	3798862.68	0.00003
367096.04	3798824.29	0.00003	367051.25	3798849.30	0.00003
367062.88	3798838.25	0.00003	367068.70	3798833.59	0.00003
367076.84	3798820.80	0.00003	367014.02	3798819.63	0.00003
367024.49	3798814.98	0.00003	367162.93	3798990.07	0.00005
367140.24	3798980.18	0.00005	367132.68	3798965.64	0.00005
367159.44	3798973.20	0.00005	367161.77	3798962.14	0.00005
367149.55	3798958.07	0.00005	367144.32	3798948.77	0.00005

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TIER1BM ***
INCLUDING SOURCE(S): T1B_M_1 , T1B_M_2 , T1B_M_3 , T1B_M_4 , T1B_M_5 , T1B_M_6 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
367197.83	3798965.05	0.00004	367178.63	3798942.95	0.00004
367171.65	3798928.99	0.00004	367179.22	3798924.34	0.00004
367228.66	3798958.07	0.00004	367203.65	3798938.30	0.00004
367207.72	3798929.57	0.00004	367197.25	3798916.19	0.00004
367218.77	3798919.10	0.00003	367279.26	3798960.98	0.00003
367281.59	3799037.18	0.00004	367313.51	3799050.23	0.00004
367310.77	3799027.64	0.00004	367304.61	3799043.38	0.00004
367319.67	3799018.75	0.00004	367329.93	3799007.11	0.00003
367336.09	3798994.11	0.00003	367345.67	3798986.58	0.00003
367345.67	3798974.26	0.00003	367337.46	3798961.26	0.00003
367360.73	3798959.21	0.00003	367359.36	3798944.15	0.00003
367366.89	3799035.17	0.00003	367373.73	3799022.17	0.00003
367381.26	3799014.64	0.00003	367382.63	3799002.32	0.00003
367360.73	3799061.86	0.00003	367390.84	3798993.42	0.00003
367398.37	3798974.95	0.00003	367400.42	3799019.43	0.00003
367388.10	3799042.70	0.00003	367420.27	3799006.43	0.00003
367440.80	3799023.54	0.00003			

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TIER1BUM ***
INCLUDING SOURCE(S): T1B_UM_1 , T1B_UM_2 , T1B_UM_3 , T1B_UM_4 , T1B_UM_5 , T1B_UM_6 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
367472.27	3799121.83	0.00092	367469.43	3799140.77	0.00096
367470.38	3799156.87	0.00099	367472.27	3799171.08	0.00101
367474.17	3799185.29	0.00103	367475.11	3799202.33	0.00106
367474.17	3799217.49	0.00109	367476.06	3799231.69	0.00111
367477.01	3799246.85	0.00113	367474.17	3799270.53	0.00118
367475.11	3799283.78	0.00120	367475.11	3799298.94	0.00122
367475.11	3799314.09	0.00124	367475.11	3799329.25	0.00126
367476.06	3799343.45	0.00128	367497.84	3799350.08	0.00119
367527.20	3799373.76	0.00108	367525.31	3799400.28	0.00110
367521.52	3799441.95	0.00109	367512.05	3799459.00	0.00113
367501.63	3799475.10	0.00117	367492.16	3799492.15	0.00120
367485.53	3799518.67	0.00123	367734.73	3799074.85	0.00044
367702.41	3799074.85	0.00047	367676.79	3799072.62	0.00049
367641.13	3799073.73	0.00054	367590.99	3799073.73	0.00061
367543.08	3799070.39	0.00068	367467.31	3799067.05	0.00084
367429.42	3799058.13	0.00092	367401.56	3799055.90	0.00099
367348.08	3799059.25	0.00118	367367.02	3799048.10	0.00108
367287.91	3799063.70	0.00147	367329.14	3799049.22	0.00122
367177.60	3799048.10	0.00209	367106.29	3799060.36	0.00298
367072.86	3799055.90	0.00339	367055.03	3799062.59	0.00386
367002.66	3799057.02	0.00492	366905.72	3799025.82	0.00419
367018.26	3798993.51	0.00272	366971.46	3798997.96	0.00309
367162.00	3799024.70	0.00201	366833.29	3798997.96	0.00235
366848.89	3798962.31	0.00181	366866.72	3798933.34	0.00151
366880.09	3798905.48	0.00129	366896.81	3798876.51	0.00112
366805.44	3799007.99	0.00236	366792.07	3799029.16	0.00271
366763.09	3799030.28	0.00244	366730.78	3799023.59	0.00206
366710.72	3799022.48	0.00191	366686.21	3799026.93	0.00180
366658.35	3799025.82	0.00161	366612.67	3799018.02	0.00128
366578.13	3799015.79	0.00111	366902.32	3799006.50	0.00322
366930.50	3798998.45	0.00312	366940.97	3798993.62	0.00299
366923.25	3798975.11	0.00242	366991.69	3798982.35	0.00262
367015.84	3799008.92	0.00307	366977.19	3798971.89	0.00244
367002.15	3798965.45	0.00227	366993.30	3798954.98	0.00212
366978.81	3798942.10	0.00193	366952.24	3798932.44	0.00177
366955.46	3798913.12	0.00155	366818.59	3798975.91	0.00188
366826.64	3798961.42	0.00172	366833.89	3798945.32	0.00155
366841.14	3798930.02	0.00141	366847.58	3798917.95	0.00132
366803.30	3798969.47	0.00173	366792.83	3798956.59	0.00155
366798.47	3798995.23	0.00208	366784.78	3798979.94	0.00179

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TIER1BUM ***
INCLUDING SOURCE(S): T1B_UM_1 , T1B_UM_2 , T1B_UM_3 , T1B_UM_4 , T1B_UM_5 , T1B_UM_6 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
366771.90	3798966.25	0.00157	366760.63	3798954.17	0.00142
366781.56	3798937.27	0.00133	366797.66	3798930.83	0.00132
366818.59	3798918.75	0.00126	366827.45	3798912.31	0.00123
366845.16	3798900.23	0.00117	366858.85	3798892.99	0.00114
366904.74	3798862.40	0.00104	366755.80	3799010.53	0.00204
366772.70	3799008.11	0.00212	366691.39	3799007.31	0.00162
366671.26	3799007.31	0.00151	366643.09	3799005.70	0.00135
366695.42	3798992.01	0.00150	366709.91	3798996.84	0.00161
366730.84	3798998.45	0.00174	366746.94	3798995.23	0.00178
366712.33	3798975.10	0.00143	366732.45	3798976.72	0.00152
366746.14	3798977.52	0.00158	367168.75	3799016.24	0.00190
367153.62	3799001.12	0.00187	367133.85	3799002.28	0.00201
367144.32	3798992.39	0.00186	367120.47	3798992.39	0.00200
367108.25	3798981.34	0.00196	367130.94	3798983.09	0.00185
367083.82	3798953.42	0.00181	367072.77	3798944.69	0.00177
367067.53	3798937.71	0.00172	367064.04	3798928.41	0.00165
367103.60	3798928.99	0.00153	367053.57	3798920.26	0.00160
367025.07	3798892.34	0.00140	367013.44	3798879.55	0.00130
367054.16	3798899.91	0.00143	367018.67	3798871.40	0.00124
367005.30	3798849.88	0.00110	366993.66	3798839.41	0.00104
367114.07	3798903.40	0.00134	367058.23	3798869.08	0.00121
367103.02	3798882.46	0.00123	367082.08	3798914.45	0.00148
367061.72	3798894.67	0.00138	367042.52	3798887.69	0.00135
367006.46	3798866.75	0.00121	367021.58	3798841.74	0.00106
367029.73	3798835.34	0.00103	367043.69	3798858.03	0.00115
367084.40	3798883.04	0.00127	367093.13	3798891.18	0.00130
367098.94	3798950.51	0.00172	366837.77	3798982.50	0.00207
367082.08	3798871.40	0.00120	367073.93	3798862.68	0.00116
367063.46	3799045.32	0.00331	366998.90	3799039.51	0.00426
367061.72	3798850.46	0.00110	367079.17	3798850.46	0.00109
367118.14	3798889.44	0.00125	367123.38	3798878.38	0.00118
367139.08	3798868.50	0.00110	367145.48	3798858.03	0.00105
367101.85	3798838.25	0.00101	367104.76	3798862.68	0.00113
367096.04	3798824.29	0.00096	367051.25	3798849.30	0.00110
367062.88	3798838.25	0.00104	367068.70	3798833.59	0.00102
367076.84	3798820.80	0.00096	367014.02	3798819.63	0.00095
367024.49	3798814.98	0.00093	367162.93	3798990.07	0.00173
367140.24	3798980.18	0.00178	367132.68	3798965.64	0.00170
367159.44	3798973.20	0.00163	367161.77	3798962.14	0.00155
367149.55	3798958.07	0.00157	367144.32	3798948.77	0.00153

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TIER1BUM ***
INCLUDING SOURCE(S): T1B_UM_1 , T1B_UM_2 , T1B_UM_3 , T1B_UM_4 , T1B_UM_5 , T1B_UM_6 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
367197.83	3798965.05	0.00142	367178.63	3798942.95	0.00137
367171.65	3798928.99	0.00132	367179.22	3798924.34	0.00127
367228.66	3798958.07	0.00127	367203.65	3798938.30	0.00126
367207.72	3798929.57	0.00121	367197.25	3798916.19	0.00119
367218.77	3798919.10	0.00114	367279.26	3798960.98	0.00111
367281.59	3799037.18	0.00139	367313.51	3799050.23	0.00129
367310.77	3799027.64	0.00123	367304.61	3799043.38	0.00131
367319.67	3799018.75	0.00116	367329.93	3799007.11	0.00109
367336.09	3798994.11	0.00104	367345.67	3798986.58	0.00099
367345.67	3798974.26	0.00096	367337.46	3798961.26	0.00095
367360.73	3798959.21	0.00089	367359.36	3798944.15	0.00086
367366.89	3799035.17	0.00105	367373.73	3799022.17	0.00100
367381.26	3799014.64	0.00096	367382.63	3799002.32	0.00093
367360.73	3799061.86	0.00114	367390.84	3798993.42	0.00089
367398.37	3798974.95	0.00083	367400.42	3799019.43	0.00092
367388.10	3799042.70	0.00100	367420.27	3799006.43	0.00084
367440.80	3799023.54	0.00082			

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): T1A_1 , T1A_2 , T1A_3 , T1A_4 , T1A_5 ,
T1A_6 , T1A_7 , T1A_8 , T1B_UM_1 , T1B_UM_2 , T1B_UM_3 , T1B_UM_4 , T1B_UM_5 ,
T1B_UM_6 , T1B_M_1 , T1B_M_2 , T1B_M_3 , T1B_M_4 , T1B_M_5 , T1B_M_6 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
367472.27	3799121.83	0.00187	367469.43	3799140.77	0.00198
367470.38	3799156.87	0.00206	367472.27	3799171.08	0.00213
367474.17	3799185.29	0.00220	367475.11	3799202.33	0.00229
367474.17	3799217.49	0.00240	367476.06	3799231.69	0.00247
367477.01	3799246.85	0.00256	367474.17	3799270.53	0.00275
367475.11	3799283.78	0.00283	367475.11	3799298.94	0.00293
367475.11	3799314.09	0.00304	367475.11	3799329.25	0.00314
367476.06	3799343.45	0.00322	367497.84	3799350.08	0.00294
367527.20	3799373.76	0.00263	367525.31	3799400.28	0.00274
367521.52	3799441.95	0.00273	367512.05	3799459.00	0.00286
367501.63	3799475.10	0.00300	367492.16	3799492.15	0.00313
367485.53	3799518.67	0.00322	367734.73	3799074.85	0.00082
367702.41	3799074.85	0.00089	367676.79	3799072.62	0.00094
367641.13	3799073.73	0.00104	367590.99	3799073.73	0.00118
367543.08	3799070.39	0.00134	367467.31	3799067.05	0.00164
367429.42	3799058.13	0.00178	367401.56	3799055.90	0.00190
367348.08	3799059.25	0.00222	367367.02	3799048.10	0.00203
367287.91	3799063.70	0.00264	367329.14	3799049.22	0.00224
367177.60	3799048.10	0.00317	367106.29	3799060.36	0.00408
367072.86	3799055.90	0.00443	367055.03	3799062.59	0.00493
367002.66	3799057.02	0.00591	366905.72	3799025.82	0.00489
367018.26	3798993.51	0.00339	366971.46	3798997.96	0.00375
367162.00	3799024.70	0.00294	366833.29	3798997.96	0.00286
366848.89	3798962.31	0.00226	366866.72	3798933.34	0.00192
366880.09	3798905.48	0.00166	366896.81	3798876.51	0.00145
366805.44	3799007.99	0.00286	366792.07	3799029.16	0.00324
366763.09	3799030.28	0.00292	366730.78	3799023.59	0.00248
366710.72	3799022.48	0.00230	366686.21	3799026.93	0.00216
366658.35	3799025.82	0.00194	366612.67	3799018.02	0.00155
366578.13	3799015.79	0.00134	366902.32	3799006.50	0.00384
366930.50	3798998.45	0.00374	366940.97	3798993.62	0.00361
366923.25	3798975.11	0.00297	366991.69	3798982.35	0.00324
367015.84	3799008.92	0.00381	366977.19	3798971.89	0.00301
367002.15	3798965.45	0.00284	366993.30	3798954.98	0.00265
366978.81	3798942.10	0.00243	366952.24	3798932.44	0.00223
366955.46	3798913.12	0.00197	366818.59	3798975.91	0.00233
366826.64	3798961.42	0.00215	366833.89	3798945.32	0.00196
366841.14	3798930.02	0.00180	366847.58	3798917.95	0.00169
366803.30	3798969.47	0.00215	366792.83	3798956.59	0.00194
366798.47	3798995.23	0.00254	366784.78	3798979.94	0.00221

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): T1A_1 , T1A_2 , T1A_3 , T1A_4 , T1A_5 ,
T1A_6 , T1A_7 , T1A_8 , T1B_UM_1 , T1B_UM_2 , T1B_UM_3 , T1B_UM_4 , T1B_UM_5 ,
T1B_UM_6 , T1B_M_1 , T1B_M_2 , T1B_M_3 , T1B_M_4 , T1B_M_5 , T1B_M_6 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
366771.90	3798966.25	0.00197	366760.63	3798954.17	0.00179
366781.56	3798937.27	0.00170	366797.66	3798930.83	0.00169
366818.59	3798918.75	0.00163	366827.45	3798912.31	0.00159
366845.16	3798900.23	0.00152	366858.85	3798892.99	0.00149
366904.74	3798862.40	0.00137	366755.80	3799010.53	0.00248
366772.70	3799008.11	0.00258	366691.39	3799007.31	0.00197
366671.26	3799007.31	0.00184	366643.09	3799005.70	0.00164
366695.42	3798992.01	0.00184	366709.91	3798996.84	0.00197
366730.84	3798998.45	0.00213	366746.94	3798995.23	0.00219
366712.33	3798975.10	0.00177	366732.45	3798976.72	0.00189
366746.14	3798977.52	0.00197	367168.75	3799016.24	0.00279
367153.62	3799001.12	0.00268	367133.85	3799002.28	0.00280
367144.32	3798992.39	0.00262	367120.47	3798992.39	0.00274
367108.25	3798981.34	0.00265	367130.94	3798983.09	0.00257
367083.82	3798953.42	0.00239	367072.77	3798944.69	0.00232
367067.53	3798937.71	0.00225	367064.04	3798928.41	0.00215
367103.60	3798928.99	0.00206	367053.57	3798920.26	0.00207
367025.07	3798892.34	0.00180	367013.44	3798879.55	0.00168
367054.16	3798899.91	0.00186	367018.67	3798871.40	0.00161
367005.30	3798849.88	0.00144	366993.66	3798839.41	0.00135
367114.07	3798903.40	0.00181	367058.23	3798869.08	0.00159
367103.02	3798882.46	0.00166	367082.08	3798914.45	0.00196
367061.72	3798894.67	0.00180	367042.52	3798887.69	0.00175
367006.46	3798866.75	0.00157	367021.58	3798841.74	0.00139
367029.73	3798835.34	0.00135	367043.69	3798858.03	0.00151
367084.40	3798883.04	0.00168	367093.13	3798891.18	0.00174
367098.94	3798950.51	0.00230	366837.77	3798982.50	0.00256
367082.08	3798871.40	0.00160	367073.93	3798862.68	0.00154
367063.46	3799045.32	0.00427	366998.90	3799039.51	0.00513
367061.72	3798850.46	0.00146	367079.17	3798850.46	0.00145
367118.14	3798889.44	0.00169	367123.38	3798878.38	0.00160
367139.08	3798868.50	0.00152	367145.48	3798858.03	0.00145
367101.85	3798838.25	0.00137	367104.76	3798862.68	0.00152
367096.04	3798824.29	0.00129	367051.25	3798849.30	0.00145
367062.88	3798838.25	0.00138	367068.70	3798833.59	0.00135
367076.84	3798820.80	0.00127	367014.02	3798819.63	0.00125
367024.49	3798814.98	0.00123	367162.93	3798990.07	0.00250
367140.24	3798980.18	0.00249	367132.68	3798965.64	0.00235
367159.44	3798973.20	0.00233	367161.77	3798962.14	0.00221
367149.55	3798958.07	0.00221	367144.32	3798948.77	0.00214

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): T1A_1 , T1A_2 , T1A_3 , T1A_4 , T1A_5 ,
T1A_6 , T1A_7 , T1A_8 , T1B_UM_1 , T1B_UM_2 , T1B_UM_3 , T1B_UM_4 , T1B_UM_5 ,
T1B_UM_6 , T1B_M_1 , T1B_M_2 , T1B_M_3 , T1B_M_4 , T1B_M_5 , T1B_M_6 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
367197.83	3798965.05	0.00211	367178.63	3798942.95	0.00198
367171.65	3798928.99	0.00189	367179.22	3798924.34	0.00183
367228.66	3798958.07	0.00195	367203.65	3798938.30	0.00187
367207.72	3798929.57	0.00180	367197.25	3798916.19	0.00173
367218.77	3798919.10	0.00170	367279.26	3798960.98	0.00181
367281.59	3799037.18	0.00240	367313.51	3799050.23	0.00234
367310.77	3799027.64	0.00217	367304.61	3799043.38	0.00233
367319.67	3799018.75	0.00205	367329.93	3799007.11	0.00193
367336.09	3798994.11	0.00182	367345.67	3798986.58	0.00174
367345.67	3798974.26	0.00167	367337.46	3798961.26	0.00163
367360.73	3798959.21	0.00154	367359.36	3798944.15	0.00148
367366.89	3799035.17	0.00194	367373.73	3799022.17	0.00183
367381.26	3799014.64	0.00176	367382.63	3799002.32	0.00168
367360.73	3799061.86	0.00216	367390.84	3798993.42	0.00161
367398.37	3798974.95	0.00150	367400.42	3799019.43	0.00170
367388.10	3799042.70	0.00189	367420.27	3799006.43	0.00156
367440.80	3799023.54	0.00156			

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (43848 HRS) RESULTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
TIER1A	1ST HIGHEST VALUE IS	0.00196 AT (367485.53, 3799518.67, 466.12, 690.05, 0.00)	DC	
	2ND HIGHEST VALUE IS	0.00191 AT (367476.06, 3799343.45, 447.18, 690.05, 0.00)	DC	
	3RD HIGHEST VALUE IS	0.00190 AT (367492.16, 3799492.15, 465.90, 690.05, 0.00)	DC	
	4TH HIGHEST VALUE IS	0.00184 AT (367475.11, 3799329.25, 446.95, 690.05, 0.00)	DC	
	5TH HIGHEST VALUE IS	0.00180 AT (367501.63, 3799475.10, 464.94, 690.05, 0.00)	DC	
	6TH HIGHEST VALUE IS	0.00176 AT (367475.11, 3799314.09, 446.79, 690.05, 0.00)	DC	
	7TH HIGHEST VALUE IS	0.00172 AT (367497.84, 3799350.08, 447.49, 690.05, 0.00)	DC	
	8TH HIGHEST VALUE IS	0.00170 AT (367512.05, 3799459.00, 463.98, 690.05, 0.00)	DC	
	9TH HIGHEST VALUE IS	0.00168 AT (367475.11, 3799298.94, 446.47, 690.05, 0.00)	DC	
	10TH HIGHEST VALUE IS	0.00161 AT (367521.52, 3799441.95, 462.92, 690.05, 0.00)	DC	
TIER1BM	1ST HIGHEST VALUE IS	0.00015 AT (367002.66, 3799057.02, 437.11, 690.05, 0.00)	DC	
	2ND HIGHEST VALUE IS	0.00013 AT (366998.90, 3799039.51, 436.68, 690.05, 0.00)	DC	
	3RD HIGHEST VALUE IS	0.00013 AT (366905.72, 3799025.82, 435.07, 690.05, 0.00)	DC	
	4TH HIGHEST VALUE IS	0.00012 AT (367055.03, 3799062.59, 437.56, 690.05, 0.00)	DC	
	5TH HIGHEST VALUE IS	0.00010 AT (367072.86, 3799055.90, 437.30, 690.05, 0.00)	DC	
	6TH HIGHEST VALUE IS	0.00010 AT (367063.46, 3799045.32, 436.95, 690.05, 0.00)	DC	
	7TH HIGHEST VALUE IS	0.00010 AT (366902.32, 3799006.50, 434.60, 690.05, 0.00)	DC	
	8TH HIGHEST VALUE IS	0.00009 AT (366930.50, 3798998.45, 434.74, 690.05, 0.00)	DC	
	9TH HIGHEST VALUE IS	0.00009 AT (366971.46, 3798997.96, 434.77, 690.05, 0.00)	DC	
	10TH HIGHEST VALUE IS	0.00009 AT (367015.84, 3799008.92, 435.61, 690.05, 0.00)	DC	
TIER1BUM	1ST HIGHEST VALUE IS	0.00492 AT (367002.66, 3799057.02, 437.11, 690.05, 0.00)	DC	
	2ND HIGHEST VALUE IS	0.00426 AT (366998.90, 3799039.51, 436.68, 690.05, 0.00)	DC	
	3RD HIGHEST VALUE IS	0.00419 AT (366905.72, 3799025.82, 435.07, 690.05, 0.00)	DC	
	4TH HIGHEST VALUE IS	0.00386 AT (367055.03, 3799062.59, 437.56, 690.05, 0.00)	DC	
	5TH HIGHEST VALUE IS	0.00339 AT (367072.86, 3799055.90, 437.30, 690.05, 0.00)	DC	
	6TH HIGHEST VALUE IS	0.00331 AT (367063.46, 3799045.32, 436.95, 690.05, 0.00)	DC	
	7TH HIGHEST VALUE IS	0.00322 AT (366902.32, 3799006.50, 434.60, 690.05, 0.00)	DC	
	8TH HIGHEST VALUE IS	0.00312 AT (366930.50, 3798998.45, 434.74, 690.05, 0.00)	DC	
	9TH HIGHEST VALUE IS	0.00309 AT (366971.46, 3798997.96, 434.77, 690.05, 0.00)	DC	
	10TH HIGHEST VALUE IS	0.00307 AT (367015.84, 3799008.92, 435.61, 690.05, 0.00)	DC	
ALL	1ST HIGHEST VALUE IS	0.00591 AT (367002.66, 3799057.02, 437.11, 690.05, 0.00)	DC	
	2ND HIGHEST VALUE IS	0.00513 AT (366998.90, 3799039.51, 436.68, 690.05, 0.00)	DC	
	3RD HIGHEST VALUE IS	0.00493 AT (367055.03, 3799062.59, 437.56, 690.05, 0.00)	DC	
	4TH HIGHEST VALUE IS	0.00489 AT (366905.72, 3799025.82, 435.07, 690.05, 0.00)	DC	
	5TH HIGHEST VALUE IS	0.00443 AT (367072.86, 3799055.90, 437.30, 690.05, 0.00)	DC	
	6TH HIGHEST VALUE IS	0.00427 AT (367063.46, 3799045.32, 436.95, 690.05, 0.00)	DC	
	7TH HIGHEST VALUE IS	0.00408 AT (367106.29, 3799060.36, 437.47, 690.05, 0.00)	DC	
	8TH HIGHEST VALUE IS	0.00384 AT (366902.32, 3799006.50, 434.60, 690.05, 0.00)	DC	
	9TH HIGHEST VALUE IS	0.00381 AT (367015.84, 3799008.92, 435.61, 690.05, 0.00)	DC	
	10TH HIGHEST VALUE IS	0.00375 AT (366971.46, 3798997.96, 434.77, 690.05, 0.00)	DC	

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** Message Summary : AERMOD Model Execution ***

 --------- Summary of Total Messages --------

A Total of   0 Fatal Error Message(s)
A Total of   2 Warning Message(s)
A Total of   713 Informational Message(s)

A Total of   43848 Hours Were Processed

A Total of   519 Calm Hours Identified

A Total of   194 Missing Hours Identified (0.44 Percent)

   ******** FATAL ERROR MESSAGES ********
              *** NONE ***

   ********   WARNING MESSAGES   ********
ME W186   740   MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used   0.50
ME W187   740   MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

   ****
   *** AERMOD Finishes Successfully ***
   ****

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** Lakes Environmental AERMOD MPI
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**
** AERMOD Input Produced by:
** AERMOD View Ver. 9.6.5
** Lakes Environmental Software Inc.
** Date: 4/3/2019
** File: C:\project_files\Olive_View\AERMOD\OVMC_Construction_Flat\OVMC_Construction_Flat.ADI
**
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** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE Olive View UCLA Medical Center: Construction DPM concentration
   TITLETWO FLAT Option
   MODELOPT CONC FLAT
   AVERTIME PERIOD
   URBANOPT 9818605
   POLLUTID DPM
   RUNORNOT RUN
   ERRORFIL OVMC_Construction_Flat.err
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION T1A_1        AREAPOLY   367101.744  3799472.640          0.0
** DESCRSRC Tier 1A: Residential Treatment 1
   LOCATION T1A_2        AREAPOLY   367103.122  3799454.497          0.0
** DESCRSRC Tier 1A: Residential Treatment 2
   LOCATION T1A_3        AREAPOLY   367113.451  3799413.347          0.0
** DESCRSRC Tier 1A: Residential Treatment 3
   LOCATION T1A_4        AREAPOLY   367124.440  3799457.687          0.0
** DESCRSRC Tier 1A: Residential Treatment 4
   LOCATION T1A_5        AREAPOLY   367135.919  3799436.298          0.0
** DESCRSRC Tier 1A: Residential Treatment 5
   LOCATION T1A_6        AREAPOLY   367133.070  3799379.087          0.0
** DESCRSRC Tier 1A: Recuperative Care Center
   LOCATION T1A_7        AREAPOLY   366994.462  3799413.385          0.0
** DESCRSRC Tier 1A: Psych Urgent Care
   LOCATION T1A_8        AREAPOLY   366934.668  3799405.359          0.0
** DESCRSRC Tier 1A: Mental Health Wellness Center
   LOCATION T1B_UM_1     AREAPOLY   366920.768  3799460.598          0.0
** DESCRSRC Tier 1B - Unmitigated: Administration
   LOCATION T1B_UM_2     AREAPOLY   366819.539  3799439.778          0.0
** DESCRSRC Tier 1B - Unmitigated: Central Plant East
   LOCATION T1B_UM_3     AREAPOLY   366574.399  3799321.960          0.0
** DESCRSRC Tier 1B - Unmitigated: Material Management
   LOCATION T1B_UM_4     AREAPOLY   366781.937  3799356.625          0.0
** DESCRSRC Tier 1B - Unmitigated: Parking Structure
   LOCATION T1B_UM_5     AREAPOLY   366778.172  3799284.843          0.0
** DESCRSRC Tier 1B - Unmitigated: Ambulatory Care Center
   LOCATION T1B_UM_6     AREAPOLY   366885.524  3799153.037          0.0
** DESCRSRC Tier 1B - Unmitigated: Community Center
   LOCATION T1B_M_1      AREAPOLY   366920.768  3799460.598          0.0
** DESCRSRC Tier 1B - Mitigated: Administration
   LOCATION T1B_M_2      AREAPOLY   366819.539  3799439.778          0.0
** DESCRSRC Tier 1B - Mitigated: Central Plant East
   LOCATION T1B_M_3      AREAPOLY   366574.399  3799321.960          0.0
** DESCRSRC Tier 1B - Mitigated: Material Management
   LOCATION T1B_M_4      AREAPOLY   366781.937  3799356.625          0.0
** DESCRSRC Tier 1B - Mitigated: Parking Structure
   LOCATION T1B_M_5      AREAPOLY   366778.172  3799284.843          0.0
** DESCRSRC Tier 1B - Mitigated: Ambulatory Care Center
   LOCATION T1B_M_6      AREAPOLY   366885.524  3799153.037          0.0
** DESCRSRC Tier 1B - Mitigated: Community Center
** Source Parameters **
   SRCPARAM T1A_1        4.409E-06     2.550         9     2.370
   AREAVERT T1A_1        367101.744 3799472.640 367117.016 3799477.807
   AREAVERT T1A_1        367117.131 3799481.023 367126.088 3799483.664
   AREAVERT T1A_1        367126.662 3799481.712 367130.222 3799482.056
   AREAVERT T1A_1        367134.011 3799469.539 367134.011 3799469.425
   AREAVERT T1A_1        367105.993 3799460.353
   SRCPARAM T1A_2        4.409E-06     2.550         8     2.370
   AREAVERT T1A_2        367103.122 3799454.497 367113.457 3799458.056
   AREAVERT T1A_2        367123.102 3799428.889 367112.653 3799425.444
   AREAVERT T1A_2        367111.619 3799428.430 367108.978 3799427.167
   AREAVERT T1A_2        367105.763 3799436.813 367108.519 3799437.846
   SRCPARAM T1A_3        4.409E-06     2.550         9     2.370
   AREAVERT T1A_3        367113.451 3799413.347 367117.160 3799414.421
   AREAVERT T1A_3        367116.477 3799416.861 367127.604 3799420.277
   AREAVERT T1A_3        367135.900 3799393.533 367135.900 3799393.337
   AREAVERT T1A_3        367124.871 3799389.921 367119.990 3799405.343
   AREAVERT T1A_3        367117.257 3799404.367
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SRCPARAM T1A_4        4.409E-06     2.550         8     2.370
AREAVERT T1A_4        367124.440 3799457.687 367153.147 3799467.643
AREAVERT T1A_4        367157.130 3799456.774 367141.615 3799451.381
AREAVERT T1A_4        367142.361 3799447.979 367132.156 3799444.163
AREAVERT T1A_4        367131.161 3799447.233 367128.672 3799446.652
SRCPARAM T1A_5        4.409E-06     2.550         8     2.370
AREAVERT T1A_5        367135.919 3799436.298 367145.651 3799439.471
AREAVERT T1A_5        367146.568 3799437.073 367149.389 3799437.849
AREAVERT T1A_5        367152.069 3799429.598 367149.459 3799428.328
AREAVERT T1A_5        367154.537 3799413.307 367144.875 3799410.063
SRCPARAM T1A_6        4.409E-06     2.550        18     2.370
AREAVERT T1A_6        367133.070 3799379.087 367143.026 3799382.210
AREAVERT T1A_6        367147.906 3799367.667 367143.611 3799366.593
AREAVERT T1A_6        367145.856 3799359.566 367149.565 3799360.737
AREAVERT T1A_6        367161.376 3799330.674 367157.471 3799329.503
AREAVERT T1A_6        367158.447 3799326.477 367154.153 3799324.525
AREAVERT T1A_6        367153.274 3799326.867 367149.175 3799325.598
AREAVERT T1A_6        367138.145 3799357.223 367135.315 3799356.345
AREAVERT T1A_6        367132.777 3799363.763 367134.534 3799364.348
AREAVERT T1A_6        367131.118 3799374.987 367133.753 3799375.866
SRCPARAM T1A_7        4.409E-06     2.550         9     2.370
AREAVERT T1A_7        366994.462 3799413.385 367014.100 3799413.271
AREAVERT T1A_7        367016.053 3799408.677 367016.627 3799395.814
AREAVERT T1A_7        367010.655 3799395.240 367008.703 3799377.899
AREAVERT T1A_7        366987.916 3799379.506 366989.064 3799402.131
AREAVERT T1A_7        366993.888 3799402.705
SRCPARAM T1A_8        4.409E-06     2.550         4     2.370
AREAVERT T1A_8        366934.668 3799405.359 366971.132 3799401.692
AREAVERT T1A_8        366969.016 3799380.604 366932.482 3799384.412
SRCPARAM T1B_UM_1     1.6336E-06     2.550        22     2.370
AREAVERT T1B_UM_1     366920.768 3799460.598 366937.600 3799463.965
AREAVERT T1B_UM_1     366948.260 3799466.022 366957.798 3799468.079
AREAVERT T1B_UM_1     366961.725 3799468.827 366971.076 3799472.007
AREAVERT T1B_UM_1     366985.290 3799476.308 366997.259 3799480.235
AREAVERT T1B_UM_1     367003.805 3799482.480 367015.213 3799456.671
AREAVERT T1B_UM_1     367003.057 3799451.995 366997.259 3799449.751
AREAVERT T1B_UM_1     366994.454 3799448.442 366980.801 3799444.328
AREAVERT T1B_UM_1     366971.824 3799441.709 366960.790 3799439.278
AREAVERT T1B_UM_1     366945.080 3799435.725 366938.161 3799433.855
AREAVERT T1B_UM_1     366930.306 3799432.171 366925.069 3799430.862
AREAVERT T1B_UM_1     366921.703 3799455.362 366920.394 3799461.346
SRCPARAM T1B_UM_2     1.6336E-06     2.550        18     2.370
AREAVERT T1B_UM_2     366819.539 3799439.778 366828.704 3799442.770
AREAVERT T1B_UM_2     366840.112 3799445.950 366849.277 3799448.568
AREAVERT T1B_UM_2     366857.319 3799450.813 366866.109 3799453.057
AREAVERT T1B_UM_2     366874.152 3799454.740 366881.072 3799456.610
AREAVERT T1B_UM_2     366889.675 3799458.855 366896.034 3799426.686
AREAVERT T1B_UM_2     366888.740 3799424.816 366875.087 3799422.010
AREAVERT T1B_UM_2     366864.800 3799419.766 366859.563 3799418.831
AREAVERT T1B_UM_2     366855.636 3799417.709 366846.845 3799414.903
AREAVERT T1B_UM_2     366840.299 3799412.659 366830.387 3799409.666
SRCPARAM T1B_UM_3     1.6336E-06     2.550        23     2.370
AREAVERT T1B_UM_3     366574.399 3799321.960 366582.189 3799324.185
AREAVERT T1B_UM_3     366590.297 3799326.411 366596.179 3799328.001
AREAVERT T1B_UM_3     366602.220 3799329.750 366604.287 3799330.386
AREAVERT T1B_UM_3     366611.759 3799333.406 366623.842 3799338.176
AREAVERT T1B_UM_3     366636.560 3799343.263 366646.576 3799347.397
AREAVERT T1B_UM_3     366654.048 3799350.894 366661.361 3799354.233
AREAVERT T1B_UM_3     366674.875 3799328.796 366666.767 3799325.139
AREAVERT T1B_UM_3     366650.869 3799317.667 366642.443 3799314.011
AREAVERT T1B_UM_3     366637.673 3799311.944 366629.724 3799308.128
AREAVERT T1B_UM_3     366626.068 3799306.538 366622.888 3799305.426
AREAVERT T1B_UM_3     366610.805 3799301.928 366590.615 3799296.046
AREAVERT T1B_UM_3     366578.691 3799292.389
SRCPARAM T1B_UM_4     1.6336E-06     2.550        20     2.370
AREAVERT T1B_UM_4     366781.937 3799356.625 366803.447 3799365.603
AREAVERT T1B_UM_4     366818.224 3799371.775 366827.389 3799375.703
AREAVERT T1B_UM_4     366831.317 3799377.200 366834.684 3799378.322
AREAVERT T1B_UM_4     366846.468 3799381.315 366865.172 3799386.365
AREAVERT T1B_UM_4     366879.575 3799390.106 366889.675 3799392.538
AREAVERT T1B_UM_4     366901.459 3799395.530 366903.330 3799359.804
AREAVERT T1B_UM_4     366885.560 3799356.064 366865.546 3799351.949
AREAVERT T1B_UM_4     366858.252 3799349.891 366845.907 3799346.337
AREAVERT T1B_UM_4     366827.389 3799340.165 366821.029 3799338.481
AREAVERT T1B_UM_4     366807.749 3799331.748 366793.908 3799325.388
SRCPARAM T1B_UM_5     1.6336E-06     2.550        45     2.370
AREAVERT T1B_UM_5     366778.172 3799284.843 366791.452 3799294.195
AREAVERT T1B_UM_5     366802.863 3799302.425 366810.719 3799307.476
AREAVERT T1B_UM_5     366819.884 3799313.274 366822.877 3799315.145
AREAVERT T1B_UM_5     366824.561 3799312.900 366839.151 3799317.390
AREAVERT T1B_UM_5     366852.431 3799322.253 366861.410 3799324.872
AREAVERT T1B_UM_5     366869.827 3799327.677 366877.870 3799330.109
AREAVERT T1B_UM_5     366886.100 3799331.793 366907.611 3799334.972
AREAVERT T1B_UM_5     366909.295 3799302.987 366887.036 3799299.058
AREAVERT T1B_UM_5     366887.784 3799290.080 366892.273 3799289.145
AREAVERT T1B_UM_5     366895.453 3799292.138 366904.432 3799289.332
AREAVERT T1B_UM_5     366908.547 3799287.835 366916.216 3799282.785
AREAVERT T1B_UM_5     366918.647 3799281.289 366917.899 3799276.986
AREAVERT T1B_UM_5     366926.691 3799267.821 366928.187 3799220.497
AREAVERT T1B_UM_5     366925.007 3799219.936 366923.511 3799239.576
AREAVERT T1B_UM_5     366922.950 3799245.936 366915.468 3799260.152
AREAVERT T1B_UM_5     366908.734 3799266.886 366905.180 3799264.267
AREAVERT T1B_UM_5     366890.403 3799272.497 366890.029 3799276.238
AREAVERT T1B_UM_5     366878.993 3799277.922 366870.201 3799276.612
AREAVERT T1B_UM_5     366862.906 3799275.864 366859.913 3799275.303
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AREAVERT T1B_UM_5     366839.712 3799267.073 366827.179 3799262.022
AREAVERT T1B_UM_5     366820.819 3799275.490 366809.596 3799268.382
AREAVERT T1B_UM_5     366806.042 3799265.389 366793.323 3799254.166
AREAVERT T1B_UM_5     366779.294 3799282.411
SRCPARAM T1B_UM_6     1.6336E-06     2.550        24     2.370
AREAVERT T1B_UM_6     366885.524 3799153.037 366886.955 3799159.556
AREAVERT T1B_UM_6     366899.676 3799159.556 366902.379 3799113.922
AREAVERT T1B_UM_6     366899.199 3799113.922 366897.768 3799108.993
AREAVERT T1B_UM_6     366895.542 3799106.131 366893.475 3799103.746
AREAVERT T1B_UM_6     366889.659 3799102.315 366887.750 3799101.997
AREAVERT T1B_UM_6     366886.001 3799102.156 366882.980 3799102.315
AREAVERT T1B_UM_6     366879.323 3799105.336 366876.938 3799109.788
AREAVERT T1B_UM_6     366875.507 3799114.876 366875.825 3799118.533
AREAVERT T1B_UM_6     366862.787 3799143.656 366864.377 3799144.928
AREAVERT T1B_UM_6     366867.716 3799148.426 366870.260 3799149.698
AREAVERT T1B_UM_6     366873.599 3799151.129 366874.871 3799151.765
AREAVERT T1B_UM_6     366879.800 3799152.083 366882.662 3799152.719
SRCPARAM T1B_M_1      4.962E-08     2.550        22     2.370
AREAVERT T1B_M_1      366920.768 3799460.598 366937.600 3799463.965
AREAVERT T1B_M_1      366948.260 3799466.022 366957.798 3799468.079
AREAVERT T1B_M_1      366961.725 3799468.827 366971.076 3799472.007
AREAVERT T1B_M_1      366985.290 3799476.308 366997.259 3799480.235
AREAVERT T1B_M_1      367003.805 3799482.480 367015.213 3799456.671
AREAVERT T1B_M_1      367003.057 3799451.995 366997.259 3799449.751
AREAVERT T1B_M_1      366994.454 3799448.442 366980.801 3799444.328
AREAVERT T1B_M_1      366971.824 3799441.709 366960.790 3799439.278
AREAVERT T1B_M_1      366945.080 3799435.725 366938.161 3799433.855
AREAVERT T1B_M_1      366930.306 3799432.171 366925.069 3799430.862
AREAVERT T1B_M_1      366921.703 3799455.362 366920.394 3799461.346
SRCPARAM T1B_M_2      4.962E-08     2.550        18     2.370
AREAVERT T1B_M_2      366819.539 3799439.778 366828.704 3799442.770
AREAVERT T1B_M_2      366840.112 3799445.950 366849.277 3799448.568
AREAVERT T1B_M_2      366857.319 3799450.813 366866.109 3799453.057
AREAVERT T1B_M_2      366874.152 3799454.740 366881.072 3799456.610
AREAVERT T1B_M_2      366889.675 3799458.855 366896.034 3799426.686
AREAVERT T1B_M_2      366888.740 3799424.816 366875.087 3799422.010
AREAVERT T1B_M_2      366864.800 3799419.766 366859.563 3799418.831
AREAVERT T1B_M_2      366855.636 3799417.709 366846.845 3799414.903
AREAVERT T1B_M_2      366840.299 3799412.659 366830.387 3799409.666
SRCPARAM T1B_M_3      4.962E-08     2.550        23     2.370
AREAVERT T1B_M_3      366574.399 3799321.960 366582.189 3799324.185
AREAVERT T1B_M_3      366590.297 3799326.411 366596.179 3799328.001
AREAVERT T1B_M_3      366602.220 3799329.750 366604.287 3799330.386
AREAVERT T1B_M_3      366611.759 3799333.406 366623.842 3799338.176
AREAVERT T1B_M_3      366636.560 3799343.263 366646.576 3799347.397
AREAVERT T1B_M_3      366654.048 3799350.894 366661.361 3799354.233
AREAVERT T1B_M_3      366674.875 3799328.796 366666.767 3799325.139
AREAVERT T1B_M_3      366650.869 3799317.667 366642.443 3799314.011
AREAVERT T1B_M_3      366637.673 3799311.944 366629.724 3799308.128
AREAVERT T1B_M_3      366626.068 3799306.538 366622.888 3799305.426
AREAVERT T1B_M_3      366610.805 3799301.928 366590.615 3799296.046
AREAVERT T1B_M_3      366578.691 3799292.389
SRCPARAM T1B_M_4      4.962E-08     2.550        20     2.370
AREAVERT T1B_M_4      366781.937 3799356.625 366803.447 3799365.603
AREAVERT T1B_M_4      366818.224 3799371.775 366827.389 3799375.703
AREAVERT T1B_M_4      366831.317 3799377.200 366834.684 3799378.322
AREAVERT T1B_M_4      366846.468 3799381.315 366865.172 3799386.365
AREAVERT T1B_M_4      366879.575 3799390.106 366889.675 3799392.538
AREAVERT T1B_M_4      366901.459 3799395.530 366903.330 3799359.804
AREAVERT T1B_M_4      366885.560 3799356.064 366865.546 3799351.949
AREAVERT T1B_M_4      366858.252 3799349.891 366845.907 3799346.337
AREAVERT T1B_M_4      366827.389 3799340.165 366821.029 3799338.481
AREAVERT T1B_M_4      366807.749 3799331.748 366793.908 3799325.388
SRCPARAM T1B_M_5      4.962E-08     2.550        45     2.370
AREAVERT T1B_M_5      366778.172 3799284.843 366791.452 3799294.195
AREAVERT T1B_M_5      366802.863 3799302.425 366810.719 3799307.476
AREAVERT T1B_M_5      366819.884 3799313.274 366822.877 3799315.145
AREAVERT T1B_M_5      366824.561 3799312.900 366839.151 3799317.390
AREAVERT T1B_M_5      366852.431 3799322.253 366861.410 3799324.872
AREAVERT T1B_M_5      366869.827 3799327.677 366877.870 3799330.109
AREAVERT T1B_M_5      366886.100 3799331.793 366907.611 3799334.972
AREAVERT T1B_M_5      366909.295 3799302.987 366887.036 3799299.058
AREAVERT T1B_M_5      366887.784 3799290.080 366892.273 3799289.145
AREAVERT T1B_M_5      366895.453 3799292.138 366904.432 3799289.332
AREAVERT T1B_M_5      366908.547 3799287.835 366916.216 3799282.785
AREAVERT T1B_M_5      366918.647 3799281.289 366917.899 3799276.986
AREAVERT T1B_M_5      366926.691 3799267.821 366928.187 3799220.497
AREAVERT T1B_M_5      366925.007 3799219.936 366923.511 3799239.576
AREAVERT T1B_M_5      366922.950 3799245.936 366915.468 3799260.152
AREAVERT T1B_M_5      366908.734 3799266.886 366905.180 3799264.267
AREAVERT T1B_M_5      366890.403 3799272.497 366890.029 3799276.238
AREAVERT T1B_M_5      366878.993 3799277.922 366870.201 3799276.612
AREAVERT T1B_M_5      366862.906 3799275.864 366859.913 3799275.303
AREAVERT T1B_M_5      366839.712 3799267.073 366827.179 3799262.022
AREAVERT T1B_M_5      366820.819 3799275.490 366809.596 3799268.382
AREAVERT T1B_M_5      366806.042 3799265.389 366793.323 3799254.166
AREAVERT T1B_M_5      366779.294 3799282.411
SRCPARAM T1B_M_6      4.962E-08     2.550        24     2.370
AREAVERT T1B_M_6      366885.524 3799153.037 366886.955 3799159.556
AREAVERT T1B_M_6      366899.676 3799159.556 366902.379 3799113.922
AREAVERT T1B_M_6      366899.199 3799113.922 366897.768 3799108.993
AREAVERT T1B_M_6      366895.542 3799106.131 366893.475 3799103.746
AREAVERT T1B_M_6      366889.659 3799102.315 366887.750 3799101.997
AREAVERT T1B_M_6      366886.001 3799102.156 366882.980 3799102.315
AREAVERT T1B_M_6      366879.323 3799105.336 366876.938 3799109.788
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   AREAVERT T1B_M_6      366875.507 3799114.876 366875.825 3799118.533
   AREAVERT T1B_M_6      366862.787 3799143.656 366864.377 3799144.928
   AREAVERT T1B_M_6      366867.716 3799148.426 366870.260 3799149.698
   AREAVERT T1B_M_6      366873.599 3799151.129 366874.871 3799151.765
   AREAVERT T1B_M_6      366879.800 3799152.083 366882.662 3799152.719
   URBANSRC ALL

** Variable Emissions Type: "By Hour / Seven Days (HRDOW7)"
** Variable Emission Scenario: "Scenario 1"
   EMISFACT T1A_1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_1        HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT T1A_1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_1        HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT T1A_1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_1        HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT T1A_1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_1        HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT T1A_1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_1        HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT T1A_1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_2        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_2        HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT T1A_2        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_2        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_2        HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT T1A_2        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_2        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_2        HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT T1A_2        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_2        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_2        HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT T1A_2        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_2        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_2        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_2        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_2        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_2        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_3        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_3        HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT T1A_3        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_3        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_3        HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT T1A_3        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_3        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_3        HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT T1A_3        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_3        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_3        HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT T1A_3        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_3        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_3        HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT T1A_3        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_3        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_3        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_3        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_3        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_3        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_3        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_3        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_4        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_4        HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT T1A_4        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_4        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_4        HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT T1A_4        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_4        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_4        HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT T1A_4        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_4        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_4        HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT T1A_4        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_4        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_4        HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT T1A_4        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_4        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_4        HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT T1A_4        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_4        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_4        HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT T1A_4        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_4        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_4        HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT T1A_4        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_4        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_4        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_4        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_4        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_4        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_4        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT T1A_5        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1A_5        HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT T1A_5        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_5        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_5        HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT T1A_5        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_5        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_5        HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT T1A_5        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_5        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_5        HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT T1A_5        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_5        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_5        HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT T1A_5        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_5        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_5        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_5        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_5        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_5        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_5        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_6        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_6        HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT T1A_6        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_6        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_6        HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT T1A_6        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_6        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_6        HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT T1A_6        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_6        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_6        HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT T1A_6        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_6        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_6        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_6        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_6        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_6        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT T1A_7        HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT T1A_7        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_7        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_7        HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT T1A_7        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_7        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_7        HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT T1A_7        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_7        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_7        HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT T1A_7        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_7        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_7        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_7        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT T1A_8        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_8        HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT T1A_8        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_8        HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT T1A_8        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_8        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_8        HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT T1A_8        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_8        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_8        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_8        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_8        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1A_8        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT T1B_UM_1     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_1     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT T1B_UM_1     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_1     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_1     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT T1B_UM_1     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_1     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_1     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT T1B_UM_1     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_1     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT T1B_UM_1     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT T1B_UM_1     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_1     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_1     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_1     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_1     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT T1B_UM_2     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT T1B_UM_2     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_2     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_2     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT T1B_UM_2     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_2     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_2     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT T1B_UM_2     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_2     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_2     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT T1B_UM_2     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_2     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_2     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT T1B_UM_2     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_2     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_2     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_2     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_2     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT T1B_UM_3     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT T1B_UM_3     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT T1B_UM_4     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT T1B_UM_4     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_4     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT T1B_UM_4     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_4     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_4     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT T1B_UM_4     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_4     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_4     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT T1B_UM_4     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT T1B_UM_5     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT T1B_UM_5     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_5     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_5     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT T1B_UM_5     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_5     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_5     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT T1B_UM_5     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT T1B_UM_5     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_5     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_5     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_5     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_5     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_5     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_6     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_6     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT T1B_UM_6     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT T1B_UM_6     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_6     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT T1B_UM_6     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_6     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_6     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT T1B_UM_6     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT T1B_UM_6     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT T1B_UM_6     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_6     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT T1B_UM_6     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_UM_6     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_M_1      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT T1B_M_1      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT T1B_M_1      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT T1B_M_2      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_M_2      HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT T1B_M_2      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_M_2      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_M_2      HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT T1B_M_2      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_M_2      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_M_2      HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT T1B_M_2      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_M_2      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_M_2      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_M_2      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_M_2      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT T1B_M_3      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_M_3      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_M_3      HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT T1B_M_3      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_M_3      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_M_3      HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT T1B_M_3      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_M_3      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_M_3      HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT T1B_M_3      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_M_3      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_M_3      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_M_3      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_M_3      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_M_3      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_M_4      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_M_4      HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT T1B_M_4      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_M_4      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_M_4      HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT T1B_M_4      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_M_4      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_M_4      HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT T1B_M_4      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_M_4      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_M_4      HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT T1B_M_4      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_M_4      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT T1B_M_4      HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT T1B_M_4      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1B_M_4      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1B_M_4      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1B_M_4      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1B_M_4      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1B_M_4      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1B_M_4      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1B_M_5      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1B_M_5      HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT T1B_M_5      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1B_M_5      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1B_M_5      HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT T1B_M_5      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1B_M_5      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1B_M_5      HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT T1B_M_5      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1B_M_5      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1B_M_5      HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT T1B_M_5      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1B_M_5      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1B_M_5      HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT T1B_M_5      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1B_M_5      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1B_M_5      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1B_M_5      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1B_M_5      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1B_M_5      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1B_M_6      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1B_M_6      HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT T1B_M_6      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1B_M_6      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1B_M_6      HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT T1B_M_6      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1B_M_6      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1B_M_6      HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT T1B_M_6      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1B_M_6      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1B_M_6      HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT T1B_M_6      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1B_M_6      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1B_M_6      HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT T1B_M_6      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1B_M_6      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1B_M_6      HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT T1B_M_6      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1B_M_6      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1B_M_6      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1B_M_6      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1B_M_6      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT T1B_M_6      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   SRCGROUP TIER1A   T1A_1 T1A_2 T1A_3 T1A_4 T1A_5 T1A_6 T1A_7 T1A_8
   SRCGROUP TIER1BM  T1B_M_1 T1B_M_2 T1B_M_3 T1B_M_4 T1B_M_5 T1B_M_6
   SRCGROUP TIER1BUM T1B_UM_1 T1B_UM_2 T1B_UM_3 T1B_UM_4 T1B_UM_5 T1B_UM_6
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
** DESCRREC "" ""
   DISCCART    367472.27   3799121.83
   DISCCART    367469.43   3799140.77
   DISCCART    367470.38   3799156.87
   DISCCART    367472.27   3799171.08
   DISCCART    367474.17   3799185.29
   DISCCART    367475.11   3799202.33
   DISCCART    367474.17   3799217.49
   DISCCART    367476.06   3799231.69
   DISCCART    367477.01   3799246.85
   DISCCART    367474.17   3799270.53
   DISCCART    367475.11   3799283.78
   DISCCART    367475.11   3799298.94
   DISCCART    367475.11   3799314.09
   DISCCART    367475.11   3799329.25
   DISCCART    367476.06   3799343.45
   DISCCART    367497.84   3799350.08
   DISCCART    367527.20   3799373.76
   DISCCART    367525.31   3799400.28
   DISCCART    367521.52   3799441.95
   DISCCART    367512.05   3799459.00
   DISCCART    367501.63   3799475.10
   DISCCART    367492.16   3799492.15
   DISCCART    367485.53   3799518.67
   DISCCART    367734.73   3799074.85
   DISCCART    367702.41   3799074.85
   DISCCART    367676.79   3799072.62
   DISCCART    367641.13   3799073.73
   DISCCART    367590.99   3799073.73
   DISCCART    367543.08   3799070.39
   DISCCART    367467.31   3799067.05
   DISCCART    367429.42   3799058.13
   DISCCART    367401.56   3799055.90
   DISCCART    367348.08   3799059.25
```

DISCCART 367367.02 3799048.10
DISCCART 367287.91 3799063.70
DISCCART 367329.14 3799049.22
DISCCART 367177.60 3799048.10
DISCCART 367106.29 3799060.36
DISCCART 367072.86 3799055.90
DISCCART 367055.03 3799062.59
DISCCART 367002.66 3799057.02
DISCCART 366905.72 3799025.82
DISCCART 367018.26 3798993.51
DISCCART 366971.46 3798997.96
DISCCART 367162.00 3799024.70
DISCCART 366833.29 3798997.96
DISCCART 366848.89 3798962.31
DISCCART 366866.72 3798933.34
DISCCART 366880.09 3798905.48
DISCCART 366896.81 3798876.51
DISCCART 366805.44 3799007.99
DISCCART 366792.07 3799029.16
DISCCART 366763.09 3799030.28
DISCCART 366730.78 3799023.59
DISCCART 366710.72 3799022.48
DISCCART 366686.21 3799026.93
DISCCART 366658.35 3799025.82
DISCCART 366612.67 3799018.02
DISCCART 366578.13 3799015.79
DISCCART 366902.32 3799006.50
DISCCART 366930.50 3798998.45
DISCCART 366940.97 3798993.62
DISCCART 366923.25 3798975.11
DISCCART 366991.69 3798982.35
DISCCART 367015.84 3799008.92
DISCCART 366977.19 3798971.89
DISCCART 367002.15 3798965.45
DISCCART 366993.30 3798954.98
DISCCART 366978.81 3798942.10
DISCCART 366952.24 3798932.44
DISCCART 366955.46 3798913.12
DISCCART 366818.59 3798975.91
DISCCART 366826.64 3798961.42
DISCCART 366833.89 3798945.32
DISCCART 366841.14 3798930.02
DISCCART 366847.58 3798917.95
DISCCART 366803.30 3798969.47
DISCCART 366792.83 3798956.59
DISCCART 366798.47 3798995.23
DISCCART 366784.78 3798979.94
DISCCART 366771.90 3798966.25
DISCCART 366760.63 3798954.17
DISCCART 366781.56 3798937.27
DISCCART 366797.66 3798930.83
DISCCART 366818.59 3798918.75
DISCCART 366827.45 3798912.31
DISCCART 366845.16 3798900.23
DISCCART 366858.85 3798892.99
DISCCART 366904.74 3798862.40
DISCCART 366755.80 3799010.53
DISCCART 366772.70 3799008.11
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DISCCART 366671.26 3799007.31
DISCCART 366643.09 3799005.70
DISCCART 366695.42 3798992.01
DISCCART 366709.91 3798996.84
DISCCART 366730.84 3798998.45
DISCCART 366746.94 3798995.23
DISCCART 366712.33 3798975.10
DISCCART 366732.45 3798976.72
DISCCART 366746.14 3798977.52
DISCCART 367168.75 3799016.24
DISCCART 367153.62 3799001.12
DISCCART 367133.85 3799002.28
DISCCART 367144.32 3798992.39
DISCCART 367120.47 3798992.39
DISCCART 367108.25 3798981.34
DISCCART 367130.94 3798983.09
DISCCART 367083.82 3798953.42
DISCCART 367072.77 3798944.69
DISCCART 367067.53 3798937.71
DISCCART 367064.04 3798928.41
DISCCART 367103.60 3798928.99
DISCCART 367053.57 3798920.26
DISCCART 367025.07 3798892.34
DISCCART 367013.44 3798879.55
DISCCART 367054.16 3798899.91
DISCCART 367018.67 3798871.40
DISCCART 367005.30 3798849.88
DISCCART 366993.66 3798839.41
DISCCART 367114.07 3798903.40
DISCCART 367058.23 3798869.08
DISCCART 367103.02 3798882.46
DISCCART 367082.08 3798914.45
DISCCART 367061.72 3798894.67
DISCCART 367042.52 3798887.69
DISCCART 367006.46 3798866.75
DISCCART 367021.58 3798841.74

```
   DISCCART    367029.73   3798835.34
   DISCCART    367043.69   3798858.03
   DISCCART    367084.40   3798883.04
   DISCCART    367093.13   3798891.18
   DISCCART    367098.94   3798950.51
   DISCCART    366837.77   3798982.50
   DISCCART    367082.08   3798871.40
   DISCCART    367073.93   3798862.68
   DISCCART    367063.46   3799045.32
   DISCCART    366998.90   3799039.51
   DISCCART    367061.72   3798850.46
   DISCCART    367079.17   3798850.46
   DISCCART    367118.14   3798889.44
   DISCCART    367123.38   3798878.38
   DISCCART    367139.08   3798868.50
   DISCCART    367145.48   3798858.03
   DISCCART    367101.85   3798838.25
   DISCCART    367104.76   3798862.68
   DISCCART    367096.04   3798824.29
   DISCCART    367051.25   3798849.30
   DISCCART    367062.88   3798838.25
   DISCCART    367068.70   3798833.59
   DISCCART    367076.84   3798820.80
   DISCCART    367014.02   3798819.63
   DISCCART    367024.49   3798814.98
   DISCCART    367162.93   3798990.07
   DISCCART    367140.24   3798980.18
   DISCCART    367132.68   3798965.64
   DISCCART    367159.44   3798973.20
   DISCCART    367161.77   3798962.14
   DISCCART    367149.55   3798958.07
   DISCCART    367144.32   3798948.77
   DISCCART    367197.83   3798965.05
   DISCCART    367178.63   3798942.95
   DISCCART    367171.65   3798928.99
   DISCCART    367179.22   3798924.34
   DISCCART    367228.66   3798958.07
   DISCCART    367203.65   3798938.30
   DISCCART    367207.72   3798929.57
   DISCCART    367197.25   3798916.19
   DISCCART    367218.77   3798919.10
   DISCCART    367279.26   3798960.98
   DISCCART    367281.59   3799037.18
   DISCCART    367313.51   3799050.23
   DISCCART    367310.77   3799027.64
   DISCCART    367304.61   3799043.38
   DISCCART    367319.67   3799018.75
   DISCCART    367329.93   3799007.11
   DISCCART    367336.09   3798994.11
   DISCCART    367345.67   3798986.58
   DISCCART    367345.67   3798974.26
   DISCCART    367337.46   3798961.26
   DISCCART    367360.73   3798959.21
   DISCCART    367359.36   3798944.15
   DISCCART    367366.89   3799035.17
   DISCCART    367373.73   3799022.17
   DISCCART    367381.26   3799014.64
   DISCCART    367382.63   3799002.32
   DISCCART    367360.73   3799061.86
   DISCCART    367390.84   3798993.42
   DISCCART    367398.37   3798974.95
   DISCCART    367400.42   3799019.43
   DISCCART    367388.10   3799042.70
   DISCCART    367420.27   3799006.43
   DISCCART    367440.80   3799023.54
RE FINISHED
**
****************************************
** AERMOD Meteorology Pathway
****************************************
**
**
ME STARTING
   SURFFILE ..\..\metdata\KBUR_V9_ADJU\KBUR_v9.SFC
   PROFFILE ..\..\metdata\KBUR_V9_ADJU\KBUR_v9.PFL
   SURFDATA 23152 2012
   UAIRDATA 3190 2012
   PROFBASE 236.0 METERS
ME FINISHED
**
****************************************
** AERMOD Output Pathway
****************************************
**
**
OU STARTING
   PLOTFILE PERIOD TIER1A OVMC_CONSTRUCTION_FLAT.AD\OVMC_Construction_Flat_DPM_Tier1A.PLT 31
   PLOTFILE PERIOD TIER1BM OVMC_CONSTRUCTION_FLAT.AD\OVMC_Construction_Flat_DPM_Tier1BM.PLT 32
   PLOTFILE PERIOD TIER1BUM OVMC_CONSTRUCTION_FLAT.AD\OVMC_Construction_Flat_DPM_Tier1BUM.PLT 33
   SUMMFILE OVMC_Construction_Flat.sum
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***
```

```
 --------- Summary of Total Messages --------

A Total of            0 Fatal Error Message(s)
A Total of            2 Warning Message(s)
A Total of            0 Informational Message(s)


   ******** FATAL ERROR MESSAGES ********
              ***  NONE  ***


   ********   WARNING MESSAGES   ********
ME W186     933       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
ME W187     933       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

**********************************
*** SETUP Finishes Successfully ***
**********************************
```

*** MODELOPTs: NonDFAULT CONC FLAT URBAN ADJ_U*

                                        ***   MODEL SETUP OPTIONS SUMMARY   ***
- -

**Model Is Setup For Calculation of Average CONCentration Values.

  -- DEPOSITION LOGIC --
**NO GAS DEPOSITION Data Provided.
**NO PARTICLE DEPOSITION Data Provided.
**Model Uses NO DRY DEPLETION. DRYDPLT = F
**Model Uses NO WET DEPLETION. WETDPLT = F

**Model Uses URBAN Dispersion Algorithm for the SBL for   20 Source(s),
  for Total of   1 Urban Area(s):
  Urban Population =   9818605.0 ; Urban Roughness Length = 1.000 m

**Model Allows User-Specified Options:
        1. Stack-tip Downwash.
        2. Model Assumes Receptors on FLAT Terrain.
        3. Use Calms Processing Routine.
        4. Use Missing Data Processing Routine.
        5. No Exponential Decay.
        6. Full Conversion Assumed for NO2.
        6. Urban Roughness Length of 1.0 Meter Used.

**Other Options Specified:
        ADJ_U*   - Use ADJ_U* option for SBL in AERMET
        CCVR_Sub - Meteorological data includes CCVR substitutions
        TEMP_Sub - Meteorological data includes TEMP substitutions

**Model Assumes No FLAGPOLE Receptor Heights.

**The User Specified a Pollutant Type of: DPM

**Model Calculates PERIOD Averages Only

**This Run Includes: 20 Source(s);   4 Source Group(s); and   193 Receptor(s)

               with: 0 POINT(s), including
                          0 POINTCAP(s) and   0 POINTHOR(s)
                and: 0 VOLUME source(s)
                and: 20 AREA type source(s)
                and: 0 LINE source(s)
                and: 0 OPENPIT source(s)
                and: 0 BUOYANT LINE source(s) with   0 line(s)

**Model Set To Continue RUNning After the Setup Testing.

**The AERMET Input Meteorological Data Version Date: 16216

**Output Options Selected:
         Model Outputs Tables of PERIOD Averages by Receptor
         Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
         Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

**NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
                                                                m for Missing Hours
                                                                b for Both Calm and Missing Hours

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) =   236.00 ; Decay Coef. =   0.000   ; Rot. Angle =   0.0
                 Emission Units = GRAMS/SEC   ; Emission Rate Unit Factor =   0.10000E+07
                 Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =   3.6 MB of RAM.

**Input Runstream File: aermod.inp
**Output Print File: aermod.out

**Detailed Error/Message File: OVMC_Construction_Flat.err
**File for Summary of Results: OVMC_Construction_Flat.sum

*** MODELOPTs: NonDFAULT CONC FLAT URBAN ADJ_U*

*** AREAPOLY SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC /METER**2)	LOCATION OF AREA X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	NUMBER OF VERTS.	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
T1A_1	0	0.44090E-05	367101.7	3799472.6	236.0	2.55	9	2.37	YES	HRDOW7
T1A_2	0	0.44090E-05	367103.1	3799454.5	236.0	2.55	8	2.37	YES	HRDOW7
T1A_3	0	0.44090E-05	367113.5	3799413.3	236.0	2.55	9	2.37	YES	HRDOW7
T1A_4	0	0.44090E-05	367124.4	3799457.7	236.0	2.55	8	2.37	YES	HRDOW7
T1A_5	0	0.44090E-05	367135.9	3799436.3	236.0	2.55	8	2.37	YES	HRDOW7
T1A_6	0	0.44090E-05	367133.1	3799379.1	236.0	2.55	18	2.37	YES	HRDOW7
T1A_7	0	0.44090E-05	366994.5	3799413.4	236.0	2.55	9	2.37	YES	HRDOW7
T1A_8	0	0.44090E-05	366934.7	3799405.4	236.0	2.55	4	2.37	YES	HRDOW7
T1B_UM_1	0	0.16336E-05	366920.8	3799460.6	236.0	2.55	22	2.37	YES	HRDOW7
T1B_UM_2	0	0.16336E-05	366819.5	3799439.8	236.0	2.55	18	2.37	YES	HRDOW7
T1B_UM_3	0	0.16336E-05	366574.4	3799322.0	236.0	2.55	23	2.37	YES	HRDOW7
T1B_UM_4	0	0.16336E-05	366781.9	3799356.6	236.0	2.55	20	2.37	YES	HRDOW7
T1B_UM_5	0	0.16336E-05	366778.2	3799284.8	236.0	2.55	45	2.37	YES	HRDOW7
T1B_UM_6	0	0.16336E-05	366885.5	3799153.0	236.0	2.55	24	2.37	YES	HRDOW7
T1B_M_1	0	0.49620E-07	366920.8	3799460.6	236.0	2.55	22	2.37	YES	HRDOW7
T1B_M_2	0	0.49620E-07	366819.5	3799439.8	236.0	2.55	18	2.37	YES	HRDOW7
T1B_M_3	0	0.49620E-07	366574.4	3799322.0	236.0	2.55	23	2.37	YES	HRDOW7
T1B_M_4	0	0.49620E-07	366781.9	3799356.6	236.0	2.55	20	2.37	YES	HRDOW7
T1B_M_5	0	0.49620E-07	366778.2	3799284.8	236.0	2.55	45	2.37	YES	HRDOW7
T1B_M_6	0	0.49620E-07	366885.5	3799153.0	236.0	2.55	24	2.37	YES	HRDOW7

*** MODELOPTs: NonDFAULT CONC FLAT URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
TIER1A	T1A_1 , T1A_2 , T1A_3 , T1A_4 , T1A_5 , T1A_6 , T1A_7 , T1A_8 ,
TIER1BM	T1B_M_1 , T1B_M_2 , T1B_M_3 , T1B_M_4 , T1B_M_5 , T1B_M_6 ,
TIER1BUM	T1B_UM_1 , T1B_UM_2 , T1B_UM_3 , T1B_UM_4 , T1B_UM_5 , T1B_UM_6 ,
ALL	T1A_1 , T1A_2 , T1A_3 , T1A_4 , T1A_5 , T1A_6 , T1A_7 , T1A_8 ,
	T1B_UM_1 , T1B_UM_2 , T1B_UM_3 , T1B_UM_4 , T1B_UM_5 , T1B_UM_6 , T1B_M_1 , T1B_M_2 ,
	T1B_M_3 , T1B_M_4 , T1B_M_5 , T1B_M_6 ,

*** MODELOPTs: NonDFAULT CONC FLAT URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
	9818605.	T1A_1 , T1A_2 , T1A_3 , T1A_4 , T1A_5 , T1A_6 , T1A_7 , T1A_8 ,
		T1B_UM_1 , T1B_UM_2 , T1B_UM_3 , T1B_UM_4 , T1B_UM_5 , T1B_UM_6 , T1B_M_1 , T1B_M_2 ,
		T1B_M_3 , T1B_M_4 , T1B_M_5 , T1B_M_6 ,

*** MODELOPTs: NonDFAULT CONC FLAT URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = T1A_1 ; SOURCE TYPE = AREAPOLY :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = TUESDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = WEDNESDY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = THURSDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = FRIDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = T1A_2 ; SOURCE TYPE = AREAPOLY :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = TUESDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = WEDNESDY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = THURSDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = FRIDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = T1A_3 ; SOURCE TYPE = AREAPOLY :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = TUESDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = WEDNESDY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = THURSDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = FRIDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = T1A_4 ; SOURCE TYPE = AREAPOLY :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = TUESDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = WEDNESDY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = THURSDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = FRIDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = T1A_5 ; SOURCE TYPE = AREAPOLY :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = TUESDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = WEDNESDY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = THURSDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = FRIDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = T1A_6 ; SOURCE TYPE = AREAPOLY :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = TUESDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = WEDNESDY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = THURSDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = FRIDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = T1A_7 ; SOURCE TYPE = AREAPOLY :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = TUESDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = WEDNESDY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = THURSDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = FRIDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = T1A_8 ; SOURCE TYPE = AREAPOLY :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = TUESDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = WEDNESDY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = THURSDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = FRIDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = T1B_UM_1 ; SOURCE TYPE = AREAPOLY :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = TUESDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = WEDNESDY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = THURSDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = FRIDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = T1B_UM_2 ; SOURCE TYPE = AREAPOLY :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = TUESDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = WEDNESDY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = THURSDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = FRIDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = T1B_UM_3 ; SOURCE TYPE = AREAPOLY :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
						DAY OF WEEK = MONDAY									
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
						DAY OF WEEK = TUESDAY									
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
						DAY OF WEEK = WEDNESDY									
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
						DAY OF WEEK = THURSDAY									
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
						DAY OF WEEK = FRIDAY									
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
						DAY OF WEEK = SATURDAY									
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
						DAY OF WEEK = SUNDAY									
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = T1B_UM_4 ; SOURCE TYPE = AREAPOLY :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = TUESDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = WEDNESDY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = THURSDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = FRIDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = T1B_UM_5 ; SOURCE TYPE = AREAPOLY :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = TUESDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = WEDNESDY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = THURSDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = FRIDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = T1B_UM_6 ; SOURCE TYPE = AREAPOLY :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = TUESDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = WEDNESDY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = THURSDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = FRIDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = T1B_M_1 ; SOURCE TYPE = AREAPOLY :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = TUESDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = WEDNESDY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = THURSDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = FRIDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = T1B_M_2 ; SOURCE TYPE = AREAPOLY :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = TUESDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = WEDNESDY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = THURSDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = FRIDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = T1B_M_3 ; SOURCE TYPE = AREAPOLY :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = TUESDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = WEDNESDY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = THURSDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = FRIDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = T1B_M_4 ; SOURCE TYPE = AREAPOLY :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = TUESDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = WEDNESDY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = THURSDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = FRIDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = T1B_M_5 ; SOURCE TYPE = AREAPOLY :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = TUESDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = WEDNESDY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = THURSDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = FRIDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = T1B_M_6 ; SOURCE TYPE = AREAPOLY :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = TUESDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = WEDNESDY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = THURSDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = FRIDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(367472.3,	3799121.8,	236.0,	236.0,	0.0);	(367469.4,	3799140.8,	236.0,	236.0,	0.0);
(367470.4,	3799156.9,	236.0,	236.0,	0.0);	(367472.3,	3799171.1,	236.0,	236.0,	0.0);
(367474.2,	3799185.3,	236.0,	236.0,	0.0);	(367475.1,	3799202.3,	236.0,	236.0,	0.0);
(367474.2,	3799217.5,	236.0,	236.0,	0.0);	(367476.1,	3799231.7,	236.0,	236.0,	0.0);
(367477.0,	3799246.8,	236.0,	236.0,	0.0);	(367474.2,	3799270.5,	236.0,	236.0,	0.0);
(367475.1,	3799283.8,	236.0,	236.0,	0.0);	(367475.1,	3799298.9,	236.0,	236.0,	0.0);
(367475.1,	3799314.1,	236.0,	236.0,	0.0);	(367475.1,	3799329.2,	236.0,	236.0,	0.0);
(367476.1,	3799343.4,	236.0,	236.0,	0.0);	(367497.8,	3799350.1,	236.0,	236.0,	0.0);
(367527.2,	3799373.8,	236.0,	236.0,	0.0);	(367525.3,	3799400.3,	236.0,	236.0,	0.0);
(367521.5,	3799441.9,	236.0,	236.0,	0.0);	(367512.0,	3799459.0,	236.0,	236.0,	0.0);
(367501.6,	3799475.1,	236.0,	236.0,	0.0);	(367492.2,	3799492.1,	236.0,	236.0,	0.0);
(367485.5,	3799518.7,	236.0,	236.0,	0.0);	(367734.7,	3799074.8,	236.0,	236.0,	0.0);
(367702.4,	3799074.8,	236.0,	236.0,	0.0);	(367676.8,	3799072.6,	236.0,	236.0,	0.0);
(367641.1,	3799073.7,	236.0,	236.0,	0.0);	(367591.0,	3799073.7,	236.0,	236.0,	0.0);
(367543.1,	3799070.4,	236.0,	236.0,	0.0);	(367467.3,	3799067.0,	236.0,	236.0,	0.0);
(367429.4,	3799058.1,	236.0,	236.0,	0.0);	(367401.6,	3799055.9,	236.0,	236.0,	0.0);
(367348.1,	3799059.2,	236.0,	236.0,	0.0);	(367367.0,	3799048.1,	236.0,	236.0,	0.0);
(367287.9,	3799063.7,	236.0,	236.0,	0.0);	(367329.1,	3799049.2,	236.0,	236.0,	0.0);
(367177.6,	3799048.1,	236.0,	236.0,	0.0);	(367106.3,	3799060.4,	236.0,	236.0,	0.0);
(367072.9,	3799055.9,	236.0,	236.0,	0.0);	(367055.0,	3799062.6,	236.0,	236.0,	0.0);
(367002.7,	3799057.0,	236.0,	236.0,	0.0);	(366905.7,	3799025.8,	236.0,	236.0,	0.0);
(367018.3,	3798993.5,	236.0,	236.0,	0.0);	(366971.5,	3798998.0,	236.0,	236.0,	0.0);
(367162.0,	3799024.7,	236.0,	236.0,	0.0);	(366833.3,	3798998.0,	236.0,	236.0,	0.0);
(366848.9,	3798962.3,	236.0,	236.0,	0.0);	(366866.7,	3798933.3,	236.0,	236.0,	0.0);
(366880.1,	3798905.5,	236.0,	236.0,	0.0);	(366896.8,	3798876.5,	236.0,	236.0,	0.0);
(366805.4,	3799008.0,	236.0,	236.0,	0.0);	(366792.1,	3799029.2,	236.0,	236.0,	0.0);
(366763.1,	3799030.3,	236.0,	236.0,	0.0);	(366730.8,	3799023.6,	236.0,	236.0,	0.0);
(366710.7,	3799022.5,	236.0,	236.0,	0.0);	(366686.2,	3799026.9,	236.0,	236.0,	0.0);
(366658.3,	3799025.8,	236.0,	236.0,	0.0);	(366612.7,	3799018.0,	236.0,	236.0,	0.0);
(366578.1,	3799015.8,	236.0,	236.0,	0.0);	(366902.3,	3799006.5,	236.0,	236.0,	0.0);
(366930.5,	3798998.4,	236.0,	236.0,	0.0);	(366941.0,	3798993.6,	236.0,	236.0,	0.0);
(366923.2,	3798975.1,	236.0,	236.0,	0.0);	(366991.7,	3798982.3,	236.0,	236.0,	0.0);
(367015.8,	3799008.9,	236.0,	236.0,	0.0);	(366977.2,	3798971.9,	236.0,	236.0,	0.0);
(367002.1,	3798965.4,	236.0,	236.0,	0.0);	(366993.3,	3798955.0,	236.0,	236.0,	0.0);
(366978.8,	3798942.1,	236.0,	236.0,	0.0);	(366952.2,	3798932.4,	236.0,	236.0,	0.0);
(366955.5,	3798913.1,	236.0,	236.0,	0.0);	(366818.6,	3798975.9,	236.0,	236.0,	0.0);
(366826.6,	3798961.4,	236.0,	236.0,	0.0);	(366833.9,	3798945.3,	236.0,	236.0,	0.0);
(366841.1,	3798930.0,	236.0,	236.0,	0.0);	(366847.6,	3798917.9,	236.0,	236.0,	0.0);
(366803.3,	3798969.5,	236.0,	236.0,	0.0);	(366792.8,	3798956.6,	236.0,	236.0,	0.0);
(366798.5,	3798995.2,	236.0,	236.0,	0.0);	(366784.8,	3798979.9,	236.0,	236.0,	0.0);
(366771.9,	3798966.2,	236.0,	236.0,	0.0);	(366760.6,	3798954.2,	236.0,	236.0,	0.0);
(366781.6,	3798937.3,	236.0,	236.0,	0.0);	(366797.7,	3798930.8,	236.0,	236.0,	0.0);
(366818.6,	3798918.8,	236.0,	236.0,	0.0);	(366827.5,	3798912.3,	236.0,	236.0,	0.0);
(366845.2,	3798900.2,	236.0,	236.0,	0.0);	(366858.8,	3798893.0,	236.0,	236.0,	0.0);
(366904.7,	3798862.4,	236.0,	236.0,	0.0);	(366755.8,	3799010.5,	236.0,	236.0,	0.0);

*** MODELOPTs: NonDFAULT CONC FLAT URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(366772.7,	3799008.1,	236.0,	236.0,	0.0);	(366691.4,	3799007.3,	236.0,	236.0,	0.0);
(366671.3,	3799007.3,	236.0,	236.0,	0.0);	(366643.1,	3799005.7,	236.0,	236.0,	0.0);
(366695.4,	3798992.0,	236.0,	236.0,	0.0);	(366709.9,	3798996.8,	236.0,	236.0,	0.0);
(366730.8,	3798998.4,	236.0,	236.0,	0.0);	(366746.9,	3798995.2,	236.0,	236.0,	0.0);
(366712.3,	3798975.1,	236.0,	236.0,	0.0);	(366732.5,	3798976.7,	236.0,	236.0,	0.0);
(366746.1,	3798977.5,	236.0,	236.0,	0.0);	(367168.8,	3799016.2,	236.0,	236.0,	0.0);
(367153.6,	3799001.1,	236.0,	236.0,	0.0);	(367133.8,	3799002.3,	236.0,	236.0,	0.0);
(367144.3,	3798992.4,	236.0,	236.0,	0.0);	(367120.5,	3798992.4,	236.0,	236.0,	0.0);
(367108.2,	3798981.3,	236.0,	236.0,	0.0);	(367130.9,	3798983.1,	236.0,	236.0,	0.0);
(367083.8,	3798953.4,	236.0,	236.0,	0.0);	(367072.8,	3798944.7,	236.0,	236.0,	0.0);
(367067.5,	3798937.7,	236.0,	236.0,	0.0);	(367064.0,	3798928.4,	236.0,	236.0,	0.0);
(367103.6,	3798929.0,	236.0,	236.0,	0.0);	(367053.6,	3798920.3,	236.0,	236.0,	0.0);
(367025.1,	3798892.3,	236.0,	236.0,	0.0);	(367013.4,	3798879.5,	236.0,	236.0,	0.0);
(367054.2,	3798899.9,	236.0,	236.0,	0.0);	(367018.7,	3798871.4,	236.0,	236.0,	0.0);
(367005.3,	3798849.9,	236.0,	236.0,	0.0);	(366993.7,	3798839.4,	236.0,	236.0,	0.0);
(367114.1,	3798903.4,	236.0,	236.0,	0.0);	(367058.2,	3798869.1,	236.0,	236.0,	0.0);
(367103.0,	3798882.5,	236.0,	236.0,	0.0);	(367082.1,	3798914.4,	236.0,	236.0,	0.0);
(367061.7,	3798894.7,	236.0,	236.0,	0.0);	(367042.5,	3798887.7,	236.0,	236.0,	0.0);
(367006.5,	3798866.8,	236.0,	236.0,	0.0);	(367021.6,	3798841.7,	236.0,	236.0,	0.0);
(367029.7,	3798835.3,	236.0,	236.0,	0.0);	(367043.7,	3798858.0,	236.0,	236.0,	0.0);
(367084.4,	3798883.0,	236.0,	236.0,	0.0);	(367093.1,	3798891.2,	236.0,	236.0,	0.0);
(367098.9,	3798950.5,	236.0,	236.0,	0.0);	(366837.8,	3798982.5,	236.0,	236.0,	0.0);
(367082.1,	3798871.4,	236.0,	236.0,	0.0);	(367073.9,	3798862.7,	236.0,	236.0,	0.0);
(367063.5,	3799045.3,	236.0,	236.0,	0.0);	(366998.9,	3799039.5,	236.0,	236.0,	0.0);
(367061.7,	3798850.5,	236.0,	236.0,	0.0);	(367079.2,	3798850.5,	236.0,	236.0,	0.0);
(367118.1,	3798889.4,	236.0,	236.0,	0.0);	(367123.4,	3798878.4,	236.0,	236.0,	0.0);
(367139.1,	3798868.5,	236.0,	236.0,	0.0);	(367145.5,	3798858.0,	236.0,	236.0,	0.0);
(367101.8,	3798838.2,	236.0,	236.0,	0.0);	(367104.8,	3798862.7,	236.0,	236.0,	0.0);
(367096.0,	3798824.3,	236.0,	236.0,	0.0);	(367051.2,	3798849.3,	236.0,	236.0,	0.0);
(367062.9,	3798838.2,	236.0,	236.0,	0.0);	(367068.7,	3798833.6,	236.0,	236.0,	0.0);
(367076.8,	3798820.8,	236.0,	236.0,	0.0);	(367014.0,	3798819.6,	236.0,	236.0,	0.0);
(367024.5,	3798815.0,	236.0,	236.0,	0.0);	(367162.9,	3798990.1,	236.0,	236.0,	0.0);
(367140.2,	3798980.2,	236.0,	236.0,	0.0);	(367132.7,	3798965.6,	236.0,	236.0,	0.0);
(367159.4,	3798973.2,	236.0,	236.0,	0.0);	(367161.8,	3798962.1,	236.0,	236.0,	0.0);
(367149.5,	3798958.1,	236.0,	236.0,	0.0);	(367144.3,	3798948.8,	236.0,	236.0,	0.0);
(367197.8,	3798965.0,	236.0,	236.0,	0.0);	(367178.6,	3798942.9,	236.0,	236.0,	0.0);
(367171.6,	3798929.0,	236.0,	236.0,	0.0);	(367179.2,	3798924.3,	236.0,	236.0,	0.0);
(367228.7,	3798958.1,	236.0,	236.0,	0.0);	(367203.6,	3798938.3,	236.0,	236.0,	0.0);
(367207.7,	3798929.6,	236.0,	236.0,	0.0);	(367197.2,	3798916.2,	236.0,	236.0,	0.0);
(367218.8,	3798919.1,	236.0,	236.0,	0.0);	(367279.3,	3798961.0,	236.0,	236.0,	0.0);
(367281.6,	3799037.2,	236.0,	236.0,	0.0);	(367313.5,	3799050.2,	236.0,	236.0,	0.0);
(367310.8,	3799027.6,	236.0,	236.0,	0.0);	(367304.6,	3799043.4,	236.0,	236.0,	0.0);
(367319.7,	3799018.8,	236.0,	236.0,	0.0);	(367329.9,	3799007.1,	236.0,	236.0,	0.0);
(367336.1,	3798994.1,	236.0,	236.0,	0.0);	(367345.7,	3798986.6,	236.0,	236.0,	0.0);
(367345.7,	3798974.3,	236.0,	236.0,	0.0);	(367337.5,	3798961.3,	236.0,	236.0,	0.0);

*** MODELOPTs: NonDFAULT CONC FLAT URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(	367360.7,	3798959.2,	236.0,	236.0,	0.0);	(	367359.4,	3798944.1,	236.0,	236.0,	0.0);
(	367366.9,	3799035.2,	236.0,	236.0,	0.0);	(	367373.7,	3799022.2,	236.0,	236.0,	0.0);
(	367381.3,	3799014.6,	236.0,	236.0,	0.0);	(	367382.6,	3799002.3,	236.0,	236.0,	0.0);
(	367360.7,	3799061.9,	236.0,	236.0,	0.0);	(	367390.8,	3798993.4,	236.0,	236.0,	0.0);
(	367398.4,	3798974.9,	236.0,	236.0,	0.0);	(	367400.4,	3799019.4,	236.0,	236.0,	0.0);
(	367388.1,	3799042.7,	236.0,	236.0,	0.0);	(	367420.3,	3799006.4,	236.0,	236.0,	0.0);
(	367440.8,	3799023.5,	236.0,	236.0,	0.0);						

*** MODELOPTs: NonDFAULT CONC FLAT URBAN ADJ_U*

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
(1=YES; 0=NO)

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1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
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NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** MODELOPTs: NonDFAULT CONC FLAT URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: ..\..\metdata\KBUR_V9_ADJU\KBUR_v9.SFC Met Version: 16216
Profile file: ..\..\metdata\KBUR_V9_ADJU\KBUR_v9.PFL
Surface format: FREE
Profile format: FREE
Surface station no.: 23152 Upper air station no.: 3190
Name: UNKNOWN Name: UNKNOWN
Year: 2012 Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	HT
12	01	01	1	01	-23.4	0.241	-9.000	-9.000	-999.	285.	64.1	0.16	3.02	1.00	2.45	359.	7.9	286.4	2.0
12	01	01	1	02	-11.3	0.143	-9.000	-9.000	-999.	134.	23.1	0.16	3.02	1.00	1.50	289.	7.9	284.9	2.0
12	01	01	1	03	-4.8	0.092	-9.000	-9.000	-999.	68.	14.5	0.16	3.02	1.00	0.99	300.	7.9	283.8	2.0
12	01	01	1	04	-8.1	0.121	-9.000	-9.000	-999.	100.	19.1	0.16	3.02	1.00	1.28	295.	7.9	284.2	2.0
12	01	01	1	05	-2.9	0.074	-9.000	-9.000	-999.	49.	12.3	0.16	3.02	1.00	0.75	323.	7.9	282.5	2.0
12	01	01	1	06	-11.3	0.143	-9.000	-9.000	-999.	130.	23.0	0.16	3.02	1.00	1.50	306.	7.9	283.1	2.0
12	01	01	1	07	-16.9	0.176	-9.000	-9.000	-999.	178.	34.3	0.16	3.02	1.00	1.82	315.	7.9	284.9	2.0
12	01	01	1	08	-8.8	0.134	-9.000	-9.000	-999.	118.	24.3	0.16	3.02	0.55	1.40	323.	7.9	287.0	2.0
12	01	01	1	09	36.3	0.171	0.339	0.008	38.	169.	-12.2	0.16	3.02	0.32	1.31	23.	7.9	288.8	2.0
12	01	01	1	10	110.9	0.119	0.729	0.009	124.	99.	-1.4	0.16	3.02	0.24	0.62	163.	7.9	292.0	2.0
12	01	01	1	11	165.2	0.157	1.185	0.005	358.	149.	-2.1	0.16	3.02	0.21	0.89	112.	7.9	296.4	2.0
12	01	01	1	12	192.9	0.184	1.540	0.005	672.	189.	-2.8	0.16	3.02	0.20	1.11	225.	7.9	299.2	2.0
12	01	01	1	13	192.1	0.199	1.840	0.005	1152.	213.	-3.6	0.16	3.02	0.20	1.26	250.	7.9	299.9	2.0
12	01	01	1	14	164.6	0.270	1.886	0.005	1447.	337.	-10.6	0.16	3.02	0.21	2.03	273.	7.9	300.4	2.0
12	01	01	1	15	111.1	0.289	1.699	0.005	1566.	373.	-19.3	0.16	3.02	0.25	2.35	270.	7.9	300.4	2.0
12	01	01	1	16	35.3	0.338	1.167	0.005	1596.	472.	-96.9	0.16	3.02	0.33	3.12	289.	7.9	298.8	2.0
12	01	01	1	17	-20.8	0.255	-9.000	-9.000	-999.	312.	71.4	0.16	3.02	0.60	2.57	318.	7.9	296.4	2.0
12	01	01	1	18	-35.0	0.369	-9.000	-9.000	-999.	538.	149.9	0.16	3.02	1.00	3.68	320.	7.9	293.8	2.0
12	01	01	1	19	-27.7	0.291	-9.000	-9.000	-999.	380.	93.2	0.16	3.02	1.00	2.93	345.	7.9	292.0	2.0
12	01	01	1	20	-20.7	0.216	-9.000	-9.000	-999.	243.	51.2	0.16	3.02	1.00	2.20	325.	7.9	290.4	2.0
12	01	01	1	21	-8.5	0.124	-9.000	-9.000	-999.	108.	19.8	0.16	3.02	1.00	1.31	359.	7.9	288.1	2.0
12	01	01	1	22	-7.4	0.116	-9.000	-9.000	-999.	94.	18.4	0.16	3.02	1.00	1.23	304.	7.9	287.5	2.0
12	01	01	1	23	-6.3	0.106	-9.000	-9.000	-999.	82.	16.7	0.16	3.02	1.00	1.13	314.	7.9	285.9	2.0
12	01	01	1	24	-19.7	0.203	-9.000	-9.000	-999.	220.	45.5	0.16	3.02	1.00	2.08	319.	7.9	287.0	2.0

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
12	01	01	01	7.9	1	359.	2.45	286.5	99.0	-99.00	-99.00

F indicates top of profile (=1) or below (=0)

*** MODELOPTs: NonDFAULT CONC FLAT URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TIER1A ***
INCLUDING SOURCE(S): T1A_1 , T1A_2 , T1A_3 , T1A_4 , T1A_5 ,
T1A_6 , T1A_7 , T1A_8 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
367472.27	3799121.83	0.00092	367469.43	3799140.77	0.00099
367470.38	3799156.87	0.00104	367472.27	3799171.08	0.00109
367474.17	3799185.29	0.00113	367475.11	3799202.33	0.00120
367474.17	3799217.49	0.00127	367476.06	3799231.69	0.00132
367477.01	3799246.85	0.00139	367474.17	3799270.53	0.00152
367475.11	3799283.78	0.00159	367475.11	3799298.94	0.00167
367475.11	3799314.09	0.00175	367475.11	3799329.25	0.00183
367476.06	3799343.45	0.00190	367497.84	3799350.08	0.00171
367527.20	3799373.76	0.00154	367525.31	3799400.28	0.00164
367521.52	3799441.95	0.00176	367512.05	3799459.00	0.00188
367501.63	3799475.10	0.00201	367492.16	3799492.15	0.00212
367485.53	3799518.67	0.00220	367734.73	3799074.85	0.00037
367702.41	3799074.85	0.00041	367676.79	3799072.62	0.00043
367641.13	3799073.73	0.00048	367590.99	3799073.73	0.00055
367543.08	3799070.39	0.00063	367467.31	3799067.05	0.00077
367429.42	3799058.13	0.00083	367401.56	3799055.90	0.00089
367348.08	3799059.25	0.00102	367367.02	3799048.10	0.00093
367287.91	3799063.70	0.00114	367329.14	3799049.22	0.00100
367177.60	3799048.10	0.00103	367106.29	3799060.36	0.00102
367072.86	3799055.90	0.00095	367055.03	3799062.59	0.00097
367002.66	3799057.02	0.00085	366905.72	3799025.82	0.00058
367018.26	3798993.51	0.00060	366971.46	3798997.96	0.00057
367162.00	3799024.70	0.00088	366833.29	3798997.96	0.00045
366848.89	3798962.31	0.00040	366866.72	3798933.34	0.00037
366880.09	3798905.48	0.00034	366896.81	3798876.51	0.00031
366805.44	3799007.99	0.00043	366792.07	3799029.16	0.00045
366763.09	3799030.28	0.00041	366730.78	3799023.59	0.00036
366710.72	3799022.48	0.00034	366686.21	3799026.93	0.00031
366658.35	3799025.82	0.00028	366612.67	3799018.02	0.00023
366578.13	3799015.79	0.00020	366902.32	3799006.50	0.00053
366930.50	3798998.45	0.00054	366940.97	3798993.62	0.00053
366923.25	3798975.11	0.00048	366991.69	3798982.35	0.00055
367015.84	3799008.92	0.00065	366977.19	3798971.89	0.00051
367002.15	3798965.45	0.00051	366993.30	3798954.98	0.00048
366978.81	3798942.10	0.00044	366952.24	3798932.44	0.00041
366955.46	3798913.12	0.00038	366818.59	3798975.91	0.00040
366826.64	3798961.42	0.00039	366833.89	3798945.32	0.00037
366841.14	3798930.02	0.00035	366847.58	3798917.95	0.00034
366803.30	3798969.47	0.00038	366792.83	3798956.59	0.00036
366798.47	3798995.23	0.00041	366784.78	3798979.94	0.00038

*** MODELOPTs: NonDFAULT CONC FLAT URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TIER1A ***
INCLUDING SOURCE(S): T1A_1 , T1A_2 , T1A_3 , T1A_4 , T1A_5 ,
T1A_6 , T1A_7 , T1A_8 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
366771.90	3798966.25	0.00035	366760.63	3798954.17	0.00033
366781.56	3798937.27	0.00033	366797.66	3798930.83	0.00033
366818.59	3798918.75	0.00033	366827.45	3798912.31	0.00033
366845.16	3798900.23	0.00032	366858.85	3798892.99	0.00032
366904.74	3798862.40	0.00029	366755.80	3799010.53	0.00038
366772.70	3799008.11	0.00040	366691.39	3799007.31	0.00030
366671.26	3799007.31	0.00028	366643.09	3799005.70	0.00025
366695.42	3798992.01	0.00030	366709.91	3798996.84	0.00032
366730.84	3798998.45	0.00034	366746.94	3798995.23	0.00035
366712.33	3798975.10	0.00030	366732.45	3798976.72	0.00032
366746.14	3798977.52	0.00034	367168.75	3799016.24	0.00084
367153.62	3799001.12	0.00076	367133.85	3799002.28	0.00074
367144.32	3798992.39	0.00071	367120.47	3798992.39	0.00069
367108.25	3798981.34	0.00064	367130.94	3798983.09	0.00066
367083.82	3798953.42	0.00053	367072.77	3798944.69	0.00050
367067.53	3798937.71	0.00048	367064.04	3798928.41	0.00046
367103.60	3798928.99	0.00048	367053.57	3798920.26	0.00043
367025.07	3798892.34	0.00037	367013.44	3798879.55	0.00035
367054.16	3798899.91	0.00040	367018.67	3798871.40	0.00034
367005.30	3798849.88	0.00030	366993.66	3798839.41	0.00029
367114.07	3798903.40	0.00044	367058.23	3798869.08	0.00035
367103.02	3798882.46	0.00039	367082.08	3798914.45	0.00044
367061.72	3798894.67	0.00039	367042.52	3798887.69	0.00037
367006.46	3798866.75	0.00032	367021.58	3798841.74	0.00030
367029.73	3798835.34	0.00029	367043.69	3798858.03	0.00033
367084.40	3798883.04	0.00038	367093.13	3798891.18	0.00040
367098.94	3798950.51	0.00054	366837.77	3798982.50	0.00043
367082.08	3798871.40	0.00036	367073.93	3798862.68	0.00034
367063.46	3799045.32	0.00088	366998.90	3799039.51	0.00076
367061.72	3798850.46	0.00032	367079.17	3798850.46	0.00033
367118.14	3798889.44	0.00041	367123.38	3798878.38	0.00039
367139.08	3798868.50	0.00039	367145.48	3798858.03	0.00037
367101.85	3798838.25	0.00032	367104.76	3798862.68	0.00036
367096.04	3798824.29	0.00030	367051.25	3798849.30	0.00032
367062.88	3798838.25	0.00031	367068.70	3798833.59	0.00030
367076.84	3798820.80	0.00029	367014.02	3798819.63	0.00027
367024.49	3798814.98	0.00027	367162.93	3798990.07	0.00072
367140.24	3798980.18	0.00066	367132.68	3798965.64	0.00061
367159.44	3798973.20	0.00065	367161.77	3798962.14	0.00062
367149.55	3798958.07	0.00060	367144.32	3798948.77	0.00056

*** MODELOPTs: NonDFAULT CONC FLAT URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TIER1A ***
INCLUDING SOURCE(S): T1A_1 , T1A_2 , T1A_3 , T1A_4 , T1A_5 ,
T1A_6 , T1A_7 , T1A_8 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
367197.83	3798965.05	0.00066	367178.63	3798942.95	0.00057
367171.65	3798928.99	0.00053	367179.22	3798924.34	0.00053
367228.66	3798958.07	0.00065	367203.65	3798938.30	0.00058
367207.72	3798929.57	0.00056	367197.25	3798916.19	0.00052
367218.77	3798919.10	0.00054	367279.26	3798960.98	0.00067
367281.59	3799037.18	0.00099	367313.51	3799050.23	0.00103
367310.77	3799027.64	0.00092	367304.61	3799043.38	0.00100
367319.67	3799018.75	0.00087	367329.93	3799007.11	0.00081
367336.09	3798994.11	0.00076	367345.67	3798986.58	0.00073
367345.67	3798974.26	0.00069	367337.46	3798961.26	0.00066
367360.73	3798959.21	0.00064	367359.36	3798944.15	0.00060
367366.89	3799035.17	0.00088	367373.73	3799022.17	0.00082
367381.26	3799014.64	0.00078	367382.63	3799002.32	0.00074
367360.73	3799061.86	0.00100	367390.84	3798993.42	0.00070
367398.37	3798974.95	0.00064	367400.42	3799019.43	0.00077
367388.10	3799042.70	0.00087	367420.27	3799006.43	0.00070
367440.80	3799023.54	0.00071			

*** MODELOPTs: NonDFAULT CONC FLAT URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TIER1BM ***
INCLUDING SOURCE(S): T1B_M_1 , T1B_M_2 , T1B_M_3 , T1B_M_4 , T1B_M_5 , T1B_M_6 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
367472.27	3799121.83	0.00003	367469.43	3799140.77	0.00003
367470.38	3799156.87	0.00003	367472.27	3799171.08	0.00003
367474.17	3799185.29	0.00003	367475.11	3799202.33	0.00003
367474.17	3799217.49	0.00003	367476.06	3799231.69	0.00003
367477.01	3799246.85	0.00003	367474.17	3799270.53	0.00004
367475.11	3799283.78	0.00004	367475.11	3799298.94	0.00004
367475.11	3799314.09	0.00004	367475.11	3799329.25	0.00004
367476.06	3799343.45	0.00004	367497.84	3799350.08	0.00004
367527.20	3799373.76	0.00003	367525.31	3799400.28	0.00003
367521.52	3799441.95	0.00004	367512.05	3799459.00	0.00004
367501.63	3799475.10	0.00004	367492.16	3799492.15	0.00004
367485.53	3799518.67	0.00004	367734.73	3799074.85	0.00001
367702.41	3799074.85	0.00001	367676.79	3799072.62	0.00002
367641.13	3799073.73	0.00002	367590.99	3799073.73	0.00002
367543.08	3799070.39	0.00002	367467.31	3799067.05	0.00003
367429.42	3799058.13	0.00003	367401.56	3799055.90	0.00003
367348.08	3799059.25	0.00004	367367.02	3799048.10	0.00003
367287.91	3799063.70	0.00004	367329.14	3799049.22	0.00004
367177.60	3799048.10	0.00006	367106.29	3799060.36	0.00009
367072.86	3799055.90	0.00010	367055.03	3799062.59	0.00012
367002.66	3799057.02	0.00015	366905.72	3799025.82	0.00013
367018.26	3798993.51	0.00008	366971.46	3798997.96	0.00010
367162.00	3799024.70	0.00006	366833.29	3798997.96	0.00007
366848.89	3798962.31	0.00006	366866.72	3798933.34	0.00005
366880.09	3798905.48	0.00004	366896.81	3798876.51	0.00003
366805.44	3799007.99	0.00007	366792.07	3799029.16	0.00008
366763.09	3799030.28	0.00008	366730.78	3799023.59	0.00006
366710.72	3799022.48	0.00006	366686.21	3799026.93	0.00006
366658.35	3799025.82	0.00005	366612.67	3799018.02	0.00004
366578.13	3799015.79	0.00003	366902.32	3799006.50	0.00010
366930.50	3798998.45	0.00010	366940.97	3798993.62	0.00009
366923.25	3798975.11	0.00008	366991.69	3798982.35	0.00008
367015.84	3799008.92	0.00009	366977.19	3798971.89	0.00008
367002.15	3798965.45	0.00007	366993.30	3798954.98	0.00007
366978.81	3798942.10	0.00006	366952.24	3798932.44	0.00005
366955.46	3798913.12	0.00005	366818.59	3798975.91	0.00006
366826.64	3798961.42	0.00005	366833.89	3798945.32	0.00005
366841.14	3798930.02	0.00004	366847.58	3798917.95	0.00004
366803.30	3798969.47	0.00005	366792.83	3798956.59	0.00005
366798.47	3798995.23	0.00006	366784.78	3798979.94	0.00006

*** MODELOPTs: NonDFAULT CONC FLAT URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TIER1BM ***
INCLUDING SOURCE(S): T1B_M_1 , T1B_M_2 , T1B_M_3 , T1B_M_4 , T1B_M_5 , T1B_M_6 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
366771.90	3798966.25	0.00005	366760.63	3798954.17	0.00004
366781.56	3798937.27	0.00004	366797.66	3798930.83	0.00004
366818.59	3798918.75	0.00004	366827.45	3798912.31	0.00004
366845.16	3798900.23	0.00004	366858.85	3798892.99	0.00004
366904.74	3798862.40	0.00003	366755.80	3799010.53	0.00006
366772.70	3799008.11	0.00007	366691.39	3799007.31	0.00005
366671.26	3799007.31	0.00005	366643.09	3799005.70	0.00004
366695.42	3798992.01	0.00005	366709.91	3798996.84	0.00005
366730.84	3798998.45	0.00005	366746.94	3798995.23	0.00006
366712.33	3798975.10	0.00004	366732.45	3798976.72	0.00005
366746.14	3798977.52	0.00005	367168.75	3799016.24	0.00006
367153.62	3799001.12	0.00006	367133.85	3799002.28	0.00006
367144.32	3798992.39	0.00006	367120.47	3798992.39	0.00006
367108.25	3798981.34	0.00006	367130.94	3798983.09	0.00006
367083.82	3798953.42	0.00006	367072.77	3798944.69	0.00005
367067.53	3798937.71	0.00005	367064.04	3798928.41	0.00005
367103.60	3798928.99	0.00005	367053.57	3798920.26	0.00005
367025.07	3798892.34	0.00004	367013.44	3798879.55	0.00004
367054.16	3798899.91	0.00004	367018.67	3798871.40	0.00004
367005.30	3798849.88	0.00003	366993.66	3798839.41	0.00003
367114.07	3798903.40	0.00004	367058.23	3798869.08	0.00004
367103.02	3798882.46	0.00004	367082.08	3798914.45	0.00005
367061.72	3798894.67	0.00004	367042.52	3798887.69	0.00004
367006.46	3798866.75	0.00004	367021.58	3798841.74	0.00003
367029.73	3798835.34	0.00003	367043.69	3798858.03	0.00004
367084.40	3798883.04	0.00004	367093.13	3798891.18	0.00004
367098.94	3798950.51	0.00005	366837.77	3798982.50	0.00006
367082.08	3798871.40	0.00004	367073.93	3798862.68	0.00004
367063.46	3799045.32	0.00010	366998.90	3799039.51	0.00013
367061.72	3798850.46	0.00003	367079.17	3798850.46	0.00003
367118.14	3798889.44	0.00004	367123.38	3798878.38	0.00004
367139.08	3798868.50	0.00003	367145.48	3798858.03	0.00003
367101.85	3798838.25	0.00003	367104.76	3798862.68	0.00003
367096.04	3798824.29	0.00003	367051.25	3798849.30	0.00003
367062.88	3798838.25	0.00003	367068.70	3798833.59	0.00003
367076.84	3798820.80	0.00003	367014.02	3798819.63	0.00003
367024.49	3798814.98	0.00003	367162.93	3798990.07	0.00005
367140.24	3798980.18	0.00005	367132.68	3798965.64	0.00005
367159.44	3798973.20	0.00005	367161.77	3798962.14	0.00005
367149.55	3798958.07	0.00005	367144.32	3798948.77	0.00005

*** MODELOPTs: NonDFAULT CONC FLAT URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TIER1BM ***
INCLUDING SOURCE(S): T1B_M_1 , T1B_M_2 , T1B_M_3 , T1B_M_4 , T1B_M_5 , T1B_M_6 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
367197.83	3798965.05	0.00004	367178.63	3798942.95	0.00004
367171.65	3798928.99	0.00004	367179.22	3798924.34	0.00004
367228.66	3798958.07	0.00004	367203.65	3798938.30	0.00004
367207.72	3798929.57	0.00004	367197.25	3798916.19	0.00004
367218.77	3798919.10	0.00003	367279.26	3798960.98	0.00003
367281.59	3799037.18	0.00004	367313.51	3799050.23	0.00004
367310.77	3799027.64	0.00004	367304.61	3799043.38	0.00004
367319.67	3799018.75	0.00004	367329.93	3799007.11	0.00003
367336.09	3798994.11	0.00003	367345.67	3798986.58	0.00003
367345.67	3798974.26	0.00003	367337.46	3798961.26	0.00003
367360.73	3798959.21	0.00003	367359.36	3798944.15	0.00003
367366.89	3799035.17	0.00003	367373.73	3799022.17	0.00003
367381.26	3799014.64	0.00003	367382.63	3799002.32	0.00003
367360.73	3799061.86	0.00003	367390.84	3798993.42	0.00003
367398.37	3798974.95	0.00003	367400.42	3799019.43	0.00003
367388.10	3799042.70	0.00003	367420.27	3799006.43	0.00003
367440.80	3799023.54	0.00002			

*** MODELOPTs: NonDFAULT CONC FLAT URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TIER1BUM ***
INCLUDING SOURCE(S): T1B_UM_1 , T1B_UM_2 , T1B_UM_3 , T1B_UM_4 , T1B_UM_5 , T1B_UM_6 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
367472.27	3799121.83	0.00091	367469.43	3799140.77	0.00096
367470.38	3799156.87	0.00098	367472.27	3799171.08	0.00100
367474.17	3799185.29	0.00103	367475.11	3799202.33	0.00105
367474.17	3799217.49	0.00109	367476.06	3799231.69	0.00111
367477.01	3799246.85	0.00113	367474.17	3799270.53	0.00118
367475.11	3799283.78	0.00120	367475.11	3799298.94	0.00123
367475.11	3799314.09	0.00125	367475.11	3799329.25	0.00127
367476.06	3799343.45	0.00129	367497.84	3799350.08	0.00120
367527.20	3799373.76	0.00111	367525.31	3799400.28	0.00114
367521.52	3799441.95	0.00118	367512.05	3799459.00	0.00123
367501.63	3799475.10	0.00128	367492.16	3799492.15	0.00132
367485.53	3799518.67	0.00135	367734.73	3799074.85	0.00044
367702.41	3799074.85	0.00047	367676.79	3799072.62	0.00050
367641.13	3799073.73	0.00054	367590.99	3799073.73	0.00061
367543.08	3799070.39	0.00068	367467.31	3799067.05	0.00083
367429.42	3799058.13	0.00091	367401.56	3799055.90	0.00099
367348.08	3799059.25	0.00118	367367.02	3799048.10	0.00108
367287.91	3799063.70	0.00146	367329.14	3799049.22	0.00122
367177.60	3799048.10	0.00209	367106.29	3799060.36	0.00297
367072.86	3799055.90	0.00339	367055.03	3799062.59	0.00386
367002.66	3799057.02	0.00495	366905.72	3799025.82	0.00435
367018.26	3798993.51	0.00273	366971.46	3798997.96	0.00314
367162.00	3799024.70	0.00201	366833.29	3798997.96	0.00242
366848.89	3798962.31	0.00185	366866.72	3798933.34	0.00154
366880.09	3798905.48	0.00131	366896.81	3798876.51	0.00113
366805.44	3799007.99	0.00241	366792.07	3799029.16	0.00276
366763.09	3799030.28	0.00247	366730.78	3799023.59	0.00209
366710.72	3799022.48	0.00194	366686.21	3799026.93	0.00183
366658.35	3799025.82	0.00163	366612.67	3799018.02	0.00130
366578.13	3799015.79	0.00112	366902.32	3799006.50	0.00331
366930.50	3798998.45	0.00319	366940.97	3798993.62	0.00305
366923.25	3798975.11	0.00247	366991.69	3798982.35	0.00265
367015.84	3799008.92	0.00309	366977.19	3798971.89	0.00247
367002.15	3798965.45	0.00229	366993.30	3798954.98	0.00214
366978.81	3798942.10	0.00196	366952.24	3798932.44	0.00180
366955.46	3798913.12	0.00157	366818.59	3798975.91	0.00192
366826.64	3798961.42	0.00175	366833.89	3798945.32	0.00158
366841.14	3798930.02	0.00144	366847.58	3798917.95	0.00134
366803.30	3798969.47	0.00177	366792.83	3798956.59	0.00157
366798.47	3798995.23	0.00212	366784.78	3798979.94	0.00182

*** MODELOPTs: NonDFAULT CONC FLAT URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TIER1BUM ***
INCLUDING SOURCE(S): T1B_UM_1 , T1B_UM_2 , T1B_UM_3 , T1B_UM_4 , T1B_UM_5 , T1B_UM_6 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
366771.90	3798966.25	0.00160	366760.63	3798954.17	0.00144
366781.56	3798937.27	0.00136	366797.66	3798930.83	0.00134
366818.59	3798918.75	0.00128	366827.45	3798912.31	0.00125
366845.16	3798900.23	0.00119	366858.85	3798892.99	0.00116
366904.74	3798862.40	0.00106	366755.80	3799010.53	0.00207
366772.70	3799008.11	0.00215	366691.39	3799007.31	0.00165
366671.26	3799007.31	0.00154	366643.09	3799005.70	0.00137
366695.42	3798992.01	0.00152	366709.91	3798996.84	0.00164
366730.84	3798998.45	0.00176	366746.94	3798995.23	0.00181
366712.33	3798975.10	0.00145	366732.45	3798976.72	0.00155
366746.14	3798977.52	0.00161	367168.75	3799016.24	0.00189
367153.62	3799001.12	0.00187	367133.85	3799002.28	0.00201
367144.32	3798992.39	0.00185	367120.47	3798992.39	0.00200
367108.25	3798981.34	0.00197	367130.94	3798983.09	0.00185
367083.82	3798953.42	0.00182	367072.77	3798944.69	0.00178
367067.53	3798937.71	0.00173	367064.04	3798928.41	0.00165
367103.60	3798928.99	0.00154	367053.57	3798920.26	0.00160
367025.07	3798892.34	0.00141	367013.44	3798879.55	0.00131
367054.16	3798899.91	0.00144	367018.67	3798871.40	0.00125
367005.30	3798849.88	0.00111	366993.66	3798839.41	0.00105
367114.07	3798903.40	0.00134	367058.23	3798869.08	0.00122
367103.02	3798882.46	0.00124	367082.08	3798914.45	0.00149
367061.72	3798894.67	0.00139	367042.52	3798887.69	0.00136
367006.46	3798866.75	0.00122	367021.58	3798841.74	0.00107
367029.73	3798835.34	0.00104	367043.69	3798858.03	0.00116
367084.40	3798883.04	0.00127	367093.13	3798891.18	0.00131
367098.94	3798950.51	0.00173	366837.77	3798982.50	0.00213
367082.08	3798871.40	0.00121	367073.93	3798862.68	0.00117
367063.46	3799045.32	0.00331	366998.90	3799039.51	0.00428
367061.72	3798850.46	0.00111	367079.17	3798850.46	0.00110
367118.14	3798889.44	0.00125	367123.38	3798878.38	0.00118
367139.08	3798868.50	0.00111	367145.48	3798858.03	0.00105
367101.85	3798838.25	0.00102	367104.76	3798862.68	0.00113
367096.04	3798824.29	0.00097	367051.25	3798849.30	0.00111
367062.88	3798838.25	0.00105	367068.70	3798833.59	0.00102
367076.84	3798820.80	0.00096	367014.02	3798819.63	0.00096
367024.49	3798814.98	0.00094	367162.93	3798990.07	0.00173
367140.24	3798980.18	0.00178	367132.68	3798965.64	0.00170
367159.44	3798973.20	0.00163	367161.77	3798962.14	0.00155
367149.55	3798958.07	0.00157	367144.32	3798948.77	0.00153

*** MODELOPTs: NonDFAULT CONC FLAT URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TIER1BUM ***
INCLUDING SOURCE(S): T1B_UM_1 , T1B_UM_2 , T1B_UM_3 , T1B_UM_4 , T1B_UM_5 , T1B_UM_6 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
367197.83	3798965.05	0.00141	367178.63	3798942.95	0.00137
367171.65	3798928.99	0.00132	367179.22	3798924.34	0.00127
367228.66	3798958.07	0.00126	367203.65	3798938.30	0.00126
367207.72	3798929.57	0.00121	367197.25	3798916.19	0.00118
367218.77	3798919.10	0.00114	367279.26	3798960.98	0.00111
367281.59	3799037.18	0.00138	367313.51	3799050.23	0.00129
367310.77	3799027.64	0.00122	367304.61	3799043.38	0.00130
367319.67	3799018.75	0.00116	367329.93	3799007.11	0.00109
367336.09	3798994.11	0.00103	367345.67	3798986.58	0.00098
367345.67	3798974.26	0.00095	367337.46	3798961.26	0.00094
367360.73	3798959.21	0.00088	367359.36	3798944.15	0.00085
367366.89	3799035.17	0.00104	367373.73	3799022.17	0.00099
367381.26	3799014.64	0.00095	367382.63	3799002.32	0.00092
367360.73	3799061.86	0.00114	367390.84	3798993.42	0.00088
367398.37	3798974.95	0.00083	367400.42	3799019.43	0.00091
367388.10	3799042.70	0.00100	367420.27	3799006.43	0.00084
367440.80	3799023.54	0.00082			

*** MODELOPTs: NonDFAULT CONC FLAT URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): T1A_1 , T1A_2 , T1A_3 , T1A_4 , T1A_5 ,
T1A_6 , T1A_7 , T1A_8 , T1B_UM_1 , T1B_UM_2 , T1B_UM_3 , T1B_UM_4 , T1B_UM_5 ,
T1B_UM_6 , T1B_M_1 , T1B_M_2 , T1B_M_3 , T1B_M_4 , T1B_M_5 , T1B_M_6 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
367472.27	3799121.83	0.00186	367469.43	3799140.77	0.00197
367470.38	3799156.87	0.00206	367472.27	3799171.08	0.00212
367474.17	3799185.29	0.00219	367475.11	3799202.33	0.00228
367474.17	3799217.49	0.00239	367476.06	3799231.69	0.00246
367477.01	3799246.85	0.00255	367474.17	3799270.53	0.00274
367475.11	3799283.78	0.00283	367475.11	3799298.94	0.00293
367475.11	3799314.09	0.00304	367475.11	3799329.25	0.00315
367476.06	3799343.45	0.00323	367497.84	3799350.08	0.00295
367527.20	3799373.76	0.00269	367525.31	3799400.28	0.00281
367521.52	3799441.95	0.00298	367512.05	3799459.00	0.00314
367501.63	3799475.10	0.00332	367492.16	3799492.15	0.00349
367485.53	3799518.67	0.00359	367734.73	3799074.85	0.00083
367702.41	3799074.85	0.00089	367676.79	3799072.62	0.00095
367641.13	3799073.73	0.00103	367590.99	3799073.73	0.00118
367543.08	3799070.39	0.00133	367467.31	3799067.05	0.00163
367429.42	3799058.13	0.00177	367401.56	3799055.90	0.00190
367348.08	3799059.25	0.00223	367367.02	3799048.10	0.00204
367287.91	3799063.70	0.00265	367329.14	3799049.22	0.00226
367177.60	3799048.10	0.00318	367106.29	3799060.36	0.00409
367072.86	3799055.90	0.00444	367055.03	3799062.59	0.00494
367002.66	3799057.02	0.00595	366905.72	3799025.82	0.00506
367018.26	3798993.51	0.00342	366971.46	3798997.96	0.00381
367162.00	3799024.70	0.00295	366833.29	3798997.96	0.00294
366848.89	3798962.31	0.00231	366866.72	3798933.34	0.00196
366880.09	3798905.48	0.00169	366896.81	3798876.51	0.00147
366805.44	3799007.99	0.00292	366792.07	3799029.16	0.00329
366763.09	3799030.28	0.00296	366730.78	3799023.59	0.00252
366710.72	3799022.48	0.00233	366686.21	3799026.93	0.00219
366658.35	3799025.82	0.00196	366612.67	3799018.02	0.00157
366578.13	3799015.79	0.00136	366902.32	3799006.50	0.00394
366930.50	3798998.45	0.00382	366940.97	3798993.62	0.00368
366923.25	3798975.11	0.00302	366991.69	3798982.35	0.00328
367015.84	3799008.92	0.00384	366977.19	3798971.89	0.00305
367002.15	3798965.45	0.00287	366993.30	3798954.98	0.00268
366978.81	3798942.10	0.00246	366952.24	3798932.44	0.00226
366955.46	3798913.12	0.00199	366818.59	3798975.91	0.00238
366826.64	3798961.42	0.00219	366833.89	3798945.32	0.00199
366841.14	3798930.02	0.00183	366847.58	3798917.95	0.00172
366803.30	3798969.47	0.00220	366792.83	3798956.59	0.00198
366798.47	3798995.23	0.00259	366784.78	3798979.94	0.00225

*** MODELOPTs: NonDFAULT CONC FLAT URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): T1A_1 , T1A_2 , T1A_3 , T1A_4 , T1A_5 ,
T1A_6 , T1A_7 , T1A_8 , T1B_UM_1 , T1B_UM_2 , T1B_UM_3 , T1B_UM_4 , T1B_UM_5 ,
T1B_UM_6 , T1B_M_1 , T1B_M_2 , T1B_M_3 , T1B_M_4 , T1B_M_5 , T1B_M_6 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
366771.90	3798966.25	0.00200	366760.63	3798954.17	0.00182
366781.56	3798937.27	0.00172	366797.66	3798930.83	0.00171
366818.59	3798918.75	0.00165	366827.45	3798912.31	0.00161
366845.16	3798900.23	0.00155	366858.85	3798892.99	0.00152
366904.74	3798862.40	0.00138	366755.80	3799010.53	0.00251
366772.70	3799008.11	0.00262	366691.39	3799007.31	0.00200
366671.26	3799007.31	0.00186	366643.09	3799005.70	0.00167
366695.42	3798992.01	0.00187	366709.91	3798996.84	0.00200
366730.84	3798998.45	0.00216	366746.94	3798995.23	0.00222
366712.33	3798975.10	0.00180	366732.45	3798976.72	0.00192
366746.14	3798977.52	0.00200	367168.75	3799016.24	0.00279
367153.62	3799001.12	0.00268	367133.85	3799002.28	0.00281
367144.32	3798992.39	0.00262	367120.47	3798992.39	0.00275
367108.25	3798981.34	0.00266	367130.94	3798983.09	0.00257
367083.82	3798953.42	0.00240	367072.77	3798944.69	0.00233
367067.53	3798937.71	0.00226	367064.04	3798928.41	0.00216
367103.60	3798928.99	0.00207	367053.57	3798920.26	0.00209
367025.07	3798892.34	0.00182	367013.44	3798879.55	0.00170
367054.16	3798899.91	0.00187	367018.67	3798871.40	0.00163
367005.30	3798849.88	0.00145	366993.66	3798839.41	0.00137
367114.07	3798903.40	0.00182	367058.23	3798869.08	0.00160
367103.02	3798882.46	0.00167	367082.08	3798914.45	0.00198
367061.72	3798894.67	0.00182	367042.52	3798887.69	0.00177
367006.46	3798866.75	0.00158	367021.58	3798841.74	0.00140
367029.73	3798835.34	0.00136	367043.69	3798858.03	0.00152
367084.40	3798883.04	0.00169	367093.13	3798891.18	0.00175
367098.94	3798950.51	0.00232	366837.77	3798982.50	0.00262
367082.08	3798871.40	0.00161	367073.93	3798862.68	0.00155
367063.46	3799045.32	0.00429	366998.90	3799039.51	0.00517
367061.72	3798850.46	0.00147	367079.17	3798850.46	0.00146
367118.14	3798889.44	0.00170	367123.38	3798878.38	0.00161
367139.08	3798868.50	0.00153	367145.48	3798858.03	0.00145
367101.85	3798838.25	0.00137	367104.76	3798862.68	0.00153
367096.04	3798824.29	0.00130	367051.25	3798849.30	0.00146
367062.88	3798838.25	0.00139	367068.70	3798833.59	0.00136
367076.84	3798820.80	0.00128	367014.02	3798819.63	0.00126
367024.49	3798814.98	0.00124	367162.93	3798990.07	0.00250
367140.24	3798980.18	0.00249	367132.68	3798965.64	0.00236
367159.44	3798973.20	0.00233	367161.77	3798962.14	0.00221
367149.55	3798958.07	0.00222	367144.32	3798948.77	0.00214

*** MODELOPTs: NonDFAULT CONC FLAT URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): T1A_1 , T1A_2 , T1A_3 , T1A_4 , T1A_5 ,
T1A_6 , T1A_7 , T1A_8 , T1B_UM_1 , T1B_UM_2 , T1B_UM_3 , T1B_UM_4 , T1B_UM_5 ,
T1B_UM_6 , T1B_M_1 , T1B_M_2 , T1B_M_3 , T1B_M_4 , T1B_M_5 , T1B_M_6 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
367197.83	3798965.05	0.00211	367178.63	3798942.95	0.00199
367171.65	3798928.99	0.00189	367179.22	3798924.34	0.00184
367228.66	3798958.07	0.00195	367203.65	3798938.30	0.00188
367207.72	3798929.57	0.00180	367197.25	3798916.19	0.00174
367218.77	3798919.10	0.00171	367279.26	3798960.98	0.00181
367281.59	3799037.18	0.00241	367313.51	3799050.23	0.00235
367310.77	3799027.64	0.00218	367304.61	3799043.38	0.00234
367319.67	3799018.75	0.00206	367329.93	3799007.11	0.00193
367336.09	3798994.11	0.00182	367345.67	3798986.58	0.00174
367345.67	3798974.26	0.00167	367337.46	3798961.26	0.00163
367360.73	3798959.21	0.00154	367359.36	3798944.15	0.00148
367366.89	3799035.17	0.00195	367373.73	3799022.17	0.00184
367381.26	3799014.64	0.00176	367382.63	3799002.32	0.00169
367360.73	3799061.86	0.00217	367390.84	3798993.42	0.00161
367398.37	3798974.95	0.00150	367400.42	3799019.43	0.00170
367388.10	3799042.70	0.00189	367420.27	3799006.43	0.00156
367440.80	3799023.54	0.00156			

*** MODELOPTs: NonDFAULT CONC FLAT URBAN ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (43848 HRS) RESULTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
TIER1A	1ST HIGHEST VALUE IS	0.00220 AT (367485.53, 3799518.67, 236.00, 236.00, 0.00)	DC	
	2ND HIGHEST VALUE IS	0.00212 AT (367492.16, 3799492.15, 236.00, 236.00, 0.00)	DC	
	3RD HIGHEST VALUE IS	0.00201 AT (367501.63, 3799475.10, 236.00, 236.00, 0.00)	DC	
	4TH HIGHEST VALUE IS	0.00190 AT (367476.06, 3799343.45, 236.00, 236.00, 0.00)	DC	
	5TH HIGHEST VALUE IS	0.00188 AT (367512.05, 3799459.00, 236.00, 236.00, 0.00)	DC	
	6TH HIGHEST VALUE IS	0.00183 AT (367475.11, 3799329.25, 236.00, 236.00, 0.00)	DC	
	7TH HIGHEST VALUE IS	0.00176 AT (367521.52, 3799441.95, 236.00, 236.00, 0.00)	DC	
	8TH HIGHEST VALUE IS	0.00175 AT (367475.11, 3799314.09, 236.00, 236.00, 0.00)	DC	
	9TH HIGHEST VALUE IS	0.00171 AT (367497.84, 3799350.08, 236.00, 236.00, 0.00)	DC	
	10TH HIGHEST VALUE IS	0.00167 AT (367475.11, 3799298.94, 236.00, 236.00, 0.00)	DC	
TIER1BM	1ST HIGHEST VALUE IS	0.00015 AT (367002.66, 3799057.02, 236.00, 236.00, 0.00)	DC	
	2ND HIGHEST VALUE IS	0.00013 AT (366905.72, 3799025.82, 236.00, 236.00, 0.00)	DC	
	3RD HIGHEST VALUE IS	0.00013 AT (366998.90, 3799039.51, 236.00, 236.00, 0.00)	DC	
	4TH HIGHEST VALUE IS	0.00012 AT (367055.03, 3799062.59, 236.00, 236.00, 0.00)	DC	
	5TH HIGHEST VALUE IS	0.00010 AT (367072.86, 3799055.90, 236.00, 236.00, 0.00)	DC	
	6TH HIGHEST VALUE IS	0.00010 AT (367063.46, 3799045.32, 236.00, 236.00, 0.00)	DC	
	7TH HIGHEST VALUE IS	0.00010 AT (366902.32, 3799006.50, 236.00, 236.00, 0.00)	DC	
	8TH HIGHEST VALUE IS	0.00010 AT (366930.50, 3798998.45, 236.00, 236.00, 0.00)	DC	
	9TH HIGHEST VALUE IS	0.00010 AT (366971.46, 3798997.96, 236.00, 236.00, 0.00)	DC	
	10TH HIGHEST VALUE IS	0.00009 AT (367015.84, 3799008.92, 236.00, 236.00, 0.00)	DC	
TIER1BUM	1ST HIGHEST VALUE IS	0.00495 AT (367002.66, 3799057.02, 236.00, 236.00, 0.00)	DC	
	2ND HIGHEST VALUE IS	0.00435 AT (366905.72, 3799025.82, 236.00, 236.00, 0.00)	DC	
	3RD HIGHEST VALUE IS	0.00428 AT (366998.90, 3799039.51, 236.00, 236.00, 0.00)	DC	
	4TH HIGHEST VALUE IS	0.00386 AT (367055.03, 3799062.59, 236.00, 236.00, 0.00)	DC	
	5TH HIGHEST VALUE IS	0.00339 AT (367072.86, 3799055.90, 236.00, 236.00, 0.00)	DC	
	6TH HIGHEST VALUE IS	0.00331 AT (367063.46, 3799045.32, 236.00, 236.00, 0.00)	DC	
	7TH HIGHEST VALUE IS	0.00331 AT (366902.32, 3799006.50, 236.00, 236.00, 0.00)	DC	
	8TH HIGHEST VALUE IS	0.00319 AT (366930.50, 3798998.45, 236.00, 236.00, 0.00)	DC	
	9TH HIGHEST VALUE IS	0.00314 AT (366971.46, 3798997.96, 236.00, 236.00, 0.00)	DC	
	10TH HIGHEST VALUE IS	0.00309 AT (367015.84, 3799008.92, 236.00, 236.00, 0.00)	DC	
ALL	1ST HIGHEST VALUE IS	0.00595 AT (367002.66, 3799057.02, 236.00, 236.00, 0.00)	DC	
	2ND HIGHEST VALUE IS	0.00517 AT (366998.90, 3799039.51, 236.00, 236.00, 0.00)	DC	
	3RD HIGHEST VALUE IS	0.00506 AT (366905.72, 3799025.82, 236.00, 236.00, 0.00)	DC	
	4TH HIGHEST VALUE IS	0.00494 AT (367055.03, 3799062.59, 236.00, 236.00, 0.00)	DC	
	5TH HIGHEST VALUE IS	0.00444 AT (367072.86, 3799055.90, 236.00, 236.00, 0.00)	DC	
	6TH HIGHEST VALUE IS	0.00429 AT (367063.46, 3799045.32, 236.00, 236.00, 0.00)	DC	
	7TH HIGHEST VALUE IS	0.00409 AT (367106.29, 3799060.36, 236.00, 236.00, 0.00)	DC	
	8TH HIGHEST VALUE IS	0.00394 AT (366902.32, 3799006.50, 236.00, 236.00, 0.00)	DC	
	9TH HIGHEST VALUE IS	0.00384 AT (367015.84, 3799008.92, 236.00, 236.00, 0.00)	DC	
	10TH HIGHEST VALUE IS	0.00382 AT (366930.50, 3798998.45, 236.00, 236.00, 0.00)	DC	

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** MODELOPTs: NonDFAULT CONC FLAT URBAN ADJ_U*

*** Message Summary : AERMOD Model Execution ***

 --------- Summary of Total Messages --------

A Total of   0 Fatal Error Message(s)
A Total of   2 Warning Message(s)
A Total of   713 Informational Message(s)

A Total of   43848 Hours Were Processed

A Total of   519 Calm Hours Identified

A Total of   194 Missing Hours Identified (0.44 Percent)

   ******** FATAL ERROR MESSAGES ********
              *** NONE ***

   ********   WARNING MESSAGES   ********
ME W186   933   MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used   0.50
ME W187   933   MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

   ****
   *** AERMOD Finishes Successfully ***
   ****

Appendix D

Biology Surveys

Appendix D1

CNDDB Survey

Selected Elements by Scientific Name

California Department of Fish and Wildlife

California Natural Diversity Database

Query Criteria: Quad IS (San Fernando (3411834) OR Oat Mountain (3411835) OR Canoga Park (3411825) OR Van Nuys (3411824) OR Burbank (3411823) OR Sunland (3411833) OR Newhall (3411845) OR Mint Canyon (3411844) OR Agua Dulce (3411843))
 AND Taxonomic Group IS (Ferns OR Gymnosperms OR Monocots OR Dicots OR Lichens OR Bryophytes)

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Astragalus brauntonii Braunton's milk-vetch	PDFAB0F1G0	Endangered	None	G2	S2	1B.1
Atriplex parishii Parish's brittlescale	PDCHE041D0	None	None	G1G2	S1	1B.1
Berberis nevinii Nevin's barberry	PDBER060A0	Endangered	Endangered	G1	S1	1B.1
California macrophylla round-leaved filaree	PDGER01070	None	None	G3?	S3?	1B.2
Calochortus clavatus var. gracilis slender mariposa-lily	PMLIL0D096	None	None	G4T2T3	S2S3	1B.2
Calochortus plummerae Plummer's mariposa-lily	PMLIL0D150	None	None	G4	S4	4.2
Calystegia peirsonii Peirson's morning-glory	PDCON040A0	None	None	G4	S4	4.2
Centromadia parryi ssp. australis southern tarplant	PDAST4R0P4	None	None	G3T2	S2	1B.1
Chorizanthe parryi var. fernandina San Fernando Valley spineflower	PDPGN040J1	Proposed Threatened	Endangered	G2T1	S1	1B.1
Deinandra minthornii Santa Susana tarplant	PDAST4R0J0	None	Rare	G2	S2	1B.2
Dodecahema leptoceras slender-horned spineflower	PDPGN0V010	Endangered	Endangered	G1	S1	1B.1
Dudleya blochmaniae ssp. blochmaniae Blochman's dudleya	PDCRA04051	None	None	G3T2	S2	1B.1
Dudleya multicaulis many-stemmed dudleya	PDCRA040H0	None	None	G2	S2	1B.2
Harpagonella palmeri Palmer's grapplinghook	PDBOR0H010	None	None	G4	S3	4.2
Helianthus inexpectatus Newhall sunflower	PDAST4N250	None	None	G1	S1	1B.1
Horkelia cuneata var. puberula mesa horkelia	PDROS0W045	None	None	G4T1	S1	1B.1
Lasthenia glabrata ssp. coulteri Coulter's goldfields	PDAST5L0A1	None	None	G4T2	S2	1B.1
Lepidium virginicum var. robinsonii Robinson's pepper-grass	PDBRA1M114	None	None	G5T3	S3	4.3

Selected Elements by Scientific Name

California Department of Fish and Wildlife

California Natural Diversity Database

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Malacothamnus davidsonii Davidson's bush-mallow	PDMAL0Q040	None	None	G2	S2	1B.2
Monardella hypoleuca ssp. hypoleuca white-veined monardella	PDLAM180A3	None	None	G4T3	S3	1B.3
Navarretia fossalis spreading navarretia	PDPLM0C080	Threatened	None	G2	S2	1B.1
Navarretia setiloba Piute Mountains navarretia	PDPLM0C0S0	None	None	G2	S2	1B.1
Opuntia basilaris var. brachyclada short-joint beavertail	PDCAC0D053	None	None	G5T3	S3	1B.2
Orcuttia californica California Orcutt grass	PMPOA4G010	Endangered	Endangered	G1	S1	1B.1
Pseudognaphalium leucocephalum white rabbit-tobacco	PDAST440C0	None	None	G4	S2	2B.2
Senecio aphanactis chaparral ragwort	PDAST8H060	None	None	G3	S2	2B.2
Symphyotrichum greatae Greata's aster	PDASTE80U0	None	None	G2	S2	1B.3

Record Count: 27

Appendix D2

CNPS Survey

September 27, 2017

Hoda El Sokkary, P.E., MSc.
Senior Capital Projects Manager
Los Angeles County Public Works
900 S. Fremont Avenue
Alahambra, CA 91803

Subject: Special-Status Plant Survey Report – Survey Results for the Olive View-UCLA Medical Center Campus Master Plan Project located in Sylmar, Los Angeles County, California

Dear Ms. El Sokkary:

This report documents the results of focused special-status plant surveys conducted by ICF (consultant to the Los Angeles County Department of Public Works) between April 2017 and May 2017 in support of the proposed Olive View-UCLA Medical Center Campus Master Plan Project (Project).

Location

The Project site is located at 14445 Olive View Drive on several parcels of land owned by the County of Los Angeles. The campus is located within the community of Sylmar, at the north end of the San Fernando Valley, in the City of Los Angeles, California. Specifically, the site is bounded by the Angeles National Forest and Wilson Canyon Debris Basin on the north, Olive View Drive on the south, Los Angeles County Flood Control District facilities and Wilson Canyon Park on the east, and Bucher Avenue to the west. Kennedy Road and Cobalt Street intersect the Project site in a north to south orientation. The Project site is located east of the I-5 freeway and north of the I-210 freeway (Figure 1).

The Project site is depicted within Township 3 North, Range 15 West, Sections 21 and 22 of the San Fernando, California, U.S. Geological Survey 7.5-minute quadrangle map (Figure 2).

Existing Conditions

The 230-acre Project site is located at the Olive View-UCLA Medical Center campus and consists of 31 permanent buildings and 29 trailers and other modular structures. The Project abuts the foothills of the San Gabriel Mountains, which are a part of the Angeles National Forest. Horse trails and hiking trails run along the northern edge of the campus. Predominantly single-family residential neighborhoods are located to the east of the campus. A mix of single-family (including ranch style homes with equestrian facilities) residences, multi-family residences, and some commercial uses are located to the south of the campus across Olive View Drive. Residential uses are also located just west of the campus and north of I-210.

Developed areas make up a majority of the study area followed by disturbed habitat. These areas have been physically altered and include existing campus infrastructure, medium-density residential communities, roads and hardscape structures, other manmade features, and ornamental trees. Disturbed habitat includes areas permanently altered by previous human activity including grading, repeated clearing, and dirt roads. Disturbed habitat is typically characterized by more than 50 percent bare ground and absence of remnant native vegetation. Disturbed habitat within the study area surrounds existing development within the Project site, and is dominated by nonnative grasses and other species, including ripgut grass (*Bromus diandrus*), wild oat (*Avena barbata*), tocalote (*Centaurea melitensis*), shortpod mustard (*Hirschfeldia incana*), indian hedgemustard (*Sisymbrium oritentale*), and Russian thistle (*Salsola* tragus).

Additional habitat types within the study area include California sagebrush scrub dominated by California sagebrush (*Artemesia californica*), Eucalyptus groves consisting of several species of Eucalyptus (*Eucalyptus spp.*) and Coast live oak woodland dominated by coast live oaks (*Quercus agrifolia*) (Figure 3).

Methods

Literature Review

A literature review of the relevant regional databases for special-status plants in the vicinity of the Project site was performed prior to conducting the field surveys. Special-status plants include those federally listed as endangered, threatened, or proposed for listing; state-listed as endangered, threatened, rare, or proposed for listing, or having a California Rare Plant Rank (CRPR) of 1B, 2, 3, or 4. CRPR 1B plants are "plants rare, threatened, or endangered in California and elsewhere," CRPR 2 plants are "plants rare, threatened, or endangered in California but more common elsewhere"; CRPR 3 plants are "plants about which we need more information - a review list"; and CRPR 4 plants are "plants of limited distribution – a watch list." The literature review included the following:

- The California Natural Diversity Database (CNDDB;CDFW 2017) 9-quad search for the Project site centered on the San Fernando USGS 7.5' Quadrangle;
- The California Native Plant Society (CNPS;CNPS 2017) 9-quad search for the Project site centered on the San Fernando USGS 7.5' Quadrangle;
- Topographic maps for the study area (Google Earth 2017-dated July 28, 2017).

The results of the literature review were compiled into a list of potentially occurring special-status plant species (Appendix A) and each species was analyzed for its potential to occur within the Project site based on a variety of conditions including range, elevation, soils, and vegetation communities.

Focused Special-Status plant Survey

Focused special-status plant surveys were conducted during the growing and blooming season using two visits to the Project site. Special-status plant surveys were conducted within suitable habitat in the Project Study Area (PSA) which included the Project site plus a 100-ft buffer (Figure 3). Table 1 provides dates, times, personnel, and weather conditions at the time of the surveys.

Focused special-status plant surveys were floristic in nature and performed in accordance with survey protocols set forth by *Protocols for Surveying and Evaluating Impacts to Special Status Native Plant*

Populations and Natural Communities (CDFG 2009). Focused surveys were conducted on foot and consisted of meandering transects so as to physically observe all portions of potentially suitable habitat within the PSA. During focused surveys, all plant species observed were recorded in field notes and any unknown plants encountered were collected and identified in the field or back in the laboratory using *The Jepson Manual: Vascular Plants of California* (Baldwin et al. 2012). All plant species observed were identified to the taxonomic level necessary (species, subspecies, or variety) to determine rarity. A comprehensive list of all plant species observed within the PSA is provided in Appendix B. Photographs were taken to document the conditions during the focused surveys (Appendix C).

Table 1. Survey Dates, Personnel, and Weather Conditions

Visit	Date	Time	Biologist	Conditions
1	4/19/2017	0830-1430	Phillip Richards	62 – 80°F, sunny, winds 2--6 mph
2	5/15/2017	0830-1445	Phillip Richards	56 – 60°F, cloudy, winds 2-5 mph

Results

Literature Review

Based on the CNDDB and CNPS 9-quad search, 30 special-status plant species were evaluated for potential to occur within the PSA:

- Braunton's milk-vetch (*Astragalus brauntonii*)
- Parish's brittlescale (*Atriplex parishii*)
- Nevin's barberry (*Berberis nevinii*)
- Round-leaved filaree (*California macrophylla*)
- Slender mariposa-lily (*Calochortus clavatus* var. *gracilis*)
- Plummer's mariposa-lily (*Calochortus plummerae*)
- Peirson's morning-glory (*Calystegia peirsonii*)
- Lewis' evening-primrose (*Camissoniopsis lewisii*)
- Southern tarplant (*Centromadia parryi* ssp. *australis*)
- San Fernando Valley spineflower (*Chorizanthe parryi* var. *fernandina*)
- Santa Susana tarplant (*Deinandra minthornii*)
- Slender-horned spineflower (*Dodecahema leptoceras*)
- Blochman's dudleya (*Dudleya blochmaniae* ssp. *blochmaniae*)
- Many-stemmed dudleya (*Dudleya multicaulis*)
- Palmer's grapplinghook (*Harpagonella palmeri*)
- Newhall sunflower (*Helianthus inexpectatus*)
- Vernal barley (*Hordeum intercedens*)
- Mesa horkelia (*Horkelia cuneata* var. *puberula*)
- Coulter's goldfields (*Lasthenia glabrata* ssp. *coulteri*)
- Robinson's pepper-grass (*Lepidium virginicum* var. *robinsonii*)
- Theodore Payne's bush lupine (*Lupinus paynei*)
- Davidson's bush-mallow (*Malacothamnus davidsonii*)

- White-veined monardella (*Monardella hypoleuca* ssp. hypoleuca)
- Spreading navarretia (*Navarretia fossalis*)
- Paiute Mountains navarretia (*Navarretia setiloba*)
- Short-joint beavertail (*Opuntia basilaris* var. *brachyclada*)
- California Orcutt grass (*Orcuttia californica*)
- White rabbit-tobacco (*Pseudognaphalium leucocephalum*)
- Chaparral ragwort (*Senecio aphanactis*)
- Greata's aster (*Symphyotrichum greatae*)

Each species was evaluated for the potential to occur within the PSA based on a variety of factors such as range, elevation, soils, and vegetation communities (Appendix A). Of the 30 special-status plants identified, 15 were deemed to have a low to moderate potential to occur and included Braunton's milk-vetch, Nevin's barberry, Slender mariposa-lily, Plummer's mariposa-lily, Peirson's morning-glory, southern tarplant, San Fernando Valley spineflower, slender-horned spineflower, mesa horkelia, Robinson's pepper-grass, Theodore Payne's bush lupine, Davidson's bush-mallow, white-veined monardella, Paiute Mountains navarretia, and white rabbit-tobacco. The remaining 15 were not expected based on elevation range and/or lack of suitable conditions.

Results

General Floristics

A total of 111 plant species (Appendix B), representing 36 plant families were identified within the PSA. Of this total, 72 (65 percent) are native to southern California and 39 (35 percent) are nonnative, introduced species.

Special-Status Plants

No special-status plants were observed during the focused survey effort and are presumed to be absent from the PSA.

If you have questions or need clarifications regarding this report, please contact me at (949) 333-6643 or Phillip.Richards@icfi.com.

Sincerely,

Phillip Richards
ICF Biologist

Enclosed:
Figure 1: Regional Vicinity Map
Figure 2: Topographic Study Site Map
Figure 3: Habitat Map

Appendix A: Special-Status Plant Species with Potential to Occur in the Project Study Area
Appendix B: Plant Species Detected
Appendix C: Photolog

Literature Cited

Baldwin, B.G, D. Goldman, D.J. Keil, R. Patterson, T.J. Rosatti, and D. Wilken (Eds.) 2012. *The Jepson Manual: Vascular Plants of California*. Berkeley, CA: University of California Press. 1,568 pp.

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———. 2017. Inventory of Rare and Endangered Plants (online edition, v8-02). California Native Plant Society, Sacramento, CA. Online: http://www.rareplants.cnps.org. Site visited on July 28, 2017.

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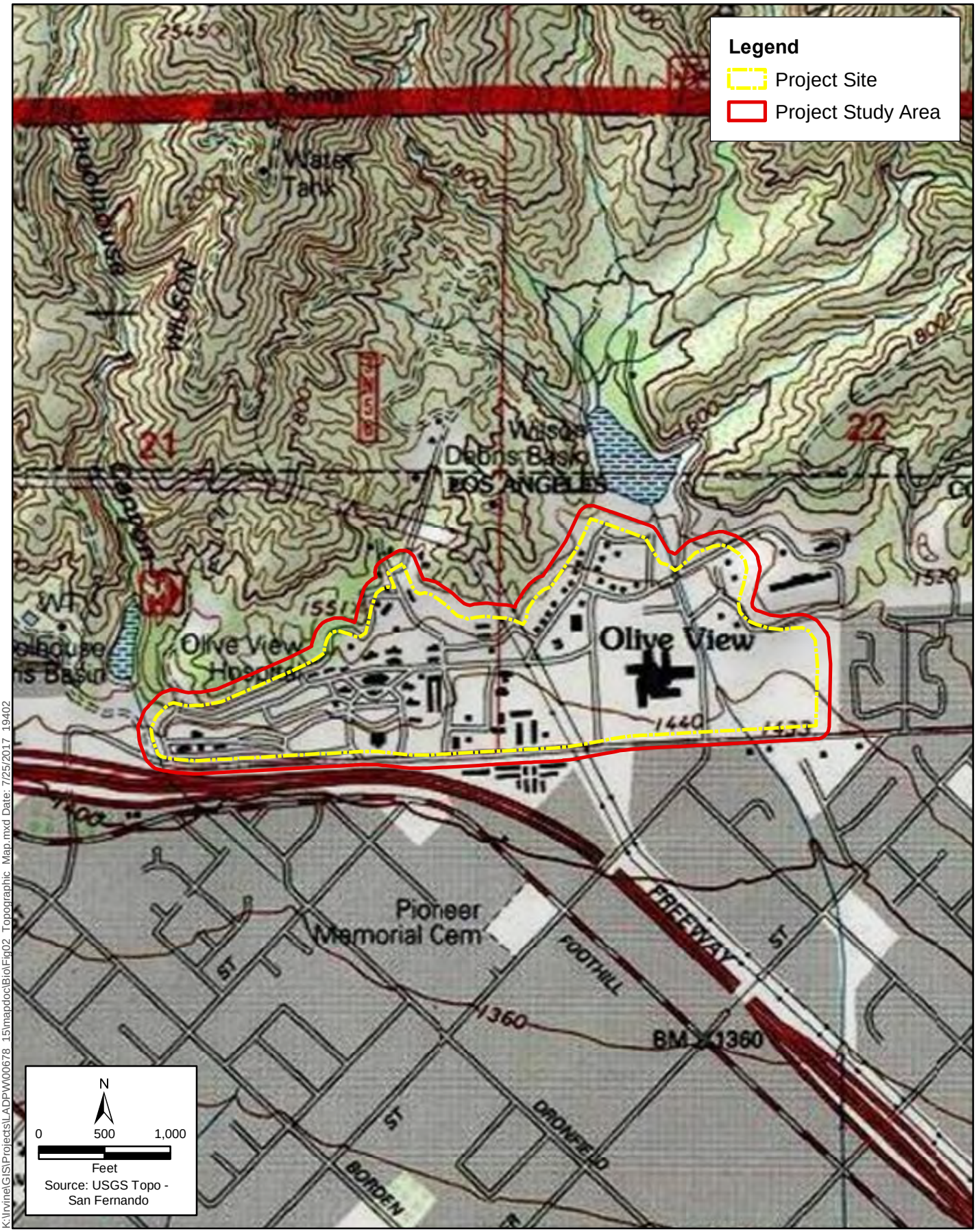
U.S. Geological Survey. 1967a. San Fernando, 7.5-minute topographic map. Reston, VA. Color, revised 1988, scale 1:24,000.

Figures

K:\Irvine\GIS\Projects\LADPW\00678 15\mapdoc\Fig01 Regional Location.mxd Date: 7/25/2017 19402

Figure 1
Regional Location
Olive View-UCLA Medical Center Master Plan



K:\Irvine\GIS\Projects\LADPW\00678_15\mapdoc\BioFig02_Topographic_Map.mxd Date: 7/25/2017 19402

Figure 2
Topographic Map
Olive View-UCLA Medical Center Master Plan

K:\Irvine\GIS\Projects\LADPW00678_15\mapdoc\BioHab\Fig03_Habitat_Map.mxd Date: 7/25/2017 19402

Figure 3
Habitat Map
Olive View-UCLA Medical Center Master Plan

Appendix A

Special-Status Plant Species

Appendix A - Special-Status Plant Species with Potential to Occur in the Project Study Area

Species	Status	Habitat Requirements	Potential to Occur
Plants			
Braunton's milk-vetch (*Astragalus brauntonii*)	FE, CRPR 1B.1	Perennial herb. Occurs in recently burned and disturbed areas with sandstone and carbonite soils in chaparral, coastal scrub, and valley and foothill grasslands. Ranges 4-640 m (13– 2,099 ft) in elevation. Blooming period: January - August	Low Potential. Not expected based on the lack of suitable soils. Not observed during focused survey. Species considered absent.
Parish's brittlescale (*Atriplex parishii*)	CRPR 1B.1	Annual herb. Found in chenopod scrub, alkaline vernal pools and playas. Ranges from 25 – 1,900 m (82 – 6,232 ft) in elevation. Blooming period: June – October.	No Potential. Suitable alkaline conditions and associated vegetation communities are not present. Not observed during focused survey. Species considered absent.
Nevin's barberry (*Berberis nevinii*)	CRPR 1B.1, FE, SE	Evergreen shrub. Occurs in chaparral, cismontane woodland, coastal scrub, and riparian scrub with sandy or gravelly soils. Ranges 274 – 825 m (898 – 2,707 ft) in elevation. Blooming period: March-June.	Low Potential. North and east ends of Project site with low suitability; however, this conspicuous shrub was not observed during focused surveys. Species considered absent.
Round-leaved filaree (*California macrophylla*)	CRPR 1B.2	Annual herb. Found in clay soils in cismontane woodland and valley and foothill grassland. Ranges 15 – 1,200 m (50 – 3,936) ft in elevation. Blooming period: March–May.	No Potential. Not expected based on the lack of suitable soils. Not observed during focused survey. Species considered absent.
Slender mariposa-lily (*Calochortus clavatus* var. *gracilis*)	CRPR 1B.2	Perennial herb. Occurs in the Western Transverse Ranges and San Gabriel Mountains in shaded foothill canyons within chaparral, coastal scrub, and valley and foothill grasslands. Occurs at elevations less than 1,000 m (3,281 ft). Blooms from March to June.	Moderate Potential. North and east ends of Project site with moderate suitability; however, this species was not detected during focused surveys. Species considered absent.

Species	Status	Habitat Requirements	Potential to Occur
Plummer's mariposa-lily (*Calochortus plummerae*)	CRPR 4.2	Perennial bulbiferous herb. Found in granitic and rocky areas in chaparral, cismontane woodland, coastal scrub, lower montane coniferous forest, and valley and foothill grassland. Ranges 100 – 1,700 m (328 – 5,576 ft) in elevation. Blooming period: May – July.	Moderate Potential. North and east ends of Project site with moderate suitability; however, this species was not detected during focused surveys. Species considered absent.
Peirson's morning-glory (*Calystegia peirsonii*)	CRPR 4.2	Perennial herb. Occurs in chaparral, chenopod scrub, cismontane woodlands, coastal scrubs, valley and foothill grassland, and even lower elevation conifer forests. Ranges 30 – 1,500 m (98 – 4,920 ft) in elevation. It is typically restricted to rocky slopes, and is known only from Los Angeles County. Blooming period: April – June.	Low Potential. North edge of Project site with low suitability; however, this species was not detected during focused surveys. Species considered absent.
Lewis' evening-primrose (*Camissoniopsis lewisii*)	CRPR 3	Annual herb. Occurs in sandy or clay soils in coastal bluff scrub, cismontane woodland, coastal dunes, coastal scrub, and valley and foothill grassland. Ranges 0-300 m (0-984 ft) in elevation. Blooming period: March - June	No Potential. Study area occurs outside elevation range for the species. Species considered absent.
Southern tarplant (*Centromadia parryi* ssp. *australis*)	CRPR 1B.1	Annual herb. Found within the margin of marshes and swamps, vernally mesic soils in valley and foothill grassland, and vernal pools. Elevation range is 0 – 480 m (0 – 1,574 ft). Blooming period: May –November.	Low Potential. Some suitability around basins and terraces; however, this species was not detected during focused surveys. Species considered absent.
San Fernando Valley spineflower (*Chorizanthe parryi* var. *fernandina*)	CRPR 1B.1, FC, SE	Annual herb. Found in sandy areas on foothills, mixed grassland and chaparral communities. Occurs at elevations ranging from 90 – 500 m (295 – 1,640 ft). Blooming period is from April to July. This species has a severely limited distribution and is only known in Los Angeles, Orange, and Ventura Counties. Blooming period: April – July.	Low Potential. North and east ends of Project site with low suitability; however, this species was not detected during focused surveys. Species considered absent.

Species	Status	Habitat Requirements	Potential to Occur
Santa Susana tarplant (*Deinandra minthornii*)	CRPR 1B.2	Deciduous shrub. Found in rocky chaparral, coastal scrub, sandstone outcrops and crevices. Ranges 280 – 760 m (919 – 2,493 ft) in elevation. Blooming period: July – November.	No Potential. Not expected based on the lack of suitable soils. Not observed during focused survey. Species considered absent.
Slender-horned spineflower (*Dodecahema leptoceras*)	CRPR 1B.1, FE, SE	Annual herb. Occurs in chaparral, cismontane woodland, coastal scrub (alluvial fan sage scrub). Flood deposited terraces and washes in association with sandy soils. Ranges 200 –760 m (656 – 2,493 ft) in elevation. Blooming period: April – June.	Low Potential. North and east ends of Project site with low suitability; however, this species was not detected during focused surveys. Species considered absent.
Blochman's dudleya (*Dudleya blochmaniae* ssp. *blochmaniae*)	CRPR 1B.1	Perennial herb. Found in Coastal scrub, coastal bluff scrub, chaparral, valley and foothill grassland. Often associated with open, shallow clays over serpentine or in rocky areas with little soil. At elevations of up to 450 m (1,476 ft). Blooming period: April – June.	No Potential. Not expected based on the lack of suitable soils. Not observed during focused survey. Species considered absent.
Many-stemmed dudleya (*Dudleya multicaulis*)	CRPR 1B.2	Perennial herb. Occurs in clay soils in chaparral, coastal scrub, and valley and foothill grassland; 15 – 790 m (49 – 2,591 ft). Blooming period: April-July.	No Potential. Not expected based on the lack of suitable soils. Not observed during focused survey. Species considered absent.
Palmer's grapplinghook (*Harpagonella palmeri*)	CRPR 4.2	Annual herb. Found in chaparral, coastal scrub, valley and foothill grassland. Associated with clay soils within scrub with open grassy areas. Ranges 20 – 955 m (65 – 3,133 ft) in elevation. Blooming period: March – May.	No Potential. Not expected based on the lack of suitable soils. Not observed during focused survey. Species considered absent.
Newhall sunflower (*Helianthus inexpectatus*)	CRPR 1B.1	Perennial herb. Occurs in marshes and swamps, and riparian woodlands. Ranges 305 m (1,000 ft) in elevation. Blooming period: August - October	No Potential. Not expected because study area occurs outside elevation range and lacks suitable mesic conditions. Species considered absent.

Species	Status	Habitat Requirements	Potential to Occur
Vernal barley (*Hordeum intercedens*)	CRPR 3.2	Annual herb. Found in coastal dunes, coastal scrub, saline flats and depressions in valley and foothill grassland, and vernal pools. Ranges 5-1,000 m (16-3,280 ft) in elevation. Blooming period: March - June	No Potential. Not expected based on the lack of suitable soils. Not observed during focused survey. Species considered absent.
Mesa horkelia (*Horkelia cuneata* var. *puberula*)	CRPR 1B.1	Perennial herb. Occurs in sandy and gravelly soils within maritime chaparral, cismontane woodland, and coastal scrub. Ranges 70 – 810 m (229 – 2,657 ft) in elevation. Blooming period: February-September.	Low Potential. North and east ends of Project site with low suitability; however, this species was not detected during focused surveys. Species considered absent.
Coulter's goldfields (*Lasthenia glabrata* ssp. *coulteri*)	CRPR 1B.1	Annual herb. Found in coastal salt marsh, coastal salt swamps, playas, vernal pools. Ranges 1 – 1,220 m (3 – 4,001 ft) in elevation. Blooming period: February-June.	No Potential. Not expected based on the lack of suitable soils and vegetation communities. Not observed during focused survey. Species considered absent.
[1]Robinson's pepper-grass (*Lepidium virginicum* var. *robinsonii*)	CRPR 4.3	Annual herb. Occurs in openings in chaparral and sage scrub Found below 885 m (2,900 ft) in elevation. Blooming period: January-July.	Low Potential. North and east ends of Project site with low suitability; however, this species was not detected during focused surveys. Species considered absent.
[1]Theodore Payne's Bush Lupine (*Lupinus paynei*)	CRPR 3.1	Perennial shrub. Found in openings in chaparral, cismontane coastal scrub, riparian scrub, valley and foothill grasslands. Ranges 220-420 m (722-1,378 ft) in elevation. Blooming period: March-May.	Low Potential. North and east ends of Project site with low suitability; however, this species was not detected during focused surveys. Species considered absent.
Davidson's bush-mallow (*Malacothamnus davidsonii*)	CRPR 1B.2	Perennial shrub. Occurs in coastal scrub, riparian woodland, chaparral, cismontane woodland. Associated with sandy washes. Ranges 607 – 2,805 ft (185 – 855 m) in	Moderate Potential. Some suitability around basins and terraces; however, this species was not detected during

[1] Species no longer recognized by Jepson Manual, but still recognized by California Native Plant Society.

Species	Status	Habitat Requirements	Potential to Occur
		elevation. Blooming period: June – January.	focused surveys. Species considered absent.
White-veined monardella (*Monardella hypoleuca* ssp. hypoleuca)	CRPR 1B.3	Perennial herb. Found in dry slopes within chaparral and cismontane woodlands. Ranges 50 – 1,525 m (165 – 5,000 ft) in elevation. Blooming period: June – August.	Low Potential. North and east ends of Project site with low suitability; however, this species was not detected during focused surveys. Species considered absent.
Spreading navarretia (*Navarretia fossalis*)	CRPR 1B.1, FT	Annual herb. Occurs in vernal pools, chenopod scrub, marshes and swamps, playas, San Diego hardpan & San Diego claypan vernal pools, swales, depressions, and vernal pools. Ranges 30 – 655 m (98 – 2,150 ft) in elevation. Blooming period: April – June.	No Potential. Not expected based on the lack of suitable soils and vegetation communities. Not observed during focused survey. Species considered absent.
Paiute Mountains navarretia (*Navarretia setiloba*)	CRPR 1B.1	Annual herb. Found in cismontane woodland, pinyon-juniper woodland, valley and foothill grassland. Associated with clay soils or gravelly loam. Ranges 285 – 2,100 m (935 – 6,890 ft) in elevation. Blooming period: April – July.	Low Potential. North edge of Project site with low suitability; however, this species was not detected during focused surveys. Species considered absent.
Short-joint beavertail (*Opuntia basilaris* var. *brachyclada*)	CRPR 1B.2	Shrub. Occurs in sandy soil or coarse, granitic loam in chaparral, Joshua tree woodland, Mojavean desert scrub, and pinyon-juniper woodlands. . Ranges 425 – 1,800 m (1,395 – 5,905 ft) in elevation. Blooming period: April – June.	No Potential. Species not reported as occurring on the cismontane foothills of San Gabriel mountains. Species considered absent.
California Orcutt grass (*Orcuttia californica*)	CRPR 1B.1, FE, SE	Annual grass. Restricted to the deeper portions of undisturbed vernal pools. Ranges 197 – 2165 ft (60 – 660 m) in elevation. Blooming period: April – August.	No Potential. Not expected based on the lack of suitable vernal pool conditions. Not observed during focused survey. Species considered absent.
White rabbit-tobacco (*Pseudognaphalium leucocephalum*)	CRPR 2B.2	Perennial herb. Occurs in dry, sandy creek bottoms within chaparral, cismontane woodland, coastal scrub, and riparian woodland habitats.	Low Potential. North and east ends of Project site with low suitability; however, this

Species	Status	Habitat Requirements	Potential to Occur
		Associated with sandy or gravelly soils. Ranges 46 – 4,593 ft (14 – 1400 m) in elevation. Blooming period: August – November.	species was not detected during focused surveys. Species considered absent.
Chaparral ragwort (*Senecio aphanactis*)	CRPR 2B.2	Annual herb. Found in chaparral, cismontane woodland, and coastal scrub. Associated with drying alkaline flats. Ranges 20 – 855 m (49 – 2,625 ft) in elevation.Blooming period: January – April.	No Potential. Not expected based on the lack of suitable alkaline conditions. Not observed during focused survey. Species considered absent.
Greata's aster (*Symphyotrichum greatae*)	CRPR 1B.3	Perennial herb. Occurs in mesic areas in broadleafed upland forest, chaparral, cismontane woodland, lower montane coniferous forest, and riparian woodlands. Ranges 300 – 2,010 m (984 – 6,593 ft) in elevation. Blooming period: June – October.	No Potential. Not expected based on the lack of suitable mesic conditions. Not observed during focused survey. Species considered absent.

Appendix B

Plant Species Detected

Appendix B - Plant Species Detected

Scientific Name	Common Name	Special Status
GYMNOSPERMS		
Pinaceae - Pine family		
Pinus sp.	Pine	
EUDICOTS		
Adoxaceae - Muskroot family		
Sambucus nigra ssp. caerulea	Blue elderberry	
Anacardiaceae - Sumac Or Cashew family		
Malosma laurina	Laurel sumac	
Rhus integrifolia	Lemonade berry	
Rhus ovata	Sugar bush	
* *Schinus molle*	Peruvian pepper tree	
* *Schinus terebinthifolius*	Brazilian pepper tree	
Apocynaceae - Dogbane family		
Funastrum cynanchoides var. hartwegii	Hartweg's climbing milkweed	
* *Nerium oleander*	Oleander	
Asteraceae - Sunflower family		
Ambrosia acanthicarpa	Annual bur-sage	
Artemisia californica	California sagebrush	
Baccharis salicifolia ssp. salicifolia	Mule fat	
Brickellia californica	California brickellbush	
* *Carduus pycnocephalus ssp. pycnocephalus*	Italian thistle	
* *Centaurea melitensis*	Tocalote	
Cirsium occidentale	Cobwebby thistle	
Corethrogyne filaginifolia	Common sand aster	
Erigeron canadensis	Horseweed	
Eriophyllum confertiflorum	Golden woolly sunflower	
Hazardia squarrosa	Saw toothed goldenbush	
Helianthus annuus	Annual sunflower	
Heterotheca grandiflora	Telegraph weed	
* *Lactuca serriola*	Prickly lettuce	
Lepidospartum squamatum	California broomsage	
Leptosyne gigantea	Giant tickseed	
Malacothrix saxatilis	Cliff desert dandelion	

Scientific Name	Common Name	Special Status
* *Oncosiphon piluliferum*	Stinknet	
Pseudognaphalium biolettii	Bi-color everlasting	
Pseudognaphalium californicum	California everlasting	
Pseudognaphalium canescens	Hairy everlasting	
* *Pseudognaphalium luteoalbum*	White lamb everlasting	
* *Sonchus asper ssp. asper*	Prickly sow thistle	
* *Sonchus oleraceus*	Common sow thistle	
Taraxacum sp.	Dandelion	
Uropappus lindleyi	Silver puffs	
Boraginaceae - Borage family		
Cryptantha intermedia	Clearwater cryptantha	
Emmenanthe penduliflora	Whispering bells	
Eriodictyon crassifolium	Thickleaf yerba santa	
Phacelia distans	Wild heliotrope phacelia	
Phacelia minor	Wild canterbury bells	
Brassicaceae - Mustard family		
* *Brassica nigra*	Black mustard	
* *Hirschfeldia incana*	Shortpod mustard	
* *Sisymbrium orientale*	Indian hedgemustard	
Cactaceae - Cactus family		
Cylindropuntia californica var. parkeri	Cane cholla	
* *Opuntia ficus-indica*	Mission prickly pear	
Opuntia littoralis	Coastal prickly pear	
Chenopodiaceae - Goosefoot family		
* *Chenopodium album*	Lamb's quarters	
* *Salsola tragus*	Prickly russian thistle	
Cistaceae - Rock-rose family		
* *Cistus ladanifer*	Gum cistus	
* *Cistus sp.*	Cistus	
Convolvulaceae - Morning-glory family		
Calystegia macrostegia	Coast morning-glory	
Crassulaceae - Stonecrop family		
Dudleya lanceolata	Lance-leaved dudleya	
Dudleya pulverulenta	Chalk dudleya	

Scientific Name	Common Name	Special Status
Cucurbitaceae - Gourd family		
Marah macrocarpa	Large fruit wild cucumber	
Euphorbiaceae - Spurge family		
Croton californicus	California croton	
* *Ricinus communis*	Castorbean	
Fabaceae - Legume family		
Acmispon americanus var. americanus	Spanish-Clover	
Acmispon glaber	Deerweed	
Lupinus bicolor	Miniature lupine	
Lupinus hirsutissimus	Stinging lupine	
Lupinus truncatus	Cut leaf lupine	
* *Melilotus indicus*	Indian sweetclover	
* *Spartium junceum*	Spanish broom	
Fagaceae - Oak family		
Quercus agrifolia	Coast live oak	
Geraniaceae - Geranium family		
* *Erodium cicutarium*	Redstem filaree	
* *Erodium moschatum*	Whitestem filaree	
Lamiaceae - Mint family		
* *Marrubium vulgare*	Horehound	
Salvia mellifera	Black sage	
Malvaceae - Mallow family		
* *Malva parviflora*	Cheeseweed	
Meliaceae - Mahogany family		
* *Melia azedarach*	China berry	
Myrtaceae - Myrtle family		
* *Eucalyptus sp.*	Gum	
* *Myrtus communis*	Myrtle	
Nyctaginaceae - Four O'clock family		
Mirabilis laevis	Wishbone plant	
Oleaceae - Olive family		
Fraxinus sp.	Ash	
* *Olea europaea*	Olive	
Onagraceae - Evening Primrose family		
Camissoniopsis bistorta	California sun cup	
Clarkia rhomboidea	Diamond clarkia	

Scientific Name	Common Name	Special Status
Eulobus californicus	False-mustard	
Phrymaceae - Lopseed family		
Mimulus guttatus	Seep monkeyflower	
Plantaginaceae - Plantain family		
Keckiella cordifolia	Heartleaf bush penstemon	
Platanaceae - Plane Tree, Sycamore family		
Platanus racemosa	Western sycamore	
Polygonaceae - Buckwheat family		
Eriogonum fasciculatum	California buckwheat	
Rhamnaceae - Buckthorn family		
Rhamnus ilicifolia	Hollyleaf redberry	
Rosaceae - Rose family		
Adenostoma fasciculatum	Chamise	
Heteromeles arbutifolia	Toyon	
Prunus ilicifolia	Holly leaf cherry	
Salicaceae - Willow family		
Salix lasiolepis	Arroyo willow	
Solanaceae - Nightshade family		
Datura wrightii	Wright's jimsonweed	
* *Nicotiana glauca*	Tree tobacco	
Solanum xanti	Chaparral nightshade	
Ulmaceae - Elm family		
* *Ulmus parvifolia*	Chinese elm	
* *Ulmus pumila*	Siberian elm	
MONOCOTS		
Agavaceae - Century Plant family		
Hesperoyucca whipplei	Chaparral yucca	
Cyperaceae - Sedge family		
Cyperus eragrostis	Tall flatsedge	
Poaceae - Grass family		
* *Avena barbata*	Slender wild oat	
* *Bromus diandrus*	Ripgut brome	
* *Bromus madritensis*	Compact brome	
Elymus condensatus	Giant wildrye	
* *Hordeum murinum*	Wall barley	
* *Lamarckia aurea*	Goldentop grass	

Scientific Name	Common Name	Special Status
* *Pennisetum setaceum*	African fountain grass	
* *Stipa miliacea var. miliacea*	Smilo grass	
Stipa pulchra	Purple needle grass	
Themidaceae - Brodiaea family		
Bloomeria crocea	Common goldenstar	
Dichelostemma capitatum	Blue dicks	

Legend

*= Non-native or invasive species

Special Status:

Federal:
FE = Endangered
FT = Threatened

State:
SE = Endangered
ST =Threatened

CRPR – California Rare Plant Rank
1A. Presumed extinct in California and elsewhere
1B. Rare or Endangered in California and elsewhere
2A. Presumed extinct in California, more common elsewhere
2B. Rare or Endangered in California, more common elsewhere
3. Plants for which we need more information - Review list
4. Plants of limited distribution - Watch list

Threat Ranks
.1 - Seriously endangered in California
.2 – Fairly endangered in California
.3 – Not very endangered in California

Appendix C

Site Photographs

Photograph: 1

Photo Date: January 26, 2017

Location: East end of study area, south of Saranac Ln.

Direction: View facing southeast.

Comment: Photo depicts native scrub habitat.

Photograph: 2

Photo Date: January 26, 2017

Location: East end of study area, south of Saranac Ln.

Direction: View facing northwest.

Comment: Photo depicts native scrub habitat.

Photograph: 3

Photo Date: January 26, 2017

Location: Northeast corner of the study area.

Direction: View facing southwest.

Comment: Photo provides overview of the east end of the study area showing a mix of development, ornamental plantings, and native scrub.

Photograph: 4

Photo Date: April 19, 2017

Location: North end of study area, north of Sycamore Avenue.

Direction: View facing east.

Comment: Photo depicts a mix of development, ornamental plantings, and native coast live oak trees. Dam of debris basin in background.

Photograph: 5

Photo Date: April 19, 2017

Location: North end of the study area, between Sycamore Ave and Hill Crest Ave.

Direction: View facing southwest.

Comment: Photo depicts edge of development adjacent to open space associated with adjacent foothills.

Photograph: 6

Photo Date: April 19, 2017

Location: North end of the study area, north of Cobalt St.

Direction: View facing north.

Comment: Photo depicts open space associated with adjacent foothills. Mix of non-native grasslands, ornamental plantings, and native scrub.

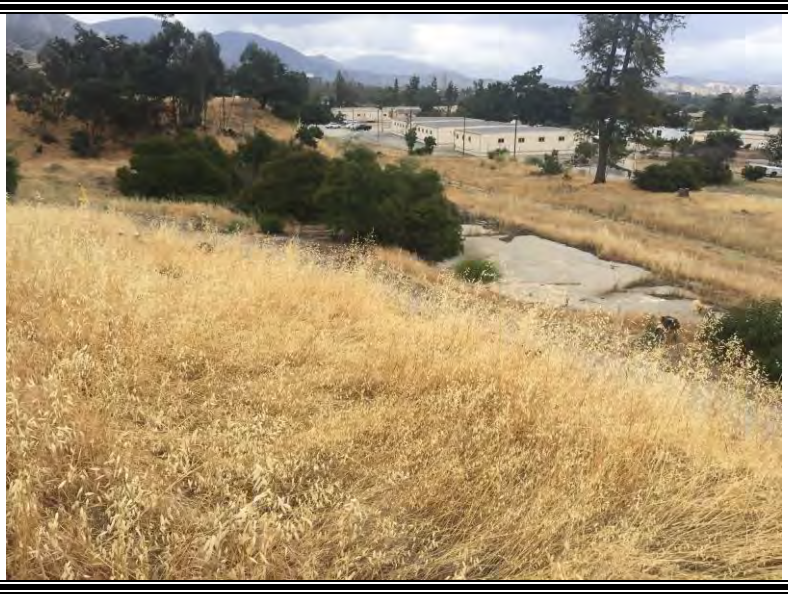
Photograph: 7

Photo Date: May 15, 2017

Location: North end of the study area, north of Hillside Dr.

Direction: View facing west.

Comment: Photo depicts open space associated with adjacent foothills. Mix of non-native grasslands, ornamental plantings, and native scrub.



Photograph: 8

Photo Date: May 15, 2017

Location: Near the center of the study area, between Hillside Dr. and Bucher Ave.

Direction: View facing southeast.

Comment: Photo depicts a mix of development, disturbed vacant lots, ornamental plantings, and native scrub.

Photograph: 9

Photo Date: May 15, 2017

Location: Near the center of the study area, between Bucher Ave. and Jacaranda Terrace.

Direction: View facing east.

Comment: Photo depicts a mix of development, disturbed vacant lots, ornamental plantings, and native oaks.

Appendix D3

Gnatcatcher Survey

June 2, 2017

Stacey Love
Recovery Permit Coordinator
Carlsbad Fish and Wildlife Office
U.S. Fish and Wildlife Service
2177 Salk Avenue, Suite 250
Carlsbad, CA 92008

Subject: 45-Day Report – Coastal California Gnatcatcher Presence/Absence Survey Results for the Olive View-UCLA Medical Center Campus Master Plan Project located in Sylmar, Los Angeles County, California

Dear Ms. Love:

This report documents the results of focused coastal California gnatcatcher (CAGN) (*Polioptila californica californica*) presence/absence surveys conducted by ICF (consultant to the Los Angeles County Department of Public Works) between November 2016 and March 2017 in support of the proposed Olive View-UCLA Medical Center Campus Master Plan Project (Project).

Location

The Project site is located at 14445 Olive View Drive on several parcels of land owned by the County of Los Angeles. The campus is located within the community of Sylmar, at the north end of the San Fernando Valley, in the City of Los Angeles, California. Specifically, the site is bounded by the Angeles National Forest and Wilson Canyon Debris Basin on the north, Olive View Drive on the south, Los Angeles County Flood Control District facilities and Wilson Canyon Park on the east, and Bucher Avenue to the west. Kennedy Road and Cobalt Street intersect the Project site. The site is located east of the I-5 freeway and north of the I-210 freeway (Figure 1).

The Project site is depicted within Township 3 North, Range 15 West, Sections 21 and 22 of the San Fernando, California, U.S. Geological Survey 7.5-minute quadrangle map (Figure 2).

Project Description

The master plan is intended to guide development of the campus over time and the delivery of health care services and health related community programs. The master plan provides alternate paths for that development and flexibility to allow the master plan to adapt to changes over time. The master plan also includes an analysis and assessment of existing campus infrastructure and buildings, future considerations and recommendations for the campus' land use, and a series of design guidelines that dictate building placement, form, and materiality.

Survey Area

The 230-acre Project site is located at the Olive View-UCLA Medical Center campus and consists of 31 permanent buildings and 29 trailers and other modular structures. The Project abuts the foothills of the San Gabriel Mountains, which are a part of the Angeles National Forest. Horse trails and hiking trails run

along the northern edge of the campus. Predominantly single-family residential neighborhoods are located to the east of the campus. A mix of single-family (including ranch style homes with equestrian facilities) residences, multi-family residences, and some commercial uses are located to the south of the campus across Olive View Drive. Residential uses are also located just west of the campus and north of I-210.

Developed areas make up a majority of the study area followed by disturbed habitat. These areas have been physically altered and include existing campus infrastructure, medium-density residential communities, roads and hardscape structures, other manmade features, and ornamental trees. Disturbed habitat is any land that has been permanently altered by previous human activity including grading, repeated clearing, and dirt roads. Disturbed land is typically characterized by more than 50 percent bare ground and absence of remnant native vegetation. Disturbed habitat within the study area surrounds existing development within the project site, and is dominated by nonnative grasses and other species, including ripgut grass (*Bromus diandrus*), wild oat (*Avena barbata*), tocalote (*Centaurea melitensis*), shortpod mustard (*Hirschfeldia incana*), indian hedgemustard (*Sisymbrium orientale*), and Russian thistle (*Salsola* tragus).

Coastal sage scrub that was considered to be suitable habitat for CAGN is located in the eastern portion of the study area (approximately 19.80 acres). This habitat is dominated by mature California sagebrush (*Artemesia californica*), California buckwheat (*Eriogonum fasciculatum*), black sage (*Salvia mellifera*), yerba santa (*Eriodictyon crassifolium*), laurel sumac (*Malosma laurina*), deerweed (*Acmispon glaber*), and toyon (*Heteromeles arbutifolia*).

Survey Methods

The survey protocol to determine presence/absence of CAGN requires a federal 10(A)1(a) permit. From November 3, 2016 through March 28, 2017, Phillip Richards (permit # TE-095896) and James Hickman (permit # TE-60218B-0) performed a focused survey for CAGN in all potentially suitable habitat. The survey area covered suitable habitat within the project limits. Figure 3 depicts the suitable CAGN habitat within the Project limits of disturbance plus a 500-foot buffer.

Nine surveys were conducted at least two weeks apart between 6:00 a.m. and 12:00 p.m. (Table 1). Surveys were not conducted during periods of excessive or abnormal heat, wind, rain, fog, or other inclement weather. Methods included slowly walking through the vegetation with frequent stops to listen and play taped CAGN vocalizations. During each visit, a taped vocalization was broadcast at least once in all potential habitat at distance intervals of approximately 23 to 30 meters (75 to 100 feet). All vertebrate species detected were recorded (Appendix B).

Table 1. Survey Dates, Personnel, and Weather Conditions

Visit	Date	Time	Biologist	Conditions
1	11/3/2016	0830-1100	James Hickman	75 – 80°F, sunny, winds 1-3 mph, good visibility
2	11/18/2016	0845-1100	James Hickman	57 – 65°F, sunny, winds 3-5 mph, good visibility
3	12/4/2016	0800-1100	James Hickman	60 – 65°F, sunny, winds 1-4 mph, good visibility
4	12/26/2016	0730-1030	James Hickman	52 – 56°F, partly cloudy, winds 0-3 mph, good visibility
5	1/26/2017	0800-1130	Phillip Richards	45 – 57°F, sunny, winds 0-8 mph, good visibility
6	2/9/2017	0800-1145	Phillip Richards	64 – 73°F, partly cloudy, winds 0-3 mph, good visibility
7	2/23/2017	0805-1135	Phillip Richards	51 – 54°F, sunny, winds 1-5 mph, good visibility
8	3/14/2017	0800-1150	Phillip Richards	68– 85°F, sunny, winds 0-3 mph, good visibility
9	3/28/2017	0800-1155	Phillip Richards	55 – 70°F, sunny, winds 1-10 mph, good visibility
USFWS Permit: Phillip Richards TE – 095896, James Hickman TE-60218B-0				

Results

No CAGN was detected on or adjacent to the Project site during any of the nine visits.

If you have questions or need clarifications regarding this report, please contact me at (949) 333-6643 or Phillip.Richards@icfi.com.

Sincerely,

Phillip Richards
ICF Biologist

Enclosed:
Figure 1: Regional Vicinity Map
Figure 2: Topographic Study Site Map
Figure 3: Study Area and Results Map

Appendix A: Site Photographs
Appendix B: Wildlife Species Detected
Appendix C: Certification Statement

Figures

K:\Irvine\GIS\Projects\LADPW\00678 15\mapdoc\Fig01 Regional Location.mxd Date: 3/4/2016 19402

Figure 1
Regional Location
Olive View-UCLA Medical Center Master Plan

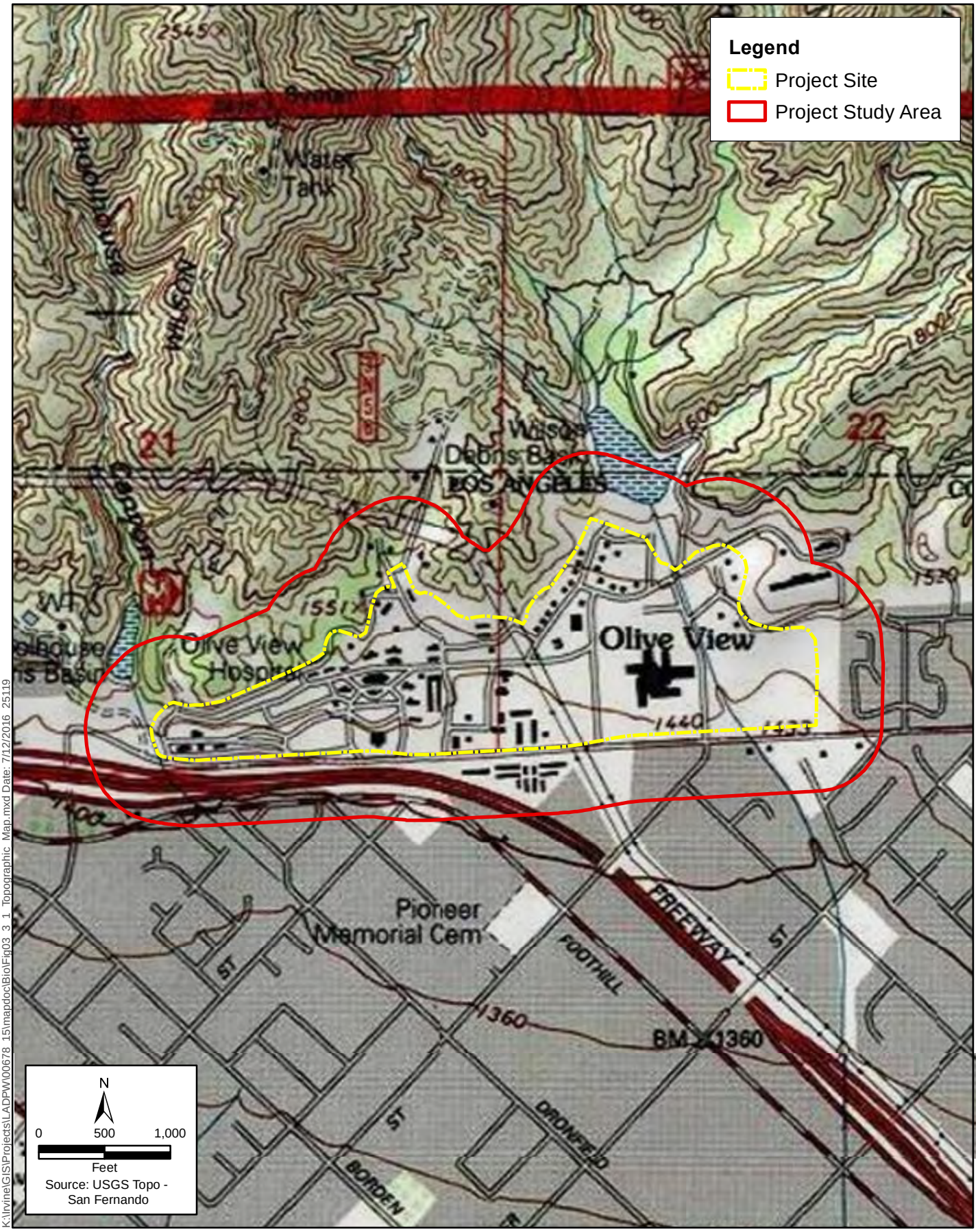


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Figure 2
Topographic Map
Olive View-UCLA Medical Center Master Plan

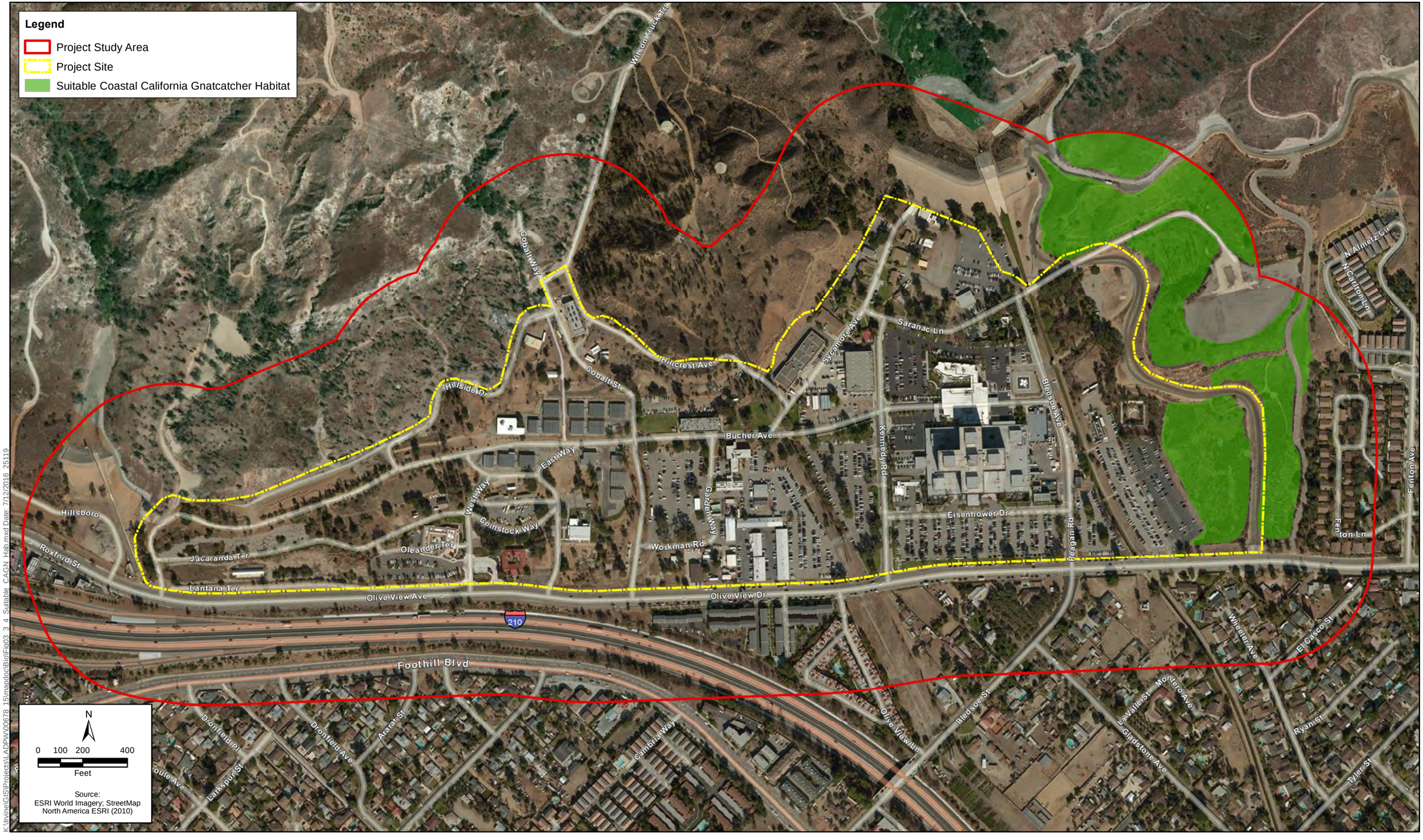

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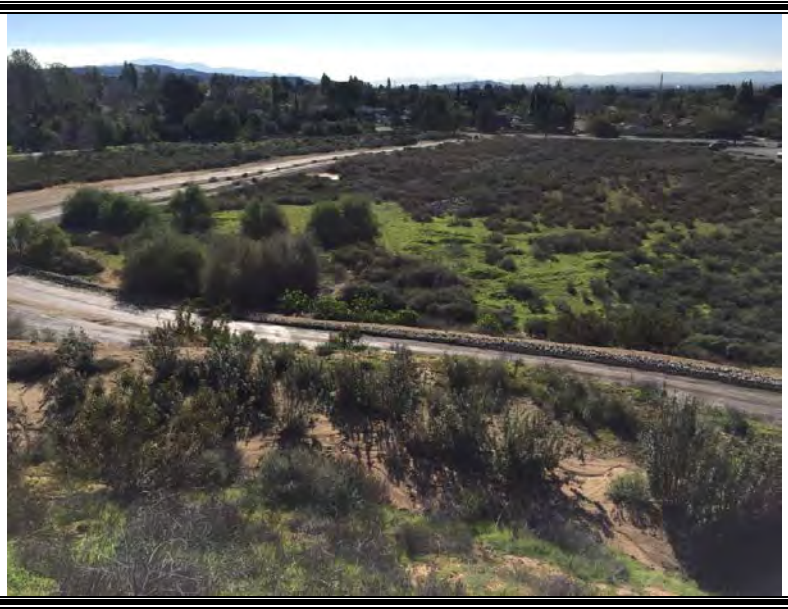
Figure 3
Suitable Coastal California Gnatcatcher Habitat
Olive View-UCLA Medical Center Master Plan

Appendix A
Site Photographs



Photograph: 1

Photo Date: January 26, 2017

Location: Center of survey area, south of large paved pad/Saranac Ln.

Direction: View facing south.

Comment: Photo depicts dense sage scrub habitat along the south end of the survey area.

Photograph: 2

Photo Date: January 26, 2017

Location: Center of survey area, south of large paved pad/Saranac Ln.

Direction: View facing west.

Comment: Photo depicts dense sage scrub habitat along the south end of the survey area.

Photograph: 3

Photo Date: January 26, 2017

Location: South end of survey area, north of Olive View Drive.

Direction: View facing northwest.

Comment: Photo depicts dense sage scrub habitat along the southern and central portions of the survey area.

Photograph: 4

Photo Date: January 26, 2017

Location: North end of survey area, north of paved pad/Saranac Ln.

Direction: View facing south.

Comment: Photo depicts mix of existing development and dense sage scrub habitat along the north end of the survey area.

Photograph: 5

Photo Date: January 26, 2017

Location: North end of survey area, north of paved pad/Saranac Ln.

Direction: View facing southwest.

Comment: Photo depicts mix of existing development and dense sage scrub habitat along the north end of the survey area.

Photograph: 6

Photo Date: January 26, 2017

Location: North end of survey area, north of paved pad/Saranac Ln.

Direction: View facing west.

Comment: Photo depicts dense sage scrub habitat along the north end of the survey area.

Appendix B

Wildlife Species Detected

Appendix B. Wildlife Species Detected

Scientific Name	Common Name	Special Status
VERTEBRATES		
Reptiles		
Phrynosomatidae - Spiny Lizard Family		
Sceloporus occidentalis	Western Fence Lizard	
Uta stansburiana elegans	Western Side-blotched Lizard	
Birds		
Odontophoridae - New World Quail Family		
Callipepla californica	California Quail	
Accipitridae - Hawk Family		
Accipiter cooperii	Cooper's Hawk	
Buteo jamaicensis	Red-tailed Hawk	
Columbidae - Pigeon and Dove Family		
**Columba livia*	Rock Pigeon	
Patagioenas fasciata	Band-tailed Pigeon	
**Streptopelia decaocto*	Eurasian Collared-Dove	
Zenaida macroura	Mourning Dove	
Trochilidae - Hummingbird Family		
Calypte anna	Anna's Hummingbird	
Selasphorus sasin	Allen's Hummingbird	
Picidae - Woodpecker Family		
Melanerpes formicivorus	Acorn Woodpecker	
Sphyrapicus ruber	Red-breasted Sapsucker	
Picoides nuttallii	Nuttall's Woodpecker	
Colaptes auratus	Northern Flicker	
Tyrannidae - Tyrant Flycatcher Family		
Sayornis nigricans	Black Phoebe	
Sayornis saya	Say's Phoebe	
Tyrannus vociferans	Cassin's Kingbird	
Tyrannus verticalis	Western Kingbird	
Corvidae - Jay and Crow Family		
Aphelocoma californica	California Scrub-Jay	
Corvus brachyrhynchos	American Crow	
Corvus corax	Common Raven	

Scientific Name	Common Name	Special Status
Hirundinidae - Swallow Family		
Stelgidopteryx serripennis	Northern Rough-winged Swallow	
Petrochelidon pyrrhonota	Cliff Swallow	
Hirundo rustica	Barn Swallow	
Paridae - Titmouse Family		
Baeolophus inornatus	Oak Titmouse	
Aegithalidae - Bushtit Family		
Psaltriparus minimus	Bushtit	
Troglodytidae - Wren Family		
Troglodytes aedon	House Wren	
Thryomanes bewickii	Bewick's Wren	
Mimidae - Thrasher Family		
Toxostoma redivivum	California Thrasher	
Mimus polyglottos	Northern Mockingbird	
Sturnidae - Starling Family		
**Sturnus vulgaris*	European Starling	
Ptilogonatidae - Silky-flycatcher Family		
Phainopepla nitens	Phainopepla	
Parulidae - Wood-Warbler Family		
Setophaga coronata	Yellow-rumped Warbler	
Emberizidae - Sparrow Family		
Pipilo maculatus	Spotted Towhee	
Aimophila ruficeps canescens	Southern California Rufous-crowned Sparrow	
Melozone crissalis	California Towhee	
Melospiza melodia	Song Sparrow	
Zonotrichia leucophrys	White-crowned Sparrow	
Junco hyemalis	Dark-eyed Junco	
Fringillidae - Finch Family		
Haemorhous mexicanus	House Finch	
Carduelis psaltria	Lesser Goldfinch	
Passeridae - Old World Sparrow Family		
**Passer domesticus*	House Sparrow	
Mammals		
Leporidae - Hare and Rabbit Family		
Sylvilagus audubonii	Desert Cottontail	

Scientific Name	Common Name	Special Status
Geomyidae - Pocket Gopher Family		
Thomomys bottae	Botta's Pocket Gopher	
Canidae - Canid Family		
Canis latrans	Coyote	

Legend

*= Non-native or invasive species

Special Status:

Federal:
FE = Endangered
FT = Threatened

State:
SE = Endangered
ST =Threatened
CSC = California Species of Special Concern
CFP = California Fully Protected Species

Appendix C

Certification Statement

I certify that the information contained in this survey report and attached exhibits fully and accurately represents my work. Should you have any questions regarding the methodology or findings in this report, please do not hesitate to contact James Hickman by email (James.Hickman@icfi.com) or call (909) 255-7161.

Sincerely,

James Hickman
Permit# TE-60218B-0

I certify that the information contained in this survey report and attached exhibits fully and accurately represents my work. Should you have any questions regarding the methodology or findings in this report, please do not hesitate to contact Phillip C. Richards by email (Phillip.Richards@icfi.com) or call (949) 333-6643.

Sincerely,

Phillip C. Richards
Permit# TE-095896

Appendix E

Archeology Report

Appendix E1

Archeological Resource Assessment for the Olive View-UCLA Medical Center Master Plan EIR

cogstone
PALEONTOLOGY - ARCHAEOLOGY - HISTORY

ARCHAEOLOGICAL RESOURCES ASSESSMENT FOR THE OLIVE VIEW-UCLA MEDICAL CENTER MASTER PLAN EIR, LOS ANGELES COUNTY, CALIFORNIA

Prepared for:
ICF International
601 W. Fifth St., Ste. 900
Los Angeles, CA 90071

Authors:
Justin Lev-Tov and Molly Valasik

Principal Investigator:
Justin Lev-Tov, Ph.D.
Registered Professional Archaeologist

August 2016

Cogstone Project Number: 3293
Type of Study: Phase I Archaeological Study
Cultural Resources: P-19-003794, P-19-175294, P-19-187900
USGS Quadrangle: San Fernando 7.5 minute
Area: 138.6 acres
Key Words: Los Angeles County, Sylmar, Olive View tuberculosis sanatorium

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MANAGEMENT SUMMARY

Cogstone Resource Management, Inc. (Cogstone) was contracted by ICF Jones & Stokes Inc. (ICF) to provide an archaeological assessment of the Olive View UCLA Medical Center Campus located at 14445 Olive View Drive in the City of Sylmar, Los Angeles County, California in support of the facility's Master Plan Environmental Impact Report (EIR). The Master Plan will guide future development of the campus and the delivery of health care services and health related community programs. For the purposes of the EIR, two tiers of development will be analyzed. Tier I entails near-term projects constructed before 2035, including an Ambulatory Care Center, research and development buildings, a Community Center, improvements to the existing hospital, appurtenant parking facilities, and other medical center campus improvements that would be located predominantly in the eastern third of the current campus. Tier II development would occur beyond 2035, and would include the construction of a new inpatient hospital, support services building, mental health outpatient care facility, long-term care and recuperative housing, retail space, County department buildings, and the reuse and renovation of the existing inpatient hospital for other purposes.

A search for archaeological and historical records was completed by Cogstone at the South Central Coastal Information Center (SCCIC) at California State University, Fullerton on January 28th, 2016. The record search determined that two historic built environment resources and one historic district were recorded within the Project Area. The historic district for the Olive View-UCLA Medical Center, P-19-175294 is located within both Tier I and Tier II Project Areas. Also located within Tier I is P-19-187900 consisting of foundations for the Laundry and Linen Buildings within the Olive View Tuberculosis Sanitarium Complex. Within Tier II is P-19-003794 which consists of a concrete foundation and sidewalk associated with the Men's Solarium Wards 121 & 124 as well as a concrete subterranean transformer vault.

The Los Angeles Department of Public Works conducted Tribal Consultation. No Tribal Cultural Resources were identified in the project area.

Cogstone conducted an intensive pedestrian survey of the 138.6 acre project area on February 15th, 2016. Approximately 35.4 acres were inaccessible due to fencing with lock gates. Ground visibility outside of the hardscaped environment was poor at less than 10 percent due to the ornamental landscaping and vegetation cover, specifically grasses from the recent winter rains. Portions of the three previously recorded cultural resources were observed during the survey. No archaeological resources were previously recorded or observed during the survey.

Based on the results of the record search and land use history, both Tier I and Tier II Project Areas demonstrate moderate sensitivity for historical archaeological deposits associated with the

hospital complex and preexisting farmhouses. Tier I and Tier II Project Areas exhibit a low sensitivity for prehistoric archaeological resources. In the event of an unanticipated discovery, all work must be suspended within 50 feet of the find until it is evaluated by a qualified archaeologist.

Further, if human remains are unearthed during excavation, State Health and Safety Code Section 7050.5 states "there shall be no further excavation or disturbance of the site or any nearby area reasonably suspected to overlie adjacent remains until the coroner of the county in which the human remains are discovered... [has made the appropriate assessment, and] …recommendations concerning the treatment and disposition of the human remains have been made to the person responsible for the excavation, or to his or her authorized representative, in the manner provided in Section 5097.98 of the Public Resources Code."

INTRODUCTION

PURPOSE OF STUDY

The purpose of this study is to determine the potential adverse impacts to archaeological resources located within the Olive View-UCLA Medical Center Master Plan Project. This technical study provides environmental documentation as required by the California Environmental Quality Act (CEQA). The Olive View-UCLA Medical Center campus comprises 235 acres and is located at 14445 Olive View Drive in the neighborhood of Sylmar, Los Angeles County, California (Figure 1).

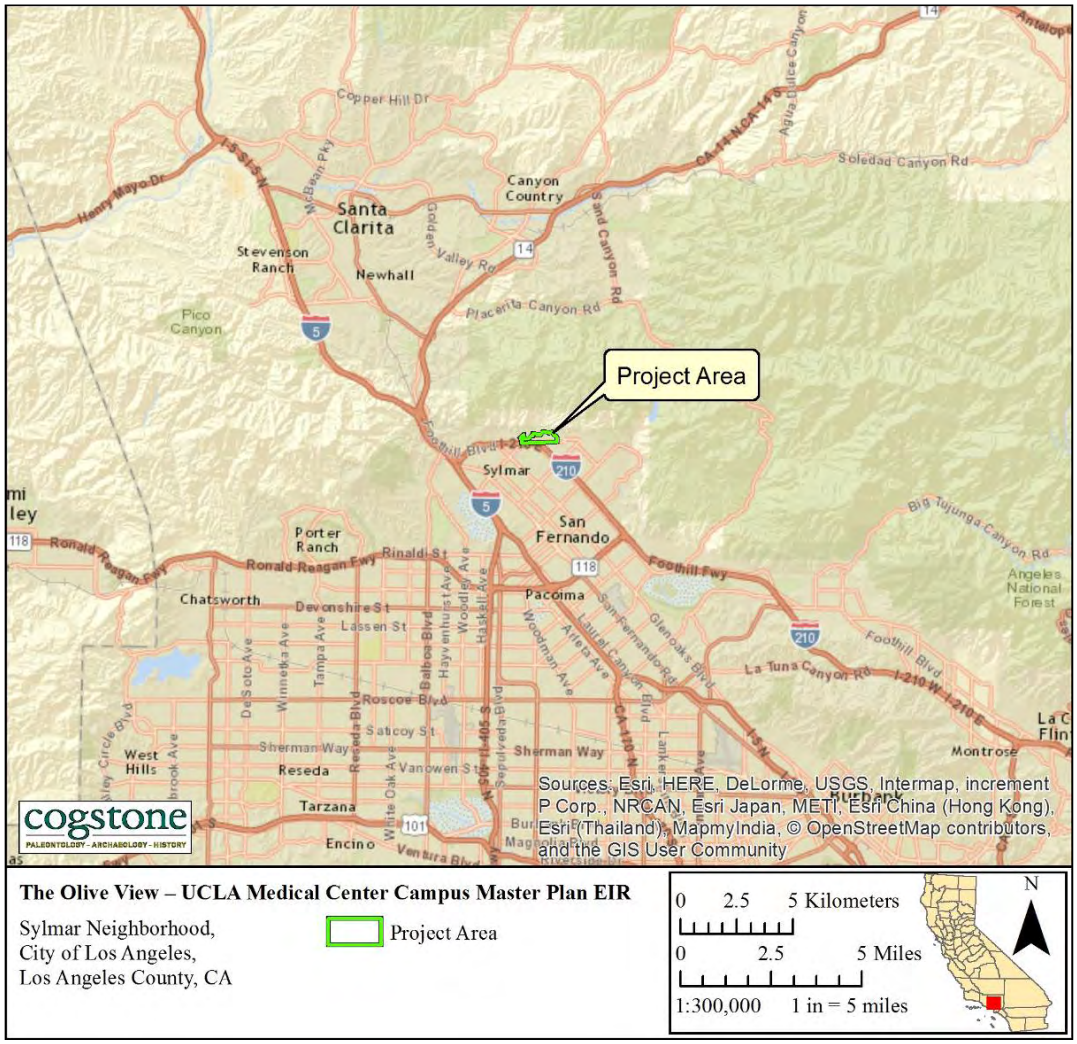

Figure 1. Project Vicinity

PROJECT LOCATION

The campus is bounded by the Angeles National Forest on the north, Olive View Drive on the south, Wilson Canyon Channel on the east, and Bucher Avenue on the west. Specifically, the Project is located on the San Fernando 7.5-minute United State Geological Survey (USGS) topographic map within sections 21 and 22 of Township 3 North, Range 15 West the San Bernardino Base Meridian (Figure 2 and Figure 3).

PROJECT DESCRIPTION

An Environmental Impact Report (EIR) will be prepared for the proposed Olive View-UCLA Medical Center Campus Master Plan Project. The Master Plan will guide future development of the campus and the delivery of health care services and health related community programs. For the purposes of the EIR, two tiers of development will be analyzed. Tier I entails near-term projects constructed before 2035, including an Ambulatory Care Center, research and development buildings, a Community Center, improvements to the existing hospital, appurtenant parking facilities, and other medical center campus improvements that would be located predominantly in the eastern third of the current campus. Tier II development would occur beyond 2035, and would include the construction of a new inpatient hospital, support services building, mental health outpatient care facility, long-term care and recuperative housing, retail space, County department buildings, and the reuse and renovation of the existing inpatient hospital for other purposes. Full build-out of the Master Plan could result in a total of approximately 1,965,300 square feet of development throughout the campus (Figure 4).

Ground disturbance for full build-out of the Master Plan could result in approximately 251,000 cubic yards of cut work and 70,000 cubic yards of fill to construct new campus buildings and structures. Additional earth disturbance for the proposed landscaping improvements on campus is anticipated to be shallow and proportionately insignificant.

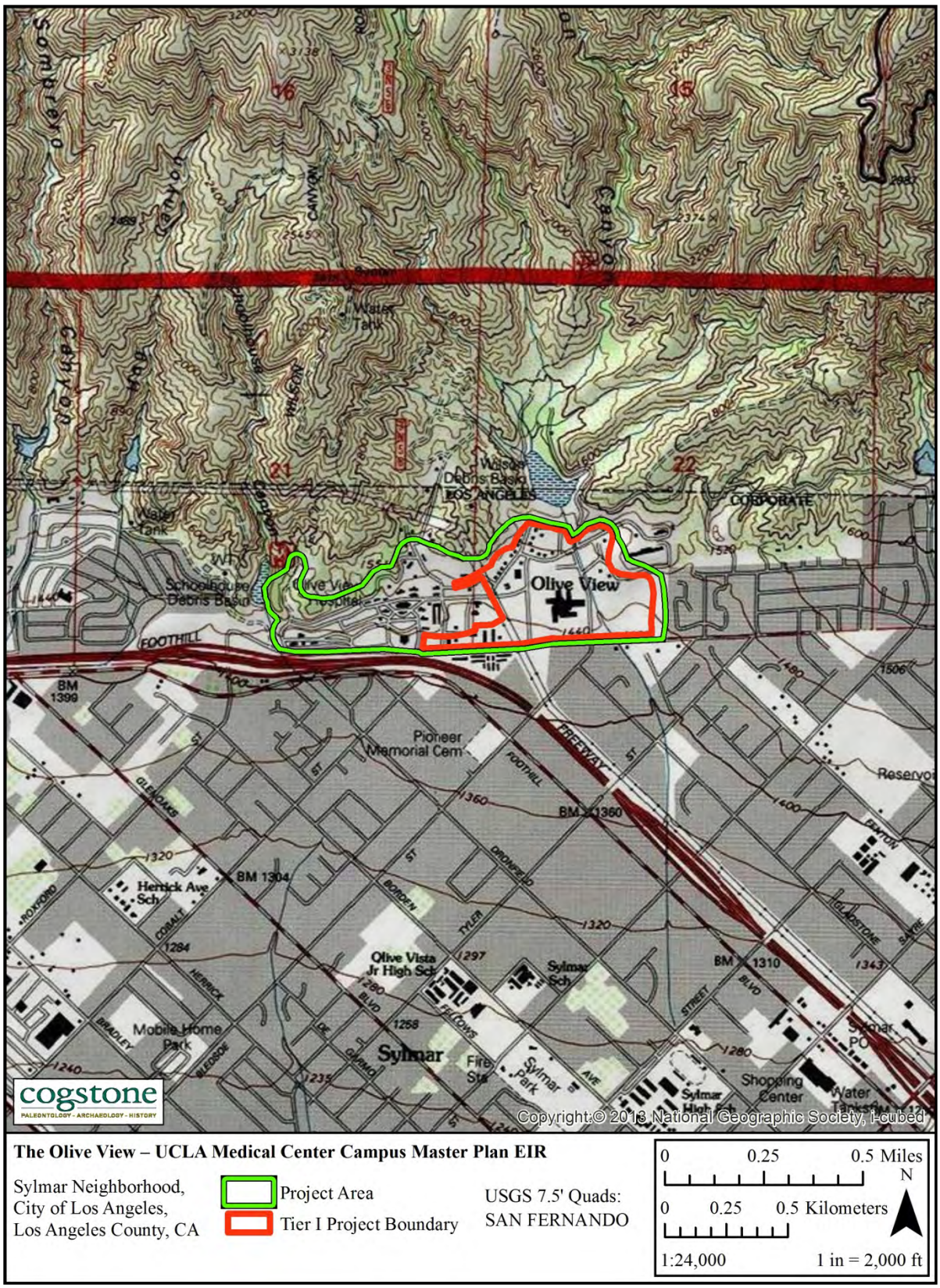

Figure 2. Project location map

Figure 3. Project Aerial

Figure 4. Olive View-UCLA Medical Center Master Plan.

PROJECT PERSONNEL

Cogstone Resource Management, Inc. (Cogstone) conducted the cultural resources studies for this report. Sherri Gust, M.A. served as Quality Control and wrote the prehistoric setting section of this report. Ms. Gust has over 35 years of experience in California Archaeology. Molly Valasik served as Project Manager for the project and wrote portions of this report. Ms. Valasik is a Registered Professional Archaeologist. She has a M.A. in Anthropology from Kent State University in Ohio and over seven years of experience in California archaeology.

Justin Lev-Tov served as Principal Investigator. Dr. Lev-Tov received his Ph.D. in Anthropology from the University of Tennessee Knoxville, and is a member of the Register of Professional Archaeologists. Dr. Lev-Tov has over seven years of experience in southern California archaeology.

Alyson Caine conducted the cultural resources records search at the South Central Coastal Information Center (SCCIC) in Fullerton. Ms. Caine holds a Master of Science in Paleopathology/Archaeology from Durham University, Durham, United Kingdom. Ms. Caine has three years of professional and academic training in prehistoric bioarchaeology and osteology and one year in California archaeology. Sarah Nava conducted the field survey and prepared the survey and records search portions of the report. Ms. Nava earned a B.A. in Anthropology in 2008 from California State University, Long Beach and has six years of field experience in southern California. Andre Simmons drafted the maps used in this report. Mr. Simmons has a M.A. in Anthropology from California State University, Fullerton, as well as a certificate in Geographic Information Systems (GIS) from the same institution. He has six years of field experience in southern California. Short resumes of all Cogstone staff involved in this Project are provided in Appendix A.

REGULATORY ENVIRONMENT

STATE LAWS AND REGULATIONS

CALIFORNIA ENVIRONMENTAL QUALITY ACT

CEQA requires studies that analyze the environmental effects of a proposed project. In the event that a project is determined to have a potential significant environmental effect, a definition that includes historic resources, the act requires that alternative plans and mitigation measures be considered.

TRIBAL CULTURAL RESOURCES

As of 2015, CEQA established that "[a] project with an effect that may cause a substantial adverse change in the significance of a tribal cultural resource is a project that may have a significant effect on the environment" (Pub. Resources Code, § 21084.2.). In order to be considered a "tribal cultural resource," a resource must be either:

(1) listed, or determined to be eligible for listing, on the national, state, or local register of historic resources, or
(2) a resource that the lead agency chooses, in its discretion, to treat as a tribal cultural resource.

To help determine whether a project may have such an effect, the lead agency must consult with any California Native American tribe that requests consultation and is traditionally and culturally affiliated with the geographic area of a proposed project. That consultation must take place prior to the determination of whether a negative declaration, mitigated negative declaration, or environmental impact report is required for a project (Pub. Resources Code, § 21080.3.1.).

In applying those criteria, a lead agency must consider the value of the resource to the tribe. For example, in considering the criterion that a resource is "associated with the lives of persons important in our past," a lead agency would ask whether the resource is associated with the lives of persons important to the relevant tribe's past. That determination must be supported with substantial evidence.

If a lead agency determines that a project may cause a substantial adverse change to tribal cultural resources, the lead agency must consider measures to mitigate that impact. Public Resources Code §20184.3 (b)(2) provides examples of mitigation measures that lead agencies may consider to avoid or minimize impacts to tribal cultural resources.

CALIFORNIA REGISTER OF HISTORICAL RESOURCES

PRC § 5024.1, which is applicable to this Project, establishes the California Register of Historical Resources. Historic resources encountered during the Project other than the sewer may be eligible for inclusion on the CRHR since the undertaking is subject to PRC 5024.1. The register is a listing of all properties considered to be significant historical resources in the state. The California Register includes all properties listed or determined eligible for listing on the National Register, including properties evaluated under Section 106, and State Historical Landmarks from No. 770 on. The criteria for listing are the same as those of the National Register. The California Register statute specifically provides that historical resources listed, determined eligible for listing on the California Register by the State Historical Resources Commission, or resources that meet the California Register criteria are resources which must be given consideration under CEQA (see above). Other resources, such as resources listed on local

registers of historic registers or in local surveys, may be listed if they are determined by the State Historic Resources Commission to be significant in accordance with criteria and procedures to be adopted by the Commission and are nominated; their listing in the California Register, is not automatic.

Resources eligible for listing include buildings, sites, structures, objects, or historic districts that retain historic integrity and are historically significant at the local, state or national level under one or more of the following four criteria:

1) It is associated with events that have made a significant contribution to the broad patterns of local or regional history, or the cultural heritage of California or the United States;
2) It is associated with the lives of persons important to local, California, or national history;
3) It embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of a master or possesses high artistic values; or
4) It has yielded, or has the potential to yield, information important to the prehistory or history of the local area, California, or the nation.

In addition to having significance, resources must have integrity for the period of significance. The period of significance is the date or span of time within which significant events transpired, or significant individuals made their important contributions. Integrity is the authenticity of a historical resource's physical identity as evidenced by the survival of characteristics or historic fabric that existed during the resource's period of significance. Alterations to a resource or changes in its use over time may have historical, cultural, or architectural significance. Simply, resources must retain enough of their historic character or appearance to be recognizable as historical resources and to convey the reasons for their significance. A resource that has lost its historic character or appearance may still have sufficient integrity for the California Register, if, under Criterion 4, it maintains the potential to yield significant scientific or historical information or specific data. No person shall knowingly and willfully excavate upon, or remove, destroy, injure or deface any historic or prehistoric ruins, burial grounds, archaeological or vertebrate paleontological site, including fossilized footprints, inscriptions made by human agency, or any other archaeological, paleontological or historical feature, situated on public lands, except with the express permission of the public agency having jurisdiction over such lands. Violation of this section is a misdemeanor.

As used in this section, "public lands" means lands owned by, or under the jurisdiction of, the state, or any city, county, district, authority, or public corporation, or any agency thereof. Consequently local project proponents as well as state entities are required to comply with PRC 5097.5 for their own activities, including construction and maintenance, as well as for permit actions (e.g., encroachment permits) undertaken by others.

NATIVE AMERICAN HUMAN REMAINS

Sites that may contain human remains important to Native Americans must be identified and treated in a sensitive manner, consistent with state law (i.e., Health and Safety Code §7050.5 and Public Resources Code §5097.98), as reviewed below:

> In the event that human remains are encountered during project development and in accordance with the Health and Safety Code Section 7050.5, the County Coroner must be notified if potentially human bone is discovered. The Coroner will then determine within two working days of being notified if the remains are subject to his or her authority. If the Coroner recognizes the remains to be Native American, he or she shall contact the Native American Heritage Commission (NAHC) by phone within 24 hours, in accordance with Public Resources Code Section 5097.98. The NAHC will then designate a Most Likely Descendant (MLD) with respect to the human remains. The MLD then has the opportunity to recommend to the property owner or the person responsible for the excavation work means for treating or disposing, with appropriate dignity, the human remains and associated grave goods.

LOS ANGELES COUNTY

The Los Angeles County General Plan has the following policies regarding cultural resource protection (2015):

- Policy C/NR 14.1: Mitigate all impacts from new development on or adjacent to historic, cultural, and paleontological resources to the greatest extent feasible.
- Policy C/NR 14.2: Support an inter-jurisdictional collaborative system that protects and enhances historic, cultural, and paleontological resources.
- Policy C/NR 14.3: Support the preservation and rehabilitation of historic buildings.
- Policy C/NR 14.4: Ensure proper notification procedures to Native American tribes in accordance with Senate Bill 18 (2004).
- Policy C/NR 14.5: Promote public awareness of historic, cultural, and paleontological resources.
- Policy C/NR 14.6: Ensure proper notification and recovery processes are carried out for development on or near historic, cultural, and paleontological resources.

BACKGROUND

ENVIRONMENTAL SETTING

GEOLOGY, HYDROLOGY, AND SOILS

The Project Area is located in the San Fernando Valley within the Transverse Ranges physiographic province. The Transverse Ranges is composed of parallel, east-west trending mountain ranges and sediment-filled valleys (USGS 1996). The San Fernando Valley is a structurally complex, sedimentologically diverse, and tectonically evolving late Tertiary-Quaternary basin that contains the headwaters of the Los Angeles River and its tributaries. Prior to the advent of flood control, the valley floor was composed of active alluvial fans and floodplains. Seasonal streams emanating from Pacoima and Big Tujunga Canyons drain the complex western San Gabriel Mountains and deposit coarse, highly permeable alluvium that contains generally high-quality ground water. The San Fernando Valley is a structural trough that has been filled from the sides, with the major source of sediment being large drainages in the San Gabriel Mountains. Deposition on the major alluvial fan of Tujunga Wash and Pacoima Wash, which issues from the San Gabriel Mountains, and on smaller fans, has been influenced by ongoing compressional tectonics in the valley. Late Pleistocene deposits have been cut by active faults and warped over growing folds. Holocene alluvial fans are locally ponded behind active uplifts (Yerkes 1997).

The Project Area is located at the base of the San Gabriel Mountains with elevation ranges from 1433 to 1551 feet above sea level. The Project Area is covered by fluvial and fan deposits that originated in the mountains to the north. A majority of the Project Area is underlain by recent Holocene alluvium and gravel (Dibblee 1991). The slopes in the northern Project Area are comprised of the Pacoima Formation which is a Pleistocene alluvial gravel and sand derived from the adjacent mountains (Dibble 1991). A small portion of the Project Area in the northeast corner is underlain by Quaternary older alluvium and gravel (Dibblee 1991)

Two intermittent streams are located in the Project vicinity. The first stream is located just west of the Project Area and originates in the Schoolhouse Canyon. The second stream is in the eastern portion of the Project site just east of Reagan Road and originates in the Wilson Canyon.

A majority of the present-day soil horizons in the Project area formed on alluvial fans and flood plains (Soil Survey Staff 2014). The Capistrano-Urban land complex is located in the western half of the Project Area and consists of very deep, well drained soils that formed in alluvium from sedimentary or granitic sources. The Soboba series is gravelly loamy sand located in the eastern half of the Project Area. It consists of deep, excessively drained soils that formed in recent alluvium from predominately granitic rock sources. Soboba soils represent very gravelly, cobbly, or stony soils. The Tujunga-Urban land complex is located within the undeveloped land

at the eastern edge of the Project area. It consists of very deep, somewhat excessively drained soils that formed in alluvium from granitic sources.

A smaller portion of the soils in the Project Area formed on dissected terraces and foothills (Soil Survey Staff 2014). The Saugus series is a loam located on the slopes at the north end of the Project Area. Saugus loam is deep, well drained soils that formed from weakly consolidated sediments. Depth to a paralithic contact is 40 to 56 inches. Soper gravelly loamy sand also located on the slopes at the north end of the Project Area consist of moderately deep, well drained soils that formed in material weathered from conglomerate and sandstone. The soils are on hills and uplands. The depth to a paralithic contact is 24 to 40 inches.

CLIMATE, FLORA/FAUNA, AND CURRENT LAND USE

Today's Mediterranean-like climate is characterized by warm, dry summers and cool, moist winters, with rainfall predominantly falling between November and May. Climatic conditions in this region varied substantially during prehistoric times. Paleoclimatic research indicates that pine forests were present in the Santa Barbara coastal regions between 12,000 and 8,000 years ago (Heusser 1978). As the climate became warmer and drier, the pine forests were replaced approximately 5,700 years ago by Holocene-type grassland and oak woodland communities. Today's coastal sage scrub and chaparral communities became more pronounced by approximately 2,000 years ago

Current land use in the Project vicinity is mainly urban in character with medical buildings, parking lots, and landscaping. Native vegetation is present just outside the boundaries of the Project Area to the north. Low lying areas and gentler slopes are dominated by nonnative grasses with scattered coast live oak and valley oak. Higher elevations transition to chaparral. Areas between the nonnative grasses and chaparral are dominated by coastal sage scrub species such as yucca and buckwheat. This setting hosts a variety of animal resources including mule deer, brush rabbits, and black-tailed jackrabbits. In recent history, large mammals and many other terrestrial species have been driven from the Project Area due to human activity. Along the nearby intermittent streams, riparian vegetation exists. Willows, cottonwoods, a variety of shrubs and some grasses were among the plants present.

PREHISTORIC SETTING

Approaches to prehistoric frameworks have changed over the past half century from being based on material attributes to radiocarbon chronologies to association with cultural traditions. Archaeologists defined a material complex consisting of an abundance of milling stones (for grinding food items) with few projectile points or vertebrate faunal remains dating from about 7 to 3 thousand years before the present as the "Millingstone Horizon" (Wallace 1955). Later, the "Millingstone Horizon" was redefined as a cultural tradition named the Encinitas Tradition

(Warren 1968) with various regional expressions including Topanga and La Jolla. Use by archaeologists varied as some adopted a generalized Encinitas Tradition without regional variations, some continued to use "Millingstone Horizon" and some used Middle Holocene (the time period) to indicate this observed pattern (Sutton and Gardner 2010:1-2).

Recently, it was recognized that generalized terminology is suppressing the identification of cultural, spatial, and temporal variation and the movement of peoples throughout space and time. These factors are critical to understanding adaptation and change (Sutton and Gardner 2010:1-2).

The Encinitas Tradition characteristics are abundant metates and manos, crudely made core and flake tools, bone tools, shell ornaments, very few projectile points with subsistence focusing on collecting (plants, shellfish, etc.) (Sutton and Gardner 2010:7). Faunal remains vary by location but include shellfish, land animals, marine mammals, and fish.

The Encinitas Tradition is currently redefined as comprising four geographical patterns (Sutton and Gardner 2010:8-25). These are (1) Topanga in coastal Los Angeles and Orange counties; (2) La Jolla in coastal San Diego County; (3) Greven Knoll in inland San Bernardino, Riverside, Orange, and Los Angeles counties; and (4) Pauma in inland San Diego County.

About 3,500 years before present, the Encinitas Tradition was replaced in the greater Los Angeles Basin by the Del Rey Tradition (Sutton 2010). This tradition has been generally assigned to the Intermediate and Late Prehistoric periods. The changes that initiated the beginning of the Intermediate Period include new settlement patterns, economic foci, and artifact types that coincided with the arrival of a biologically distinctive population. The Intermediate and Late Prehistoric periods have not been well-defined. Many archaeologists have proposed, however, that the beginning of the Intermediate marked the arrival of Takic-speaking groups (from the Mojave Desert, southern Sierra Nevada, and San Joaquin Valley) and that the Late Prehistoric Period reflected Shoshonean groups (from the Great Basin). Related cultural and biological changes occurred on the southern Channel Islands about 300 years later.

As defined by Sutton (2010), the Del Rey Tradition replaces usage of the Intermediate and Late Prehistoric designations for both the southern California mainland and the southern Channel Islands. Within the Del Rey Tradition are two regional patterns named Angeles and Island. The Del Rey Tradition represents the arrival, divergence, and development of the Gabrielino in southern California.

PREHISTORIC CHRONOLOGY

The latest cultural revisions for the Project Area define traits for time phases of the Greven Knoll pattern of the Encinitas Tradition applicable to inland Los Angeles County (Sutton and Gardner 2010; Table 2). This pattern is replaced in the Project Area by the Angeles pattern of the Del Rey

Tradition later in time (Sutton 2010; Table 1). Each pattern has subdivisions as identified by specific changes in cultural assemblages through time. Phases are identified by their archaeological signatures in components within sites.

Greven Knoll sites tend to be in valleys such as the Project Area. These inland peoples did not switch from manos/metates to pestles/mortars like coastal peoples (c. 5,000 years before present); this may reflect their closer relationship with desert groups who did not exploit acorns. The Greven Knoll toolkit is dominated by manos and metates throughout its extent. In Phase I, other typical characteristics were pinto dart points for atlatls or spears, charmstones, cogged stones, absence of shell artifacts and flexed position burials (Table 1). In Phase II, Elko dart points for atlatls or spears and core tools are observed along with increased indications of gathering (Table 4). In addition, the Greven Knoll populations are biologically Yuman (based on skeletal remains), while the later Angeles populations are biologically Shoshonean (Sutton and Gardner 2010; Sutton 2010).

The Angeles pattern generally is restricted to the mainland and appears to have been less technologically conservative and more ecologically diverse, with a largely terrestrial focus and greater emphases on hunting and nearshore fishing. In Angeles Phase I, Elko points for atlatls or darts appear, small steatite objects such as pipes and effigies from Catalina are found, shell beads and ornaments increase, fishing technologies increase including bone harpoons/fishhooks and shell fishhooks, donut stones appear, and hafted micro blades for cutting/graving wood or stone appear. In addition, several Encinitas (Topanga) traits, such as discoidals, cogged stones, plummet-like charmstones, and cairn burials (see Sutton and Gardner 2010: Table 1) virtually disappear from the record. Mortuary practices changed to consist of primarily flexed primary inhumations, with extended inhumations becoming less common. Settlement patterns made a shift from general use sites being common to habitation areas separate from functional work areas. Subsistence shifted from mostly collecting to increased hunting and fishing. [Sutton 2010]

Angeles Phase II is identified primarily by the appearance of a new funerary complex, with other characteristics similar to Angeles I. The complex features killed (broken) artifacts, including manos, metates, bowls, mortars, pestles, points, and others, plus highly-fragmented cremated human bones and a variety of faunal remains. In addition to the cremains, the other material also often burned. None of the burning was performed in the burial feature. [Sutton 2010]

The Angeles Phase III is the beginning of what has been known as the Late Period and is marked by several changes from Angeles I and II. These include the appearance of small projectile points, steatite shaft straighteners and increased use of asphaltum all reflecting adoption of bow and arrow technology. In addition, obsidian sources changed from mostly Coso to Obsidian Butte, and shell beads derived from Gulf of California species began to appear. Subsistence

practices continued as before and the geographic extent of the Angeles Pattern increased. [Sutton 2010]

Angeles Phase IV is marked by new material items including Cottonwood points for arrows, Olivella cupped beads and Mytilus shell disks, birdstones (zoomorphic effigies with magico-religious properties) and trade items from the Southwest including pottery. It appears that populations increased and there was a change in the settlement pattern to fewer but larger permanent villages. Presence and utility of steatite vessels may have impeded the diffusion of pottery into the Los Angeles Basin. Smaller, special-purpose sites continued to be used. [Sutton 2010]

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Angeles Phase V components contain more and larger steatite artifacts, including larger vessels, more elaborate effigies, and comals. Settlement locations shifted from woodland to open grasslands. The exploitation of marine resources seems to have declined and use of small seeds increased. Many Gabrielino inhumations contained grave goods while cremations did not. [Sutton 2010]

The Angeles Phase VI reflects the ethnographic mainland Gabrielino of the post-contact (i.e., post-A.D. 1542) period. One of the first changes in Gabrielino culture after contact was undoubtedly population loss due to disease, coupled with resulting social and political disruption. Angeles Phase VI material culture is essentially Angeles Phase V, augmented by a number of Euro-Aamerican tools and materials, including glass beads and metal tools such as knives and needles (used in bead manufacture). The frequency of Euro-American material culture increased through time until it constituted the vast majority of materials used. Locally produced brownware pottery appears along with metal needle-drilled Olivella disk beads. [Sutton 2010]
The ethnographic mainland Gabrielino subsistence system was based primarily on terrestrial hunting and gathering; although nearshore fish and shellfish played important roles. Sea mammals, especially whales (likely from beached carcasses), were prized. In addition, a number of European plant and animal domesticates were obtained and exploited. Ethnographically, the mainland Gabrielino practiced interment and some cremation. [Sutton 2010]

Table 1. Cultural Patterns and Phases

Pattern	Phase	Dates (BP)	Material Traits	Other Traits
Encinitas	Greven Knoll I	8,500 to 4,000	Abundant manos and metates, Pinto dart points for atlatls or spears, charmstones, cogged stones and discoidals rare, no mortars or pestles, general absence of shell artifacts	No shellfish, hunting important, flexed inhumations, cremations rare
	Greven Knoll II	4,000 to 3,000	Abundant manos and metates, Elko dart points for atlatls or spears, core tools, late discoidals, few mortars and pestles, general absence of shell artifacts	No shellfish, hunting and gathering important, flexed inhumations, cremations rare
Angeles	Angeles I	3,500 to 2,600	Appearance of Elko dart points and an increase in the overall number of projectile points from Encinitas components; beginning of large-scale trade in small steatite artifacts (effigies, pipes, and beads) and *Olivella* shell beads from the southern Channel Islands; appearance of single-piece shell fishhooks and bone harpoon points; Coso obsidian becomes important; appearance of donut stones	appearance of a new biological population (Takic proto-Gab/Supan language), apparent population increase; fewer and larger sites along the coast; collector strategy; less overall dependence on shellfish but fishing and terrestrial hunting more important; appearance of flexed and extended inhumations without cairns, cremations uncommon
	Angeles II	2,600 to 1,600	Continuation of basic Angeles I material culture with the addition of mortuary features containing broken tools and fragmented cremated human bone; fishhooks become more common	continuation of basic Angeles I settlement and subsistence systems; appearance of a new funerary complex
	Angeles III	1,600 to 1,250	Appearance of bow and arrow technology (e.g., Marymount or Rose Spring points); changes in *Olivella* beads; asphaltum becomes important; reduction in obsidian use; Obsidian Butte obsidian largely replaces Coso	larger seasonal villages; flexed primary inhumations but no extended inhumations and an increase in cremations; appearance of obsidian grave goods; possible expansion into eastern Santa Monica Mountains, replacing Topanga III groups
	Angeles IV	1,250 to 800	Cottonwood points appear; some imported pottery appears; birdstone effigies at the beginning of the phase and "spike" effigies dropped by the end of the phase; possible appearance of ceramic pipes	change in settlement pattern to fewer but larger permanent villages; flexed primary inhumations continue, cremations uncommon; expansion into the San Gabriel Mountains, displacing Greven Knoll III groups

Pattern	Phase	Dates (BP)	Material Traits	Other Traits
	Angeles V	800 to 450	Trade of steatite artifacts from the southern Channel Islands becomes more intensive and extensive, with the addition or increase in more and larger artifacts, such as vessels and comals; larger and more elaborate effigies	strengthening of ties, especially trade, with southern Channel Islands; expansion into the northern Santa Ana Mountains and San Joaquin Hills; development of mainland dialects of Gabrielino
	Angeles VI	450 to 150	Addition of Euroamerican material culture (e.g., glass beads and metal tools), locally made pottery, metal needle-drilled *Olivella* beads	change of settlement pattern, movement close to missions and ranches; use of domesticated species obtained from Euroamericans; flexed primary inhumations continue, cremations uncommon to the north (nearer the Chumash) but somewhat more common to the south (nearer the Luiseño); apparent adoption of Chingichngish religion

ETHNOGRAPHY

The Project Area is within the traditional tribal territory of the Fernandeño, a subgroup of the Gabrielino/Tongva (Figure 5). The Tongva occupied Los Angeles County south of the Sierra Madre and portions of Orange County, as well as San Clemente and Santa Catalina (Kroeber 1976; McCawley 1996). Populations of the Tongva associated with Mission San Fernando were known as Fernandeño Indians, historically. However, both were populations of the Tongva Nation and the distinction is primarily geographical (McCawley 1996).

Two groups of Native Americans were present prehistorically in the San Fernando Valley, the Tataviam (Fernandeño) and the Tongva (Gabrielino). Tataviam territory stretched from Antelope Valley, through the Tejon Ranch area and into the San Fernando Valley. The Tongva territory encompassed a vast area stretching from Topanga Canyon in the northwest, to the base of Mount Wilson in the north, to San Bernardino in the east, Aliso Creek in the southeast and the Southern Channel Islands, in all an area of more than 2,500 square miles (McCawly 1996: 3).

These semi-sedentary hunting and gathering tribes consisted of more than 5,000 people living in various settlements throughout the area. Some of the villages could be quite large, housing up to 150 people. They thrived by exploiting the abundant and rich animal and plant resources available in the area. Marine resources, such as fish, marine mammals and shellfish, were especially important and items were often traded between coastal and inland groups.

Acorns were one of the most important food resources utilized by Native American groups across California. The acorns were ground into a fine powder in order to make an acorn mush or

gruel. A dietary staple, acorns provided a large number of calories and nutrients. The ability to store and create stockpiles in case of lean times also contributed to the importance of acorns as a vital natural resource. Much of the material evidence available to archaeologists concerning the Tataviam and Tongva is a result of tools and technologies related to their subsistence activities. Acorns contain tannic acid, which is poisonous. Acorns must be ground and the tannic acid leached out before they are edible. Manos, metates, mortars and pestles used for processing acorns and other nuts and seeds are often found at archaeological sites.

In addition to plant resources, the tribes also hunted animals such as deer, rabbits and other small game. A wide variety of plants were also exploited not only for food, but also medicine, clothing, building materials etc. Lithic debitage from the manufacture of stone tools such as arrowheads is also frequently found.

After the advent of the Missions in California, the Tataviam were called the Fernandeño and the Tongva were called the Gabrielino. Many modern day descendants are active members of current tribes of Tataviam and Tongva.

Figure 5. Southern California Tribal Boundaries

HISTORIC SETTING

SPANISH AND MEXICAN ERA SETTING

Juan Cabrillo was the first European to sail along the coast of California in 1542 and was followed in 1602 by Sebastian Vizcaino (Bean and Rawls 1993). Between 1769 and 1822, the Spanish had colonized California and established missions, presidios and pueblos (Bean and Rawls 1993).

The Project Area is located on a portion of land that was managed by the San Fernando Mission (Figure 6). Mission San Fernando Rey de España founded was on September 8, 1797. In the 1820's a Mission father by the name of Iballa, planted young olive trees from Spain and is credited for initiating the olive growing industry in Sylmar.

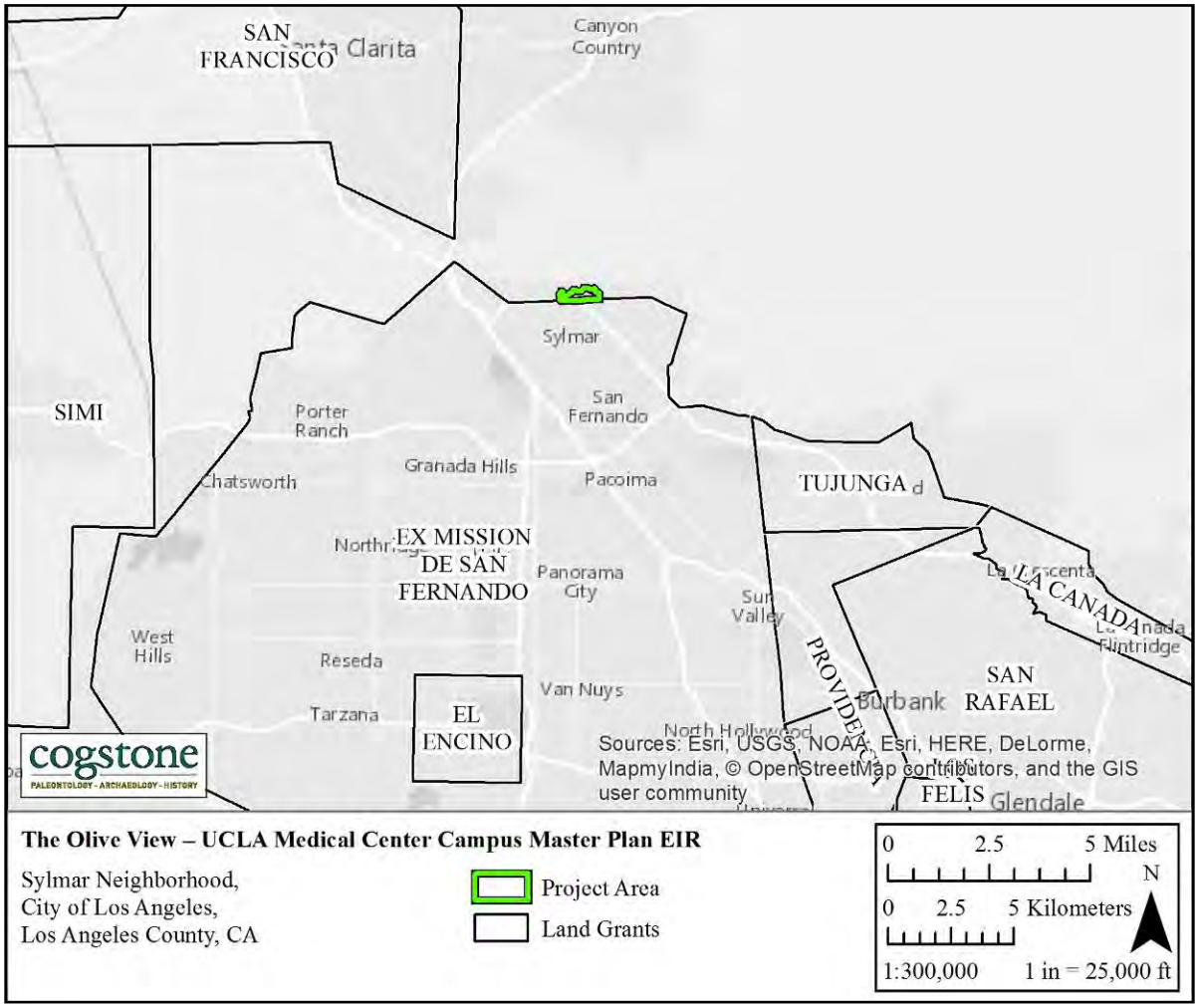


Figure 6. Mexican land grants surrounding the Project Area

In 1821, Mexico won its independence from Spain and worked to lessen the wealth and power held by the missions. The Secularization Act was passed in 1833, giving the vast mission lands to the Mexican governor and downgrading the missions' status to that of parish churches. The governor then redistributed the former mission lands, in the form of grants, to private owners. Ranchos in California numbered over 500 by 1846, all but approximately 30 of which resulted from land grants (Bean and Rawls 1993; Robinson 1948).

AMERICAN ERA SETTING (1848-1896)

Settled in the mid nineteenth century, the City of Sylmar was originally part of an unincorporated portion of San Fernando known as "Morningside". When the City of San Fernando incorporated the City in September 16, 1874, it was renamed Sylmar, meaning "city of trees".
A businessman by the name of Robert Wideny published a pamphlet exalting the Sylmar's ideal climate for growing olives. Enticed by Widney's description, a group of Illinois businessmen, who later called themselves the Los Angles Olive Growers Association, purchased 2,000 acres south of Roxford Street and by 1890 they had planted 1,100 acres of olives. The olives were originally sold under the Tyler Olives label which was later changed to the Sylmar Packing Label. Sylmar olives became famous throughout California for high quality (Sylmar Chamber of Commerce 2016).

20TH CENTURY SETTING (1900- PRESENT)

The Project Area is located on the former Olive View Sanatorium property, which first opened in 1921 and consisted of 590 acres. Prior to the establishment of the Sanatorium, the area was used for agricultural practices. A review of the 1900 USGS topographic map depicts very few houses in the area and only one within the future Sanatorium's grounds (Figure 7). At that time, the Project Area was relatively isolated, connected indirectly to the Los Angeles metropolitan area only by means of the Pacific Electric "Red Car" lines and the Southern Pacific Railroad. The Olive View Sanatorium was primarily used for the treatment of tuberculosis because the warm, dry air and Mediterranean climate was considered therapeutic (McAvoy 1994). Patients were often brought to the sanatorium forcefully, and, prior to finding and employing chemotherapy and sulfonamide drugs in the from the mid-1940s, the sick were subjected to a variety of harsh and at best mildly effective treatments (Leovy 1995; Rutgers Global Tuberculosis Institute 2015).

By 1945, the topographic map depicts the Sanatorium as extensively developed with medical and supporting buildings (Figure 8). An extensive road network was built to suit the needs of the Olive View Sanatorium and a number of houses and other buildings were constructed close to the house depicted on the 1900 topographic map. A few buildings were destroyed by a 1962 wildfire, but more extensive alterations to the campus were caused by a change in its mission. The Olive View Sanatorium underwent extensive physical and organizational changes in 1970, when it transitioned from a tuberculosis hospital to a teaching hospital for UCLA (Figure 9). In

addition, buildings on the campus were severely damaged a year later during the 1971 San Fernando-Sylmar Earthquake (scvhistory.com n.d.).

Additional records provided by Environmental Data Resources (EDR), including aerial images (2016a), Sanborn Fire Insurance Maps (2016b), city directories (2016c) and topographic maps (2016d) were reviewed. The historic aerial images dated between 1928 and 2012 show the sanatorium's transformation from isolated campus to suburban medical center. The Sanborn maps, dating from 1923 and 1927, show details of many sanatorium buildings, many no longer extant. Finally, although the directories date between 1920 and 2013, no names are associated with the Project Area prior to 1975.

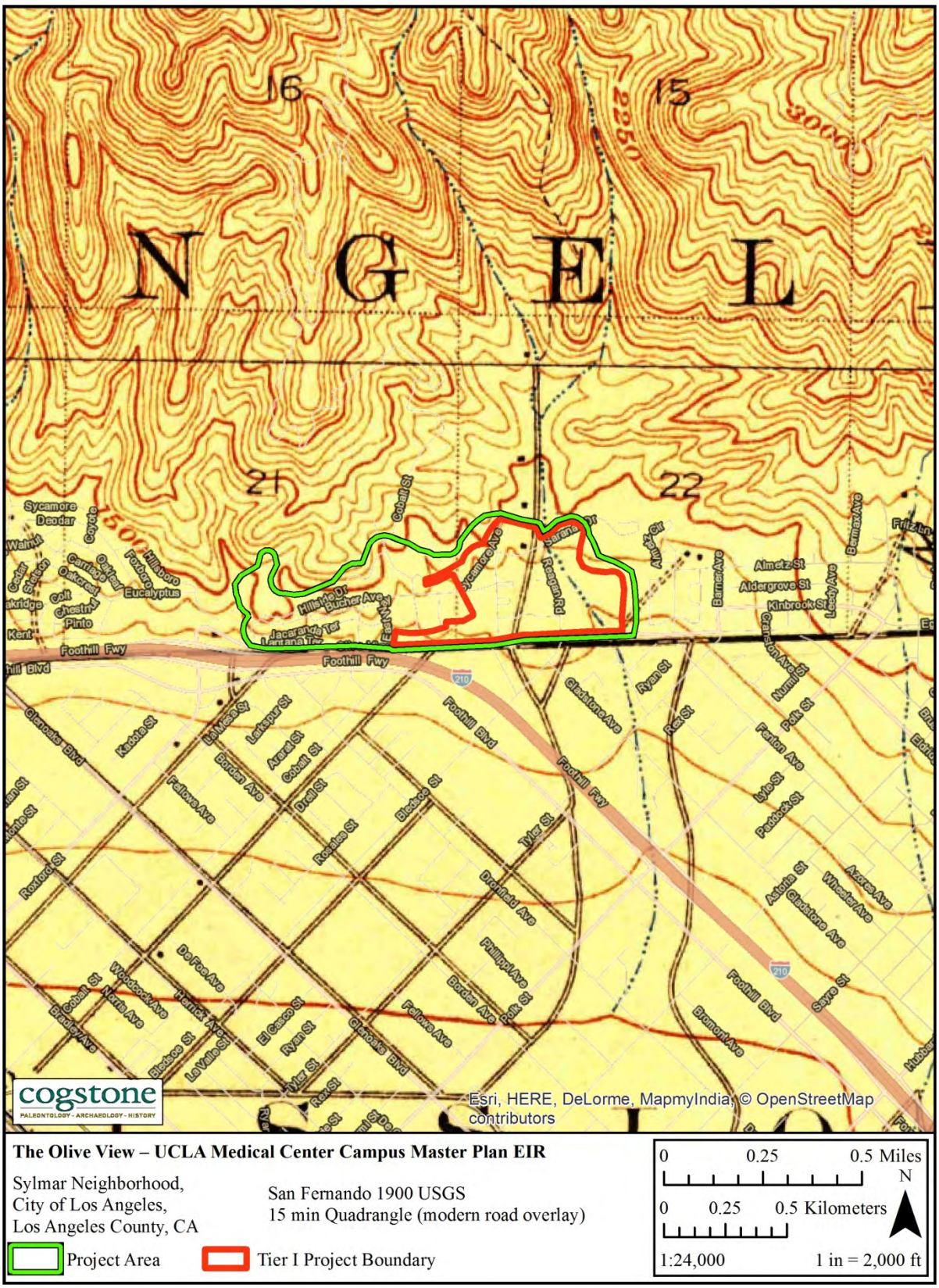


Figure 5. 1900 Map Showing House in Project Area along Main N-S Road

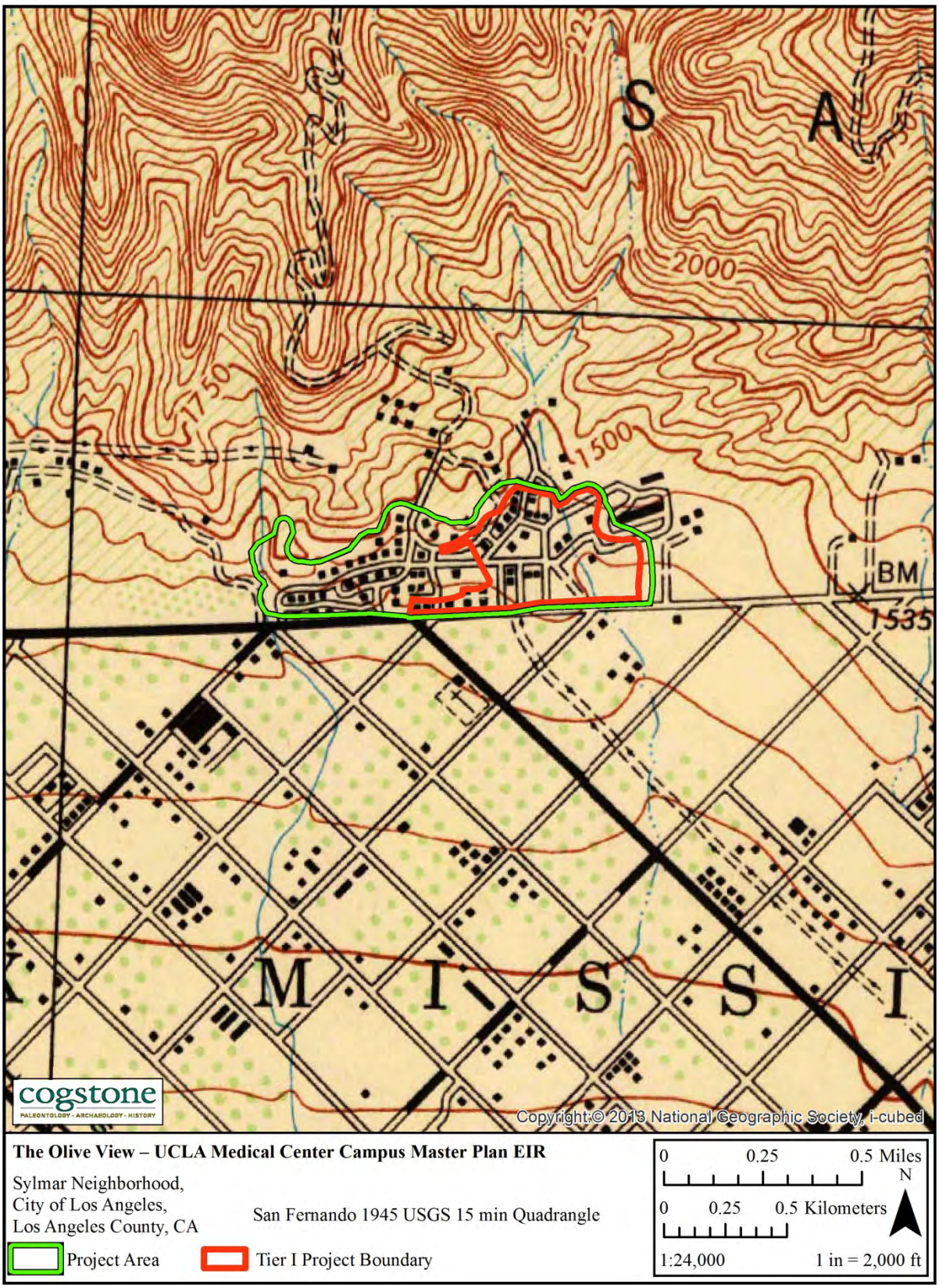


Figure 6. 1945 Map of the Project Area, Showing Sanatorium Fully Developed

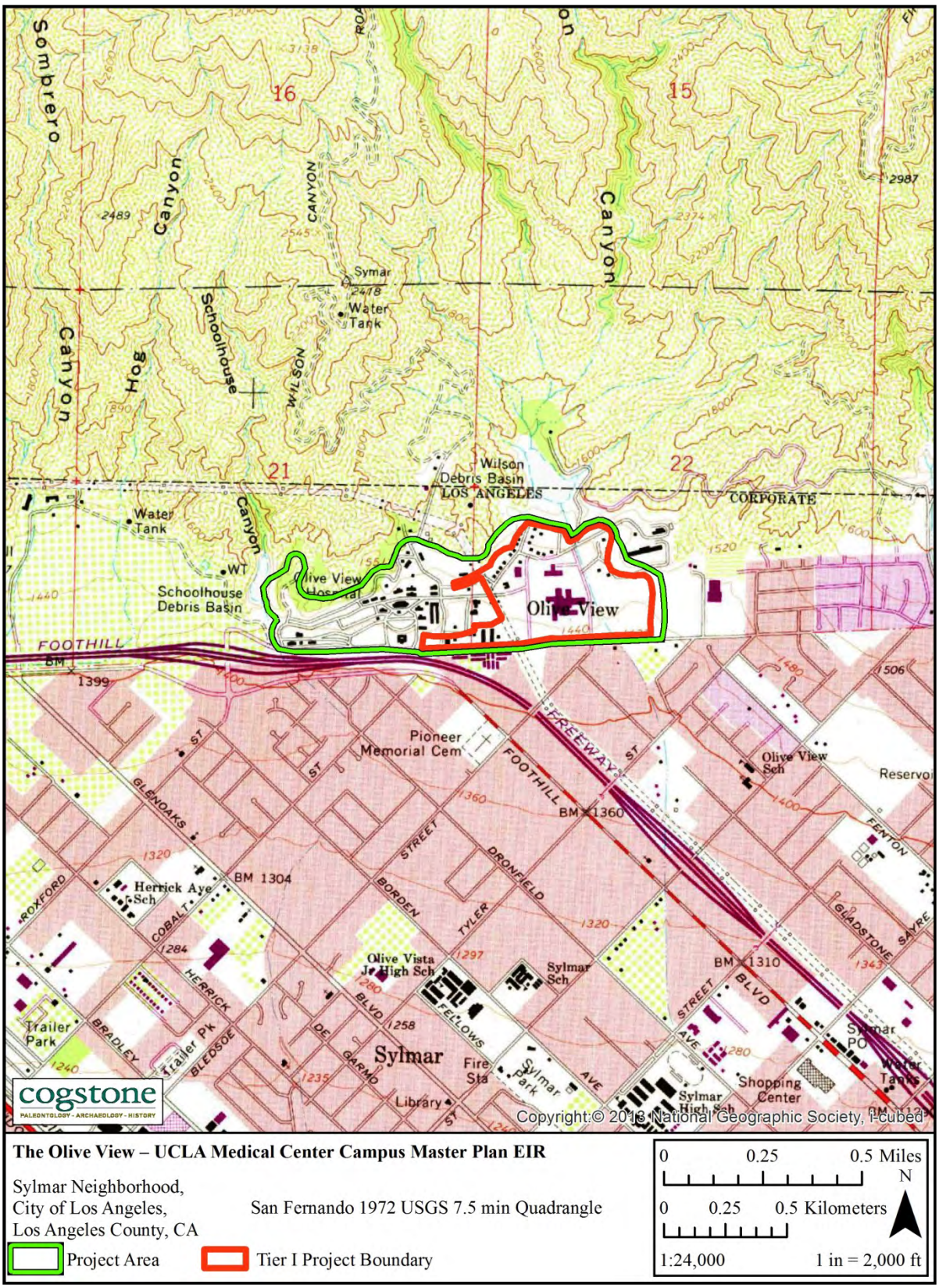


Figure 7. 1972 Map of the Project Area, Showing Olive View-UCLA Medical Center

SOURCES CONSULTED

CALIFORNIA HISTORIC RESOURCES INVENTORY SYSTEM

A search for archeological and historical records was completed by Alyson Caine, Cogstone on January 28th, 2016 at the South Central Coast Information Center (SCCIC), California State University at Fullerton. The search included a 1 mile-radius around the approximately 138.6-acre Project Area. Results indicate that 27 cultural resources investigations have been completed previously within a one mile radius of the Project Area (Appendix B). Five of these studies intersect the 138.6-acre Project Area.

The results of these studies indicate that three cultural resources have been previously recorded within the Project Area. Outside of the Project Area but within the one mile search radius are an additional three cultural resources consisting of a historic built environment resource and two California Historical Landmarks; the Angeles National Forest and San Fernando Pioneer Memorial Cemetery (Table 2).

TIER I

Within Tier I are two previously recorded cultural resources, P-19-175294 and P-19-187900. P-19-175294 is the Historic District Record for the Olive View-UCLA Medical Center and includes an inventory of 67 built environment resources (Table 3). The district record contains a 1994 letter from a representative of the State Historic Preservation Officer, concluding that the Olive View-UCLA Medical Center was eligible for the National Register of Historic Places (NRHP). However, the application was reassessed in 1995 the application and it was determined that the district lacked sufficient integrity to be eligible for listing on the NRHP.

P-19-187900 is a historic built environment resource for the Laundry and Linen Buildings within the Olive View Tuberculosis Sanitarium Complex. The structure consists of two concrete foundations.

TIER II

Within Tier II are two previously recorded cultural resources, is the previously described P-19-175294, Olive View-UCLA Medical Center Historic District as well as P-19-003794, a historic built environment resource associated with the Olive View Tuberculosis Sanitarium complex. Specifically, P-19-003794 consists of a concrete foundation and sidewalk associated with the Men's Solarium Wards 121 & 124 as well as a concrete subterranean transformer vault.

Table 2. Previously Recorded Resources Within a One-Mile Radius of the Project Area

Primary Number (P-19-)	Site Type	Year	Distance from the PA
3794	Historic medical building	2008	Within PA, Tier II
175294	Historic District, Olive View-UCLA Medical Center	1994	Within, Tier I & Tier II
186535	California Historical Landmark Angeles National Park	1979	1 mile
186537	California Historical Landmark San Fernando Pioneer Memorial Cemetery	1980	0.25 mile
187900	Historic medical building	2006	Within PA, Tier I
188089	Historic medical building	2007	0.25 miles

Table 3. Historic Resources Index for the Olive View UCLA Medical Center Historic District

Primary Number (P-19-)	Common Name	Year Constructed	HRI Number	NRS Code
175293	Warehouse	1926	097809	2S2
175292	Building 110	1923	097808	2S2
175291	Building 106	1923	097807	2S2
175294	UCLA Medical Center	1920	097810	2S2
175906	Garage	1962	099563	6Y
175590	Building 33, LACO 2519	1925	100286	6Y
175912	Storage Building	Unknown	099573	6Y
175910	Nursing Education	1993	099568	6Y
175909	Doctor's Office	1991	099567	6Y
175908	Material Management	1984	099566	6Y
175905	Weed Abatement	1955	099562	6Y
175907	Can Sterilizer	1962	099564	6Y
175911	Cubicle	Unknown	099570	6Y
175865	Bungalow F	1926	099519	2S2
175872	Convalescent Cottage	1927	099526	2S2
175882	Double Garage	1929	099536	2S2
175864	Bungalow E	1926	099518	2S2
175866	Building 114	1927	099520	2S2
175863	Bungalow D	1926	099514	2S2
175862	Building 307	1926	099513	2S2
175867	Bungalow C	1927	099521	2S2
175904	Canteen/Post Office	1953	099561	6Y
175861	Personnel Payroll	1925	099510	2S2
175903	Incinerator Building	1952	099560	6Y
175902	3-Car Garage	1932	099558	6Y
175860	Medical Transcription	1925	099509	2S2

Primary Number (P-19-)	Common Name	Year Constructed	HRI Number	NRS Code
175901	Trans Vault/Dist System	1931	099557	6Y
175900	Film Storage Vault	1930	099556	6Y
175868	Bungalow G	1927	099522	2S2
175899	Rec Park Toilets	1929	099555	6Y
175859	Garbage and Can House	1925	099507	2S2
175898	Double Garage	1929	099554	6Y
175897	Convalescent	1927	099553	6Y
175896	Toilet Building	1925	099552	6Y
175858	Cottage #1	1925	099505	2S2
175895	Transportation Garage	1924	099550	6Y
175894	Conference Center	1920	099549	6Y
175857	Barber Shop	1925	099503	2S2
175893	Coroner's Office	1935	099548	2S2
175892	Morgue	1931	099547	2S2
175891	Bungalow T	1931	099545	2S2
175890	Guest Cottage	1930	099544	2S2
175889	Bungalow S	1930	099543	2S2
175888	Bungalow R	1930	099542	2S2
175887	Bungalow Q	1930	099541	2S2
175886	Bungalow P	1930	099540	2S2
175885	Building #403	1930	099539	2S2
175884	Women Doctor's Cottage	1929	099538	2S2
175851	Cottage #4	1921	099495	2S2
175883	Film Storage Vault	1929	099537	2S2
175881	Bungalow O	1929	099535	2S2
175869	Building H	1927	099523	2S2
175870	Building I	1927	099524	2S2
175876	Building 303	1929	099530	2S2
175874	Garage/Lumber Storage	1928	099528	2S2
175871	Bungalow J	1927	099525	2S2
175877	Building 305	1929	099531	2S2
175873	Buildings #401 and #402	1928	099527	2S2
175875	Building 301	1929	099529	2S2
175878	Bungalow L	1929	099532	2S2
175855	Building 108	1923	099500	2S2
175879	Bungalow M	1929	099533	2S2
175854	Ward 103/Stationary	1921	099498	2S2
175853	Garage	1921	099497	2S2
175852	Cottage U	1921	099496	2S2
175856	Cottage #3	1923	099502	2S2
175880	Bungalow N	1929	099534	2S2

OTHER SOURCES

In addition to the records at the SCCIC, a variety of sources were consulted in June 2016 to obtain information regarding the Project Area. Sources included the National Register of Historic Places (NRHP), the California Register of Historic Resources (CRHR), California Historical Resources Inventory (CHRI), California Historical Landmarks (CHL), and California Points of Historical Interest (CPHI). Checks of the CHRI and CHL returned positive results (Table 4). In addition materials obtained from EDR including aerials, Sanborn Fire Insurance Maps, and City directories were reviewed.

Table 4. Other Sources Consulted

Source	Results
National Register of Historic Places (1979-2002 & supplements)	Negative
Historic United States Geological Survey topographic maps	Historic Topographic maps indicate that the Project Area was undeveloped prior to 1930. Between 1930 and 1945 Project Area experienced substantial development.
Historic Aerials NETR Online; Environmental Data Resources, Inc. (EDR)	Historic aerials show that prior to 1947, the Project Area consisted of agricultural fields. Between 1959 and 1969, Interstate Highway 210 and the Olive View Medical Center were constructed as well as a housing development to the east of the Project Area. Aerial photos from EDR dated between 1928 and 2012 provide 19 images of the Olive View Sanatorium/Olive View-UCLA Medical Center and the surrounding area. The photos show the sanatorium as developed and its transformation by 1976 into the medical center that exists today.
California Register of Historical Resources (1992-2010)	Negative
California Inventory of Historic Resources (1976-2010)	Negative
California Historical Landmarks (1995 & supplements to 2010)	Positive: The Angeles National Forest (#717) and The San Fernando Pioneer Memorial Cemetery (#753)
California Points of Historical Interest (1992 to 2010)	Negative
Office of Historic Preservation (OHP) Historic Resources Index (HRI)	Positive: See Table 3
Local Historical Register Listings	Negative
Bureau of Land Management General Land Office Records	Positive: 8 land patents, see Table 5
Sanborn Fire Insurance Maps (EDR)	Positive: 1923 and 1927 maps of portions of the Olive View Sanatorium show numerous hospital and related buildings.
Phone and City Directories (EDR)	Positive: A compilation of various phone company and Los Angeles directories dating between 1920 and 2013 revealed the names of medical departments and companies servicing the Olive View-UCLA Medical Center between 1975 and 2013. No earlier information was listed.

A search of the Bureau of Land Management's General Land Office (GLO) records available online revealed that seven individuals as well as the Southern Pacific Railroad obtained land patents for portions of the Project Area between 1873 and 1926 (Table 5).

Table 5. Land Patents

Name	Year	Aliquots	Section	Township	Range
Eulogio De Celis	1873		21, 22	3N	15W
Christopher N. Wilson and William Helm	1877	N ½ SW ½	22	3N	15W
George Lundie	1884	NE ¼ SE ¼; NW ¼ SE ¼	22	3N	15W
Southern Pacific Railroad	1883		21	3N	15W
Christopher N. Wilson	1900	N ½ SE ½	21	3N	15W
John S. Hendrickson	1901	N ½ NW ¼	22	3N	15W
Harry Heath	1919	N ½ SE ½	22	3N	15W
George W. Fite	1926	N ½ SE ½	22	3N	15W

The earliest land patent issued for the Project Area was to Eulogio De Celis, Jr. De Celis' father held title to nearly the entire San Fernando Valley. Eulogio De Celis inherited his father's lands and sold them when they faced foreclosure (O'Neil 1997).

California National Guard records from 1886 list a person named Christopher N. Wilson as a First Lieutenant, Commissary from Los Angeles. Los Angeles city directories between 1892 and 1910 list an attorney by that name at various downtown addresses, but sometimes give him a San Fernando affiliation in addition.

Individuals named John S. Hendrickson and George W. Fite could be linked to the San Fernando Valley in the period during which the land patents were granted. John S. Hendrickson was born in 1867 or 1868 in Germany, having come to California from Illinois within four years of his U.S. arrival. By 1900 he had settled in San Fernando but his profession was not recorded. He died in 1916 and is buried in Glendale. George W. Fite was born in 1887 and died in 1958, being buried in Sylmar. A 1930 directory listing in Los Angeles shows this man living on Park Drive and working as the president of a trust company. The San Fernando Valley Directory of 1939-1940 lists the same man living by that time at a San Fernando address and working as a clerk.

Three of the other land patent holders listed in Table 5, William Helm, George Lundie and Harry Heath, could not be definitively linked to the Project Area, although individuals with all those names do occur in various historical records in the City of Los Angeles.

NATIVE AMERICAN CONSULTATION

The Los Angeles County Department of Public Works (LADPW) conducted the tribal consultation that is summarized below. A Sacred Lands File search request was submitted to the Native American Heritage Council (NAHC) on April 6, 2016. The NAHC replied on July 5, 2016 that a search of their records returned negative results for sacred lands located within the Project Area. The NAHC requested that nine tribes be consulted about the Project. LADPW mailed letters on April 11, 2016 to one tribe, the Fernandeño Tataviam Band of Mission Indians (Tataviam), which was the only tribe to request formal notification of LADPW projects occurring in the Project vicinity. The letter provided project information and requested any information related to tribal cultural resources within or adjacent to the Project Area.

Sedna Villavicencio of the Fernandeño Tataviam Band of Mission Indians Tribal Historic and Cultural Preservation Department responded by letter on April 21, 2016 requesting the estimated cubic yards of soil disturbance. On June 9, 2016, LADPW responded by letter with the cubic yardage as well as additionally information. On July 14, 2016 the Tataviam responded that the Project Area is located within the sensitivity zone of two villages, Passenga and Achoicominga and requested that LADPW undertake consultation with the Tataviam during the planning stages, and that all ground disturbing activities be monitored by professional Native American monitors.

Based on the information provided by the Tataviam, the LADPW has determined that there are no known Tribal Cultural Resources, as defined by PRC 21074, within the Project Area and therefore will not include the recommended mitigation measure for inclusion in the environmental document. The LADPW has concluded that a mutual agreement cannot be reached and has decided to close consultation, PRC 21080.3.2(b). All consultation correspondence is provided as Appendix C to this report.

FIELD SURVEY METHODS AND RESULTS

The cultural resources survey stage is important in a project's environmental assessment phase to verify the exact location of each identified cultural resource, the condition or integrity of the resource, and the proximity of the resource to areas of other areas of cultural resources sensitivity. The survey area ran east-to-west and extended from the northwestern part of Bucher Avenue to the Wilson Canyon Park road located at 118°26'27.371"W, 34°19'34.668"N. The north-to-south oriented portion of survey area ran parallel to Olive View Drive and extended to foothills running along Hillside Drive. The survey consisted of walking parallel transects in open areas, spaced at 10-meter intervals within the Project Area, while closely inspecting the ground

surface. Existing disturbances (e.g., rodent burrows, ditches) were examined for artifacts or buried cultural deposits. Areas with built environments and modern features were excluded from the survey area.

Sarah Nava, Cogstone Staff Archaeologist, completed an intensive-level pedestrian survey of the 138.6-acre Project Area on February 15, 2016 (Figure 10). Approximately 35.2 acres of the Project Areas was not surveyed due to restricted access at the western end and the eastern end of the Project Area. These restricted areas included fenced off construction zones (Figure 11), steep slopes and hills fenced off in the northern part of the Project area, and county restricted areas (Figure 12). No construction crews were present during the day the Project Area was surveyed; therefore Cogstone staff was not able to access those portions of the Project Area. The inaccessible fenced off areas included the locations of the historic period morgue and incinerator which was used to cremate bodies (Bob Ross, personal communication 2016).

The Project Area consists of a medical complex and is therefore a built environment, limiting ground visibility due to buildings and paved streets and parking lots (hardscape). In areas without hardscape, visibility was limited due to recent grass growth from winter rains. In general, ground visibility within the Project Area was poor and limited to 10 percent.

TIER I

P-19-175294
The survey within Tier I observed portions of the Olive View-UCLA Medical Center Historic District, P-19-175294, while other previously recorded buildings appeared to have been demolished, leaving only foundations.

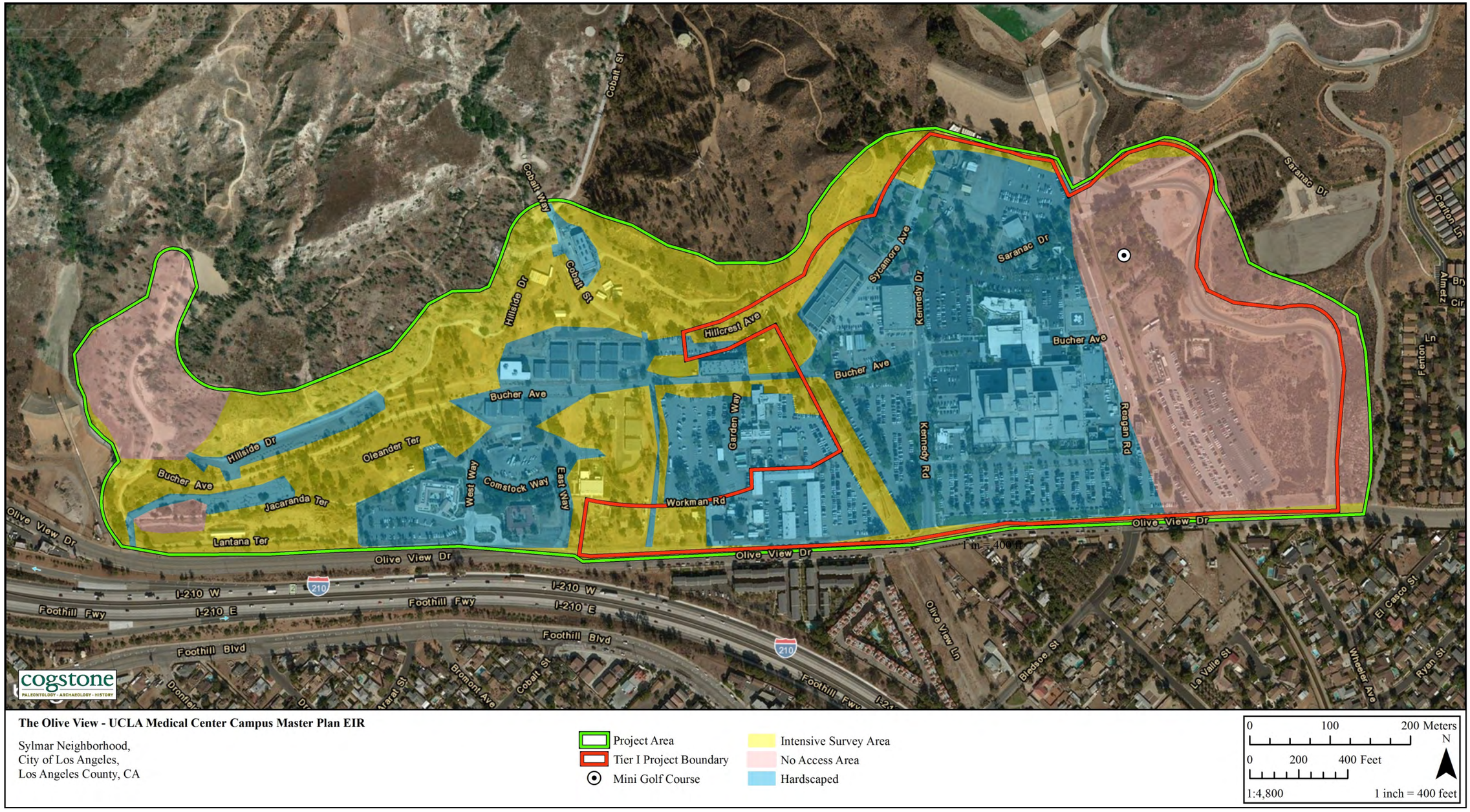
P-19-187900
The survey within Tier I also identified the two concrete foundations that comprise P-19-187900 All previously recorded features were still present.

TIER II

P-19-175294
Similar to the survey for Tier I, the Tier II survey also observed portions of the Olive View-UCLA Medical Center Historic District, P-19-175294, while other previously recorded buildings appeared to have been demolished, leaving only foundations.

P-19-003794
The concrete foundation and sidewalk associated with the Men's Solarium Wards 121 & 124 and the concrete subterranean transformer vault were identified during the Tier II survey. The concrete foundation and sidewalk previously recorded are no longer present however, the subsurface transformer vault is still present and appears to be in use.

No archaeological resources were identified within the Tier I or Tier II Project Areas. Historic built environment resources encountered, possibly relating to the previously recorded sites, are discussed and evaluated in a separate architectural history assessment.



The Olive View - UCLA Medical Center Campus Master Plan EIR

Sylmar Neighborhood,
City of Los Angeles,
Los Angeles County, CA

Project Area
Tier I Project Boundary
Mini Golf Course
Intensive Survey Area
No Access Area
Hardscaped

0 100 200 Meters
N
0 200 400 Feet
1:4,800 1 inch = 400 feet

Figure 10. Map Showing Surveyed Area

Figure 11. Construction Zone and Fenced Area at Northeast Corner of Survey Area

Figure 12. One of Many "No Trespassing" Signs around the Survey Area

CONCLUSIONS

Identification efforts by Cogstone for this report included a review of existing literature and historic maps, review of a record search conducted at the South Central Coastal Information Center, and pedestrian survey. Native American consultation was conducted by LADPW. No archaeological resources have been previously recorded or were observed during the survey of Tier I and Tier II Project Areas. However, a total of two historic built environment resources and one historic district record all associated with the Olive View Tuberculosis Sanitarium Complex have been recorded with Tier I and Tier Project Areas. Based on the results of the record search and land use history, both Tier I and Tier II Project Areas demonstrate moderate sensitivity for historical archaeological deposits associated with the hospital complex and preexisting farmhouses. Tier I and Tier II Project Areas exhibit a low sensitivity for prehistoric archaeological resources.

None of the archival sources consulted mentioned or showed the existence of a cemetery for Olive View Sanatorium patients. Yet cemeteries, some not well marked, were common features of nineteenth and early twentieth century institutions for the "unwanted", including indigent tuberculosis patients, of which Olive View had many (Molina 2006). There is documentary evidence suggesting that many patients at Olive View were poor and came there with an advanced stage of the disease. Deaths at the facility were noted in contemporary discussions of treatment programs there (Molina 2006: 135-136). Abel (2013: 64) suggests that tuberculosis sanatoriums "attempted to conceal fatalities from patients as well as the public" and documented the large number of terminal stage patients received at Olive View, along with the harsh treatment regimen.

The historic district record for P-19-175294 contains a map of the Olive View medical campus showing a historic period morgue located just north of a parking lot and square-shaped reservoir and east of the modern hospital, along Reagan Road in the eastern third of the medical campus within Tier I (Figure 9). In addition, the same site record and map shows an incinerator located adjacent to the morgue (McAvoy 1994). The district record also shows a coroner's office, located in the western central part of the campus. Modern aerial images (see Figure 3) show that these buildings have all been demolished and that the eastern end of the campus surrounding the former morgue has been altered via the construction of a parking lot, support facilities, and a concrete drainage channel. We do not know whether patients who died were cremated at Olive View Sanatorium, buried in an informal "potter's field" on the sanatorium grounds, or elsewhere. The incinerator, alternatively, may have been used to destroy contaminated medical materials and clothing. An undocumented cemetery and/or a historic period dump may exist on the grounds of the Olive View-UCLA Medical Center. The most likely location for these would be the formerly isolated eastern third of the campus within Tier I.

RECOMMENDATIONS

In the event of an unanticipated discovery, all work must be suspended within 50 feet of the find until it is evaluated by a qualified archaeologist. If prehistoric cultural resources are discovered, all consulting tribes will be notified. We recommend that construction personal will be required to participate in cultural sensitivity training prior to the commencement of work.

Procedures of conduct following the discovery of human remains have been mandated by Health and Safety Code §7050.5, PRC §5097.98 and the California Code of Regulations (CCR) §15064.5(e). According to the provisions in CEQA, should human remains be encountered, all work in the immediate vicinity of the burial must cease, and any necessary steps to ensure the integrity of the immediate area must be taken. The remains shall be left in place and free from disturbance until a final decision as to the treatment and their disposition has been made. The County Coroner will be immediately notified. The Coroner must then determine whether the remains are Native American, historic or modern.

If the Coroner determines the remains are Native American, the Coroner has 24 hours to notify the Native American Heritage Commission (NAHC), who will, in turn, notify the person they identify as the most likely descendent (MLD) of any human remains. Further actions will be determined, in part, by the desires of the MLD. The MLD has 48 hours to make recommendations regarding the disposition of the remains following notification from the NAHC of the discovery. If the MLD does not make recommendations within 48 hours, the owner shall, with appropriate dignity, reinter the remains in an area of the property secure from further disturbance. Alternatively, if the owner does not accept the MLD's recommendations, the owner or the descendent may request mediation by the NAHC.

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2016b Certified Sanborn® Map Report, Olive View-UCLA Med Center, Inquiry Number 4518850.3. EDR, Shelton, Connecticut.
2016c The EDR-City Directory Abstract, Olive View-UCLA Med Center, Inquiry Number 4518850.5. EDR, Shelton, Connecticut.

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APPENDIX A: QUALIFICATIONS

cogstone
PALEONTOLOGY - ARCHAEOLOGY - HISTORY

MOLLY VALASIK
Principal Investigator for Archaeology

EDUCATION

2009	M.A., Anthropology, Kent State University, Kent, Ohio
2006	B.A., Anthropology, Ohio State University, Columbus, Ohio

SUMMARY QUALIFICATIONS

Ms. Valasik is a Registered Professional Archaeologist (RPA) with seven years of professional and academic archaeological field and research experience. She meets the qualifications required by the Secretary of the Interior's *Standards for Archaeology*, and is a skilled professional who is well-versed in the compliance procedures of CEQA and Section 106 of the NHPA and in working with a variety of federal, state, and local agencies throughout California. Ms. Valasik has managed a variety of projects at Cogstone in the water, transportation, energy, development and federal sectors. Her role at Cogstone has ranged from GIS Manager, Field Director, Archaeology Supervisor, and beginning in 2014 Principal Investigator for Archaeology.

SELECTED PROJECTS

Park Place Extension and Grade Separation EIR EA, Caltrans District 7, El Segundo, Los Angeles County, CA. Managed a pedestrian survey to record and evaluate cultural resources within the archaeological and architectural APEs for a ~0.5-mile project along NBSF and UPRR rail lines and spur tracks on behalf of the City of El Segundo. Cogstone's services included records search, NAHC consultation, Historic Properties Survey Report (HPSR) with appended Archaeological Survey Report (ASR) and a Historic Resources Evaluation Report (HRER). Seven built-environment resources were identified, evaluated, and DPR 523 forms were prepared. Sub to Michael Baker. Principal Investigator. 2015-ongoing

SR-138 Palmdale Boulevard PA/ED (Sierra Highway), Caltrans District 7, Palmdale, Los Angeles County, CA. Managed cultural resource assessment including records search, Sacred Lands search, NAHC consultation, field survey, mapping. Prepared an Archaeological Survey Report (ASR) and Historic Property Survey Report (HPSR) to Caltrans standards for PA/ED environmental documents. Sub to Parsons. Task Manager/Principal Investigator. 2015-ongoing

Arlington Avenue Widening Project, Caltrans District 8, Riverside, Riverside County, CA. Cogstone completed the record search, sacred lands search, NAHC consultation, intensive-level pedestrian archaeological survey, and coordination and approval by District 8 of the APE map for the widening of Arlington Avenue. Prepared a Historic Property Survey Report (HPSR) and Archaeological Survey Report (ASR). Sub to Michael Baker. Principal Investigator. 2015

Rose Creek Bike Trail, Caltrans District 11, San Diego, San Diego County, CA. Cogstone completed the record search, sacred lands search, NAHC consultation, intensive-level pedestrian archaeological survey, in-depth background research, and approval by District 11 of the APE map for a two mile long bike trail. Prepared a Historic Property Survey Report (HPSR) and Archaeological Survey Report (ASR). Sub to Nasland Engineering. Principal Investigator. 2015

I-5 Jeffrey Open Space Trail (JOST) Segments 1 & 2, Caltrans District 12, Irvine, Orange County, CA. For the construction of a recreational trail and bridge, coordinated record search, Sacred Lands search, NAHC consultation; preparation of Area of Potential Effects (APE) maps for archaeological and architectural resources with RBF and Caltrans; intensive pedestrian survey and mapping; preparation of ASR, HPSR, PIR technical reports on behalf of the City of Irvine in compliance with CEQA. Sub to Michael Baker. Task Manager/ Principal Archaeologist. 2015-ongoing

cogstone
PALEONTOLOGY - ARCHAEOLOGY - HISTORY

JUSTIN LEV-TOV
Project Manager and Principal Investigator

EDUCATION

2000	Ph.D., Anthropology, University of Tennessee, Knoxville
1994	M.A., Anthropology, University of Tennessee, Knoxville
1990	B.A., Anthropology, University of Maryland, College Park

SUMMARY QUALIFICATIONS

Dr. Lev-Tov is a Qualified Principal Investigator and Registered Professional Archaeologist with over 7 years of experience in California and neighboring states. In addition, he has over 10 years of experience in the eastern and southeastern U.S., and has participated in archaeological projects in Greece, Israel, and Jordan. He is accepted as a principal investigator for prehistoric and historical archaeology by the California Historic Resources Information System (chris.org). He has conducted technical studies and prepared cultural resources chapters for CEQA/EIR compliance documents for public and commercial developments. He has expertise in the archaeology of the western and southeastern United States including research, survey, assessment of impacts/effects, and significance criteria and determinations. He also possesses 30 years of experience in faunal analysis and is widely published.

CALIFORNIA AND SOUTHWEST PROJECTS

High Desert Corridor/ SR-138 Widening Project, Caltrans District 7 On-Call (07A3145)/LA Metro, Los Angeles and San Bernardino Counties, CA. This project proposed by Caltrans and Metro involves construction of a new, approximately 63-mile long, east-west freeway/expressway and rail line between SR-14 in Los Angeles County and SR-18 in San Bernardino County. Phase II/III testing and data recovery at the three sites that will be directly impacted by the project. Analyzed lithic material. Compliance with Section 106 of the NHPA and CEQA are required. Sub to Parsons Transportation Group. Principal Archaeologist. 2015-ongoing

Property One, LLC, Demolition, Redlands. Monitored the demolition of three non-historic buildings and several pavements/foundations of previously demolished buildings located within Redlands' Santa Fe Depot/Chinatown National Register Historic District. Directed mechanical trenching on several of the parcels to check for buried remnants of historic buildings. Analyzed recovered artifacts and applied both the National Register of Historic Places and California Register of Historical Resources criteria of significance to resources discovered within the project area. Authored the letter report of findings sent to the client. Project Director. 2015

U.S. Navy Southwest Facilities and Engineering. Contract to conduct cultural resources investigations on all U.S. Navy Southwest region bases, for a period of five years beginning in Fiscal Year 2015. Participated in the project as author of background chapters on historic and prehistoric contexts of various naval and marine bases, drafted field safety plans for each military base, and analyzed faunal remains, including shell beads, from Naval Weapons Station Seal Beach and Naval Weapons Station Seal Beach Detachment Fallbrook. Senior Faunal Analyst/Project Director. 2015

Blythe Solar, Blythe. An approximately 5,000-acre survey for a solar photovoltaic electrical array on BLM and private lands. Participated briefly as a crew member on the Phase I cultural resources survey. Project Director. 2014

Line 235, Sempra Energy, Inc., Barstow. Survey for a natural gas pipeline replacement route between Daggett and Barstow. Participated in the Phase I cultural resources survey on BLM lands as a crew member, then led a crew recording newly discovered or previously recorded sites in the right of way. Researched historical background for historic period sites and authored DPR forms for all sites. Project Director. 2014

ANDRE-JUSTIN C. SIMMONS
Archaeologist and Cross-trained Paleontologist/GIS Supervisor

EDUCATION

2014 M.A., Anthropology: Specializing in Anthropological Archaeology, California State University, Fullerton
2012 Certificate in Geographic Information Systems, California State University, Fullerton
2010 B.A., Anthropology and History, California State University, Fullerton, graduated *cum laude*

SUMMARY QUALIFICATIONS

Mr. Simmons is a Registered Professional Archaeologist (RPA) and cross-trained paleontologist with extensive field experience in survey, monitoring, faunal analysis, laboratory analysis, and excavation. He exceeds the qualifications required by the Secretary of the Interior's *Standards and Guidelines for Archaeology and Historic Preservation*. Further, he is certified in Geographic Information Systems (GIS) and specializes in ESRI's ArcGIS software. Mr. Simmons is responsible for supervising GIS data collection and management and supervises production of GIS maps. Mr. Simmons is well versed in CEQA and NHPA Section 106 compliance procedures and reporting. He has over six years of experience in California Archaeology and paleontological monitoring along with more than 24 hours of paleontology training and over four years of GIS experience.

SELECTED PROJECTS

Bodie Hills FY14-15 Cultural Resources Survey, Desert Restoration Project, Bureau of Land Management, Bishop Field Office, Mono County, CA. Class III Cultural Resources Inventory survey of 2,721 acres of BLM land identified for vegetation management. Work includes records search, intensive pedestrian survey, archaeological resource inventory and NRHP site evaluations, and a technical report. The survey area is located between the Town of Bridgeport and Lee Vining. GIS Specialist. 2014-2015

WECC Path 42, Southern California Edison, Riverside County, CA. Conducted a cultural resources records search and field survey (2011-2012); monitoring and compliance reporting (2014) for a 14.5 mile transmission line segment near Thousand Palms. Archaeological/ Paleontological Technician/ GIS Specialist.

High Desert Corridor/ SR 138 Widening Project, FHWA/Caltrans District 7, Los Angeles and San Bernardino Counties, CA. Records search, pedestrian survey, GIS mapping and site recording for Extended Phase I (XPI) Testing, subsurface testing of four archaeological sites in the Area of Potential Effects (APE). Sub to Parsons. Archaeologist/GIS Supervisor. 2014-2015

Exposition Light Rail Phase 2, Culver City to Santa Monica, Los Angeles County, CA. Conducted monitoring, site recording and GIS mapping along a 6.6-mile segment of the historic electric easement that is being replaced with a new light rail line. Sub to URS. Archaeological/Paleontological Monitor. 2012-2014

OC-44 Pipeline Rehabilitation/Replacement, Mesa Water District, Newport Beach, Orange County, CA. Conducted a Phase I Cultural Resources Assessment to determine the potential for adverse effects to historic properties during rehabilitation and replacement of the pipeline beneath San Diego Creek, between Jamboree Road and MacArthur Blvd. Records search, Sacred Lands search, NAHC consultation, intensive-level pedestrian survey and GIS mapping of the ~15.75 APE with negative results. Sub to Michael Baker/RBF Consulting. Archaeologist/GIS Technician. 2014

Blossom Plaza Mixed-Use Development, Forest City Development, Los Angeles, Los Angeles County, CA. The project involves development of 360,071 sf of residential and commercial space, intermodal parking, and a cultural plaza adjacent to the Chinatown Gold Line Metro station. Tasks included records search, archaeological resources monitoring and artifact recovery of construction excavation on block containing portions of the Zanja Madre, historic Chinese businesses and residences and a 19th Century hotel. GIS mapping, field data recording and artifact mapping. GIS Technician. 2014

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PALEONTOLOGY - ARCHAEOLOGY - HISTORY

SARAH NAVA
Archaeologist/Cross-Trained Paleontologist
and GIS Technician

EDUCATION

2013	Archaeology Field Program, Pimu Catalina Island Archaeology Project, California State University, Northridge, RPA Scholarship Recipient
2013	GIS Certification Program, Southwestern Community College
2008	B.A., Anthropology, California State University, Long Beach

SUMMARY QUALIFICATIONS

Ms. Nava is a dual-qualified archaeologist/paleontologist with six years of cultural resource management experience. As a field technician, crew chief, and geospatial technician, she has conducted monitoring, survey, site recording, and excavation. Her laboratory activities include artifact sorting, data entry, and generating site location maps. She specializes in using geographical information systems in cultural resource management and archaeology. She uses data collected in the field to analyze through GIS and software technologies. She has completed over 120 hours of cultural resource management workshops. She has presented research data and conclusions at professional conferences. Her professional memberships include the Society for American Archaeology and Society for California Archaeology.

SELECTED PROJECTS

Caltrans District 6, On-Call Paleontology (06A1786), Merced, Madera, Tulare, Kings, and Kern Counties, CA. Contributor to User Guide Book for the Fossil Sensitivity Inventory Link (FOSIL) Geospatial Database, responsible for producing a GIS training guide Sub to Parsons. Geospatial Technician. 2014

Caltrans District 6, On-Call Paleontology (06A1320), Merced, Madera, Tulare, Kings, and Kern Counties, CA. SR 99 Arboleda Drive Interchange widening: sorted and documented collection of 1,667 late Pleistocene fossils, including a mammoth, recovered from 128 localities. SR 41 Kettleman City widening: conducted paleontological monitoring during construction. Assisted with preparation and identification of the 800 vertebrate, invertebrate and plant fossils recovered during paleontological monitoring for the widening and rehabilitation of an 8.5 mile segment of the highway. Sub to URS Corporation. Paleontology Monitor/Laboratory Technician. 2013

Exposition Light Rail Phase 2, Exposition Transit Authority, Los Angeles County Metropolitan Transportation Authority, Culver City to Santa Monica, Los Angeles County, CA. Conducted archaeological/paleontological monitoring during construction of multiple stations, tracks and utility relocations. Field Technician. Sub to URS. 2013

Perris Valley Line Project, Metrolink, Riverside County Transportation Commission, Riverside County, CA. The project involved a 24-mile extension of the Metrolink 91 Line extending the connection from Riverside through Moreno Valley to Perris. Provided paleontological monitoring for construction of four new stations, upgrading associated track and utility relocations. Sub to HDR Engineering. 2013

Metropole Vault Replacements, Southern California Edison, Avalon, Catalina Island, Los Angeles County, CA. Conducted archaeological monitoring and coordinated with Native American monitors during ground disturbing activities of a 30,000 s.f. APE that resulted in an excavation. The site is located in proximity to the original Tongva tribal village on the island. Archaeological Field Technician. 2014

Fort Irwin National Training Center, San Bernardino, CA. Cultural Resources Inventory Survey of 14,316 Acres and National Register Evaluation of Archaeology Sites. Archaeological Field Technician. 2013

NAVFAC Atlantic Division, Naval Air Weapons Station China Lake, Kern County, CA. Section 110 Intensive Archaeological Inventory on Ranges. Conduct Section 110 archaeological inventory and site recording; Primary Client: Cultural Resource Analysts. Crew Chief. 2015

cogstone
PALEONTOLOGY - ARCHAEOLOGY - HISTORY

ALYSON CAINE
Osteologist and Archeologist

EDUCATION

2013 M.Sc., Palaeopathology, Archaeology, Durham University, Durham, United Kingdom
2012 B.A., Anthropology (Human Biology Track), Sociology Minor, Temple University, Philadelphia, Pennsylvania

SUMMARY QUALIFICATIONS

Ms. Caine is a qualified osteologist and archaeologist, with five years of professional and academic training in prehistoric bioarchaeology and osteology. She has experience with analysis, identification of human skeletal remains, survey, and monitoring. She has excavated and analyzed prehistoric human remains on Bronze Age sites in Oman and the UAE as well as experience working on projects in California. Ms. Caine belongs to professional societies including Society for American Archaeologists, American Association of Physical Anthropologists, and Paleopathology Association. Her research interests focus on Bioarchaeology, Forensic Anthropology, Skeletal and Dental Biology, Near East Studies (Bronze and Iron Age), Paleopathology, Isotopic Analysis, and Migration Studies.

SELECTED PROJECTS

Metropole Vault Replacements, Southern California Edison, Avalon, Catalina Island, Los Angeles County, CA. Archaeological monitoring during ground disturbing activities of a 30,000 s.f. APE for replacement of two underground electrical vaults. The site is located in proximity to the original Tongva tribal village on the island. Coordinated with the Most-Likely Descendant (MLD) and Native American monitor during the excavation of unanticipated discovery of human remains. Cogstone was responsible for the collections management of all artifacts and human remains during excavation. Wrote the report summarizing the osteological analysis and cataloguing. Osteologist and Report Author. 2015

Bodie Hills FY14-15 Cultural Resources Survey, Desert Restoration Project, Bureau of Land Management, Bishop Field Office, Mono County, CA. Class III Cultural Resources Inventory survey of 2,721 acres of BLM land identified for vegetation management. Work includes records search, intensive pedestrian survey, archaeological resource inventory and NRHP site evaluations, and a technical report. Prepared site records and revisions and lab work for final report. The survey area is located between the Town of Bridgeport and Lee Vining. Archaeology Technician. 2015

Fort Irwin, U.S. Army National Training Center/GSA Region 9, San Bernardino County, CA. Class III Cultural Resources Inventory Survey of 9,309 acres and National Register Evaluation of Archaeology Sites. Conducted cultural and paleontological survey, site recording and site evalution to Section 106 standards. The contract also involves biological surveys of the area which will be conducted by Louis Berger Group in Spring
2015. Archaeology Technician. 2014-ongoing

FBI Sonnet Ring, MCB Quantico, Prince William County, VA. Joint project with Louis Berger Group. Phase I and Phase II Archaeological Survey of land areas that could be adversely affected by projects proposed in the Marine Corps Base Quantico (MCBQ) Master Plan. Specifically, evaluated impact of construction activities associated with installation of a fiber optic line including surveys and National Register eligibility evaluations. Organized lab material and created illustrations for report. Archaeology Technician. 2015

High Desert Corridor/ SR 138 Widening Project, FHWA/Caltrans District 7, Los Angeles and San Bernardino Counties, CA. The project involves construction of a new, approximately 63-mile long, east-west freeway/expressway between SR 14 in Los Angeles County and SR 18 in San Bernardino County. Cogstone conducted a field pedestrian survey for Extended Phase I (XPI) Testing, subsurface testing of four archaeological sites in the Area of Potential Effects (APE), and lab work. Conducted archaeological excavation to identify cultural materials. Caltrans is the lead federal and state agency; compliance with Section 106 and CEQA required. Sub to Parsons Transportation Group. Archaeology Technician. 2015

APPENDIX B: PREVIOUSLY RECORDED CULTURAL STUDIES

Previous Cultural Resources Studies within a One-Mile Radius of the Project Area

Report No. LA-	Title	Year	Distance from Project
620	Cultural Resource Survey of Tentative Tract No. 38876, Sylmar, Calif.	1979	1 mile
622	Cultural Resource Survey and Impact Assessment for Tentative Tract No. 35525 in Sylmar, Los Angeles County, Calif.	1979	1 mile
710	Cultural Resource Survey and Impact Assessment for Tract No. 29707 in the Community of Sylmar, City and County of Los Angeles, California (EIR No. 39-80-cuz, Lot at 14042 Astoria Street)	1980	1 mile
824	Letter of Tentative Tract 39052	1980	1 mile
1073	Cultural Resources Survey and Impact Assessment for Tentative Tract 42400 in the City of Los Angeles	1981	.25 mile
1362	Archaeological Reconnaissance Report: Los Pinetos Grazing Allotment ARR.	1978	1 mile
1378	An Archaeological Survey and Impact Assessment of Tt 36453, a Parcel at 14363 Bledsoe Street, Sylmar, Los Angeles	1984	.25 mile
1692	Archaeological Reconnaissance Report: Divide Fire Rehab	1988	.25 mile
1746	Cultural Resource Survey and Impact Assessment for the City of Los Angeles Department of Water and Power Proposed Maclay Water Storage Tanks, Los Angeles, California	1989	1 mile
2317	A Class I Cultural Resources Investigation for the Proposed Elsmere Canyon Solid Waste Management Facility, Newhall, Los Angeles County, California	1991	1 mile
2517	A Phase 1 Archaeological Study for Eight Areas Proposed for the New Los Angeles Police Training Academy, and Driver Training Facility, City of Los Angeles County, California	1991	In PA
2683	Draft Environmental Impact Report for the Police Bond Program Police Driver Training Facility	1992	In PA
3806	Assessment of the Archaeological Impact of the Proposed Development of Tentative Tract No. 26179 City of Los Angeles	1976	.25 mile
4361	Cultural Resource Inventory West End Fuels Management Project, Tujunga Ranger District, Angeles National Forest, Los Angeles County, California	1993	1 mile
4658	Archaeological Monitoring Report for Tentative Tract 52473 Located at 13775 Glenoaks Boulevard, Sylmar, Los Angeles County, California	1999	1 mile
5176	A Cultural Resources Site Survey of Herrick Avenue From Monte Street to Olden Street, Sylmar, California	1997	1 mile
5541	Cultural Resource Assessment: Cingular Wireless Facility No. Vy 098-01 Los Angeles County, California	2001	.25 mile
5926	Cultural Resources Assessment AT&T Wireless Services Facility No. 14012 Los Angeles County, California	2002	1 mile

Report No. LA-	Title	Year	Distance from Project
7894	Archaeological Resources Assessment for the Proposed Olive View Medical Center Emergency Services Expansion, City of Los Angeles, California	2006	In PA
9137	Archaeological Resources Assessment For The Proposed Olive View Medical Center Emergency Services Expansion City of Los Angeles, California	2006	In PA
9191	Cultural Resources Records Search and Site Visit Results for T-Mobile Candidate SV11413A (MacLay Tanks), 13601 West Astoria Street, Sylmar, Los Angeles County, California	2007	1 mile
9990	Sayre Fire: Emergency Fire Damaged Pole Replacements, Gavin 16Kv Distribution Circuit, Los Angeles County, CA	2009	1 mile
10263	Cultural Resource Records Search and Site Visit Results for Clearwire Candidate CA- LOS0048B (RMA TAX), 14110 Polk Street, Sylmar, Los Angeles County, California	2009	1 mile
10756	A Cultural Resources Overview and Preliminary Assessment of the Pacoima/Panorama City Redevelopment Plan Amendment/Expansion Project Area, Los Angeles County, California	2010	1 mile
11379	Verizon Wireless - Olive View- 10370 - Trileaf Project #315884 13665 Polk Street, Sylmar, California 91342 Los Angeles County, San Fernando Quadrangle (Delorme)	2011	1 mile
11896	Archaeological Survey Report Olive View Medical Center Replacement Construction Sylmar, Los Angeles County	2012	In PA
11962	Seismically Retrofit the existing Physical Education Building at the Olive Vista Middle School in Sylmar, CA	2012	1 mile

APPENDIX C: NATIVE AMERICAN CONSULTATION

Local Government Tribal Consultation List Request

Native American Heritage Commission
1550 Harbor Blvd, Suite 100
West Sacramento, CA 95691
916-373-3710
916-373-5471 – Fax
nahc@nahc.ca.gov

Type of List Requested

☒ **CEQA Tribal Consultation List (AB 52)** – *Per Public Resources Code § 21080.3.1, subs. (b), (d), (e) and 21080.3.2*

☐ **General Plan (SB 18)** - *Per Government Code § 65352.3.*

Local Action Type:

___ **General Plan** ___ **General Plan Element** ___ **General Plan Amendment**

___ **Specific Plan** ___ **Specific Plan Amendment** ___ **Pre-planning Outreach Activity**

Required Information

Project Title: Olive View - UCLA Medical Center Campus Master Plan

Local Government/Lead Agency: County of Los Angeles

Contact Person: Andrew Moey

Street Address: P.O. Box 1460

City: Alhambra **Zip:** 91802-1460

Phone: 626-300-2333 **Fax:**

Email: AMOEY@dpw.lacounty.gov

Specific Area Subject to Proposed Action

County: Los Angeles **City/Community:** Sylmar

Project Description:
An Environmental Impact Report (EIR) will be prepared for the proposed Olive View - UCLA Medical Center Campus Master Plan Project. The Master Plan will guide future development of the campus and the delivery of health care services and health related community programs. For the purposes of the EIR, two tiers of development will be analyzed. Tier I entails near-term projects constructed before 2035, including an Ambulatory Care Center, research and development buildings, a Community Center, improvements to the existing hospital, appurtenant parking facilities, and other medical center campus improvements that would be located predominantly in the eastern third of the campus. Tier II development would occur beyond 2035, and would include the construction of a new inpatient hospital, support services building, mental health outpatient care facility, long-term care and recuperative housing, retail space, County department buildings, and the renovation and reuse of the existing inpatient hospital for other purposes. Full build-out of the Master Plan could result in a total of approximately 1,382,000 square feet of development throughout the campus.

Additional Request

☒ **Sacred Lands File Search** - ***Required Information:***

USGS Quadrangle Name(s): San Fernando

Township: 3N **Range:** 15W **Section(s):** 21 & 22

STATE OF CALIFORNIA — Edmund G. Brown, Jr., Governor

NATIVE AMERICAN HERITAGE COMMISSION
1550 Harbor Blvd., Suite 100
West Sacramento, CA 95691
(916) 373-3710
(916) 373-5471 FAX

July 5, 2016

Andrew Moey
County of Los Angeles

Sent via e-mail: Amoey@dpw.lacounty.gov
Number of Pages: 3

RE: Proposed Olive View – UCLA Medical Center Campus Master Plan Project, Community of Sylmar; San Fernando USGS Quadrangle, Los Angeles County, California

Dear Mr. Moey:

Attached is a consultation list of tribes with traditional lands or cultural places located within the boundaries of the above referenced counties. Please note that the intent of the reference codes below is to avoid or mitigate impacts to tribal cultural resources, as defined, for California Environmental Quality Act (CEQA) projects under AB-52.

As of July 1, 2015, Public Resources Code Sections 21080.3.1 and 21080.3.2 **require public agencies** to consult with California Native American tribes identified by the Native American Heritage Commission (NAHC) for the purpose mitigating impacts to tribal cultural resources:

> **Within 14 days** of determining that an application for a project is complete or a decision by a public agency to undertake a project, the lead agency shall provide formal notification to the designated contact of, or a tribal representative of, traditionally and culturally affiliated California Native American tribes that have requested notice, which shall be accomplished by means of at least one written notification that includes a brief description of the proposed project and its location, the lead agency contact information, and a notification that the California Native American tribe has 30 days to request consultation pursuant to this section. (Public Resources Code Section 21080.3.1(d))

The law does not preclude agencies from initiating consultation with the tribes that are culturally and traditionally affiliated with their jurisdictions. The NAHC believes that in fact that this is the best practice to ensure that tribes are consulted commensurate with the intent of the law.

In accordance with Public Resources Code Section 21080.3.1(d), formal notification must include a brief description of the proposed project and its location, the lead agency contact information, and a notification that the California Native American tribe has 30 days to request consultation. The NAHC believes that agencies should also include with their notification letters information regarding any cultural resources assessment that has been completed on the APE, such as:

1. The results of any record search that may have been conducted at an Information Center of the California Historical Resources Information System (CHRIS), including, but not limited to:

   - A listing of any and all known cultural resources have already been recorded on or adjacent to the APE;
   - Copies of any and all cultural resource records and study reports that may have been provided by the Information Center as part of the records search response;
   - If the probability is low, moderate, or high that cultural resources are located in the APE.
   - Whether the records search indicates a low, moderate or high probability that unrecorded cultural resources are located in the potential APE; and
   - If a survey is recommended by the Information Center to determine whether previously unrecorded cultural resources are present.

2. The results of any archaeological inventory survey that was conducted, including:

   - Any report that may contain site forms, site significance, and suggested mitigation measurers.

     All information regarding site locations, Native American human remains, and associated funerary objects should be in a separate confidential addendum, and not be made available for pubic disclosure in accordance with Government Code Section 6254.10.

3. The results of any Sacred Lands File (SFL) check conducted through Native American Heritage Commission. A search of the SFL was completed for the USGS quadrangle information provided with negative results.

4. Any ethnographic studies conducted for any area including all or part of the potential APE; and

5. Any geotechnical reports regarding all or part of the potential APE.

Lead agencies should be aware that records maintained by the NAHC and CHRIS is not exhaustive, and a negative response to these searches does not preclude the existence of a cultural place. A tribe may be the only source of information regarding the existence of a tribal cultural resource.

This information will aid tribes in determining whether to request formal consultation. In the case that they do, having the information beforehand well help to facilitate the consultation process.

If you receive notification of change of addresses and phone numbers from tribes, please notify me. With your assistance we are able to assure that our consultation list contains current information.

If you have any questions, please contact me at my email address: gayle.totton@nahc.ca.gov.

Sincerely,

Gayle Totton, M.A., PhD.
Associate Governmental Program Analyst

Native American Heritage Commission
Tribal Consultation List
Los Angeles County
June 30, 2016

Santa Ynez Band of Mission Indians
Kenneth Kahn, Chairperson
P.O. Box 517 Chumash
Santa Ynez , CA 93460
kkahn@santaynezchumash.org
(805) 688-7997
(805) 686-9578 Fax

Gabrielino Tongva Indians of California Tribal Council
Robert F. Dorame, Tribal Chair/Cultural Resources
P.O. Box 490 Gabrielino Tongva
Bellflower , CA 90707
gtongva@verizon.net
(562) 761-6417 Voice/Fax

Fernandeno Tataviam Band of Mission Indians
Rudy Ortega Jr., President
1019 2nd Street Fernandeno
San Fernando , CA 91340 Tataviam
(818) 837-0794 Office

Gabrielino-Tongva Tribe
Linda Candelaria, Co-Chairperson
1999 Avenue of the Stars, Suite 1100
Los Angeles , CA 90067
Gabrielino
(626) 676-1184 Cell

Barbareno/Ventureno Band of Mission Indians
Julie Lynn Tumamait-Stennslie, Chair
365 North Poli Ave Chumash
Ojai , CA 93023
jtumamait@hotmail.com
(805) 646-6214

Soboba Band of Luiseno Indians
Joseph Ontiveros, Cultural Resource Department
P.O. BOX 487 Luiseno
San Jacinto , CA 92581 Cahuilla
jontiveros@soboba-nsn.gov
(951) 663-5279
(951) 654-5544, ext 4137

Gabrieleno/Tongva San Gabriel Band of Mission Indians
Anthony Morales, Chairperson
P.O. Box 693 Gabrielino Tongva
San Gabriel , CA 91778
GTTribalcouncil@aol.com
(626) 483-3564 Cell

Gabrieleno Band of Mission Indians - Kizh Nation
Andrew Salas, Chairperson
P.O. Box 393
Covina , CA 91723
gabrielenoindians@yahoo.com Gabrielino
(626) 926-4131

Gabrielino /Tongva Nation
Sandonne Goad, Chairperson
106 1/2 Judge John Aiso St., #231 Gabrielino Tongva
Los Angeles , CA 90012
sgoad@gabrielino-tongva.com
(951) 807-0479

This list is current only as of the date of this document and is based on the information available to the Commission on the date it was produced. Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resources Code and Section 5097.98 of the Public Resources Code.

This list applicable only for consultation with Native American tribes under Public Resources Code Sections 21080.3.1 for the proposed Olive View - UCLA Medical Center Campus Master Plan Project, Community of Sylmar; San Fernando USGS Quadrangle, Los Angeles County, California.

COUNTY OF LOS ANGELES
DEPARTMENT OF PUBLIC WORKS
"To Enrich Lives Through Effective and Caring Service"

GAIL FARBER, Director

900 SOUTH FREMONT AVENUE
ALHAMBRA, CALIFORNIA 91803-1331
Telephone: (626) 458-5100
http://dpw.lacounty.gov

ADDRESS ALL CORRESPONDENCE TO:
P.O. BOX 1460
ALHAMBRA, CALIFORNIA 91802-1460

IN REPLY PLEASE
REFER TO FILE: PJ-2

April 11, 2016

Ms. Caitlin B. Gulley
Tribal Historic and Cultural Preservation Officer
Fernandeño Tataviam Band of Mission Indians
1019 Second Street
San Fernando, CA 91340

Dear Ms. Gulley:

COUNTY OF LOS ANGELES ASSEMBLY BILL 52
FORMAL NOTIFICATION OF DEADLINE
REQUEST CONSULTATION ON TRIBAL CULTURAL RESOURCES
FOR OLIVE VIEW-UCLA MEDICAL CENTER CAMPUS MASTER PLAN

Public Works is contacting you in compliance with California Assembly Bill (AB) 52 (including California Public Resources Code Section 21080.3.1) because you are listed as the tribal contact person in a tribal request for notice of proposed projects in this geographic area for which the County is the lead agency for compliance with the California Environmental Quality Act. In compliance with formal notification requirements we are issuing the following proposed project notification:

Project Name: Olive View-UCLA Medical Center Campus Master Plan

Proposed Project: The Olive View-UCLA Campus Master Plan (Master Plan) will guide future campus development and health care services. Proposed development over the next 20 years, under the Master Plan, could include a new ambulatory care center, research and development buildings, community center, parking facilities, and improvements to the existing hospital and campus infrastructure. Long-term development (beyond the year 2035), could include a new inpatient hospital, support services building, mental health outpatient care facility, long-term care and recuperative housing, retail space, and renovation and reuse of the existing inpatient hospital for other purposes. Build-out of the Master Plan could result in approximately 1,382,000 square feet of development throughout the campus.

Location: 14445 Olive View Drive, Sylmar, California 91342. The campus is generally bounded by the Angeles National Forest on the north, Olive View Drive on the south, Wilson Canyon Park on the east, and Bucher Avenue to the west.

Ms. Caitlin B. Gulley
April 11, 2016
Page 2

If you wish to begin processing a formal consultation under AB 52, your deadline to request consultation with the County is set by State law (California Public Resources Code Section 21080.3.1(d)) and requires that you send a written request for consultation to the address below within 30 days of the receipt of this notice.

If you do not wish to initiate formal consultation on this proposed project, no response to this notice is needed. If you do not wish to formally consult under AB 52 on this proposed project, you may participate in the California Environmental Quality Act process for this project on any issue of concern as an interested California Native American tribe, person, citizen, or member of the public.

Please send written responses for the proposed project to:

Mr. Andrew K. Moey
County of Los Angeles
Department of Public Works
Project Management Division I
P.O. Box 1460
Alhambra, CA 91802-1460

If you have any questions, please contact me at (626) 300-2333 or amoey@dpw.lacounty.gov.

Very truly yours,

GAIL FARBER
Director of Public Works

ANDREW K. MOEY
Interim Assistant Deputy Director
Programs Development Division

AM:ms
U:\pmd\health\OVUCLA MP\Admin\Corres\Letter\AB52 Notidication docx

cc: Chief Executive Office (Carrie Voong)
County Counsel (Lauren Dods)
Department of Health Services (Carolyn Rhee)
ICF International (Mario Anayo, Brittany Hoedemaker, Lee Lisecki)

Fernandeño Tataviam Band of Mission Indians
Tribal Historic & Cultural Preservation

Rudy Ortega Jr.
Tribal President

Tribal Historic & Cultural Preservation Committee
Steve Ortega
Chairman
Arturo Paredes Jr.
David Ortega

April 21, 2016

County of Los Angeles
Department of Public Works
Project Management Division I
P.O Box 1460
Alhambra, CA 91802-1460

RE: Formal Request for Tribal Consultation Pursuant to the California Environmental Quality Act (CEQA), Public Resources Code section 21080.3.1, subdivision (b), (d) and (e) for Olive View-UCLA Medical Center Campus Master Plan

Dear Mr. Moey,

This letter constitutes a formal request for tribal consultation under the provisions of the California Environmental Quality Act (CEQA) (Public Resources Code section 21080.3.1 subdivisions (b), (d) and (e)) for the mitigation of potential impacts to tribal cultural resources for the above referenced project (Project).

The Fernandeño Tataviam Band of Mission Indians requests that the lead agency forward to the contact below the estimated cubic yards of soil disturbance for the Project. Additional data may be requested from your agency. Please contact Caitlin Gulley with any questions or for additional information:

Caitlin Gulley, Director
Tribal Historic and Cultural Preservation Department
1019 Second St.
San Fernando, CA 91340

Sincerely,

Sedna Villavicencio
Tribal Historic and Cultural Preservation Department

1019 Second Street, Suite 1 | San Fernando | California, 91340 | (818) 837-0794 | Fax (818) 837-0796

COUNTY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS

"To Enrich Lives Through Effective and Caring Service"

900 SOUTH FREMONT AVENUE
ALHAMBRA, CALIFORNIA 91803-1331
Telephone: (626) 458-5100
http://dpw.lacounty.gov

GAIL FARBER, Director

ADDRESS ALL CORRESPONDENCE TO:
P.O. BOX 1460
ALHAMBRA, CALIFORNIA 91802-1460

June 9, 2016

IN REPLY PLEASE
REFER TO FILE: PJ-2

Ms. Caitlin B. Gulley
Tribal Historic and Cultural Preservation Department
1019 Second Street
San Fernando, CA 91340

Dear Ms. Gulley:

SUBJECT: REQUEST FOR CONSULTATION PURSUANT TO ASSEMBLY BILL 52 (AB 52) FOR PROPOSED OLIVE VIEW-UCLA MEDICAL CENTER CAMPUS MASTER PLAN PROJECT

Thank you for responding to our recent letter regarding the Olive View-UCLA Medical Center Campus Master Plan (proposed Project). The proposed Project is located at 14445 Olive View Drive, Sylmar, California (see enclosed Figures 1 and 2). An Environmental Impact Report (EIR) will be prepared by the lead agency, the County of Los Angeles (COUNTY), for the proposed Project in compliance with the California Environmental Quality Act (CEQA).

We understand that the Fernandeño Tataviam Band of Mission Indians is formally requesting consultation with the County of Los Angeles under the provisions of AB 52 which is found at 21080.3.1 of the Public Resources Code and related sections for the mitigation of potential impacts to tribal cultural resources for the proposed Project.

In your letter, you requested an estimation of cubic yards of soil disturbance for the proposed Project. Please be aware that development under the Master Plan would proceed sequentially and occur over a number of years. Buildout of the campus, which is expected to occur sometime after the year 2035, could result in approximately 251,000 cubic yards of cut work and 70,000 cubic yards of fill to construct new campus buildings and structures. Additional earth disturbance for the proposed landscaping improvements on campus is currently anticipated to be shallow and proportionately insignificant.

The EIR for the proposed Project will analyze the impacts to the environment due to the proposed development and related campus improvements that could occur under the Master Plan. For the purposes of the analysis in the EIR, proposed Master Plan

development is described as occurring in two phases or tiers. Tier I would include near-term projects, such as a proposed new ambulatory care center and an administration building, as well as other development that could occur over the next 20 years (up to the year 2035). Tier I development would occur primarily within the eastern third of the campus in the vicinity of the existing hospital building and could total approximately 619,500 square feet of new buildings and facilities. Tier II would include proposed development beyond the year 2035. The impacts of Tier I development will be quantified to the extent possible in the EIR. Since Tier II development would occur much further in the future, the EIR will include a qualitative discussion of potential Tier II impacts.

I would also like to take this opportunity to provide you with the preliminary results of the cultural resources records search and survey conducted on behalf of the County by Cogstone Resource Management. A search for cultural resources was completed at the South Central Coastal Information Center of the California Historical Resources Inventory System by Ms. Alyson Caine, on January 28, 2016. The search included a 1-mile radius around the approximately 138.6 acre proposed Project area. No archaeological sites have been previously recorded within the proposed Project area or within the 1-mile radius. However, multiple built environment resources associated with the Historic Olive View Tuberculosis Sanatorium have been recorded within the proposed Project area (P-19-3794, P-19-18700, and P-19-1745294). In addition, two California Historical Landmarks, the Angeles National Forest and San Fernando Pioneer Memorial Cemetery, are located within a 1-mile radius.

An intensive-level pedestrian survey of the proposed Project area was conducted on February 15, 2016, by Archeologist and Paleontologist, Ms. Sarah Nava. The survey consisted of walking parallel 10-meter wide transects in open areas while closely inspecting the ground surface. Existing disturbances (e.g., rodent burrows, and ditches) were examined for artifacts or buried cultural deposits. No archaeological resources were identified within the proposed Project area.

Through the AB 52 consultation process, the County will gain information to determine if the proposed Project may cause a substantial adverse change to a tribal cultural resource and if so, consider feasible measures to avoid or minimize significant adverse impacts. As defined in the statute (Public Resource Code Section 20174), tribal cultural resources are sites, features, places, a cultural landscape, sacred places or objects, which are of cultural value to the Tribe and are either eligible for the California Historic Register or a local historic register, or identified as a tribal cultural resource at the County of Los Angeles' discretion. Please assist us by specifically identifying tribal cultural resources within the proposed Project boundaries. AB 52 contains provision for

information provided by a California Native American tribe through the consultation process to be maintained confidential. Please provide any available information known to the Fernandeno Tatavium Band of Mission Indians about the proposed Project area, as well as any comments, issues and/or concerns relating to the potential for impacts to tribal cultural resources at the proposed Project site. I would appreciate your response by June 9, 2016, to facilitate the consultation process.

Information may be addressed to:

Mr. Andrew K. Moey
County of Los Angeles
Department of Public Works
Project Management Division I
P.O. Box 1460
Alhambra, CA 91802-1460

If you have any questions, please contact me at (626) 300-2333 or amoey@dpw.lacounty.gov.

Very truly yours,

GAIL FARBER
Director of Public Works

ANDREW K. MOEY
Interim Assistant Deputy Director
Project Management Division I

AM:ms
U:\pmdl\health\OVUCLAMP\Admin\Corr\Letter\AB52 Response

Enc.

cc: Chief Executive Office (Carrie Voong)
Department of Health Services (Carolyn Rhee)
ICF International (Mario Anaya, Brittany Hoedemaker, Lee Lisecki)

Fernandeño Tataviam Band of Mission Indians
Tribal Historic & Cultural Preservation

Rudy Ortega Jr.
Tribal President

Tribal Historic & Cultural Preservation Committee
Steve Ortega
Chairman
Arturo Paredes Jr.
David Ortega

July 14, 2016

Andrew Moey
County of Los Angeles
Department of Public Works
P.O Box 1460
Alhambra, CA 91802

RE: Tribal Consultation Pursuant to the California Environmental Quality Act (CEQA), Public Resources Code section 21080.3.1, subdivision (b), (d) and (e) for Olive View-UCLA Medical Center Campus Master Plan Project (Project)

Dear Mr. Moey,

This letter constitutes formal mitigation recommendations from the Fernandeño Tataviam Band of Mission Indians (Tataviam) for the Project. Due to the facts that the Project property is located within the sensitivity zone of 2 villages, Passenga and Achoicominga, contains open space, superficial development and development prior to the current protections of CEQA, Tataviam recommends that the Project implement the language below:

- All ground disturbing activities performed on the Project property shall be monitored by professional Native American monitors.
- The applicant shall retain one professional Native American monitor per excavation team to monitor all ground disturbing activities performed on the Project property.
- The applicant, or their agent, shall enter into an agreement with the Fernandeño Tataviam Band of Mission Indians (Tataviam), as a condition of project approval by the lead agency, in which Tataviam shall be identified to provide the following professional services:
    - Consultation and project support during the project planning stages related to cultural resources and mitigation under the California Environmental Quality Act (CEQA), Public Resources Code section 21080.3.1, subdivision (b), (d) and (e).
    - Professional Native American monitoring procurement
    - Management of Native American monitoring activities and related project oversight

Should the applicant desire a review of alternative mitigation measures by Tataviam, they may request a Consultation Form from the Tribal Historic and Cultural Preservation Department.

1019 Second Street, Suite 1 | San Fernando | California, 91340 | (818) 837-0794 | Fax (818) 837-0796

Sincerely,

Caitlin B. Gulley, Director
Tribal Historic and Cultural Preservation Department
cgulley@tataviam-nsn.us

1019 Second Street, Suite 1 | San Fernando | California, 91340 | (818) 837-0794 | Fax (818) 837-0796

COUNTY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS

"To Enrich Lives Through Effective and Caring Service"

MARK PESTRELLA, Director

900 SOUTH FREMONT AVENUE
ALHAMBRA, CALIFORNIA 91803-1331
Telephone: (626) 458-5100
http://dpw.lacounty.gov

ADDRESS ALL CORRESPONDENCE TO:
P.O. BOX 1460
ALHAMBRA, CALIFORNIA 91802-1460

IN REPLY PLEASE
REFER TO FILE: PJ-2

April 11, 2019

Mr. Jairo Avila
Tribal Historic and Cultural Preservation Officer
Fernandeño Tataviam Band of Mission Indians
1019 Second Street
San Fernando, CA 91340

Dear Mr. Avila:

RE: CONCLUSION OF AB-52 TRIBAL CONSULTATION FOR THE PROPOSED OLIVE VIEW-UCLA MEDICAL CENTER CAMPUS MASTER PLAN IN THE COUNTY OF LOS ANGELES

The County of Los Angeles, through Public Works, (County), has received your email dated February 1, 2019 regarding the proposed Olive View-UCLA Campus Master Plan (Master Plan; Project). The purpose of this letter is respond to your comments regarding the Tribe's proposed mitigation measures and to conclude the consultation process for the proposed Project pursuant to Assembly Bill (AB) 52 and Section 21082.3.2(b)(1) of the California Public Resources Code.

Comment 1: "Will daily ground disturbing activities take place within close proximity of each other so that a single monitor can cover the work or will ground disturbance occur in different areas of the project simultaneously? If there are to be numerous work areas, the THCP Department finds that a sufficient number of archaeological monitors should be present each work day to ensure that simultaneously occurring ground disturbing activities receive thorough levels of monitoring coverage. Should cultural resources be encountered, then MM CR-3 shall be triggered".

Response to Comment 1: As currently planned, the construction schedule for the Tier I ground disturbance activities is unknown. However, the ground disturbing activities for the Restorative Care Facilities will likely occur simultaneously. The County acknowledges that it may not be possible for one archaeological and/or Native American monitor to observe ground disturbing activities at different locations at the same time if they are not in close proximity. As a result, the County has revised MM CR-2 to include the following, "A single monitor shall be assigned to observe two or more simultaneous

ground-disturbing activities that occur less than 50 feet away from each other. Additional monitors shall be assigned if two or more simultaneous ground-disturbing activities occur more than 50 feet away from each other." Similar changes have been made to MM-CR-3 for tribal monitoring.

Comment 2: Once the project is ready to move forward, can you provide us with the name of the contracted qualified archaeological monitor

Response to Comment 2: Within 2 weeks of the start of construction, the County will provide the Tribe with the name of the contracted Cultural Resources firm who will provide the qualified archaeological monitor.

Comment 3: Once the project is ready to move forward, can you provide us a copy of the Cultural Resource Monitoring and Mitigation Plan (CRMMP) for the project.

Response to Comment 3: A Cultural Resource Monitoring and Mitigation Plan (CRMMP) will not be developed for the project. Under Section 21082.3 of the California Public Resources Code, any mitigation measures agreed upon in the AB 52 consultation process will be recommended for inclusion in the County's pending Environmental Impact Report and mitigation monitoring and reporting program which will be recommended to the Los Angeles County Board of Supervisors and shall be fully enforceable upon adoption. MM CR-4 and MM CR-5 outline the steps that will be taken should inadvertent discoveries, tribal cultural resources, and/or human remains be identified during construction.

Revised Mitigation Measures *(Changes in Italics)*

- MM CR-2 Cultural Resources Monitoring: Cultural resources monitoring of ground-disturbing activities within undisturbed native soils shall be conducted by a qualified archaeologist familiar with the types of cultural and tribal cultural resources that could be encountered within the proposed project area. The monitor shall be under the direct supervision of an archaeologist who meets the national standards for archaeology as set by the Secretary of Interior's Standards and Guidelines for Archaeology and Historic Preservation. ground-disturbing activities include but are not limited to: auguring, excavation, geotechnical investigations, vegetation clearing, ground surface leveling, trenching, and conventional mass grading. *A single monitor shall be assigned to observe two or more simultaneous ground-disturbing activities that occur less than 50 feet away from each other. Additional monitors shall be assigned*

if two or more simultaneous ground-disturbing activities occur more than 50 feet away from each other. Monitors shall complete a daily monitoring activity log.

- MM CR-3 Native American Tribal Monitoring: If intact prehistoric cultural resource deposits, as determined by the project archaeologist, and/or tribal cultural resources, in consultation with the Fernandeño Tataviam Band of Mission Indians and the County, are identified during ground-disturbing activities within native soils, Native American tribal monitoring shall be conducted by a Native American monitor from the Fernandeño Tataviam Band of Mission Indians. *A single tribal monitor shall be assigned to observe two or more simultaneous ground-disturbing activities that occur less than 50 feet away from each other. Additional tribal monitors shall be assigned if two or more simultaneous ground-disturbing activities occur more than 50 feet away from each other.* The tribal monitors shall represent the Tribes' interests and shall follow the Native American Heritage Commission's Guidelines for Tribal Monitors, which shall include completion of a Native American monitoring daily activity log.

- MM CR-4 Discovery of Cultural and Tribal Cultural Resources: If cultural resources or tribal cultural resources are encountered during ground-disturbing activities, cultural and tribal monitors are empowered to divert ground-disturbing activities within 50 feet of the discovery until a qualified archaeologist can evaluate whether the resource is a unique archaeological resource or historical resource as defined in Public Resources Code Section 21083.2 and/or 14 C.C.R. Section 15064.5, or, in consultation with the Tribe, a tribal cultural resource as defined in Public Resources Code Section 21074. Work may continue in other areas. Tribal monitors will cooperate with the qualified archaeologist to locate all cultural materials exposed during ground-disturbing activities. All cultural resources recovered will be documented on California Department of Parks and Recreation Series 523 Forms.

- MM CR-5 Treatment of Cultural and Tribal Cultural Resources: If the qualified archaeologist determines that the discovery is a historical resource (as defined in MM CR-4) of an archaeological nature, or, in consultation with the Tribe and the County, a tribal cultural resource, then the mitigation standards of 14 C.C.R 15126.4(b) which specifies that preservation in place shall be the preferred manner of mitigation.

If preservation in place is not feasible, a cultural and/or tribal cultural resources treatment plan shall be prepared pursuant to 14 C.C.R 15126.4(b) and the Secretary of the Interior's Standards and Guidelines for Archaeology and Historic Preservation. The treatment plan shall include (i) provisions for assessment and treatment of the resources identified; (ii) reporting of results in a timely manner; and (iii) the opportunity for the Tribe to engage in the recovery of material and (iv) to provide comments on the draft report. The Tribe shall be afforded the opportunity to review the plan prior to implementation. The plan shall be submitted to the Los Angeles County Department of Public Works prior to the treatment of the historical resource, unique archaeological resource, or tribal cultural resource.

A preliminary draft monitoring compliance report shall be submitted within three months of the end of project construction activity. The report shall be prepared by a qualified archaeologist and include documentation and interpretation of resources identified or recovered. Interpretation shall include full evaluation of the eligibility of the resources identified for listing on the California Register of Historical Resources (CRHR). All surface and subsurface artifacts and features shall be mapped and described in the report. The Tribe shall be afforded the opportunity to provide comments for inclusion in the final report. The final report shall be filed at the South Central Coastal Information Center (SCCIC) at California State University, Fullerton. One copy of the final report shall be provided to the Tribe.

Please respond with your concurrence to the proposed mitigation measures, which will end the AB 52 consultation pursuant to Section 21080.3.2(b)(1), within 10 work days to Mr. Andrew Moey, Assistant Deputy Director, to the address below.

County of Los Angeles
Department of Public Works Project Management Division I
P.O. Box 1460
Alhambra, CA 91802-1460

If you have any questions, please contact me at (626) 300-2300 or amoey@dpw.lacounty.gov.

Very truly yours,

MARK PESTRELLA
Director of Public Works

ANDREW K. MOEY
Assistant Deputy Director
Project Management Division I

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cc: Kimia Fatehi, Former Interim Tribal Historic and Cultural Preservation Officer, Fernandeño Tataviam Band of Mission Indians

Appendix F

Geotechnical Evaluation and Paleontological Report

Appendix F1

Geotechnical Evaluation

PRELIMINARY GEOTECHNICAL EVALUATION
OLIVE VIEW – UCLA MEDICAL CENTER MASTER PLAN
LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS
14445 OLIVE VIEW DRIVE
SYLMAR, CALIFORNIA

PREPARED FOR:
ICF International
601 W. Fifth Street, Suite 900
Los Angeles, California 90071

PREPARED BY:
Ninyo & Moore
Geotechnical and Environmental Sciences Consultants
475 Goddard, Suite 200
Irvine, California 92618

March 18, 2016
Project No. 209600002

March 18, 2016
Project No. 209600002

Mr. Lee Lisecki
ICF International
601 W. Fifth Street, Suite 900
Los Angeles, California 90071

Subject: Preliminary Geotechnical Evaluation
Olive View – UCLA Medical Center Master Plan
Los Angeles County Department of Public Works
14445 Olive View Drive
Sylmar, California

Dear Mr. Lisecki:

In accordance with your request and authorization, Ninyo & Moore has performed a preliminary geotechnical evaluation for the Olive View – UCLA Medical Center Master Plan project located at 14445 Olive View Drive in Sylmar, California. Our evaluation was conducted in general accordance with the scope of services presented in our proposal dated February 2, 2015. This report presents our findings and conclusions regarding the subject site. We understand that the results of this evaluation will be utilized in the preparation of an Environmental Impact Report for the project.

We appreciate the opportunity to provide geotechnical consulting services for this project.

Sincerely,
NINYO & MOORE

Michael Rogers, PG, CEG
Senior Geologist

PROFESSIONAL GEOLOGIST
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Distribution: (1) Addressee (via e-mail)

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1. INTRODUCTION

In accordance with your request and authorization, we have performed a preliminary geotechnical evaluation for the Olive View – UCLA Medical Center Master Plan project (project) located at 14445 Olive View Drive in Sylmar, California (Figure 1). This Los Angeles County Department of Public Works (LACDPW) project involves development of a master plan that includes renovation of existing buildings and construction of a new hospital building, administrative building, central utility plant and other structures. We have performed a geotechnical evaluation of the site geologic conditions and the impacts associated with potential geologic and seismic hazards for inclusion in the Environmental Impact Report (EIR) for the project.

The purpose of our evaluation was to assess the geologic conditions at the site and develop preliminary conclusions regarding potential geologic and seismic impacts associated with the project in accordance with the California Environmental Quality Act (CEQA). Where appropriate, recommendations to mitigate potential geologic hazards, as noted in this report, have been provided. Our evaluation was based on review of readily available geologic and seismic data, geotechnical literature and reports, and site reconnaissance. Subsurface exploration was not conducted as part of our evaluation.

The Olive View – UCLA Medical Center site is located in a State of California (1979) Earthquake Fault Zone (EFZ, formerly Alquist-Priolo Special Studies Zone) related to surface ruptures caused by the 1971 San Fernando (Sylmar) Earthquake. Significant damage occurred to the buildings at the site in 1971 due to ground shaking from the San Fernando Earthquake. The potential for surface rupture to occur at the site due to future earthquakes is a potentially significant hazard to existing and planned structures. Fault trenching studies to evaluate the presence and relative activity of faulting at the site have been conducted by other geotechnical consultants. We understand that additional trenching studies will be needed in the future to evaluate buildable zones for the master planning scheme.

2. SCOPE OF SERVICES

Ninyo & Moore's scope of services has included review of geotechnical background materials, geologic reconnaissance of the project area, and geotechnical analysis. Specifically, we have performed the following tasks:

- Review of readily available topographic and geologic maps, published geotechnical literature, geologic and seismic data, groundwater data, and aerial photographs.
- Review of the referenced fault rupture hazard reports provided by ICF International that were obtained from the LACDPW.
- Review of the geotechnical aspects of LACDPW project planning documents, including a description of the master plan elements and brief overview of the fault rupture hazard investigations that have been conducted at the site.
- Geotechnical reconnaissance by a representative from Ninyo & Moore conducted on February 4, 2016, to observe and document the existing surface conditions at the project site.
- Compilation and analysis of existing geotechnical data pertaining to the site.
- Assessment of the general geologic conditions and seismic hazards affecting the area and evaluation of their potential impacts on the project.
- Preparation of this report presenting the results of our study, as well as our conclusions regarding the geologic and seismic impacts on the project, and preliminary recommendations to address the impacts to be included in the EIR.

3. PROJECT DESCRIPTION

Based on our review of the preliminary plans (SmithGroup JJR, 2015), we understand that the proposed project involves the development of a new long-term master plan to guide future medical campus development and delivery of health care services and health-related community programs. Future development under the master plan would include a new ambulatory care center, a replacement central utility plant, renovation of the existing inpatient hospital, outpatient clinics, research and development, education facilities, as well as community/public service areas. The master plan includes eventual replacement of the main hospital building. Other planned improvements include site utilities, hardscape, pavements, landscaping, and low impact development (LID) practices for on-site stormwater management/infiltration.

4. SITE DESCRIPTION

The Olive View – UCLA Medical Center is located north of Interstate 210 and east of Interstate 5 in the Sylmar community of the City of Los Angeles (Figure 1). The medical center campus is situated on the northern edge of the San Fernando Valley at the base of the San Gabriel Mountains (Figures 1 and 2). The campus is approximately 235 acres and is bounded by the Angeles National Forest and the Wilson Debris Basin to the north, Olive View Drive on the south, Wilson Canyon Channel on the east, and Bucher Avenue on the west (Figure 2). The project site is currently improved with an inpatient hospital, outpatient clinics, research/development and education facilities, and community/public service areas. The site is also improved with paved roads and parking areas, landscaped areas, retaining walls, developed pedestrian open space, and undeveloped hillside and canyon areas, unpaved roads and trails.

The project site includes both developed and undeveloped areas. The developed portion of the campus is located in the southern, low-lying portion of the site and west of the Wilson Canyon Channel. The undeveloped portion of the site is located in the elevated northern portion of the site and to the east of the Wilson Canyon Channel. Topography and surface gradients are variable across the site. The topography of the developed portion of the campus slopes gently down toward the west and south, varying from an approximate elevation of 1,500 feet above mean sea level (MSL) near the northeast part of the project area to an approximate elevation of 1,430 feet above MSL along the south part of the project area. The elevations in the hillside areas in the northern portion of the site range from approximately 1,850 feet above MSL to approximately 1,500 feet above MSL.

5. GEOLOGY

5.1. Regional Geology

The project site is located on the northern edge of the San Fernando Valley, a Tertiary-Quaternary period sediment-filled basin within the Transverse Ranges geomorphic province of southern California (Norris and Webb, 1990). Rock units in the province include older Precambrian-era and Jurassic-period metavolcanic, metasedimentary and igneous rocks.

Cretaceous-age marine and non-marine sedimentary and metasedimentary rocks and younger Tertiary-age rocks comprised of volcanic, marine, and non-marine sediments overlie the older rocks (Norris and Webb, 1990). More recent Quaternary sediments, primarily of alluvial origin, comprise the low-lying valley and drainage areas within the region, including the area where the Olive View – UCLA Medical Center Campus project site is located.

The rock formations in the province have been folded and uplifted due to compression and rotation associated with a restraining bend on the San Andreas Fault. The folding and uplifting of the region led to characteristic east-to-west trending structural troughs and mountain ranges. The San Fernando Valley formed as sediment infilled a subsiding basin between the San Gabriel Mountains to the north and the Santa Monica Mountains to the south (Norris and Webb, 1990).

5.2. Site Geology

The medical center is situated on a gently sloping alluvial fan and rock formations at the margin between the northern San Fernando Valley and western end of the San Gabriel Mountains. Regional geologic maps indicate that the upper, elevated northwestern portion of the site is underlain by Tertiary-age Towsley Formation generally comprised of cobble conglomerate and coarse-grained sandstone, and Cretaceous-age metamorphic rocks (Dibblee, 1991). Other elevated hillside areas in the western, northern and eastern portions of the site are mapped as being underlain by Pacoima Formation and older alluvium comprised of weakly consolidated sand and gravel. The lower southern portion of the site, where the existing improvements are located, and the eastern portions of the site at the base of Wilson Canyon are mapped as being underlain by young (Holocene) alluvial deposits generally comprised of gravel, sand and clay sediments. A regional geologic map of the site vicinity is shown on Figure 3.

5.3. Santa Susana (Olive View) Fault

Previous geologic mapping and references indicate the presence of a roughly east-west trending fault (the Olive View Fault) across the northwestern portion of the site (Figure 3).

Although not labeled on the referenced map (Dibblee, 1991) used for Figure 3, the fault has been named as the Olive View fault by others (California Department of Conservation, Division of Mines and Geology [CDMG], 1975; URS, 2010). The United States Geological Survey (USGS) has designated the fault as the eastern extension of the active Santa Susana Fault Zone (USGS, 2014a). This active fault was associated with surface ruptures at the project site caused by the 1971 San Fernando (Sylmar) Earthquake (CDMG, 1975; State of California, 1979).

5.4. Groundwater

The site is located within the San Fernando Valley Groundwater Basin (State of California, 2016). Historic groundwater monitoring well data from the State of California Water Resources Control Board's GeoTracker website (State of California, 2016) were reviewed for our evaluation. Monitoring well data were not available for the medical center site, but were reviewed for commercial properties located in the Sylmar community south of the site. These properties were involved in environmental clean-up activities where monitoring wells were installed and groundwater data from LACDPW wells were utilized. Based on the groundwater information reviewed from the GeoTracker website, groundwater levels from 1993 to 2013 in the Sylmar community approximately 1½ miles south of the project site have ranged from approximately 125 to 200 feet below the ground surface. The historic high groundwater mapped by the California Geological Survey (CGS) near the southern portion of the medical center site is approximately 120 feet deep (CDMG, 1998).

Groundwater levels may be influenced by seasonal variations, precipitation, subsurface stratification, groundwater pumping, irrigation practices, and other factors and are subject to fluctuations. Shallow perched conditions may be present.

6. FAULTING AND SEISMICITY

6.1. Regional Fault Setting

The Olive View-UCLA medical center project site is located in a seismically active area, as is the majority of southern California, and the potential for strong ground motion at the site

is considered significant. Table 1 lists selected principal known active faults within approximately 50 kilometers of the project area and the maximum moment magnitude (M_{max}) as published by the USGS (2008 and 2014a) in general accordance with the Uniform California Earthquake Rupture Forecast, version 3 (UCERF) (Field, et al., 2013). The approximate fault-to-site distances listed in Table 1, measured from the existing hospital building, were calculated using the USGS web-based program (USGS, 2008).

Table 1 – Principal Regional Active Faults

Fault	Approximate Fault-to-Site Distance [1] miles (kilometers)	Maximum Moment Magnitude [1] (M_{max})
Santa Susana [2]	<0.1 (<0.1)	6.9
Northridge Blind Thrust	0.5 (0.8)	6.9
Sierra Madre (San Fernando)	1.7 (2.8)	7.3
San Gabriel	3.2 (5.2)	7.3
Verdugo	4.7 (7.5)	6.9
Holser	8.6 (13.9)	6.8
Simi-Santa Rosa	14.4 (23.2)	6.9
Hollywood	16.2 (26.0)	6.7
Oak Ridge	16.6 (26.8)	7.4
Upper Elysian Park Blind Thrust	17.0 (27.3)	6.7
Santa Monica	17.3 (27.9)	7.4
Raymond	19.0 (30.5)	6.8
San Cayetano	19.6 (31.6)	7.2
Newport-Inglewood (Los Angeles Basin)	19.7 (31.8)	7.5
Malibu Coast	21.0 (33.8)	7.0
Puente Hills Blind Thrust (LA)	21.2 (34.1)	7.0
Anacapa-Dume	21.9 (35.3)	7.2
San Andreas	22.0 (35.3)	8.2
Palos Verdes	25.3 (40.8)	7.7
Clamshell-Sawpit Canyon	27.5 (44.3)	6.7

Notes:
[1] USGS, 2008
[2] USGS, 2014a

The fault-to-site distance web-based calculator for faults in California is not available as part of the 2014 National Seismic Hazard Map database. However, the 2014 National Seismic

Hazard Map itself shows the Santa Susana fault crossing through the northern portion of the site (USGS, 2014a). Accordingly, the Santa Susana fault is considered to be in the immediate vicinity of the campus site and the fault-to-site distance in Table 1 is shown as less than 0.1 mile. The active Santa Susana fault was not mapped as crossing the project site as part of the USGS 2008 National Seismic Hazard Map (USGS, 2008) database, and is shown to be located approximately 2.9 miles west of the site.

The numerous faults in southern California include active, potentially active, and inactive faults. As defined by the CGS, active faults are faults that have ruptured within Holocene time, or within approximately the last 11,000 years. Potentially active faults are those that show evidence of movement during Quaternary time (approximately the last 1.6 million years) but for which evidence of Holocene movement has not been established. Inactive faults have not ruptured in the last approximately 1.6 million years. Figure 4 shows the approximate site location relative to the principal faults in the region based on the Fault Activity Map of California (Jennings, C.W., and Bryant, W.A., 2010).

The active Northridge Blind Thrust Fault (source of the 1994 Northridge Earthquake) is located approximately 0.5 mile southwest of the project site. Blind thrust faults are low-angle faults at depths that do not break the surface and are, therefore, not shown on Figure 4. Although blind thrust faults do not have a surface trace, they can be capable of generating damaging earthquakes and are included in Table 1.

6.2. 1971 San Fernando (Sylmar) Earthquake

The Olive View-UCLA Medical Center site was previously subjected to substantial ground shaking, surface rupture and earthquake-related damages resulting from the 1971 San Fernando Earthquake (also known as the Sylmar Earthquake). The Magnitude 6.5 earthquake included roughly 12 miles of surface rupture in the site vicinity and produced a maximum slip of 6 feet. The approximate locations of faults associated with major surface ruptures that were mapped at the project site are shown on Figure 5. Other surface ruptures and landslides that occurred at the site as a result of the 1971 earthquake are shown on references reviewed for this evaluation (CDMG, 1975). Damage to the medical center site

included the collapse of stair towers adjacent to buildings, the partial collapse of medical buildings, and the collapse of parking structures. Some structures damaged in the earthquake were later demolished (Southern California Earthquake Data Center, 2016).

The extensive urban damages and loss of life that resulted from the 1971 San Fernando Earthquake led to the enactment of the Alquist-Priolo Act, signed into California law on December 22, 1972.

6.3. 1972 Alquist-Priolo Earthquake Fault Zoning Act

As presented in the CDMG, Special Publication 42 (Hart, E.W., and Bryant, W.A., 1997), the 1972 Alquist-Priolo Earthquake Fault Zoning Act (AP Act) requires the State Geologist to delineate EFZs along known active faults in California. The AP Act also requires building setbacks to be established from the trace of an active fault. EFZs must meet the requirements of being "sufficiently active" (evidence of movement within the last approximate 11,000 years) and "well-defined" (detectable by a trained geologist). It is known that faults often rupture along a complex zone that may include the movement of multiple splays/strands rather than of a single strand. The EFZs are intended to be sufficiently wide enough on both sides of a known active fault to include these known or unknown splays/strands of the fault. The purpose of the AP Act was to prohibit the location of most structures for human occupancy across the traces of active faults, thus mitigating the hazard of fault rupture.

The project site is located in a State of California (1979) EFZ related to surface ruptures caused by the 1971 San Fernando (Sylmar) Earthquake. Figure 5 shows the site location relative to the mapped EFZ.

7. METHODOLOGY FOR GEOLOGIC IMPACT AND HAZARD ANALYSES

As outlined by the CEQA, the proposed project has been evaluated with respect to potential geologic and seismic impacts associated with the project. Evaluation of impacts due to potential geologic and seismic hazards is based on our review of readily available published geotechnical literature and geologic and seismic data pertinent to the proposed project, and site reconnaissance. The references and data reviewed include, but are not limited to, the following:

- Geologic maps and fault maps from the CDMG, CGS and USGS.
- Topographic maps from the USGS.
- Seismic data from the CGS and USGS.
- Geotechnical publications by the CDMG, CGS and USGS.
- State of California EFZ Maps (formerly Alquist-Priolo Special Studies Zones Maps).
- State of California Seismic Hazards Zones Reports and Maps.
- Fault rupture studies by URS Corporation (URS) and AMEC Environment & Infrastructure, Inc. (AMEC).
- Aerial photographs.
- Safety Element of the Los Angeles City General Plan.

8. THRESHOLDS OF SIGNIFICANCE

According to Appendix G of the CEQA guidelines (California Environmental Resources Evaluation System [CERES], 2005a, 2005b), a project is considered to have a geologic impact if its implementation would result in or expose people/structures to potential substantial adverse effects, including the risk of loss, injury, or death from hazards involving one or more of the geologic conditions presented in Table 2. Table 2 also presents the impact potential as defined by CEQA associated with each of the geologic conditions discussed in the following sections.

Table 2 – Summary of Potential Geologic Impacts/Hazards

Geologic Condition	Impact Potential[1]			
	Potentially Significant Impact	Less than Significant with Mitigation Incorporation	Less than Significant Impact	No Impact
Earthquake Fault Rupture	x			
Strong Seismic Ground Shaking		x		
Seismically Related Ground Failure, Including Liquefaction		x		
Landslides		x		
Substantial Soil Erosion		x		
Subsidence			x	
Compressible/Collapsible Soils		x		
Expansive Soils		x		
Groundwater and Excavations		x		

Note:
[1]Reference: CERES, 2005, Appendix G – Environmental Checklist Form, Final Text, dated October 26. Website: http://ceres.ca.gov/topic/envlaw/ceqa/guidelines/appendices.html

9. CONCLUSIONS AND RECOMMENDATIONS FOR POTENTIAL GEOLOGIC AND SEISMIC IMPACTS/HAZARDS

Based on our review of geologic and seismic background information, and geotechnical reconnaissance, implementation of the proposed master plan project is not anticipated to have a significant impact on the geologic environment. However, future development at the project site may be subjected to potential impacts from geologic and seismic hazards. Potential impacts on the proposed project based on our preliminary evaluation are provided in the following sections.

The potential geologic and seismic hazards described below may be addressed by employing sound engineering practice in the design and construction of the proposed project elements. This practice includes the implementation of appropriate geotechnical recommendations prior to the design and construction of the facilities at the project site. Typical methods to reduce potential hazards that may be encountered during the construction of improvements are described in the following sections. Where appropriate, recommendations to mitigate potential geologic hazards are provided. Prior to design of the planned improvements, detailed subsurface geotechnical evaluation should be performed to address the site-specific conditions at the locations of the planned improvements and to provide detailed recommendations for design and construction.

9.1. Surface Fault Rupture

Surface fault rupture is the offset or rupturing of the ground surface by relative displacement across a fault during an earthquake. There could be potentially significant impacts associated with siting project improvements across the trace of an active fault. Damage due to fault rupture may include offset/damage to foundations and structural elements. As previously discussed, the medical center site was subjected to surface rupture and damage to structures resulting from the 1971 San Fernando Earthquake. Surface ruptures related to faulting were mapped along the trace of the Olive View fault in the northwestern part of the site. In addition, other ground surface ruptures were mapped at various locations within the project site (CDMG, 1975; State of California, 1979). Due to the surface ruptures along the active Olive View fault (Santa Susana Fault Zone) from the 1971 earthquake, an EFZ was established along the fault. Much of the project site is located within the EFZ (Figure 5).

Fault trenching studies to evaluate the presence and relative activity of faulting at portions of the site have been conducted by other geotechnical consultants on behalf of the LACDPW (URS, 2008; URS, 2010; AMEC, 2013). URS conducted a fault trenching study in 2008 for the proposed Psychiatric Urgent Care Facility in the southern part of the site, and conducted a fault trenching study in 2010 for the proposed Day Care Facility in the southern part of the site. Their studies generally involved performance of subsurface trenches and test pits adjacent to the facilities to explore for the presence of active faulting. URS generally concluded that the trenches exposed older (Pleistocene) alluvium that was not cut by active (Holocene epoch [last 11,000 years]) faulting. Based on their conclusions, URS established a "trench shadow corridor" area for the investigated sites that is free of active faulting and feasible for permitting structures intended for human occupancy in accordance with the provisions of the AP Act.

Based on a figure included in the preliminary project plans (SmithGroup JJR, 2015), AMEC prepared a map in 2013 titled "Preliminary Planning Map for Subsurface Fault Rupture Hazards" as part of the master planning study for the medical center site. The map shows a summary of fault trench locations performed by AMEC and other geotechnical consultants at the site. The map illustrates color-coded areas of the project site where fault trenching has "cleared" areas of active faulting for "potential building sites"; and areas where additional fault trenching can be performed and is "required." The map also illustrates many areas of the site located within the EFZ where fault trenching may not be feasible, including the location of the existing hospital building.

The preliminary project plans indicate that additional fault trenching will be needed in the future to evaluate buildable zones for the master planning scheme (SmithGroup JJR, 2015). Future geologic investigations to evaluate the location and relative activity of potentially active fault splays at the site and the feasibility of locating future site improvements should be conducted by geologic consultants for the LACDPW prior to design of structure locations. The fault investigations should be conducted by a California State Certified Engineering Geologist and should typically involve participation by experts in the field of

paleoseismology, geomorphology and soil stratigraphy. The fault investigations should be reviewed by the CGS. Other methods to explore for the presence of active faulting might include geophysical studies such as high resolution seismic reflection, seismic refraction, ground penetrating radar, and gravity and/or magnetic profiling.

Where the fault investigations find that no active fault splays are present at building sites, proposed structures intended for human occupancy may be feasible for permitting in accordance with the provisions of the AP Act. Where active fault splays are found at the project site, the locations may be deemed not feasible for construction of occupied structures, and appropriate building setback zones will need to be established.

The impacts related to surface rupture at the project site are potentially significant, but can be reduced with methods such as detailed fault investigations to clear sites of active faulting, including review by the CGS, and/or development of structural setback zones.

9.2. Seismic Ground Shaking

Earthquake events from one of the regional active or potentially active faults near the project area could result in strong ground shaking which could affect the project site. The level of ground shaking at a given location depends on many factors, including the size and type of earthquake, distance from the earthquake, and subsurface geologic conditions. The type of construction also affects how particular structures and improvements perform during ground shaking.

The 2013 California Building Code (CBC) recommends that the design of structures be based on spectral response accelerations in the direction of maximum horizontal response (5 percent damped) having a 1 percent probability of collapse in 50 years. Such spectral response accelerations represent the Risk-Targeted Maximum Considered Earthquake (MCE_R) ground motion. The horizontal peak ground acceleration (PGA) that corresponds to the MCE_R for the site was calculated as 1.20g using the USGS (2014b) seismic design tool (web-based). The mapped PGA (PGA_M) which is defined as the Maximum Considered Earthquake Geometric Mean (MCE_G) PGA with adjustment for site class effects in

accordance with the American Society of Civil Engineers (ASCE) 7-10 Standard was estimated to be 1.14g using the USGS (2014b) seismic design tool in accordance with the ASCE 7-10 Standard. These estimates of ground motion do not include near-source factors that may be applicable to the design of structures on site.

This potential level of ground shaking could have high impacts on project improvements without appropriate design mitigation, and should be considered during the detailed design phase of the project. Mitigation of the potential impacts of seismic ground shaking can be achieved through project structural design. Structural elements of planned improvements can be designed to resist or accommodate appropriate site-specific ground motions and to conform to the current seismic design standards, including CBC and County of Los Angeles building regulations. Appropriate structural design and mitigation techniques would reduce the impacts related to seismic ground shaking.

9.3. Liquefaction

Liquefaction is the phenomenon in which loosely deposited granular soils located below the water table undergo rapid loss of shear strength due to excess pore pressure generation when subjected to strong earthquake-induced ground shaking. Ground shaking of sufficient duration results in the loss of grain-to-grain contact due to rapid rise in pore water pressure causing the soil to behave as a fluid for a short period of time. Liquefaction is known generally to occur in saturated or near-saturated cohesionless soils at depths shallower than 50 feet. Factors known to influence liquefaction potential include composition and thickness of soil layers, grain size, relative density, groundwater level, degree of saturation, and both intensity and duration of ground shaking. The potential damaging effects of liquefaction include differential settlement, loss of ground support for foundations, ground cracking, heaving and cracking of slabs due to sand boiling, buckling of deep foundations due to liquefaction-induced ground settlement.

According to Seismic Hazard Zones Maps published by the State of California (CDMG, 1999), a portion of the project area in the northeastern part of the site near the mouth of Wilson Canyon is located within an area considered susceptible to liquefaction (Figure 6).

This portion of the site within the lower-lying canyon bottom area was mapped as potentially liquefiable due to the tendency for shallower groundwater and loose, younger alluvial sediments to accumulate in canyon bottoms. However, the overall historic high groundwater levels at the site are deep, on the order of 120 feet or more below the ground surface, and much of the project site is not considered susceptible to liquefaction. Areas of the project site mapped as being underlain by rock formations are not susceptible to liquefaction.

Assessment of the liquefaction potential at the project site should be evaluated by subsurface geotechnical exploration prior to detailed design and construction of project improvements and incorporated into the design, as appropriate. Structural design and mitigation techniques should be developed to reduce the potential impacts of liquefaction. Therefore, the potential impacts due to liquefaction are considered to be less than significant with incorporation of techniques such as structural design, in-situ ground modification, or supporting foundations with piles at depths designed specifically for seismically induced settlement.

9.4. Landslides

Landslides, slope failures, and mudflows of earth materials generally occur where slopes are steep and/or the earth materials are too weak to support themselves. Earthquake-induced landslides may also occur due to seismic ground shaking. Landslides can consist of rockfalls, shallow slumps, mudflows and erosional failures, or deeper-seated rotational and block failures. Shallow failures are typically caused by high incident rainfall or concentrated surface runoff conditions that weaken surficial materials. Rotational slides and block-type slides form deeper within the ground, and are generally related to discontinuities in the rock that manifest into a sliding surface. Rainfall and other water infiltration into the ground can exacerbate and initiate these deeper sliding conditions. Landslides can also be caused by construction activities, such as grading that undercuts the toe of a slope or induces loading at the top of a slope.

Existing landslides are not shown on the northern hillside areas of the site on the geologic maps reviewed. However, the northern portion of the project site contains steep, natural

slopes that have been subjected to fires. In addition, portions of the slopes on the northern part of the site have been designated on the State Seismic Hazard Zones Map (Figure 6) as having potential for earthquake–induced landslides (CDMG, 1999). Furthermore, landslides that were caused by earthquake ground shaking were mapped at the site following the 1971 San Fernando Earthquake (CDMG, 1975).

The southern portion of the project site has shallower slope gradients and has been extensively developed and is primarily covered with pavements, hardscape and structures. The developed southern portion of the site includes some graded slopes at shallow gradients associated with landscaping and open space areas.

Due to the presence of steep hillside areas and previously mapped earthquake–induced landslides in the northern portion of the site, there is a potential for landslides, mudflows or seismic slope instability to impact the proposed project site. Detailed assessment of the landslide and mudflow potential in areas of project improvements should be performed prior to design and construction of improvements and incorporated into the design, as appropriate, to reduce the construction and operational impacts related to landslides. Therefore, the potential impacts due to landslides are considered to be low with incorporation of recommendations discussed below.

To evaluate the potential for landslides, surficial slope failures and/or mudflows to affect future planned improvements, evaluation may include review of geologic maps showing the locations of previous mapped landslides and potential earthquake-induced landslide zones relative to these project components. Where appropriate in close proximity to potential landslide areas, surface reconnaissance to map the locations of landslides and/or subsurface evaluation could be performed. Evaluation of the landslide and surficial slope failure hazard would be performed during design and prior to construction so that, in the event the hazard exists, common design and construction practices can be implemented.

Common construction practices for potentially unstable slope conditions and for areas with the potential for landslides and surficial slope failures include: excavating potentially

unstable material resulting in a flatter and more stable slope configuration; reduction of landslide driving forces by removal of earth materials at the top of the landslide; construction of buttress and/or stabilization fills; construction of retaining walls, installation of rock bolts on the face of the slope, or installation of protective wire mesh on the slope face; and/or the construction of debris impact walls at the toe of the slope to contain rock fall debris. Graded slopes created for future developments within the project site should also be designed to reduce the potential for landslides or mudflows.

9.5. Soil Erosion

Erosion refers to the process by which soil or earth material is loosened or dissolved and removed from its original location. Erosion can occur by varying processes and may occur at the project site where soil or rock is exposed to wind or moving water (both rainfall and surface runoff). The processes of erosion are generally a function of material type, terrain steepness, rainfall or irrigation levels, surface drainage conditions, and general land uses. Review of geologic maps and site reconnaissance indicate that surface exposures at the site are comprised of variable types of soil and rock materials. In addition, the site comprises varied topographic terrain ranging from gentle to steep gradients. In a general sense, steeper slope gradients, such as in the northern portion of the site, provide a higher erosion potential for similar soil types.

Sandy soils typically have low cohesion, and have a relatively higher potential for erosion from surface runoff when exposed in slopes or utilized near the face of fill embankments. Surface soils with higher amounts of clay tend to be less erodible as the clay acts as a binder to hold the soil particles together. Additionally, large portions of the site, including the eastern and northern portions, are currently undeveloped and subject to potential water- and wind-related soil erosion. Soil erosion and soil runoff from natural drainages and non-vegetated areas on the adjacent slopes has the potential to impact the site.

Future construction at the project site would result in ground surface disruption during excavation, grading, and trenching that would create the potential for erosion to occur. However, the erosion potential during construction can be minimized with prudent site

management practices during construction. A Storm Water Pollution Prevention Program (SWPPP) incorporating Best Management Practices (BMPs) for erosion control should be prepared prior to the start of construction in accordance with governing agencies. Following development of site improvements, erosion can be minimized by long-term erosion management practices and drainage provisions incorporated into the design and maintenance of the project. Potential soil erosion related to project site development is considered to have a low impact with incorporation of appropriate design and construction practices.

With the implementation of BMPs incorporated in the project SWPPP during planned construction, water- and wind-related soil erosion can be limited and managed within construction site boundaries. Examples of these procedures could include surface drainage measures for erosion due to water, such as the use of erosion prevention mats or geofabrics, silt fencing, sandbags and plastic sheeting, and temporary drainage devices. Positive surface drainage should be accommodated at project construction sites to allow surface runoff to flow away from site improvements or areas susceptible to erosion. To reduce wind-related erosion, wetting of soil surfaces and/or covering exposed ground areas and soil stockpiles could be considered during construction operations, as appropriate.

During long-term operation of future developments at the project site, soil erosion can be mitigated through site drainage design and maintenance practices. Design procedures can be performed to reduce soil erosion such as appropriate surface drainage design of roadways and facilities to provide for positive surface runoff. Design should address reducing concentrated run-off conditions that could cause erosion and affect the stability of project improvements.

9.6. Subsidence

Subsidence is characterized as a sinking of the ground surface relative to surrounding areas, and can generally occur where deep soil deposits are present. Subsidence in areas of deep soil deposits is typically associated with regional groundwater withdrawal or other fluid withdrawal from the ground such as oil and natural gas. Subsidence can result in the development of ground cracks and damage to site improvements.

The City of Los Angeles and County of Los Angeles references do not indicate mapped areas of subsidence. Historic subsidence is not known to have occurred or been reported in the site region. The Safety Element of the Los Angeles City General Plan (1996) includes information regarding the City's program to preclude potential subsidence within the City. Subsurface extraction activities within the City of Los Angeles are regulated by the Oil Drilling District procedures, which contain provisions for monitoring and imposing measures to preclude subsidence related to oil and gas extraction. Therefore, the potential for subsidence in the Project area is relatively low.

9.7. Compressible/Collapsible Soils

Compressible soils are generally comprised of soils that undergo decrease in volume when exposed to new loading, such as fill or foundation loads. Soil collapse is a phenomenon where the soils undergo a significant decrease in volume upon increase in moisture content, with or without an increase in external loads. Buildings, structures and other improvements may be subject to excessive settlement-related distress when compressible soils or collapsible soils are present.

Based on our background review, the project area is underlain by fill soils, alluvial sediments, and sedimentary rock formations. The alluvial deposits underlying the site are generally unconsolidated to weakly consolidated, based on the young nature of the deposits, reflecting a depositional history without substantial loading, and may be subject to collapse. Older, undocumented fill soils related to previous site development are considered potentially compressible/collapsible. Due to the presence of potentially compressible/collapsible soils at the site, there is a potential for differential settlement to cause damage to project improvements. The potential impacts of settlement are significant without appropriate mitigation during detailed project design and construction.

Since future development within the project area will involve construction of new improvements that would load the existing soils, potential settlement and/or collapsible soils will be a consideration in the detailed design and construction of project improvements. Assessment of soil settlement should be performed prior to detailed design and construction

of project improvements and mitigation techniques should be developed, as appropriate, to reduce the impacts related to settlement.

To evaluate the potential for settlement to affect future project components, surface reconnaissance and subsurface evaluation should be performed. During the detailed design phase of the project, site-specific geotechnical evaluations should be performed to assess the settlement potential of the on-site natural soils and undocumented fill. This may include detailed surface reconnaissance to evaluate site conditions, and drilling of exploratory borings or test pits and laboratory testing of soils, where appropriate, to evaluate site conditions.

Examples of possible mitigation measures for soils with the potential for settlement include removal of the compressible/collapsible soil layers and replacement with compacted fill, surcharging to induce settlement prior to construction of improvements, allowing for a settlement period after or during construction of new fills, and specialized foundation design, including the use of deep foundation systems to support structures. Various in-situ soil improvement techniques are also available, such as dynamic compaction (heavy tamping) or compaction grouting.

9.8. Expansive Soils

Expansive soils include clay minerals that are characterized by their ability to undergo significant volume change (shrink or swell) due to variations in moisture content. Sandy soils are generally not expansive. Changes in soil moisture content can result from rainfall, irrigation, pipeline leakage, surface drainage, perched groundwater, drought, or other factors. Volumetric change of expansive soil may cause excessive cracking and heaving of structures with shallow foundations, concrete slabs-on-grade, or pavements supported on these materials.

Based on our background review and site reconnaissance, the near-surface soils in the project site are predominantly comprised of sandy, coarse-grained materials. These soils typically have a low expansion potential. However, clayey soils may be present in areas of

the project site. Constructing project improvements on expansive soils could have a significant impact on future improvements.

Assessment of the potential for expansive soils should be performed during the design phase of the project through subsurface exploration and mitigation techniques should be developed, as appropriate, to reduce the impacts related to expansive soils. The potential impacts due to expansive soils would be reduced with incorporation of techniques such as over-excavation and replacement with non-expansive soil, soil treatment, moisture management, and/or specific structural design for expansive soil conditions developed during design of the project.

9.9. Groundwater and Excavations

The depth of historic high groundwater at the project site is on the order of 120 feet below the ground surface (CDMG, 1998). Based on the groundwater information reviewed from the GeoTracker website, groundwater levels from 1993 to 2013 in the Sylmar community approximately 1½ miles south of the project site have ranged from approximately 125 to 200 feet below the ground surface (State of California, 2016).

Proposed future improvements at the project site are anticipated to consist of excavations and site grading for new structures. Based on the deep groundwater levels reported in the site region and the anticipated depth of construction activities, groundwater may not have a significant impact on excavations for the planned project improvements. However, areas of shallower perched groundwater may be encountered during excavations, and, if encountered, could have an impact on the construction activities at the sites.

Wet or saturated soil conditions encountered in excavations during construction for the project can cause instability of the excavations, and present a constraint to construction activities. Excavations in areas with shallow perched groundwater may need to be cased/shored and/or dewatered to maintain stability of the excavations and adjacent improvements and provide access for construction.

Groundwater levels may be influenced by seasonal variations, precipitation, irrigation, soil/rock types, groundwater pumping, and other factors and are subject to fluctuations. On-site infiltration of storm water related to LID guidelines may have an impact on existing and planned site improvements and should be evaluated during the detailed design phase of the project.

Further study, including subsurface exploration, should be performed during the detailed design phase of planned improvements to evaluate the presence of seepage and/or perched groundwater, and to evaluate the potential for stormwater infiltration at the site, and the potential impacts on design and construction of project improvements. Mitigation techniques should be developed, as appropriate, to reduce the impacts related to groundwater. The potential impacts due to groundwater would be reduced with incorporation of techniques such as casing, shoring and/or construction dewatering.

10. LIMITATIONS

The purpose of this study was to evaluate geotechnical conditions and potential geologic and seismic hazards at the site using readily available geotechnical data, site reconnaissance, and to provide a preliminary geotechnical report which can be utilized in the preparation of an EIR for the project.

The geotechnical analyses presented in this report have been conducted in general accordance with current engineering practice and the standard of care exercised by reputable geotechnical consultants performing similar tasks in this area. No other warranty, implied or expressed, is made regarding the conclusions, recommendations, and professional opinions expressed in this report. Our preliminary conclusions and recommendations are based on a review of readily available geotechnical literature, geologic and seismic data, and an analysis of the observed conditions. Variations may exist and conditions not observed or described in this report may be encountered.

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N

SCALE IN FEET

0 2,400 4,800

NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

Ninyo & Moore	SITE LOCATION	FIGURE
PROJECT NO. 209600002 / DATE 3/16	OLIVE VIEW - UCLA MEDICAL CENTER MASTER PLAN 14445 OLIVE VIEW DRIVE SYLMAR, CALIFORNIA	1

209600002_SL.dwg 15:39:19 02/19/2016 GK

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LEGEND	
— — · — — · —	SITE BOUNDARY

N

SCALE IN FEET

0 600 1,200

NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

Ninyo & Moore		SITE AERIAL VIEW	FIGURE
PROJECT NO.	DATE	OLIVE VIEW - UCLA MEDICAL CENTER MASTER PLAN 14445 OLIVE VIEW DRIVE SYLMAR, CALIFORNIA	2
209600002	3/16		

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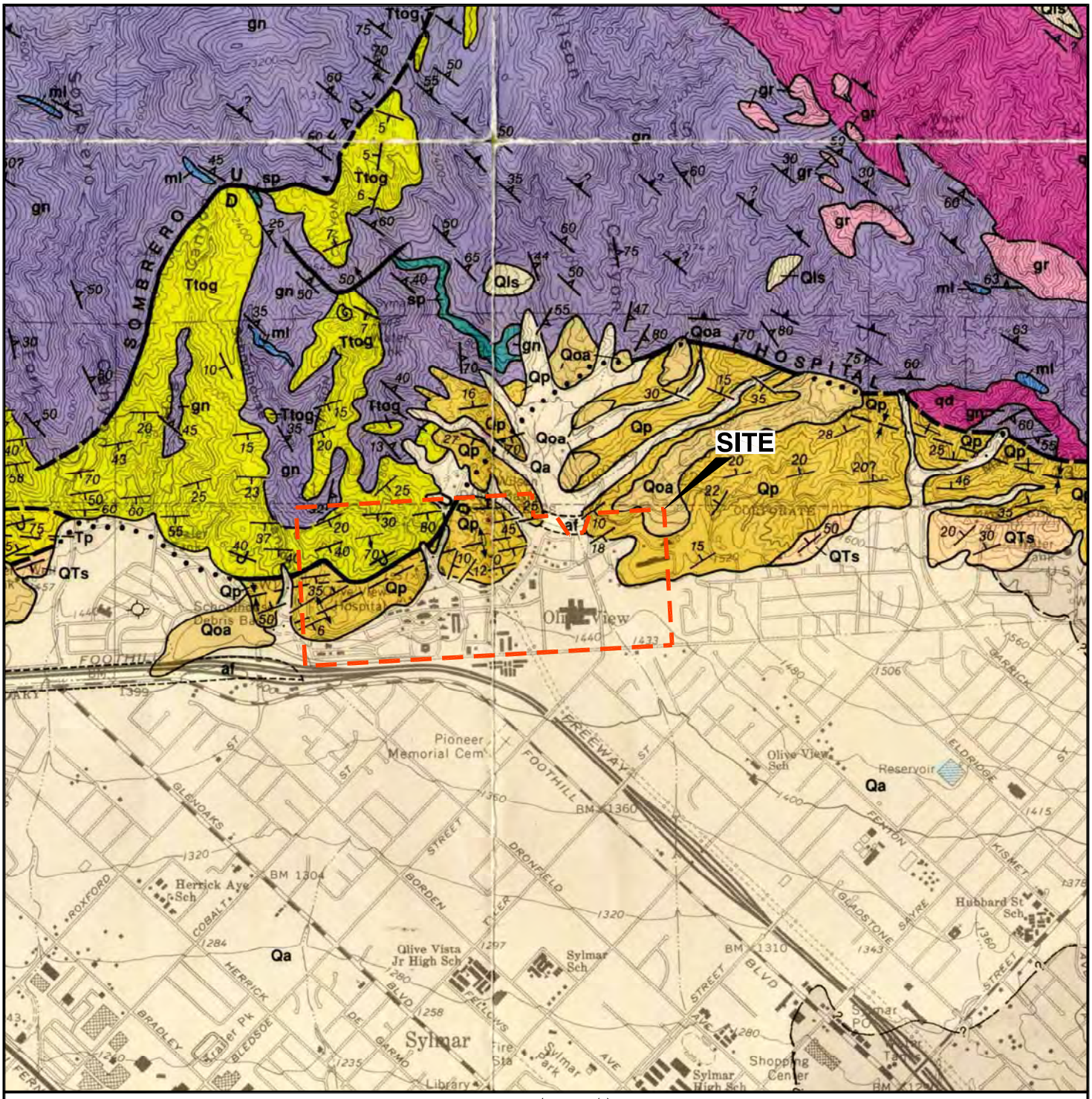

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NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

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Qa	ALLUVIUM	gn	MENDENHALL GNEISS
Qoa	OLDER ALLUVIUM		GEOLOGIC CONTACT
Qp	PACOIMA FORMATION GRAVEL AND SAND		FAULT; DOTTED WHERE CONCEALED
		80	STRIKE AND DIP OF BEDDING
			ANTICLINE

Ninyo & Moore

REGIONAL GEOLOGY

FIGURE 3

PROJECT NO.	DATE
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OLIVE VIEW - UCLA MEDICAL CENTER MASTER PLAN
14445 OLIVE VIEW DRIVE
SYLMAR, CALIFORNIA

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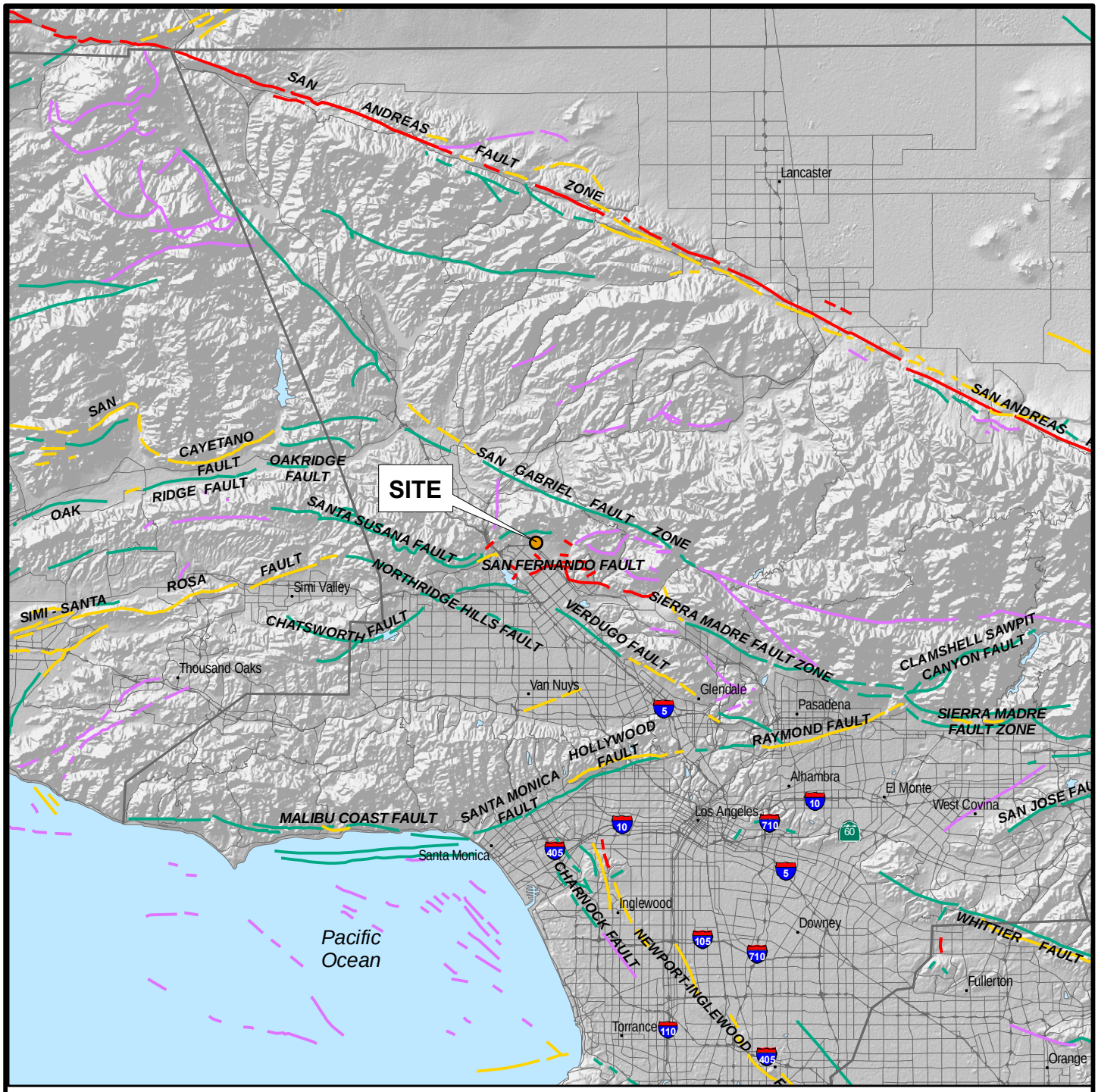

GIS DATA SOURCE: CALIFORNIA GEOLOGICAL SURVEY (CGS); ENVIRONMENTAL SYSTEMS RESEARCH INSTITUTE (ESRI)
REFERENCE: JENNINGS, C.W. AND BRYANT, W.A., 2010, FAULT ACTIVITY MAP OF CALIFORNIA.

LEGEND

FAULT ACTIVITY:

- HISTORICALLY ACTIVE
- LATE QUATERNARY
- HOLOCENE ACTIVE
- QUATERNARY
- COUNTY BOUNDARIES

N

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Miles

NOTE: DIMENSIONS, DIRECTIONS, AND LOCATIONS ARE APPROXIMATE

Ninyo & Moore	FAULT LOCATIONS	FIGURE
PROJECT NO.	DATE	OLIVE VIEW - UCLA MEDICAL CENTER MASTER PLAN 14445 OLIVE VIEW DRIVE SYLMAR, CALIFORNIA	4
209600002	3/16		

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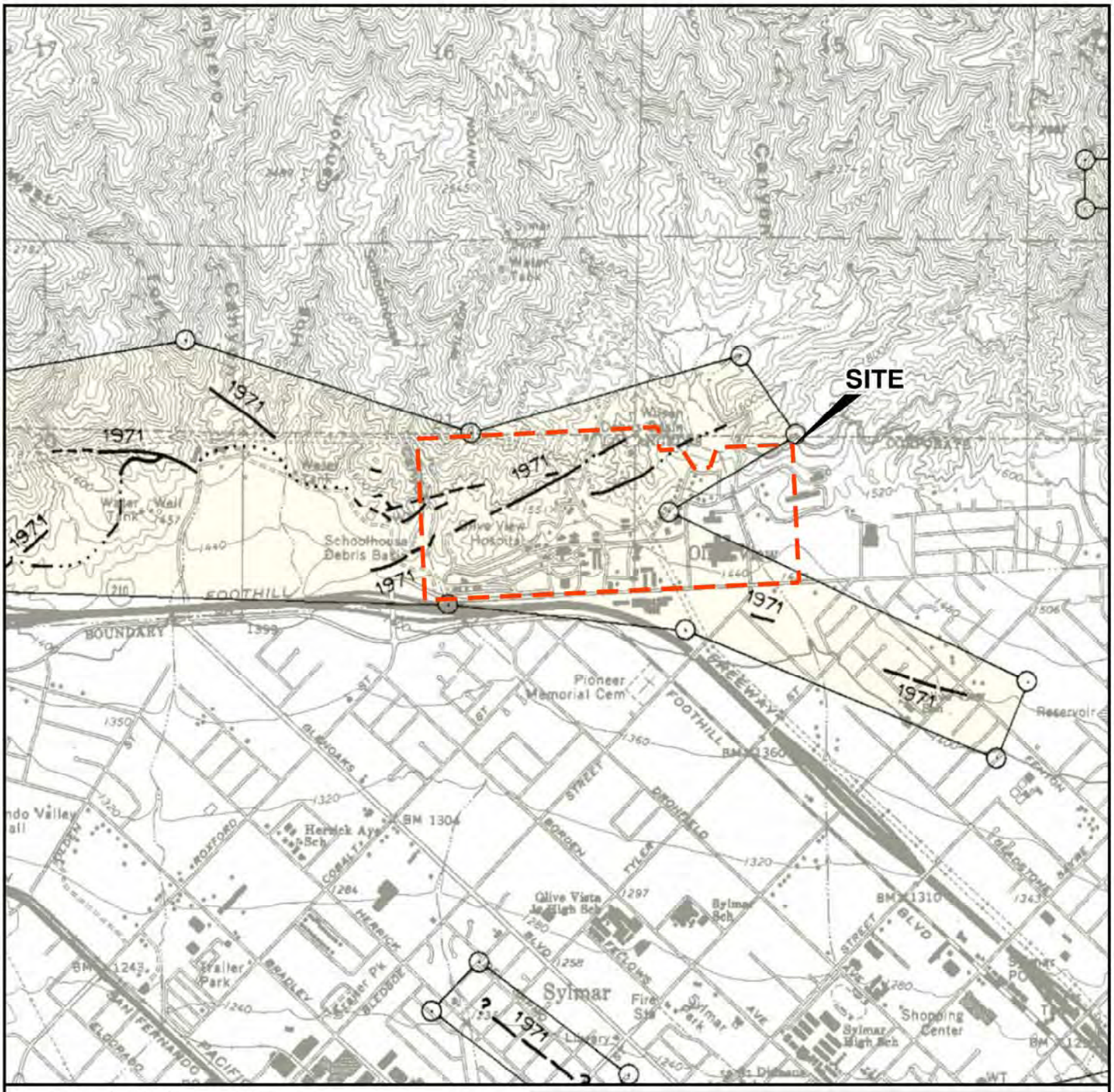

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0 2,000 4,000

NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

LEGEND

Potentially Active Faults

1906 C

Faults considered to have been active during Holocene time and to have a relatively high potential for surface rupture, solid line where accurately located, long dash where approximately located, short dash where inferred, dotted where concealed; query (?) indicates additional uncertainty. Evidence of historic offset indicated by year of earthquake-associated event or C for displacement caused by creep or possible creep.

Special Studies Zone Boundaries

These are delineated as straight-line segments that connect encircled turning points so as to define special studies zone segments.

Seaward projection of zone boundary.

Ninyo & Moore

PROJECT NO.	DATE
209600002	3/16

EARTHQUAKE FAULT ZONES

OLIVE VIEW - UCLA MEDICAL CENTER MASTER PLAN
14445 OLIVE VIEW DRIVE
SYLMAR, CALIFORNIA

FIGURE

5

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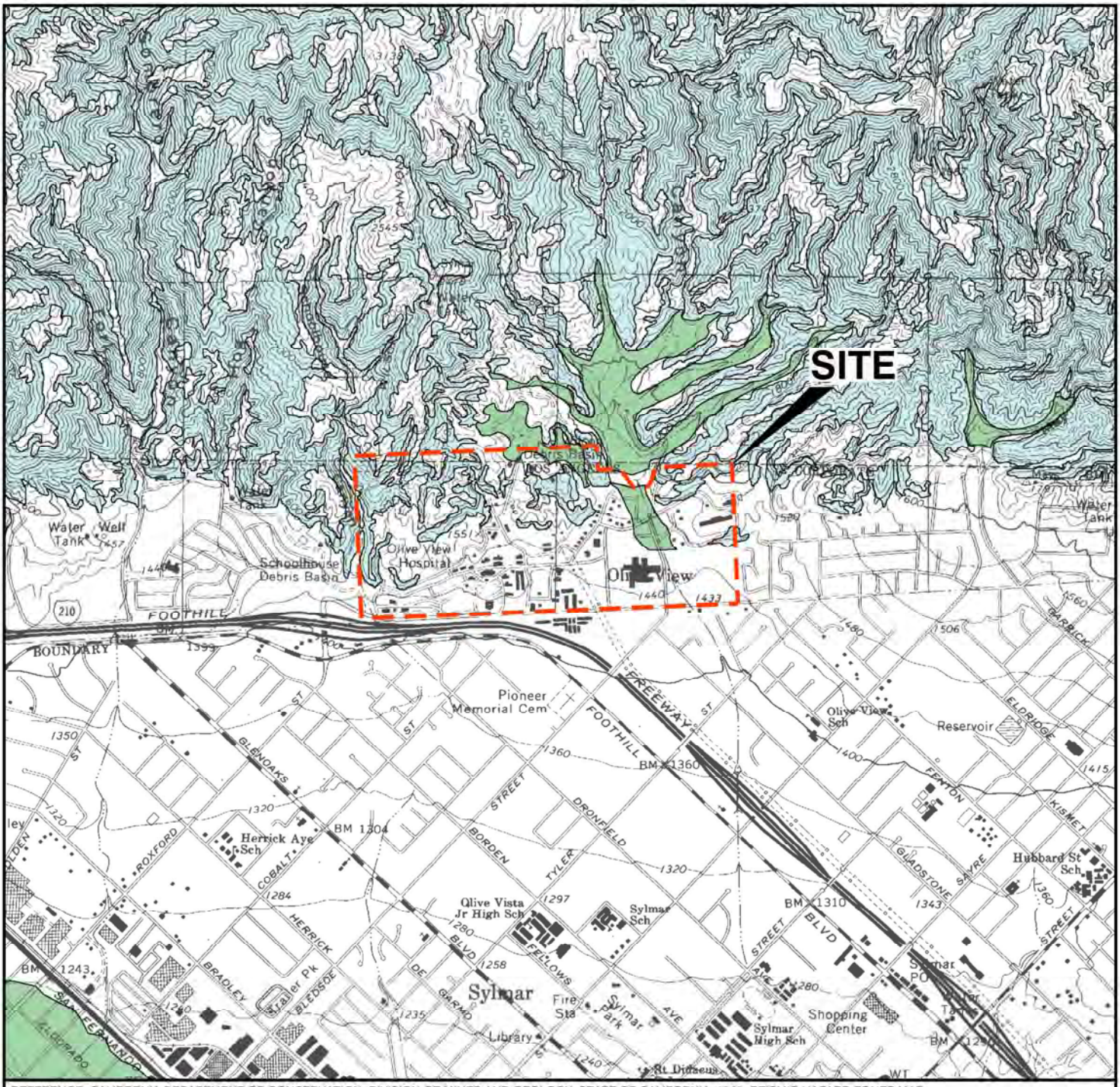

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SCALE IN FEET

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NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

LEGEND

EARTHQUAKE-INDUCED LANDSLIDES

Areas where previous occurrence of landslide movement, or local topographic, geological, geotechnical and subsurface water conditions indicate a potential for permanent ground displacements such that mitigation as defined in Public Resources Code Section 2693(c) would be required.

LIQUEFACTION:

Areas where historic occurrence of liquefaction, or local geological, geotechnical and groundwater conditions indicate a potential for permanent ground displacements such that mitigation as defined in Public Resources Code Section 2693(c) would be required.

Ninyo & Moore

PROJECT NO.	DATE
209600002	3/16

SEISMIC HAZARD ZONES

OLIVE VIEW - UCLA MEDICAL CENTER MASTER PLAN
14445 OLIVE VIEW DRIVE
SYLMAR, CALIFORNIA

FIGURE

6

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Appendix F2

Paleontological Report

PALEO SOLUTIONS
Paleontological and Archaeological Compliance and Consulting Services

PALEONTOLOGICAL TECHNICAL STUDY: OLIVE VIEW – UCLA MEDICAL CENTER CAMPUS MASTER PLAN PROJECT COMMUNITY OF SYLMAR, LOS ANGELES COUNTY, CALIFORNIA

Prepared for:

ICF INTERNATIONAL

Lee Lisecki, Principal
601 W. Fifth Street
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CC:

OLIVE VIEW – UCLA MEDICAL CENTER CAMPUS

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Prepared by:

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Joey Raum – Report Author

PSI Report#: CA16LosAngelesICF01R-P

JUNE 2016

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1.0 EXECUTIVE SUMMARY

This report presents the results of the paleontological technical study conducted by Paleo Solutions, Inc. (Paleo Solutions) under contract to ICF International (ICF) in support of the Olive View – University of California, Los Angeles (UCLA) Medical Center Campus Master Plan (Project or Master Plan) being proposed by the Olive View – UCLA Medical Center (Applicant). This work was required by the County of Los Angeles to meet their requirements as the lead agency under the California Environmental Quality Act (CEQA). All paleontological work was completed in compliance with CEQA and Los Angeles County guidelines.

The Olive View-UCLA Medical Center Campus is located at 14445 Olive View Drive within the community of Sylmar, at the north end of the San Fernando Valley, in the City of Los Angeles, California. Full build-out of the Master Plan could result in approximately 1,386,000 square feet of development throughout the campus, which would occur in two tiers. Tier I entails near-term projects constructed before 2035, including an Ambulatory Care Center, research and development buildings, a Community Center, improvements to the existing hospital, appurtenant parking facilities, and other medical center campus improvements that would be located predominantly in the eastern third of the current campus. Tier II development would occur beyond 2035, and would include the construction of a new inpatient hospital, support services building, mental health outpatient care facility, long-term care and recuperative housing, retail space, County department buildings, and the reuse and renovation of the existing inpatient hospital for other purposes.

The paleontological study for the Project included a geologic map review, literature search, institutional records search, reconnaissance survey, and analysis of the paleontological potential of geologic units within the Project site. Geologic mapping of the Project area indicates that the site is primarily underlain by Quaternary (Holocene) alluvium and Pleistocene Pacoima Formation. According to the records searches, there are no previously recorded fossil localities from within the Project site, but older Quaternary deposits similar to the Pleistocene Pacoima Formation have produced significant fossil vertebrate remains nearby. Recovered fossils include specimens of mastodon (*Mammut*), horse (*Equus*), bison (*Bison*), and mammoth (*Mammuthus*). No fossils were discovered during the reconnaissance survey, however, the fine to medium grained Pacoima Formation outcrops observed during the survey appear conducive to fossil preservation. Based on the results of the records search and survey, the Pacoima Formation is considered to have moderate sensitivity (PFYC 3a). Quaternary alluvium has a low potential (PFYC 2) to contain paleontological resources at the surface due to its young age, but may be underlain by sensitive deposits at depth.

Due to the moderate paleontological potential of geologic units within the Project site, mitigation of potential adverse impacts resulting from construction-related ground disturbance is recommended. Prior to the start of construction, a paleontological resources monitoring plan should be prepared and implemented. Monitoring is recommended during earthmoving activities impacting native sediments of the Pacoima Formation. Additionally, periodic paleontological spot checks are recommended during excavations in areas mapped as Quaternary alluvium to determine if older, paleontologically sensitive sediments are present. If present, monitoring should be implemented.

TABLE 1. OLIVE VIEW – UCLA MEDICAL CENTER CAMPUS MASTER PLAN PROJECT SUMMARY

Project Name	Olive View – UCLA Medical Center Campus Master Plan Project				
Project Description	Olive View – UCLA Medical Center is proposing to make improvements to the existing hospital building as well as build many new buildings, parking structures, and open recreational areas. Construction would involve grading, landscaping, and infrastructure improvements such as storm drains, water, sewer, and streets.				
Project Area	The Project site is located in the Community of Sylmar within the mid-western portion of Los Angeles County. Specifically, it is located on the UCLA Medical Center on 14445 Olive View Drive, which is bounded by the Angeles National Forest and Wilson Canyon Debris Basin on the north, Olive View Drive on the south, Los Angeles County Flood Control District facilities and Wilson Canyon Park on the east, and Bucher Avenue to the west. The terrain comprises low to low-moderate relief flat and developed areas and moderate relief hills along the northern and eastern margins.				
Total Acreage	~230 acres				
Location (PLSS) and Land Owner	**Quarter-Quarter**	**Section**	**Township**	**Range**	**Land Ownership**
	NESE, L3, L4	21	T3N	R15W	Undetermined
	NWSW, NESW, L1, L2	22			Undetermined
Topographic Map(s)	USGS San Fernando, California 7.5’ Quadrangle				
Geologic Map(s)	Geologic map of the San Fernando and Van Nuys (north ½) Quadrangles, Los Angeles County, CA (Dibblee and Ehrenspeck, 1991)				
Mapped Geologic Formation(s) and Age	**Formation & Map Symbol**	**Age**	**Paleontological Sensitivity**		
	Quaternary alluvium (Qa)	Holocene	Low		
	Pacoima Formation (Qp)	Pleistocene	Moderate		
Surveyor(s)	Joey Raum				
Date Surveyed	June 1, 2016				
Formations Surveyed	Quaternary alluvium, Pacoima Formation				
Previously Documented Fossil Localities within the Project area	None				
Paleontological Results	No paleontological resources were observed or collected during the survey.				
Disposition of Fossils	Not applicable; No fossils observed or collected during survey.				
Recommendation(s)	It is recommended that monitoring be performed during all earthmoving activities impacting native sediments of the Pacoima Formation. Additionally, periodic paleontological spot checks should be conducted when excavation exceeds depths of five feet into areas mapped as Quaternary alluvium to determine if older, paleontologically sensitive sediments are present. If present, monitoring should be implemented. Prior to the start of construction a paleontological resources monitoring plan should be prepared and implemented. The plan should include specific locations and construction activities requiring monitoring, procedures to follow for monitoring and fossil discovery, and a curation agreement with the Natural History Museum of Los Angeles County.				

2.0 INTRODUCTION

This report presents the results of the paleontological technical study conducted by Paleo Solutions for ICF in support of the Olive View – UCLA Medical Center Master Plan Project being proposed by the Olive View – UCLA Medical Center. This work was required by the County of Los Angeles to meet their requirements as the lead agency under CEQA. All work was completed in compliance with CEQA and Los Angeles County guidelines.

2.1 PROJECT LOCATION

The Project site is located in the community of Sylmar within the mid-western portion of Los Angeles County (Figure 1). The City of San Fernando is located to the south and the City of Santa Clarita is located to the north. Specifically, the Project site is located north of Olive View Drive and Interstate 210, west of Reagan Road, east of Cobalt Street, and south of Bucher Avenue. The street address for the Olive View - UCLA Medical Center is 14445 Olive View Drive, Sylmar, CA 91342. Direct access to UCLA Medical Center is from Olive View Drive (Figure 2).

2.2 PROJECT BACKGROUND

This Project site is part of the existing Olive View - UCLA Medical Center on 230 acres of land. The proposed site is within the Sylmar Community Plan, a part of the General Plan of the City of Los Angeles. The properties that compose the Olive View-UCLA Medical Center Campus are zoned for public facilities (PF), with the portion that is Wilson Canyon Channel zoned for open space (OS) by the City of Los Angeles. The area surrounding the campus is further defined by the City of Los Angeles as being for residential use.

The Olive View-UCLA Medical Center, which is the largest public facility in Sylmar, was historically established as a tuberculosis sanitarium in October 1920, and was later converted to an acute care hospital in 1970. The Sylmar Earthquake of 1971 damaged the hospital beyond repair, prompting the construction of the current hospital in the 1980s. In 1992, the medical center incorporated UCLA into its name, representing the collaboration with the UCLA David Geffen School of Medicine. The medical center became a part of the Valley Care system in 1997, which serves residents in the San Fernando and Santa Clarita valleys. In 2008, the Sayre fire damaged more than 40 buildings on the campus and the childcare center was totally destroyed.

The campus currently consists of 31 permanent buildings and 29 trailers and other modular structures. The buildings range in age from 5 to 80 years old, and therefore exhibit a wide range of architectural styles. The oldest buildings, particularly the bungalows in the north of campus, have been repurposed for campus support uses. The modular structures and trailers provide space and additional storage for the campus and are scattered throughout the campus. The majority of buildings on the campus were identified by the master plan as candidates for eventual demolition. The exception is the existing hospital, which is to remain, and if a new hospital is built, it is to be repurposed.

The existing hospital's main six-story tower houses the inpatient and outpatient services and is located in the eastern third of the campus. The hospital was completed in 1987 and is the dominant structure on the campus. Emergency Services is housed directly north of the main tower, and the imaging center is to the west. Directly attached to the Emergency Services Building is the Isolation Unit, which serves as a regional treatment center for tuberculosis. These buildings are connected to facilitate collaboration between the related programs. The aforementioned cluster of buildings are all located east of Kennedy Road, and are surrounded by surface parking lots.

Buildings west of Kennedy Road house mostly campus support, administration, storage, and materials management services. There are also various parking lots and trailers in the western portion of campus. A new Child Care Center has been built on East Way. The Community Mental Health building, constructed in 2011, is at the far west end of the site, adjacent to West Way. This one-story building serves as a psychiatric urgent care center.

As evidenced by the medical center's name, the Olive View-UCLA Medical Center is a major affiliate of the David Geffen School of Medicine at UCLA. The hospital operates post-graduate residency training programs sponsored either directly or by UCLA in 22 medical specialties. The medical center also operates an on campus School of Nursing.

2.3 PROJECT DESCRIPTION

Olive View - UCLA Medical Center is requesting approval of several discretionary actions, including the approval of a Regional Water Quality Control Board (National Pollutant Discharge Elimination System [NPDES] Construction General Permit), Haul Route Permit, Grading, excavation, and building permits, approvals from the City of Los Angeles for off-site intersection improvements, certification of the Environmental Impact Report (EIR) and approval of the master plan by the County Board of Supervisors, and any other permits or approvals that may be required. The Applicant proposes to construct on the approximately 230-acre Olive View - UCLA Medical Center property in the community of Sylmar, an Inpatient Hospital, Ambulatory Care Center, Research and Development, Community Center, Administration, Retail, Mental Health, Long Term Care Residential, Materials Management, Central Utility Plant, Support Services Buildings, and Parking Facilities throughout the grounds.

2.3.1 Site Plan

The proposed Project is intended to guide development of the campus over time and the delivery of health care services and health related community programs. The master plan provides alternate paths for that development and flexibility to allow the master plan to adapt to changes over time. The master plan also includes an analysis and assessment of existing campus infrastructure and buildings, future considerations and recommendations for the campus' land use, and a series of design guidelines that dictate building placement, form, and materiality. The elements of the Master Plan consist of Tier I and Tier I development. Tier I development consists of a 276,000 square foot Ambulatory Care Center, renovation or new construction of 530,000 square feet for Inpatient Services, 20,000 square feet for a Community Center, 120,000 square feet for UCLA Faculty Offices and Medical Office Building, Educational Facilities, and Research Facilities, 77,000 square feet for Central Utility Expansion, 30,500 square feet for a Materials Management Building, 96,000 square feet for Administrative Services, Community

Open Space and Landscaping throughout the campus, Parking, Vehicle Circulation, and Pedestrian Circulation consisting of 1,674 new parking spaces, and 482,400 square feet for Utility Infrastructure. Tier II development consists of approximately 600,000 square feet for Inpatient Services, 68,100 square feet for a Supply Services Building, 15,000-40,000 square feet for a Mental Health Outpatient care facility, 135,000 square feet for Long-Term Care/Residential with 69 units for Recuperative Housing, a Senior Center, Fitness Center, and Child Care Center, 40,000 square feet for Retail Space, Community Open Space and Landscaping throughout the Campus, two additional parking structures, and relocation of the County Fire Department, Agricultural Commissioner, and Sheriff's Building.

2.3.2 Master Plan Objectives

1. Provide for development opportunities that are consistent with the goals and policies of the County's General Plan.
2. Reorganize, expand, and integrate outpatient services with the specific goal of being more community based and patient centered.
3. Locate inpatient and outpatient services into dedicated buildings to optimize the quality of care and operational effectiveness, while reducing administrative, operational, and maintenance costs.
4. Ensure that operative costs are reduced in accordance with the prescriptions of the federal injunction.
5. Comply with the seismic safety regulations developed by the Office of Statewide Health Planning and Development.
6. Identify feasible opportunities to exceed state energy requirements and pursue green building sustainable design to the maximum extent possible.
7. Develop resources that are consistent with the needs of the 2035 planning horizon.

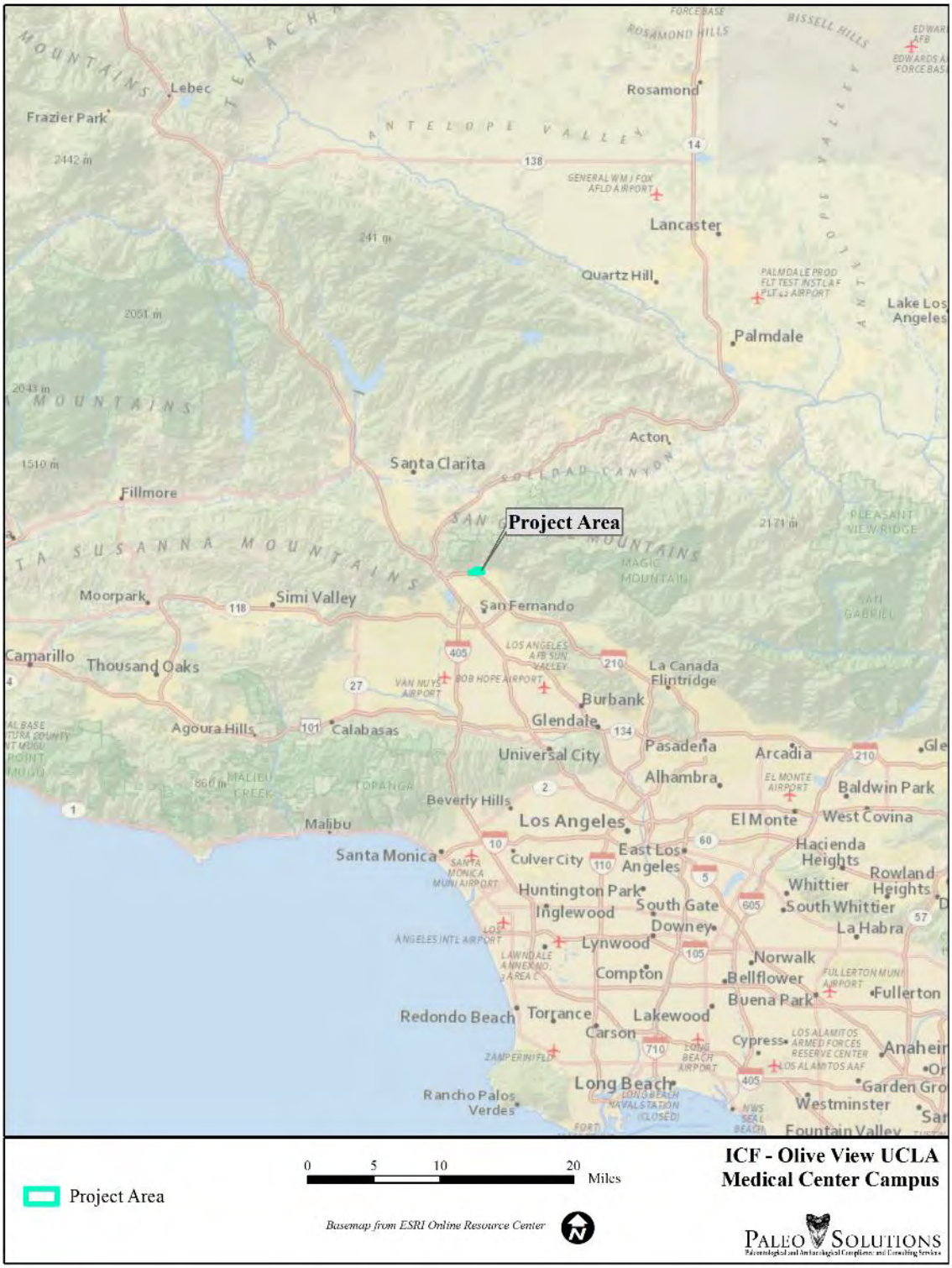

Figure 1. Project location map.

Figure 2. Project Site Plan (by Smithgroup JJR).

3.0 DEFINITION AND SIGNIFICANCE OF PALEONTOLOGICAL RESOURCES

As defined by Murphey and Daitch (2007): "Paleontology is a multidisciplinary science that combines elements of geology, biology, chemistry, and physics in an effort to understand the history of life on earth. Paleontological resources, or fossils, are the remains, imprints, or traces of once-living organisms preserved in rocks and sediments. These include mineralized, partially mineralized, or unmineralized bones and teeth, soft tissues, shells, wood, leaf impressions, footprints, burrows, and microscopic remains. Paleontological resources include not only fossils themselves, but also the associated rocks or organic matter and the physical characteristics of the fossils' associated sedimentary matrix.

The fossil record is the only evidence that life on earth has existed for more than 3.6 billion years. Fossils are considered non-renewable resources because the organisms they represent no longer exist. Thus, once destroyed, a fossil can never be replaced. Fossils are important scientific and educational resources because they are used to:

- Study the phylogenetic relationships amongst extinct organisms, as well as their relationships to modern groups;
- Elucidate the taphonomic, behavioral, temporal, and diagenetic pathways responsible for fossil preservation, including the biases inherent in the fossil record;
- Reconstruct ancient environments, climate change, and paleoecological relationships;
- Provide a measure of relative geologic dating that forms the basis for biochronology and biostratigraphy, and which is an independent and corroborating line of evidence for isotopic dating;
- Study the geographic distribution of organisms and tectonic movements of land masses and ocean basins through time;
- Study patterns and processes of evolution, extinction, and speciation; and
- Identify past and potential future human-caused effects to global environments and climates."

Fossil resources vary widely in their relative abundance and distribution and not all are regarded as significant. Vertebrate fossils, whether preserved remains or track ways, are classed as significant by most state and federal agencies and professional groups (and are specifically protected under the California Public Resources Code). In some cases, fossils of plants or invertebrate animals are also considered significant and can provide important information about ancient local environments. According to Bureau of Land Management (BLM) Instructional Memorandum (IM) 2009-011 a "Significant Paleontological Resource" is defined as: Any paleontological resource that is considered to be of scientific interest, including most vertebrate fossil remains and traces, and certain rare or unusual invertebrate and plant fossils. Assessment of significance is also subject to the CEQA criterion that the resource constitutes a "unique paleontological resource or site." A significant paleontological resource is considered to be of scientific interest if it is a rare or previously unknown species, it is of high quality and well-preserved, it preserves a previously unknown anatomical or other characteristic, provides

new information about the history of life on earth, or has an identified educational or recreational value. Paleontological resources that may be considered not to have scientific significance include those that lack provenience or context, lack physical integrity due to decay or natural erosion, or that are overly redundant or are otherwise not useful for research. Vertebrate fossil remains and traces include bone, scales, scutes, skin impressions, burrows, tracks, tail drag marks, vertebrate coprolites (feces), gastroliths (stomach stones), or other physical evidence of past vertebrate life or activities (BLM, 2008).

The full significance of fossil specimens or fossil assemblages cannot be accurately predicted before they are collected, and in many cases, before they are prepared in the laboratory and compared with previously collected material. Pre-construction assessment of significance associated with an area or formation must be made based on previous finds, characteristics of the sediments, and other methods that can be used to determine paleoenvironmental conditions.

A separate issue is the potential of a given geographic area or geologic unit to preserve fossils. Information that can contribute to assessment of this potential includes:

- The existence of known fossil localities or documented absence of fossils nearby and in the same geologic unit (e.g. "Formation" or one of its subunits);
- Observation of fossils within the project vicinity;
- The nature of sedimentary deposits in the area of interest, compared with those of similar deposits known elsewhere (size of particles, clasts and sedimentary structures conducive or non-conducive to fossil inclusion) that may favor or disfavor inclusion of fossils; and
- Sedimentology details, and known geologic history, of the sedimentary unit of interest in terms of the environments in which the sediments were deposited, and assessment of the favorability of those environments for the probable preservation of fossils.

4.0 LAWS, ORDINANCES, REGULATIONS AND STANDARDS

This section of the report presents the state and local regulatory requirements pertaining to paleontological resources that will apply to this Project.

4.1 CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA)

The procedures, types of activities, persons, and public agencies required to comply with CEQA are defined in the Guidelines for Implementation of CEQA (State CEQA Guidelines), as amended on March 18, 2010 (Title 14, Section 15000 et seq. of the California Code of Regulations [i.e., 14 CCR Section 15000 et seq.) and further amended January 4th, 2013. One of the questions listed in the CEQA Environmental Checklist is: "Would the project directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?" (State CEQA Guidelines Section 15064.5 and Appendix G, Section V, Part C).

4.2 STATE OF CALIFORNIA PUBLIC RESOURCES CODE

The State of California Public Resources Code (Chapter 1.7), Sections 5097 and 30244, includes additional state level requirements for the assessment and management of paleontological resources. These statutes require reasonable mitigation of adverse impacts to paleontological resources resulting from development on state lands, and define the excavation, destruction, or removal of paleontological "sites" or "features" from public lands without the express permission of the jurisdictional agency as a misdemeanor. As used in Section 5097, "state lands" refers to lands owned by, or under the jurisdiction of, the state or any state agency. "Public lands" is defined as lands owned by, or under the jurisdiction of, the state, or any city, county, district, authority, or public corporation, or any agency thereof.

4.3 LOS ANGELES COUNTY GUIDELINES

The County of Los Angeles General Plan Conservation and Open Space Element (1980) contains goals and policies regarding paleontological resources. This general Plan is currently under revision and is expected to have more specific guidance regarding paleontological resources in the updated version. The Conservation and Open Space Element establishes the goals of preserving and protecting sites of historical, archaeological, and scientific values, and defines the following policies relative to paleontological resources:

- Protect cultural heritage resources, including historical, archaeological, paleontological, and geological sites;
- Encourage public use of cultural heritage sites consistent with the protection of these resources;
- Promote public awareness of cultural resources; and
- Encourage private owners to protect cultural resources.

4.4 CITY OF LOS ANGELES GUIDELINES

The City of Los Angeles (City of Los Angeles, 2001), in Section 3 of the Conservation Element of the General Plan, requires that measures be taken to protect the City's archaeological and paleontological resources for historical, cultural, research and/or educational purposes. One policy and one program support this requirement. This policy requires that the City continue to identify and protect significant archaeological and paleontological sites and/or resources known to exist or that are identified during land development, demolition or property modification activities.

5.0 METHODS

This paleontological study included a geologic map review, literature search, institutional records search, and reconnaissance survey. The goal of this report is to identify the level of paleontological potential of the Project site, and make recommendations for the mitigation of adverse impacts on paleontological resources that may occur as a result of the proposed construction. Joey Raum, B.S. conducted the paleontological reconnaissance survey. Marianne Grillo, B.S. performed the background research and co-authored this report with Joey Raum, B.S. Geraldine Aron, M.S. oversaw all aspects of the Project as the Paleontological Principal

Investigator. Courtney Richards, M.S. performed technical review of the report. GIS maps were prepared by Paul Nesbit.

Paleo Solutions reviewed geologic mapping of the Project area by T.W. Dibblee, Jr. and H. E. Ehrenspeck (1991). The literature reviewed included published and unpublished scientific papers. A paleontological records search was conducted at the Natural History Museum of Los Angeles County (LACM). Dr. Samuel McLeod performed the search. The results of the records search (dated May 16, 2016) are attached as Appendix A. Additional searches of available online databases, including the PaleoBiology Database (PBDB) and University of California Museum of Paleontology database (UCMP), were conducted by Paleo Solutions staff.

The survey was conducted by Paleo Solutions staff member Joey Raum on June 1, 2016. The paleontological survey was performed in order to search for paleontological resources that may be impacted during construction. The survey also sought to determine the paleontological sensitivity of the geologic deposits underlying the survey areas.

The survey was conducted after a review of aerial photographs indicated the survey sections were within areas of native sediment and vegetation. The pedestrian survey included transects of the survey area with the majority of focus occurring along the northwestern and easternmost margins of the survey area, where Pacoima Formation (Qp) is mapped (see Figure 3). These areas comprise moderate to high relief slopes and relatively minimal disturbances to native sediments compared to the remaining survey area. The remaining survey area is mapped as Quaternary alluvium (Qa). In addition to searching for paleontological resources, one of the primary goals of this reconnaissance was to confirm the presence of Pleistocene age sediments in areas mapped as Pacoima Formation (Qp). Areas mapped as Quaternary alluvium (Qa) were visually inspected through windshield surveying, unless sediments were exposed, in which case they were more closely inspected. Methodologies included close inspection of sediment and bedrock outcrops. Rock exposures as well as the surrounding areas were photographed and documented. Reference points were acquired using a Trimble GPS unit. Sediment and bedrock lithologies were recorded and analyzed and used to better interpret the Project's paleontological sensitivity, and thus better understand the Project's potential impact.

6.0 GEOLOGY AND PALEONTOLOGY

The Project site is situated in the Transverse Ranges Geomorphic Province, which is comprised of east west trending mountain ranges and valleys (Wagner, 2002). Specifically, it is located in the northern portion of the San Fernando Valley and abuts against the San Gabriel Mountains. The San Fernando Valley encompasses approximately 226 square miles bounded by the Santa Susana Mountains on the north and northwest, the San Gabriel Mountains on the north and northeast, San Rafael Hills to the east, and Santa Monica Mountains and Chalk Hills to the south (California's Groundwater Bulletin 118, 2004).

6.1 MAPPED GEOLOGY

High resolution (1:24,000 scale) geologic mapping of the Project site by Dibblee and Ehrenspeck (1991) indicates that the site is primarily underlain by Quaternary (Holocene) alluvium with minor exposures of Pleistocene Pacoima Formation. The geographic distributions

of the geologic units in the Project site, as mapped by Dibblee and Ehrenspeck (1991), are illustrated in Figure 3.

6.1.1 Quaternary Alluvium (Qa)

Quaternary alluvial deposits are Holocene in age (11,700 years old or less). These deposits are composed of undissected alluvial gravel, sand and silt (Dibblee and Ehrenspeck, 1991) derived from alluvial fan deposits from the San Gabriel Mountains adjacent to the north (McLeod, 2016).

6.1.2 Pacoima Formation (Qp)

The Pacoima Formation was deposited in the Pleistocene age (2.59 million to 11.7 thousand years ago). The Formation is terrestrial and is composed of weakly consolidated brown alluvial gravel and sand derived from adjacent mountains (Dibblee and Ehrenspeck, 1991).

6.2 PALEONTOLOGICAL RECORDS SEARCH RESULTS

Paleo Solutions requested a paleontological search of records maintained by LACM (Appendix A). Searches of the University of California Museum of Paleontology (UCMP) online database and PaleoBiology Database (PBDB) and literature were also conducted. The records and literature reviews indicate that there are four recorded localities (LACM 5745, LACM 3387, LACM 7152, LACM 1733) in older Quaternary alluvial deposits, similar to the Pacoima Formation, southwest of the proposed Project area (McLeod, 2016). No other paleontological resources have been recorded in the immediate area in Quaternary alluvium or Pacoima Formation (UCMP, 2016; Jefferson, 1991; PBDB, 2016).

LACM 5745, southwest of the proposed Project area just east of the Golden State Freeway (I-5) and south of the Foothill Freeway (I-210), produced fossil specimens of mastodon (*Mammut*), and horse (*Equus*), in fill dirt. Southwest of the proposed Project area, LACM 3397 produced fossil bison (*Bison*) at a 75 foot depth; LACM 7152 produced fossil mammoth (*Mammuthus*) and bison (*Bison*) in terrace deposits; and LACM 1733 produced fossil horse (*Equus*) at unknown depth (McLeod, 2016).

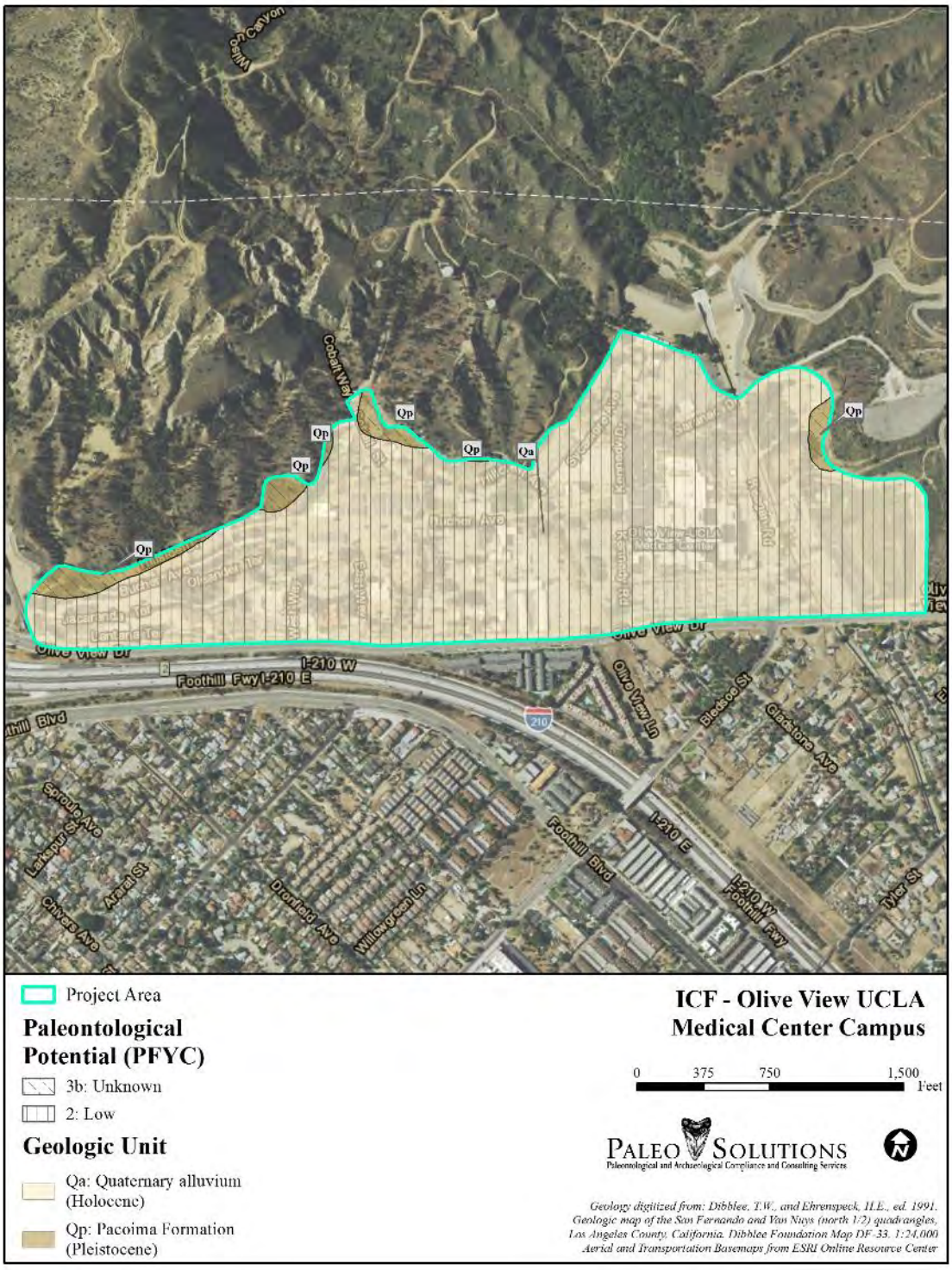

Figure 3. Geologic map.

7.0 RECONNAISSANCE SURVEY RESULTS

The survey area has a gentle southward slope and comprises relatively flat and low to low-moderate relief terrain with more moderate to high relief hills located along the northern margin. Vegetation cover on the ground and along slopes is moderate and comprises mostly dry tall grasses with some shrubs and larger trees. The majority of the survey area is moderately to well developed with disturbances such as grading, paved roads, fences, and buildings (see Figures 4, 5 and 9). Disturbances to the survey corridor along the northern margin of the survey area are more minimal but include grading, paved roads and lots, fences, and numerous old foundations, drainages, and structures (see Figures 6, 7, 8, 9, 11 and 12).

7.1 GEOLOGY

Pacoima Formation (Qp) sediments comprise moderately lithified siltstone and fine to medium grained sandstone with variable amounts of subangular to subrounded plutonic small pebble to cobble sized clasts. The matrix color is grey brown to red brown, and it weathers to light grey brown. Sediments appear massive, and no bedding or sedimentary structures were observed (see Figures 10-24). Material sorting varies from moderately sorted to poorly sorted. Coarser and more poorly sorted sediments were observed towards the western end of the survey area, while moderately sorted sections were observed throughout most of the other outcrops. Sediment outcrops occur along the slopes of the moderate to steep relief northern hills and in some low relief drainages (see Figures 10-18, 21-24, 26 and 27). Nearly vertical exposures range from ten to 50+ feet thick, with the largest exposures occurring near the western end of the survey area.

Quaternary alluvium (Qa) sediments comprise poorly compacted silt with subrounded to rounded plutonic granule to pebble sized clasts. These younger looser sediments cover the majority of the survey area surface, and thin layers less than one foot thick cover the top of the exposed Pacoima Formation sediments (see Figures 24 and 25).

Areas mapped as Pacoima Formation (Qp) were confirmed to comprise older sediments than the lower lying areas mapped as Quaternary alluvium (Qa). One area mapped as Quaternary alluvium (Qa) appears to comprise Pacoima Formation (Qp) sediments, based on the moderate relief and similarities of lithologies to Qp sediments observed in the northwestern and eastern margins of the survey area (see Figures 26 and 27). This area is located near the site entrance along Cobalt Street and is shown circled in Figure 28.

7.2 PALEONTOLOGY

No paleontological resources were observed during the survey. Although sediments conducive to fossil preservation were observed.

Figure 4. South-central end of the survey area, located north of Olive Drive Road. Area is mapped as Qa and is relatively flat, low lying and has disturbances including grading, paved roads and lots, fences, and buildings. View west.

Figure 5. Flat and relatively low lying interior survey area, mapped as Quaternary alluvium (Qa). This area is moderately to highly developed including disturbances such as paved roads, fences, lights, and buildings. View west.

Figure 6. Disturbed Qp area, including grading, fencing, a paved road and remnants of a stone structure. View north.

Figure 7. Area mapped as Pacoima Formation (Qp) showing grading disturbances and an installed artificial drainage.

Figure 8. Northern margin of the survey area, mapped as Pacoima Formation (Qp), showing disturbances such as grading, paved roads, and fences. View west.

Figure 9. Northern margin of survey area, showing transition from major disturbances and minor disturbances (right and left sides, respectively). View east.

Figure 10. Exposed Pacoima Formation (Qp) sediments along slopes at the eastern margin of the survey area. View north.

Figure 11. Exposed Pacoima Formation (Qp) sediments along slopes adjacent to the survey area. Lower lying flat and paved area is mapped as Quaternary alluvium (Qa). View north.

Figure 12. Graded area mapped as Pacoima Formation (Qp), showing Quaternary alluvium (Qa) in the lower flat area (bottom of photo) and partially exposed Qp sediments along the hillside (center of photo). View north.

Figure 13. Vertical exposure of Pacoima Formation (Qp) sediments. Sparse to moderate vegetation coverage along slope exposures. View west.

Figure 14. Located near the western end of the survey area, this is the largest (~50+ feet thick) exposure of Pacoima Formation (Qp) observed. View northwest.

Figure 15. Exposed Pacoima Formation (Qp) sediments, comprising reddish brown colored moderately to poorly sorted siltstone to medium grained sandstone with subangular to subrounded plutonic pebble to cobble sized clasts. View southwest.

Figure 16. Exposed Pacoima Formation (Qp) sediments, comprising reddish brown colored moderately to poorly sorted siltstone to medium grained sandstone with subangular to subrounded plutonic pebble to cobble sized clasts. View northeast.

Figure 17. Graded area mapped as Pacoima Formation (Qp) with exposed Qp sediments along the upper hillside. View north.

Figure 18. Exposed Pacoima Formation (Qp) sediments comprising massive poorly sorted silt to medium sandstone with subangular to subrounded plutonic pebble to cobble sized clasts. View north.

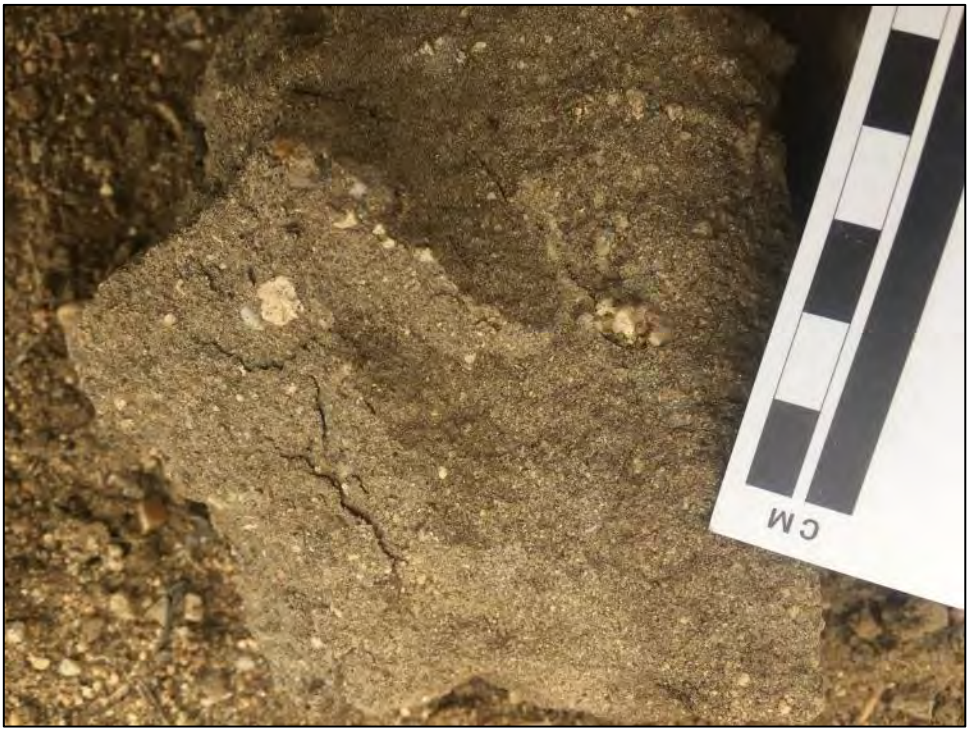

Figure 19. A clasts of Pacoima Formation (Qp) comprising moderately lithified and moderately sorted siltstone and medium grained sandstone with subangular to subrounded plutonic granule to pebble sized clasts. View down.

Figure 20. A clasts of Pacoima Formation (Qp) comprising moderately lithified and moderately sorted siltstone and medium grained sandstone with subangular to subrounded plutonic granule to pebble sized clasts. View down.

Figure 21. Exposed Pacoima Formation (Qp) sediments comprising massive poorly sorted silt to medium sandstone with subangular to subrounded plutonic pebble to cobble sized clasts. View west.

Figure 22. Exposed Pacoima Formation (Qp) sediments comprising massive moderately sorted silt to medium sandstone with subangular to subrounded plutonic granule to pebble sized clasts. View northeast.

Figure 23. Low relief wash exposing Pacoima Formation (Qp) sediments. View north.

Figure 24. Pacoima Formation (Qp) sediments exposed shallowly below Quaternary alluvium (Qa). View north.

Figure 25. Quaternary alluvium (Qa) comprising silt with subrounded to rounded granule to pebble sized plutonic clasts. Qa is mapped across the majority of the survey area and also covers much of the Qp sediments. View down.

Figure 26. Mapped as Quaternary alluvium (Qa), the moderate relief and exposed moderately lithified sediments indicates that this may be Pacoima Formation (Qp). View south.

Figure 27. Mapped as Quaternary alluvium (Qa), the moderate relief and exposed moderately lithified sediments indicates that this may be Pacoima Formation (Qp).

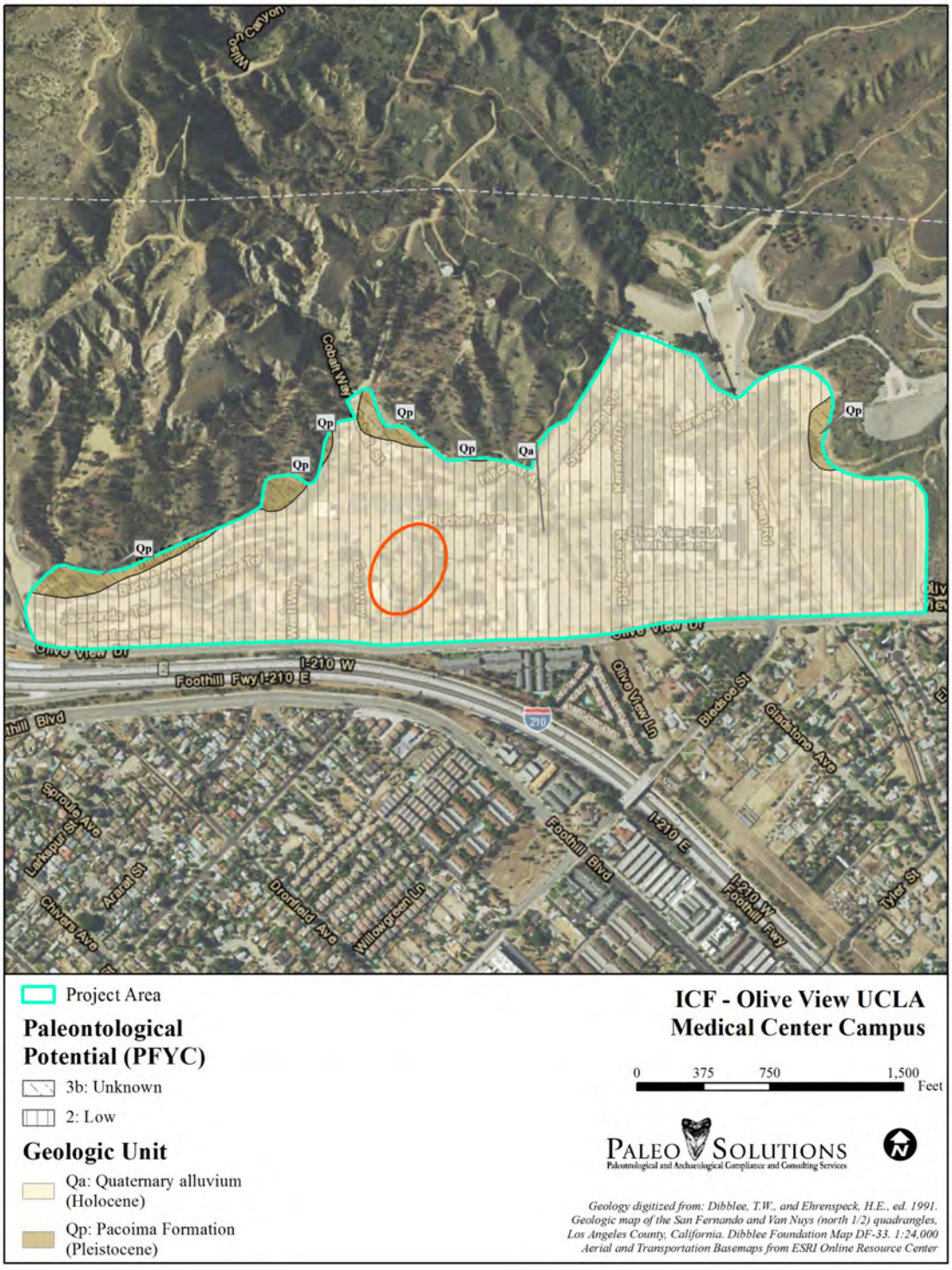

Figure 28. Olive View Medical Center Survey map. The orange circle is where Pacoima Formation (Qp) sediments were observed in the area mapped as Quaternary alluvium (Qa).

8.0 RESOURCE ASSESSMENT

Based on the results of the geologic map review, literature and museum records searches, and reconnaissance survey, the paleontological potential of the geologic units within the Project site were ranked using the Potential Fossil Yield Classification (PFYC) System.

8.1 PALEONTOLOGICAL POTENTIAL CLASSIFICATION CRITERIA

The PFYC system was developed by the BLM (BLM, 2007). It is a predictive resource management tool that classifies geologic units on their likelihood to contain paleontological resources on a scale of 1 (very low potential) to 5 (very high potential). This system is intended to aid in predicting, assessing, and mitigating paleontological resources.

Class 1 – Very Low
Potential to find paleontological resources is highly unlikely and mitigation is usually unnecessary. Units are typically igneous, metamorphic, or at least Precambrian in age.

Class 2 – Low
Low likelihood of finding vertebrate or significant invertebrate or plant fossils, and mitigation is usually unnecessary. Units are sedimentary and usually younger than 10,000 years old.

Class 3b – Unknown
Includes sedimentary units that have unknown potential, but exhibit conditions in which significant fossils could be preserved. Mitigation concerns are moderate, and surface disturbing activities may need to be assessed due to their potential to impact paleontological resources.

Class 3a – Moderate
Includes sedimentary geologic units that are known to have vertebrate fossils and scientifically significant invertebrate or plant fossils, but occurrences are widely scattered. Mitigation concerns are moderate, and surface disturbing activities may need to be assessed due to their potential to impact paleontological resources.

Class 4 – High
Significant fossils occur often and potential to adversely impact paleontological resources is high. A field survey is usually required to assess the impact of the proposed action, and planning of resource preservation and conservation should be considered. Construction activities may require onsite monitoring or spot-checking.

Class 5 – Very High
Geologic units are highly fossiliferous with vertebrate or scientifically significant invertebrate or plant fossils. The potential to impact significant fossils is high, and a field survey by a qualified paleontologist is typically required before the proposed ground disturbance occurs. On-site monitoring of construction activities is usually necessary.

8.2 SENSITIVITY OF GEOLOGICAL UNITS

According to the records searches conducted by LACM and Paleo Solutions staff, there are four previously recorded fossil localities from older Quaternary (Pleistocene) alluvium, similar in both age and composition to the Pacioma Formation, in the vicinity of the Project site. Additional fossil resources have not been recorded from the surrounding Pacoima Formation or Quaternary (Holocene) alluvium (McLeod, 2016; UCMP, 2016; PBDB, 2016).

Based on PFYC guidelines applied to the results of the literature review, records search, and survey completed for this study, the Pacoima Formation has moderate potential (PFYC 3a) for paleontological resources in the vicinity of the Project site based on the generally fine to medium grained nature of the sediments observed during the survey (see Section 7), and the report of significant Pleistocene fossils from similar alluvial deposits in the vicinity (McLeod, 2016). Previously disturbed areas and areas mapped as Quaternary alluvium have low potential (PFYC 2) for paleontological resources at the surface due to their young age, but may shallowly overlie older paleontologically sensitive deposits.

9.0 IMPACTS TO PALEONTOLOGICAL RESOURCES

Ground disturbance in geologic units and geographic areas known to contain scientifically significant fossils may produce adverse impacts to nonrenewable paleontological resources (State CEQA Guidelines, 14 CCR Sections 15064.5[3] and 15023; State CEQA Guidelines Appendix G, Section V, Part C).

Direct impacts to paleontological resources concern the physical destruction of fossils, usually by human-caused ground disturbance. Indirect impacts to paleontological resources typically concern the loss of resources to theft and vandalism resulting from increased public access to paleontologically sensitive areas. Cumulative impacts to paleontological resources concern the incremental loss of these nonrenewable resources to society as a whole.

Surface grading or shallow excavations in the uppermost few feet of the younger Quaternary alluvium in the proposed Project area are unlikely to uncover significant fossil vertebrate remains. However, deeper excavations in the proposed Project area that extend down into older sedimentary deposits, as well as any excavations in the Pacoima Formation in the northern margin of the proposed Project area, may well encounter significant vertebrate fossils (McLeod, 2016). Therefore, grading and other earthmoving activities may potentially result in significant direct impacts to paleontological resources throughout the entirety of the Project site.

10.0 RECOMMENDATIONS

Due to the moderate paleontological potential of the Pacoima Formation, and the potential for Quaternary alluvium to produce significant paleontological resources at depth, mitigation of potential adverse impacts resulting from construction-related ground disturbance is recommended. It is recommended that monitoring be performed during earthmoving activities impacting native sediments of the Pacoima Formation to reduce potential impacts to a less than significant level. Additionally, periodic paleontological spot checks should initially be

conducted when excavation exceeds depths of five feet into areas mapped as Quaternary alluvium to determine if older, paleontologically sensitive sediments are present. If present, monitoring should be implemented. Prior to the start of construction a paleontological resources monitoring plan should be prepared and implemented by a qualified paleontologist. The plan should include specific locations and construction activities requiring monitoring, procedures to follow for monitoring and fossil discovery, and a curation agreement with LACM.

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12.0 APPENDIX A

NATURAL HISTORY MUSEUM OF LOS ANGELES COUNTY RECORDS SEARCH RESULTS

Natural History Museum
of Los Angeles County
900 Exposition Boulevard
Los Angeles, CA 90007
tel 213.763.DINO
www.nhm.org

Vertebrate Paleontology Section
Telephone: (213) 763-3325
Fax: (213) 746-7431
e-mail: smcleod@nhm.org

16 May 2016

Paleo Solutions, Inc.
911 South Primrose Avenue, Unit N
Monrovia, CA 91016

Attn: Paul Nesbit, GIS specialist

re: Paleontological resources for the proposed ICF Olive View - UCLA Medical Center Project, in the Community of Sylmar, Los Angeles County, project area

Dear Paul:

I have conducted a thorough search of our paleontology collection records for the locality and specimen data for the proposed ICF Olive View - UCLA Medical Center Project, in the Community of Sylmar, Los Angeles County, project area as outlined on the portion of the San Fernando USGS topographic quadrangle map that you sent to me via e-mail on 2 May 2016. We do not have any vertebrate fossil localities that lie directly within the proposed project area, but we do have localities nearby from the same sedimentary deposits that occur as subsurface deposits in the proposed project area.

Surface deposits in the almost all of the proposed project area consist of younger Quaternary Alluvium, derived as alluvial fan deposits from the San Gabriel Mountains adjacent to the north. These younger Quaternary surface deposits typically do not contain significant vertebrate fossils in the uppermost layers, but older Quaternary deposits found at depth may well contain significant vertebrate fossil remains. In the northern margin of the proposed project area there are older Quaternary deposits derived from the San Gabriel Mountains that may be referred to as the Pacoima Formation in this area. We have no vertebrate fossil localities identified as coming from the Pacoima Formation, but similar older Quaternary deposits nearby have produced significant fossil vertebrate remains.

Inspiring wonder, discovery and responsibility for our natural and cultural worlds.

Our closest vertebrate fossil locality from these deposits is LACM 5745, south of west of the proposed project area just east of the Golden State Freeway (I-5) and south of the Foothill Freeway (I-210), that produced fossil specimens of mastodon, *Mammut*, and horse, *Equus*, in fill dirt. Our next closest fossil vertebrate localities in these Quaternary deposits occur at or near the Van Norman Reservoir, southwest of the proposed project area. These localities include LACM 3397 that produced fossil bison, *Bison*, at a seventy-five foot depth, LACM 7152 that produced fossil mammoth, *Mammuthus*, and bison, *Bison*, in terrace deposits and LACM 1733 that produced fossil horse, *Equus*, at unknown depth.

Surface grading or shallow excavations in the uppermost few feet of the younger Quaternary Alluvium in the proposed project area are unlikely to uncover significant fossil vertebrate remains. Deeper excavations in the proposed project area that extend down into older sedimentary deposits, however, as well as any excavations in the older Quaternary deposits in the northern margin of the proposed project area, may well encounter significant vertebrate fossils. Any substantial excavations in the proposed project area, therefore, should be closely monitored to quickly and professionally collect any specimens without impeding development. Also, sediment samples should be collected and processed to determine the small fossil potential in the proposed project area. Any fossils recovered during mitigation should be deposited in an accredited and permanent scientific institution for the benefit of current and future generations.

This records search covers only the vertebrate paleontology records of the Natural History Museum of Los Angeles County. It is not intended to be a thorough paleontological survey of the proposed project area covering other institutional records, a literature survey, or any potential on-site survey.

Sincerely,

Samuel A. McLeod, Ph.D.
Vertebrate Paleontology

enclosure: invoice

Appendix G

Hazardous Material Assessment

PHASE I
HAZARDOUS MATERIALS ASSESSMENT
OLIVE VIEW-UCLA MEDICAL CENTER
14445 OLIVE VIEW DRIVE
SYLMAR, CALIFORNIA

DRAFT

PREPARED FOR:
ICF International
601 West Fifth Street, Suite 900
Los Angeles, California 90071

PREPARED BY:
Ninyo & Moore
Geotechnical and Environmental Sciences Consultants
475 Goddard, Suite 200
Irvine, California 92618

March 11, 2016
Project No. 209600001

March 11, 2016
Project No. 209600001

Mr. Lee Lisecki, Project Manager
ICF International
601 West Fifth Street, Suite 900
Los Angeles, California 90071

Subject: Phase I Hazardous Materials Assessment
Olive View-UCLA Medical Center
14445 Olive View Drive
Sylmar, California

Dear Mr. Lisecki:

DRAFT

In accordance with our proposal dated February 2, 2015, Ninyo & Moore has performed a Phase I Hazardous Materials Assessment of the above-referenced property (site). The attached report presents our methodology, findings, opinions, and conclusions regarding the environmental conditions at the site.

We appreciate the opportunity to be of service to you on this project.

Sincerely,
NINYO & MOORE

Dennis Fee
Staff Environmental Engineer

Patrick Cullip
Project Engineer

Anthony Lizzi, PG, CHG
Principal Geologist

DWF/PJC/AJL/sc

Distribution: (1) Addressee (via e-mail)

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1. INTRODUCTION

ICF International (ICF) authorized Ninyo & Moore to perform a Phase I Hazardous Materials Assessment (HMA) of the Olive View-UCLA Medical Center at 14445 Olive View Drive in the city of Sylmar, California (site; Figure 1). The HMA was conducted in general accordance with Ninyo & Moore's proposal dated February 2, 2015. The following sections identify the purpose, involved parties, scope of services, and limitations and exceptions associated with the HMA.

1.1. Purpose

The purpose of this HMA was to evaluate, in general accordance with the process described in ASTM International (ASTM) Practice E1527-13, recognized environmental conditions (RECs), which are defined by ASTM as "the presence or likely presence of any hazardous substance or petroleum products in, on, or at a property: (1) due to a release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment."

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As defined in ASTM E1527-13, de minimis conditions are not considered RECs. A de minimis condition is defined as "a condition that generally does not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies."

Identification of RECs fall into three categories: existing RECs (as defined above); Historical RECs (HRECs); or Controlled RECs (CRECs).

- HREC – A HREC is defined as "a past release of any hazardous substance or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls (for example, property use restrictions, activity and use limitations [AULs], institutional controls, or engineering controls)."

- CREC – A CREC is defined as "recognized environmental conditions resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for

example, property use restrictions, AULs, institutional controls, or engineering controls)."

Information herein is intended to aid ICF during their preparation of environmental documents for the Olive View-UCLA Medical Center project.

1.2. Involved Parties

Mr. Dennis Fee of Ninyo & Moore conducted the site reconnaissance on February 16, 2016. Mr. Fee also performed historical research, document review, and prepared this report. Mr. Patrick Cullip and Mr. Anthony Lizzi of Ninyo & Moore performed project oversight and quality review.

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1.3. Scope of Services

Ninyo & Moore's scope of services for this HMA includes the activities listed below.

- Perform a site reconnaissance to visually identify areas of possibly contaminated surficial soil or surface water, improperly stored hazardous materials, possible sources of polychlorinated biphenyls (PCBs), and possible risks of contamination from activities at the site and adjacent properties.

- A site vicinity reconnaissance to evaluate characteristics of adjacent properties for possible environmental influences on the site. Properties adjoining the project site were visually evaluated from public rights-of-way only.

- Review available regulatory agency databases for the site and for properties located within a specified radius of the site. The purpose of this review was to evaluate the possible environmental impact to the site. These databases list locations of known hazardous waste sites, landfills, leaking underground storage tanks (LUSTs), permitted facilities that utilize underground storage tanks (USTs), and facilities that use, store, or dispose of hazardous materials.

- Review readily available environmental documents dealing with previous hazardous waste investigations conducted at the site, if provided by the client.

- Evaluate the potential for the presence of methane in soil gas beneath the site through research of governmental maps.

- Evaluate the potential for the presence of impacted groundwater through review of readily available State Water Resources Control Board's GeoTracker (GeoTracker) and EnviroStor websites for existing reports of impacted groundwater in the site vicinity.

- Perform a review of the historical land use of the proposed Project to provide an overview of past uses that likely involved the use or storage of hazardous materials.
- Develop preliminary mitigation alternatives for hazardous materials issues which may impact the project site.
- Prepare this HMA report documenting findings and providing opinions and conclusions regarding possible environmental impacts at the site.

1.4. Limitations and Exceptions

The environmental services described in this report have been conducted in general accordance with current regulatory guidelines and the standard of care exercised by environmental consultants performing similar work in the project area. No warranty, expressed or implied, is made regarding the professional opinions presented in this report. Please note that this study did not include an evaluation of geotechnical conditions or potential geologic hazards. In addition, it should be noted that this HMA does not include analysis of the following: asbestos-containing materials (ACMs), radon, lead-based paint (LBP), lead in drinking water, wetlands, regulatory compliance, cultural and historic resources, industrial hygiene, health and safety, ecological resources, endangered species, indoor air quality, and high voltage power lines.

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This document is intended to be used only in its entirety. No portion of the document, by itself, is designed to completely represent any aspect of the project described herein. Ninyo & Moore should be contacted if the reader requires any additional information or has questions regarding the content, interpretations presented, or completeness of this document.

Our findings, opinions, and conclusions are based on an analysis of the observed site conditions and the referenced literature. It should be understood that the conditions of a site can change with time as a result of natural processes or the activities of man at the subject site or nearby sites. In addition, changes to the applicable laws, regulations, codes, and standards of practice may occur due to government action or the broadening of knowledge. The findings of this report may, therefore, be invalidated over time, in part or in whole, by changes over which Ninyo & Moore has no control. Ninyo & Moore cannot warrant or

guarantee that not finding indicators of any particular hazardous material means that this particular hazardous material or any other hazardous materials do not exist on the site. Additional research, including invasive testing, can reduce the uncertainty, but no techniques now commonly employed can eliminate the uncertainty altogether.

1.5. User Reliance

This report may be relied upon and is intended exclusively for use by the client. Any use or reuse of the findings, opinions, and/or conclusions of this report by parties other than the client is undertaken at said parties' sole risk.

1.6. Physical Limitations

Major physical limitations were not encountered during the site reconnaissance. Areas inspected during the site reconnaissance were limited to locations with hazardous materials. Individual office buildings were not inspected during the site reconnaissance unless they contained hazardous materials, as reported by the site contact above (Section 3). Certain areas were locked and not accessible at the time of site reconnaissance, such as the Los Angeles Department of Water and Power (LADWP) substation located along Reagan Road, and a crate for storing universal waste. These are considered physical limitations.

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1.7. Data Gaps

Data gaps were not encountered during this HMA.

2. GENERAL SITE CHARACTERISTICS

The following sections describe the location and the current uses of the site. The uses of adjacent properties are also described.

2.1. Location

The site is an approximately 235-acre, irregularly-shaped property at 14445 Olive View Drive in the city of Sylmar, California (Figure 1). The site is occupied by the Olive View-UCLA Medical Center.

2.2. Current Title Information

A Title Report was not provided to Ninyo & Moore for review.

2.3. Adjacent Properties

Table 1 lists the properties adjoining the site and associated land use. The general site surrounding includes residential properties to the east, west, and south of the site, and vacant hills to the north.

Table 1 – Adjacent Properties

Location	Current Occupant(s)
North	Foothills of the San Gabriel Mountains, vacant land
South	Olive View Drive, beyond which mostly residential, some commercial properties, and the 210 Freeway.
East	Residential properties
West	

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2.4. Site Description and Current Site Uses/Operations

The following paragraphs present a description of the structures present at the site, the tenants currently occupying the site, if any, the activities being conducted on-site, the heating and cooling systems utilized in the site buildings, the sewage disposal system, and the potable water provider for the site.

2.4.1. Site Description

The Olive View-UCLA Medical Center property is an approximately 235-acre parcel of land (Figure 2), occupied with the Olive View-UCLA Medical Center (hospital), community mental health center, office and administrative buildings, residential structures (office use), storage buildings, a hazardous waste storage area, a helipad, a power plant, police and fire department, parking lots, and multiple roads.

2.4.2. Occupants

The site is currently occupied by the Olive View-UCLA Medical Center and its associated facilities described above.

2.4.3. Heating and Cooling Systems

Heating and cooling systems are powered by electricity and natural gas. LADWP provides electricity to the site. Natural gas is provided to the site by the Southern California Gas Company. Cooling towers (see Figures 2 and 3) provide water for cooling the equipment of the Central Utility Plant.

2.4.4. Sewage Disposal/Septic Systems

The Los Angeles Department of Public Works (LADPW) provides sewage disposal to the site.

2.4.5. Potable Water

The LADWP provides potable water to the site.

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3. SITE RECONNAISSANCE

On February 16, 2016, Mr. Dennis Fee of Ninyo & Moore conducted a site reconnaissance. The reconnaissance involved a visit to the site and visual observations of adjoining properties (from public thoroughfares). Weather conditions were sunny and clear at the time of the site reconnaissance. Selected photographs taken during the site reconnaissance are included in Appendix A. Mr. Frank Colbert, the Safety and Security Director of the Office of Environmental Health and Safety, provided information on hazardous waste storage throughout the hospital and associated facility grounds.

3.1. Physical Limitations

Major physical limitations were not encountered during the site reconnaissance. Areas inspected during the site reconnaissance were limited to locations with hazardous materials. Individual office buildings were not inspected during the site reconnaissance unless they contained hazardous materials, as reported by the site contact above (Section 3). Certain areas were locked and not accessible at the time of site reconnaissance, such as the LADWP substation located along Reagan Road, and a crate for storing universal waste. These are considered physical limitations.

3.2. Use and Storage of Hazardous Substances and Petroleum Products

Hazardous materials were observed in and around the loading dock area of the site. Detailed information can be found in Table 2. Significant evidence of releases or spills was not observed at these areas and is therefore not considered an environmental concern.

Table 2 – Hazardous Materials Storage

Building	Location	Storage	Quantity	Contents	Comments
Hospital	Loading Dock	USTs	Two 20,000 gallon tanks	Diesel	See Section 3.5
		Outside, with secondary containment	Six 55-gallon drums	Jet Fuel	Used for turbines
			One 55-gallon drum	Cleaner/degreaser	
			Four 55-gallon drums	Waste oil	
		Inside gated enclosure	24 cylinders (each ~150 ft^3)	Compressed nitrogen	Used to maintain a nitrogen blanket in water tanks
		Inside storage container	Eight 55-gallon drums	Motor oil	
			12 5-gallon buckets	Turbine oil	
		Biohazard room	Variable	Sharps, chemotherapy waste, and other unidentifiable biohazard waste	Temporary storage area before waste is transported off site
		Medical gas storage room	Variable number and size of tanks	Carbon dioxide, oxygen, nitrogen, helium, argon, nitrous oxide,	Primarily used for patient care
	Central Utility Plant	Emergency Generator Room	Two 100-gallon tanks	Engine oil	
			One 55-gallon drum	Diesel oil	
		Turbine Room, with secondary containment	Two 55-gallon drums	Jet fuel	
			One 55-gallon drum	Waste oil	
		Turbine Room	13 55-lb cylinders	Compressed refrigerant	Used for evaporator
	Pathology Lab, 1st floor of hospital	Locked closet	~ 10 1-gallon containers	Paraffin Waste	Provided on hospital waste manifest
			~70 1-gallon containers, 2 55-gallon drums	Xylene	
			Four 55-gallon drums	Ethyl alcohol	
			Two 55-gallon drums	Formaldehyde	
			~25 1-gallon containers	Methanol	
Cooling Towers	Outside, within fenced enclosure	ASTs	Two tanks (one ~400 gallons, one ~5,000 gallons)	Liquid oxygen	See section 3.5
		Outside, within fence	30 150 ft^3 cylinders	Nitrous oxide	
			12 cylinders, 3 drums	Nalco Water Treatment Products	Treats water at the cooling tower, prevents corrosion

Notes:
UST – underground storage tank
AST – above-ground storage tank
ft^3 – cubic feet
lb – pound

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3.3. Storage and Disposal of Hazardous Wastes

Oils and lubricants used for the turbine and generator of the hospital are stored under secondary containment at the loading dock of the hospital. Hazardous biomedical waste generated by the hospital is stored at the biomedical waste storage room at the loading dock of the hospital. The biomedical waste is stored in an autoclave before transportation off-site. The Pathology Department, on the first floor of the hospital, uses hazardous waste in its lab. The waste, such as xylenes, alcohols, and paraffin waste, is stored in a closet with restricted access. When there is an overflow of hazardous waste at the hospital, the waste is stored at a hazardous waste storage area in the front of the vivarium (Figure 2). Staining or signs of release were not observed in or adjacent to the hazardous waste storage areas. Hazardous waste is transported off-site and disposed of by a licensed facility.

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Copies of the hazardous waste manifests for the hospital from 2015 are provided in Appendix B. A total of 104 manifests of hospital derived waste are presented. The hazardous wastes on the manifests include chemicals such as soda lime, flammable liquids (xylene, alcohol, ethanol, phenol), flammable solids (paraffin wax, carbon filters), acids, and waste oxidizing liquids. The final manifest page contained in Appendix B is hazardous waste derived from the Central Utility Plant for 2015. In 2015, 165 gallons of used motor, transmission, and hydraulic oils were transported off-site according to the manifest.

3.4. Unidentified Substance Containers

Unidentified substance containers were not observed during our site reconnaissance.

3.5. Aboveground and Underground Storage Tanks (ASTs and USTs)

Two 100-gallon ASTs containing engine oil were observed at the emergency generator room of the Central Utility Plant. Two liquid oxygen ASTs, 5,000- and 400 gallon-capacities, were observed at the cooling towers of the site.

Two 20,000-gallon diesel USTs were observed at the loading dock of the hospital. The diesel fuel is used to power much of the machinery operating in the Central Utility Plant. Other USTs were not observed during the site reconnaissance.

3.6. Evidence of Releases

Evidence of chemical releases on site (i.e., odors, stressed vegetation, stains, leaks, pools of liquids, and spills) was not observed during our site reconnaissance.

3.7. Polychlorinated Biphenyls (PCBs)

Electrical transformers can be a source of PCBs. The main electrical feed to the hospital, a LADWP substation located along Reagan Road, contains electrical transformers according to Mr. Frank Colbert. The building was inaccessible at the time of site reconnaissance. The station directs electricity to the Central Utility Plant, where it is diverted across different sections of the hospital to electrical substations. During site reconnaissance, Substation B in the hospital was inspected. Transformers were in good working condition and stains or other signs of release were not observed on the ground surface.

Pad-mounted transformers were observed along Cobalt Street at the western section of the site. These transformers provide the electrical feed to the site grounds west of the main hospital building. Staining or signs of release were not observed.

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3.8. Suspect Asbestos-Containing Materials (ACMs) and Lead-Based Paint (LBP)

Based on the construction date of many of the site buildings (prior to 1980), ACMs and LBP may be present on building materials at the site. A Hazardous Building Materials Survey (HBMS) should be conducted for buildings that are planned to be demolished.

3.9. Wastewater Systems

One four-stage clarifier of unknown capacity was observed at the loading dock of the site. According to the site contact, Mr. Frank Colbert, the clarifier treats wastewater created from the sorption unit of the central utility plant. Other wastewater systems were not observed at the site during the site reconnaissance.

3.10. Storm Water Systems

Storm water catch basins and drains were observed throughout the site during the site reconnaissance. Storm water channels trending north-south were observed at the western and eastern ends of the site. Staining was not observed at the catch basins, drains, or channels.

3.11. Wells

Wells were not observed on the site during the site reconnaissance.

3.12. Signs of Previous Environmental Investigations

Signs of previous environmental investigations were not observed during the site reconnaissance.

3.13. Other On-Site and Off-Site Potential Environmental Concerns (PECs)

On or off-site PECs were not observed.

4. PHYSICAL SETTING

The following sections discuss the topography, geology, and hydrology at the site.

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4.1. Site Topography

Based on the review of the United States Geological Survey (USGS) 7.5 Minute Series, San Fernando, California, Topographic Quadrangle Map, dated 2012, the site is situated at an approximate surface elevation of between 1,400 and 1,500 feet above mean sea level. The northern section of the site slopes steeply towards the south because of its proximity to the San Gabriel Mountains to the north. The general site vicinity slopes towards the south.

4.2. Geology

The site is located within the Transverse Ranges Geomorphic Province (Norris & Webb, 1977). Locally, the site is situated within the northern portion of the San Fernando Valley (SFV). The SFV is bounded by the San Gabriel Mountains to the northeast; the Santa Susana Mountains to the northwest; the Verdugo Mountains to the east; the Santa Monica Mountains to the south; and the Simi Hills to the west. The site vicinity is generally underlain by Holocene alluvial fan deposits consisting of sand and silty sand with moderate clay, as well as Late-Pleistocene poorly-consolidated conglomerate and sandstone in the San Gabriel foothills (Hitchcock, 2000).

4.3. Site Hydrology

The following sections discuss the site hydrology in terms of both surface waters and groundwater.

4.3.1. Surface Waters

Natural surface waters are not located on the site. The Upper Van Norman Lake is located approximately 2.7 miles southwest of the site.

4.3.2. Groundwater

Recent groundwater information for the site was not immediately available. Ninyo & Moore reviewed the GeoTracker website for groundwater information in the site vicinity. According to the First Semiannual Groundwater Monitoring Report, 2015 (Geo-Logic Associates, 2015), groundwater was measured at the Sunshine Canyon/County Landfill approximately 3.5 miles west and crossgradient of the site in June 2015. Depth to water beneath the site ranged between 5.57 to 151.25 feet below top of casing, with groundwater generally flowing to the southeast consistent with the surrounding topography.

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5. HISTORICAL LAND USE

Historical aerial photographs, fire insurance rate maps, historical topographic maps, and oil and gas maps were reviewed as part of Ninyo & Moore's HMA for the site.

5.1. Historical Aerial Photographs

Historical aerial photographs for selected years between 1928 and 2012 were provided by Environmental Data Resources, Inc. (EDR). A summary of the aerial photograph review is presented in following table.

Table 3 – Aerial Photo Review

Year	Site	Adjacent Areas
1928	The site is developed with structures potentially related to the hospital. Roadways traverse across the site. The southeastern portion of the aerial photograph is washed out and illegible.	Undeveloped land to the north, agricultural land, likely olive groves, to the south.
1938	The site appeared similar to that observed in the 1928 aerial photograph.	The site vicinity appeared similar to that observed in the 1928 aerial photograph.
1947 1952 1965		More residential structures appear to the south.
1976	A large portion of land on the eastern end of the site appeared to be graded. Several structures on the western end of the site appeared to be demolished	Additional residential properties appeared to the south.
1981	Hospital appeared under development.	
1989	Parking lots, additional structures, and the cooling towers appeared around the hospital	
1994	The site appeared similar to that observed in the 1989 aerial photograph.	Area to the west and east of the site viewable; channel, beyond which was residential properties. Adjacent areas to the north, south, and east appeared similar to that observed in the 1989 aerial photograph.
2002		The site vicinity appeared similar to that observed during the site reconnaissance.
2005		
2009	Signs of construction appeared to the north of the hospital.	
2010		
2012	Emergency services center appeared directly north of the hospital.	

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The 1928 photograph showed the site as developed with multiple structures connected by roadways, likely related to the hospital. This remained relatively unchanged up to at least 1976. The hospital appeared under development in the 1981 aerial photograph. Parking lots, additional structures, and the cooling towers appeared adjacent to the hospital in the 1989 aerial photograph. The surrounding properties to the south were developed with agricultural land from at least 1928 until 1976. Residential structures began appearing to the south in the 1947 aerial photograph and continued to overtake the agricultural land until 1976. From 1976 to the present the adjacent land to the south was predominantly residential. The land to the north was unoccupied from at least 1928 to the present. Land to the east and west was viewable in the 1994 aerial photograph, which showed mainly residential structures. A copy of the aerial photographs is provided in Appendix C.

5.2. Fire Insurance Rate Maps

Sanborn Fire Insurance maps for the years 1940 and 1954 were provided by EDR. The maps include illustrations and descriptions of streets, structures such as dormitories and offices, athletic facilities, and storm drains. The information provided in the Sanborn Fire Insurance Maps does not indicate a REC for the site. A copy of the Sanborn Fire Insurance Rate Map Report is provided in Appendix C.

5.3. City Directories

Ninyo & Moore reviewed the EDR Historical City Directory Abstract which included information from select historical city directories for the years 1920 through 2013. Table 6 presents the listings found under the site addresses. City directories are provided in Appendix C.

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Table 4 – Historical City Directory Listings

Year	Site Address	Listing
1975	14445 Olive View Drive	Children's Outpatient Mental Health Day Treatment Center Olive View Community Mental Health Center Olive View Medical Center Los Angeles County Psychiatric Outpatient Clinic
1980	14445 Olive View Drive	Los Angeles County of Hospitals Olive View Credit Union
1991	14445 Olive View Drive	Olive View Credit Union Olive View Medical Center LA County
1995	14445 Olive View Drive	Olive View Credit Union Olive View UCLA Medical Center
2004	14445 Olive View Drive	Olive UCLA Med Olive View Credit Union
2008	14445 Olive View Drive	UCLA MC Olive View UCLA Medical Center Peds Department UCLA SCH Medical Valley Care Olive View UCLA Child Development Consortium of Los Angeles Community Health Center County of Los Angeles David Talan MD Dem North Annex Building Health Science Library Insight Health Corporation LAC Olive View UCLA Medical Center Los Angeles County Hospitals Olive View Los Angeles Olive View Medical Center

Table 4 – Historical City Directory Listings

Year	Site Address	Listing
2008	14445 Olive View Drive	Morristown South Custom Management Neurological Department North Annex Olikhi Center for MRI Olive View Employees Federal Credit Olive View Hospital Olive View UCLA Education Olive View UCLA Medical Center Foundation Olive View UCLA Medical Center Rad Scis Regents of the University of California Servicon
2013	14445 Olive View Drive	County of Los Angeles Olive View Credit Union Olive View UCLA Medical Center

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Based on our historical city directory review, the site was occupied by a hospital and medical research facilities from at least 1975 to 2013 and a credit union from at least 1980. Adjoining properties included commercial properties, health clinics, and residential properties. The site information is not indicative of a REC.

5.4. Historical Topographic Maps

Historical topographic maps were provided by EDR and dated 1900, 1925, 1928, 1929, 1935, 1940, 1942, 1945, 1953, 1966, 1972, 1988, 1995, and 2012. The site appeared as undeveloped land in 1900. From at least 1925 through 1953, the site appeared developed with Olive View Sanatorium. The site was identified as the Olive View Hospital from at least 1966 to 2012. A copy of the EDR Historical Topographic Map Report is included in Appendix C.

5.5. Oil and Gas Maps

According to the State of California, Department of Conservation, Division of Oil, Gas, and Geothermal Resources (DOGGR), Well Finder website, the site does not lie within the administrative boundaries of an oil field. The site is not located within an oil field. According to DOGGR, the nearest oil well, operated by Oryx Energy Company,

approximately 1.20 miles west and cross-gradient of the site, was listed as a plugged and inactive well. This information is not indicative of a REC for the site.

6. ENVIRONMENTAL DATABASE SEARCH

A computerized, environmental information database search was performed by EDR on January 22, 2016. A copy of the EDR report is included in Appendix D.

The following paragraphs describe the databases that contain noted properties of environmental concern, and include a discussion of the regulatory status of the facilities and potential environmental impact to the subject site. Based on our review of the GeoTracker website operated by the Los Angeles Regional Water Quality Control Board (RWQCB) and hydrologic information contained on that website, discussed in Section 4.3.2 of this report, groundwater flow direction in the site vicinity is generally to the southeast.

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6.1. National Priorities List (NPL): Distance Searched – 1 mile

The NPL is the United States Environmental Protection Agency (EPA) database of uncontrolled or abandoned hazardous waste properties listed for priority remedial actions under the Superfund program.

Neither the site nor properties located within the searched distance were listed on this database.

6.2. Proposed and Delisted National Priorities List (NPL): Distance Searched – ¼ mile

The Proposed NPL database lists properties that are currently being evaluated for priority remedial actions for the Superfund program. The Delisted NPL database includes properties that are deleted from the NPL database based upon the National Oil and Hazardous Substances Pollution Contingency Plan. This deletion takes place after no further response to the NPL is appropriate.

Neither the site nor properties located within the searched distance were listed on either database.

6.3. Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) List: Distance Searched – ¼ mile

The CERCLIS database contains properties which are either proposed or on the NPL and properties which are in the screening and assessment phase for possible inclusion on the NPL.

Neither the site nor properties located within the searched distance were listed on this database.

6.4. CERCLIS/No Further Remedial Action Planned (NFRAP) List: Distance Searched – ¼ mile

CERCLIS sites designated as NFRAP have been removed from the CERCLIS database following an initial investigation where no contamination was found, contamination was removed quickly without the need for the site to be placed on the NPL, or the contamination was not serious enough to require Federal Superfund action or NPL consideration.

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Neither the site nor properties located within the searched distance were listed on this database.

6.5. Corrective Action Report (CORRACTS): Distance Searched – ¼ mile

The EPA maintains this database of Resource Conservation and Recovery Act (RCRA) facilities that are undergoing corrective action. A corrective action order is issued when a release of hazardous waste or constituents into the environment from a RCRA facility has occurred.

Neither the site nor properties located within the searched distance were listed on this database.

6.6. Resource Conservation and Recovery Act (RCRA) Treatment, Storage and Disposal (TSD) Facilities List: Distance Searched – ½ mile

The RCRA TSD database is a compilation by the EPA of facilities that report generation, storage, transportation, treatment, or disposal of hazardous waste.

Neither the site nor properties located within the searched distance were listed on this database.

6.7. Resource Conservation and Recovery Act (RCRA) Generators List: Distance Searched – Site and Adjacent

This list identifies sites that generate hazardous waste as defined by RCRA. Inclusion on this list is for permitting purposes and is not indicative of a release.

The site was listed on this database as a large quantity generator. Wastes stored on site include ignitable waste corrosive waste, and mercury. No violations were reported. Adjacent properties were not listed on this database.

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6.8. Emergency Response Notification System (ERNS) List: Distance Searched – Site

The ERNS database contains information of reported releases of oil and hazardous substances and is maintained by the EPA.

The site was not listed on this database.

6.9. United States Engineering Controls: Distance Searched – ¼ mile

This database is an EPA listing of facilities with engineering controls in place, such as various forms of caps, building foundations, liners, and treatment methods intended to eliminate pathways for regulated substances to enter environmental media or affect human health.

Neither the site nor properties located within the searched distance were listed on this database.

6.10. United States Institutional Controls: Distance Searched – ¼ mile

This database is an EPA listing of facilities with institutional controls in place, such as administrative measures, groundwater use restrictions, construction restrictions, property use

restrictions, and post remediation care requirements, intended to prevent exposure to contaminants remaining on site.

Neither the site nor properties located within the searched distance were listed on this database.

6.11. State Sites: Distance Searched – ¼ mile

The State Sites database consists of potential or confirmed hazardous substance release properties. Ninyo & Moore reviewed the State Response Sites database for this information.

The site was not listed on this database. One facility, Castle Precision Industries at 14148 Bledsoe Street, adjacent southeast and downgradient to the site was listed on this database. The facility is listed with a status of "refer: 1248 local agency" as of September 1, 2004. Other information was not provided.

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6.12. State CERCLIS: Distance Searched – ¼ mile

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's EnviroStor database identifies facilities that have known contamination of sites for which there may be reasons to investigate further.

Neither the site nor properties located within the searched distance were listed on this database.

6.13. Solid Waste Landfill Sites (SWL): Distance Searched – ¼ mile

The SWL database consists of open and closed solid waste disposal facilities and transfer stations. The data comes from the Integrated Waste Management Department's Solid Waste Information System database.

Neither the site nor properties located within the searched distance were listed on this database.

6.14. State Leaking Underground Storage Tank (LUST) Lists: Distance Searched – ¼ mile

Databases of the LUST information system are maintained by the California State RWQCBs.

The site address was not listed on this database. One facility, Los Angeles County Fire Station #04 at 14425 Olive View Drive was listed on this database. This facility is located in the south-central portion of the site (Figure 2).The facility status is currently listed as "leak being confirmed" affecting soil in 1995. Ninyo & Moore reviewed the GeoTracker website for additional information on the LUST case (Section 7.2). The LUST case was not listed on GeoTracker. The presence of a LUST case on the site is considered a PEC for the site.

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6.15. Underground Storage Tank (UST) Registration List: Distance Searched – Site and Adjacent

According to EDR, UST records are provided by the Department of Building and Fire Safety. Inclusion of facilities on this list does not necessarily indicate a release.

The site was listed on this database. Information regarding the capacity or contents of USTs was not provided. A listing on this database is not indicative of a release. Adjacent properties were not listed on this database.

6.16. Permitted Aboveground Storage Tank (AST) List: Distance Searched – Site and Adjacent

According to EDR, AST records are provided by the Department of Building and Fire Safety. Inclusion of facilities on this list does not necessarily indicate a release.

The site and adjacent properties were not listed on this database.

6.17. State Engineering Controls: Distance Searched – ¼ mile

This database is a California Environmental Protection Agency (Cal-EPA) listing of facilities with engineering controls in place, such as various forms of caps, building

foundations, liners, and treatment methods intended to eliminate pathways for regulated substances to enter environmental media or affect human health.

Neither the site nor properties located within the searched distance were listed on this database.

6.18. State Institutional Controls: Distance Searched – ¼ mile

This database is a Cal-EPA listing of facilities with institutional controls in place, such as administrative measures, groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements, intended on preventing exposure to contaminants remaining on site.

Neither the site nor properties located within the searched distance were listed on this database.

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6.19. Brownfields: Distance Searched – ¼ mile

This database is a DTSC tracking system of California Brownfields sites.

Neither the site nor properties located within the searched distance were listed on this database.

6.20. Voluntary Cleanup Program Sites: Distance Searched – ¼ mile

This database is a Cal-EPA listing of properties involved in the voluntary remediation program.

Neither the site nor properties located within the searched distance were listed on this database.

6.21. Indian Reservation: Distance Searched – ¼ mile

USGS map layer portrays Indian administered land within the United States with an area equal to or greater than 640 acres.

Indian reservation land was not found to be within the searched distance.

6.22. Indian Leaking Underground Storage Tank (LUST): Distance Searched – ½ mile

This database is maintained by the EPA of LUSTs on Indian land in the states of Arizona, California, New Mexico, and Nevada.

Neither the site nor properties located within the searched distance were listed on this database.

6.23. Indian Underground Storage Tank (UST): Distance Searched – ¼ mile

This database is a database maintained by the EPA of USTs on Indian land.

Neither the site nor properties located within the searched distance were listed on this database.

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6.24. Additional Databases: Distance Searched – Various

EDR searches several additional databases of potentially important information. These databases are outside the scope of the ASTM E1527-13 standard. The site was listed on the following non-ASTM databases: Statewide Environmental Evaluation and Planning System (SWEEPS) UST, California Hazardous Material Incident Report System (CHMIRS), US Aerometric Information Retrieval System (AIRS) Facility Subsystem (AFS), Facility Index System/Facility Registry System (FINDS), Emissions Inventory Data (EMI), Facility and Manifest Data (HAZNET), Los Angeles County Hazardous Waste Materials (HMS), and National Pollutant Discharge Elimination System (NPDES). The following is a summary of the information provided in the databases:

- SWEEPS UST – status listed as active on April 21, 1993.
- CHMIRS – Due to an employee error, 15 pounds of mercury was spilled into a drain at the Olive View Medical Center in 2005. The spill was cleaned up by a contractor
- AFS – the facility is listed on the state implementation plan for National Primary and Secondary Ambient Air Quality Standards. Compliance monitoring was conducted at the site from 1992 to 2015. Violations were not reported.
- FINDS – See Section 7.3.

- EMI – the site is listed from 2002 – 2013 under the South Coast Air Quality Management District (SCAQMD) for air emissions.

- HAZNET – the site has multiple listings from 1999, 2008, 2009, 2010, 2012, 2013, and 2014 of various materials, such as inorganic solid waste, organic solids, asbestos containing waste, waste oil, and pesticide waste being removed from the site under hazardous waste manifests.

- HMS – the site has an open listing and a closed listing. Additional information was not provided.

- NPDES – the site is listed from 2012 – 2015 for construction projects.

7. ONLINE ENVIRONMENTAL RECORDS REVIEW

Ninyo & Moore reviewed records from the DTSC EnviroStor website (EnviroStor), GeoTracker, the SCAQMD, and reports provided by the County of Los Angeles.

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7.1. Department of Toxic Substances Control (DTSC) EnviroStor website

Ninyo & Moore reviewed the DTSC EnviroStor website for information regarding the site address. According to the database, records were not available for the site address.

7.2. State Water Resources Control Board GeoTracker Website

Ninyo & Moore reviewed the SWRCB GeoTracker website for information regarding the site address. According to the database, records were not available for the site address.

7.3. South Coast Air Quality Management District

Ninyo & Moore reviewed the SCAQMD's Facility Information Detail Search website for permits regarding the site address. The following is a summary of our review.

The site address is listed as LA Co Engineer Facilities 003093 with a duplicate status and a description as a water supply. No equipment is listed for the facility and no notice of violations or notices to comply were reported. No emissions have been reported for the facility between the years 2000 and 2013.

The site address is also listed as LA Co., Olive View/UCLA Medical Center with an active status and is listed as office/clinics of medical doctors. Active permits for equipment

included: two turbine engine permits issued in 2012; two diesel electric generator permits issued in 1999; a paint and solvent spray booth application dated 1990; and an additional diesel electric generator permit issued in 1993. Inactive permits include those for turbine engines, ethylene oxide (ETO) sterilization hospitals, control ETO sterilization hospitals, gasoline storage tanks, fuel oil storage tanks, 51-100 pound an hour pathological incinerator, combination gas distil boiler, diesel engines, cogeneration plants, natural gas/ no. 2 oil fired heaters-furnace, and a service station storage and dispensing for gasoline (1969). The facility received 3 notices of violation between 2003 and 2011 and 12 notices to comply from 2000 through 2013. All notices of violation and notices to comply are in compliance.

The County of Los Angeles, Fire Station #46 at 14425 Olive View was listed for a 1,000-gallon diesel UST, with one dispenser nozzle.

The presence of gasoline storage tanks, fuel oil storage tanks, a gasoline service station, and a spray paint booth represent PECs.

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7.4. County of Los Angeles Documents

Several documents were provided by the County of Los Angeles. Documents included geotechnical reports, topographic maps, AutoCAD drawings, and master plans for the future development of the site. Reports pertaining to the environmental aspects of the site were not included.

8. CONCLUSIONS

Ninyo & Moore completed an HMA for the Olive View UCLA Medical Center at 14445 Olive View Drive in Sylmar, California. The HMA revealed the following potential issues of concern:

- **Building Materials** – Based on the construction date of many of the site buildings (prior to 1980), ACMs and LBP may be present on building materials at the site. If buildings built prior to 1980 are planned for demolition, an HBMS should be conducted to evaluate the presence of ACMs and LBP on building materials.

- **Hazardous Materials** – Hazardous materials and hazardous waste were observed at the loading dock of the hospital. Jet fuel, turbine oil, diesel fuel, and other petroleum products were observed in storage areas at the loading dock (including two 20,000-gallon diesel USTs), as well as at the turbine room of the central utility plant. Biomedical waste and

medical gas are also stored in storage rooms at the loading dock. The biomedical waste is stored in an autoclave before being transported off-site. The hazardous waste manifests provided to Ninyo & Moore show that the majority of hazardous waste disposed off-site is generated from the pathology lab of the hospital as well as sharps generated throughout the hospital. This waste is stored at the site grounds to the west of the hospital when there is an overflow of waste. Two liquid oxygen ASTs were observed at the cooling towers of the hospital. One four-stage clarifier of unknown capacity was observed at the loading dock of the site. The clarifier treats wastewater created from the sorption unit of the Central Utility Plant. According to the AQMD, an active permit for a spray paint booth was issued for the site in 1990. Evidences of releases or spills were not observed during site reconnaissance and are therefore not considered environmental concerns. The presence of USTs at the loading dock and an active permit for a spray paint booth represent PECs for the site.

- **Environmental Database Report** – The site was listed on several environmental databases searched by EDR, primarily for USTs and hazardous waste. The Los Angeles County Fire Station #04 (located within the site boundaries) was listed on the LUST database with a status of "leak being confirmed" as of 1995 and affecting soil. Additional information was not provided. This is considered a PEC for the site.

- **Off-Site Issues –** Off-site properties that could affect the environmental integrity of the site were not observed during the preparation of this HMA.

DRAFT

9. PROJECT IMPACTS AND MITIGATION MEASURES

The following paragraphs discuss the Potential Significant Project Impacts, Feasible Mitigation Measures, and Potential Project Impacts not Fully Mitigated to Less than Significant.

9.1. Potential Significant Project Impacts

Potential Significant Project Impacts include the known or probable presence of soil contamination where remediation has not been performed, is incomplete, or is not documented. Potential Significant Project Impacts also include asbestos and LBP in buildings that may be demolished or renovated. The following direct Potential Significant Project Impacts have been identified:

- **Building Materials** – Demolition of structures built prior to 1980 may result in the exposure of the public and/or the environment to LBP and/or ACMs in buildings.

- **Hazardous Materials** – The presence of an active permit for a spray paint booth represents a PEC for the site.

- **USTs** – The presence of diesel fuel USTs at the loading dock represents a PEC for the site.

- **LUST** – The presence of a LUST case on the site represents a PEC for the site.

9.2. Feasible Mitigation Measures

Feasible mitigation measures may reduce each of the listed project impacts to less than significant. The following are the feasible mitigation measures for each of the listed project impacts:

- An HBMS should be conducted to evaluate the presence of ACMs and LBP on building materials at the site.

- Prior to start of construction, we recommend additional investigation of the on-site spray paint booth, USTs, and LUST case to evaluate their potential impact to the site.

DRAFT

9.3. Potential Project Impacts Not Fully Mitigated to Less Than Significant

Based on the information evaluated to date, there are no direct Potential Significant Project Impacts that cannot be mitigated to less than significant.

10. QUALIFICATIONS STATEMENT AND SIGNATURE OF ENVIRONMENTAL PROFESSIONAL

Mr. Anthony Lizzi states that the HMA was performed under his direct supervision and that he has reviewed and approved the report and the methods and procedures employed in the development of the report confirm to the minimum industry standards. Mr. Lizzi certifies that Ninyo & Moore project personnel and subcontractors are properly licensed and/or certified to do the work described herein.

Anthony Lizzi, PG, CHG
Principal Geologist

DRAFT

11. REFERENCES

Environmental Data Resources, Inc., 2016a, The EDR Aerial Photo Decade Package, Olive View-UCLA Med Center, 14445 Olive View Drive, Sylmar, California 91342, dated January 26.

Environmental Data Resources, Inc., 2016b, Certified Sanborn Map Report, Olive View-UCLA Med Center, 14445 Olive View Drive, Sylmar, California 91342, dated January 25.

Environmental Data Resources, Inc., 2016c, The EDR-City Directory Abstract, Olive View-UCLA Med Center, 14445 Olive View Drive, Sylmar, California 91342, dated January 22.

Environmental Data Resources, Inc., 2016d, EDR Historical Topo Map Report, Olive View-UCLA Med Center, 14445 Olive View Drive, Sylmar, California 91342, dated January 22.

Environmental Data Resources, Inc., 2016e, The EDR Radius Map Report with GeoCheck®, Olive View-UCLA Med Center, 14445 Olive View Drive, Sylmar, California 91342, dated January 22.

Geo-Logic Associates, 2015, Semi-Annual Monitoring Report, First Semi-Annual 2015, Sunshine Canyon Landfill, Facility WDID #L10006014618, dated July

Hitchcock, C.S., Wills, C.J., 2000, Quaternary Geology of the San Fernando Valley, Los Angeles County, California

Norris, R.M., and Webb, R.W., 1977, Geology of California: John Wiley & Sons.

State of California, Department of Conservation, Division of Oil, Gas, and Geothermal Resources (DOGGR) Well Finder, 2016, http://maps.conservation.ca gov/doggr/#close.

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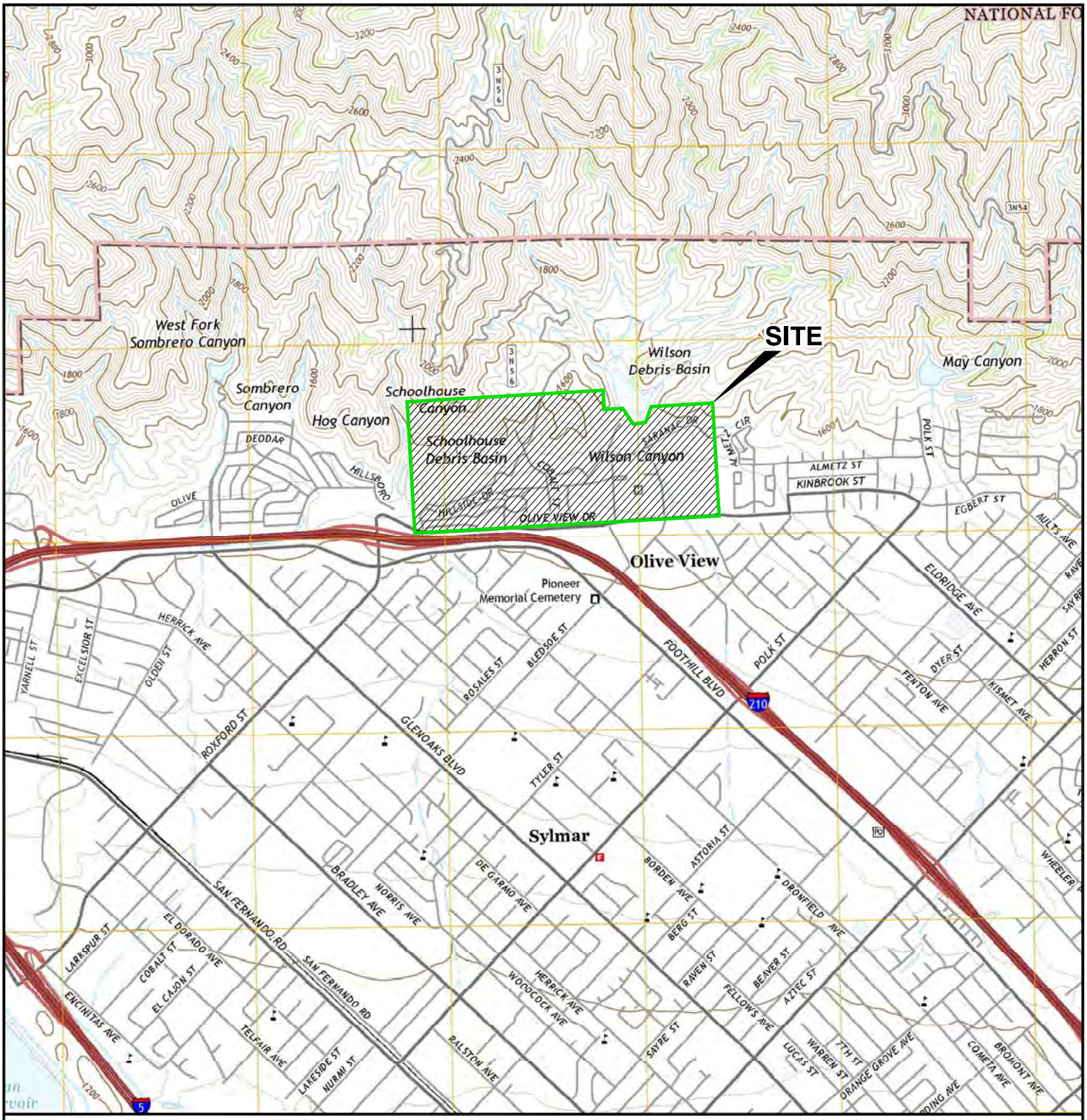
United States Geological Survey, 2012, 7.5-minute Series, Topographic Quadrangle Map Series, San Fernando, California:

DRAFT



REFERENCE: 7.5 MINUTE USGS TOPOGRAPHIC MAP OF SAN FERNANDO, CALIFORNIA QUADRANGLE, DATED 2015, SCALE 1:24000.

N

SCALE IN FEET

0 2,400 4,800

NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

Ninyo & Moore	SITE LOCATION	FIGURE
PROJECT NO. 209600001 / DATE 3/16	OLIVE VIEW - UCLA MEDICAL CENTER 14445 OLIVE VIEW DRIVE SYLMAR, CALIFORNIA	1

209600001_SL.dwg 15:39:19 02/19/2016 GK

REFERENCE: GOOGLE EARTH AERIAL PHOTO, 2016.

LEGEND	
ACM	ASBESTOS CONTAINING MATERIAL
LBP	LEAD BASED PAINT
LADWP	LOS ANGELES DEPARTMENT OF WATER AND POWER
14445	STREET ADDRESS

N

SCALE IN FEET

0 400 800

NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

Ninyo & Moore

PROJECT NO.	DATE
209600001	3/16

SITE PLAN

OLIVE VIEW - UCLA MEDICAL CENTER
14445 OLIVE VIEW DRIVE
SYLMAR, CALIFORNIA

FIGURE

2

209600001_SP.dwg 10:01:22 02/22/2016 GK

N

SCALE IN FEET

0 100 200

NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

LEGEND	
LADWP	LOS ANGELES DEPARTMENT OF WATER AND POWER

REFERENCE: GOOGLE EARTH AERIAL PHOTO, 2016.

Ninyo & Moore		LOADING DOCK	FIGURE
PROJECT NO.	DATE	OLIVE VIEW - UCLA MEDICAL CENTER 14445 OLIVE VIEW DRIVE SYLMAR, CALIFORNIA	3
209600001	3/16		

209600001_LD.dwg 10:01:22 02/22/2016 GK

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APPENDIX A

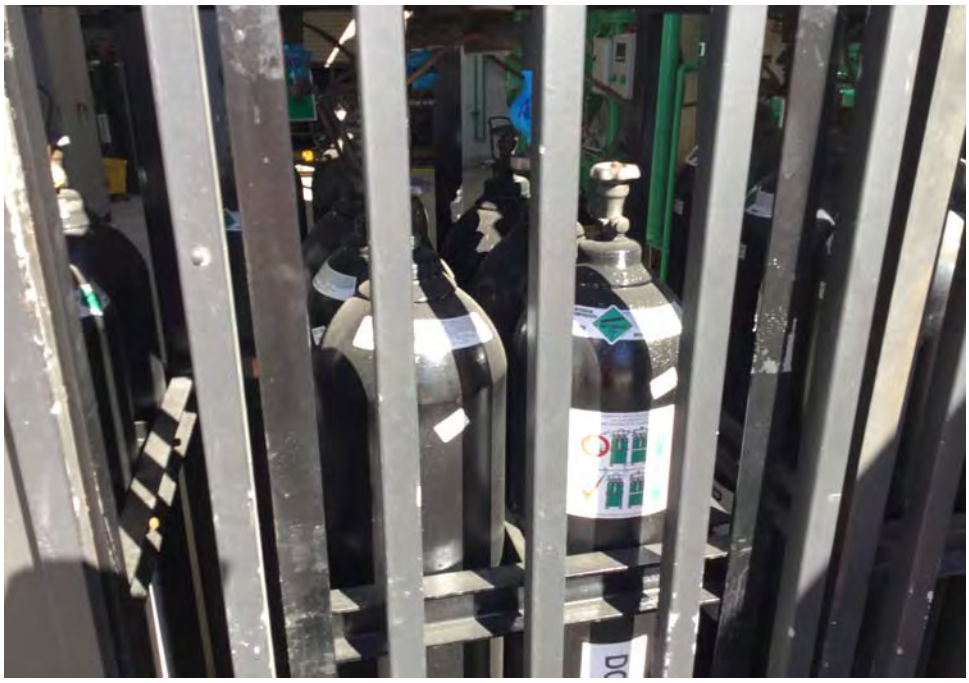
PHOTOGRAPHIC DOCUMENTATION

Photograph 1: **View of manhole for a 20,000-gallon diesel UST (tank no. 1).**

Photograph 2: **View of a manhole for a 20,000-gallon diesel UST (tank no. 2).**

Photograph 3: **View of hazardous materials (jet oil) stored over secondary containment vessels at the loading dock of the hospital.**

Photograph 4: **View of hazardous materials (jet oil, waste oil) stored over secondary containment vessels at the loading dock of the hospital.**



Photograph 5: **View of compressed nitrogen cylinders inside a gated enclosure at the loading dock of the hospital. The nitrogen is used to maintain a nitrogen blanket on water tanks.**

Photograph 6: **View of four-stage clarifier at the loading dock of the facility. The clarifier treats wastewater produced by the sorption unit of the central plant.**

Photograph 7: **View of storage container for hazardous material storage at the loading dock of the hospital.**

Photograph 8: **View of hazardous materials (motor oil, turbine oil) inside a storage container at the loading dock of the hospital.**

Photograph 9: **View of engine oil tank in the emergency generator room of the Central Utility Plant.**

Photograph 10: **View of 55-gallon drum of diesel oil in the emergency generator room of the Central Utility Plant.**

Photograph 11: **View of 55-gallon drums of jet oil and waste oil, used for the turbines**

Photograph 12: **View of 13 55-lb cylinders of compressed refrigerant, used as a water coolant for an evaporator.**

Photograph 13: **View of the door to the biohazard storage room at the loading dock of the hospital.**

Photograph 14: **View of biohazard waste, mainly sharps, stored within the biohazard storage room before being transported off site.**

Photograph 15: **View of an autoclave, where biohazard waste is placed before being transported off site.**

Photograph 16: **View of oxygen cylinders used for patient care at the hospital.**

Photograph 17: **View of medical gas storage area (helium, air, carbon dioxide, anaerobic gas, lung diffusion gas, etc.).**

Photograph 18: **View of door to the electrical station, which supplies power to the hospital. The station is likely to contain transformers which may contain PCBs.**

Photograph 19: **View of Nalco product storage tanks at the cooling tower. The Nalco products are used to treat water and prevent corrosion.**

Photograph 20: **View of first liquid oxygen tank (approximately 5,000 gallons) at the cooling tower.**

Photograph 21: **View of second liquid oxygen tank (approximately 400 gallons) at the cooling tower.**

Photograph 22: **View of 30 cylinders of nitrous oxide at the cooling tower, used to maintain a nitrogen blanket on the water tanks.**

Photograph 23: **View of paraffin waste containers inside the hazardous material storage closet of the pathology lab.**

Photograph 24: **View of xylene and ethyl alcohol containers inside the hazardous materials storage closet of the pathology lab.**

Photograph 25: **View of 55-gallon drums of xylene, formaldehyde, and ethyl alcohol inside the hazardous materials storage closet of the pathology lab.**

Photograph 26: **View of one-gallon containers of methanol inside the hazardous materials storage closet of the pathology lab.**

Photograph 27: **View of a channel running along the eastern section of the site. Stains are other signs of hazardous waste release were not observed.**

Photograph 28: **View of universal waste storage containers near the cooling tower. The waste storage containers were locked and unable to be accessed during the site reconnaissance.**

Photograph 29: **View of building (J-2) planned for demolition. Due to the age of construction of the building, it may contain lead-based paint and asbestos containing material.**

Photograph 30: **View of building planned for demolition. Due to the age of construction of the building, it may contain lead-based paint and asbestos containing material.**

Photograph 31: **View of pad-mounted transformers at the corner of Cobalt Street and Bucher Avenue.**

Photograph 32: **View of pad-mounted transformers running along Cobalt Avenue. These transformers provide the electricity to the grounds of the site.**

Photograph 33: **View of pad-mounted transformers running along Cobalt Avenue. These transformers provide the electricity to the grounds of the site.**

Photograph 34: **Looking east from the edge of the site at wilderness and residential properties.**

Photograph 35: **Looking north from the site at foothills to the San Gabriel Mountains.**

Photograph 36: **Looking south from the site at Olive View Drive, beyond which are residential properties.**

Photograph 37: **View of channel running along the western edge of the property. Stains are other signs of hazardous waste release were not observed.**

Photograph 38: **Looking west from the site at a gravel mound, beyond which are residential properties.**

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APPENDIX B

HAZARDOUS WASTE MANIFESTS

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
C A D 9 8 3 5 8 5 3 2 4	1	NSE: (909) 875-9288	01420887 5 JJK

GENERATOR

5. Generator's Name and Mailing Address
Olive View Medical Center Los Angeles County
14445 Olive View Drive
Sylmar CA 91342
Generator's Phone: (818) 364-3405 Attn: Frank Colbert-EH&S Office

Generator's Site Address (if different than mailing address) CD Requested

6. Transporter 1 Company Name: North State Environmental
U.S. EPA ID Number: C A R 0 0 0 2 0 6 0 8 6

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
US Ecology, Inc.
Hwy 95, 11 miles south of
Beatty NV 89003
Facility's Phone: (775) 553-2203
U.S. EPA ID Number: N V T 3 3 0 0 1 0 0 0 0

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN1907, Soda lime, 8, PGIII	1	DF	120	P	181
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1: Profile#070127495-904;Spent CO2 absorbent w/ soda lime in plastic cartridges
ERG# 154
1: 1 x 55gal fiber drum
2:
3:
4:

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Ben Alvarez
Signature:
Month 12 Day 29 Year 15

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Danny Tapia
Signature:
Month 12 Day 29 Year 15

Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

SIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name:
Signature:
Month Day Year

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

GENERATOR'S INITIAL COPY

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: CAD983585324
2. Page 1 of: 1
3. Emergency Response Phone: NSE: (909) 875-9288
4. Manifest Tracking Number: 014208874 JJK

5. Generator's Name and Mailing Address
Olive View Medical Center Los Angeles County
14445 Olive View Drive
Sylmar CA 91342
Generator's Phone: (818) 364-3405 Attn: Frank Colbert-EH&S Office

Generator's Site Address (if different than mailing address): CD Requested

6. Transporter 1 Company Name: North State Environmental
U.S. EPA ID Number: CAR000206086

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Pacific Resource Recovery
3150 East Pico Boulevard
Los Angeles CA 90023
Facility's Phone: (800) 499-7145
U.S. EPA ID Number: CAD008252405

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, UN1993, Waste flammable liquids, n.o.s., (xylene, alcohol), 3, PGIII (D001, F003)	4	DF	220	G	D001 F003 212
X	2. UN1325, Waste flammable solids, organic, n.o.s., (carbon filters), 4.1, PGIII	1	DF	40	P	D001 331
X	3. RQ, UN1325, Waste flammable solids, organic, n.o.s., (paraffin wax with xylene, alcohol), 4.1, PGII (D001, F003)	2	DF	214	P	D001 F003 331
	4.					

14. Special Handling Instructions and Additional Information

	ERG#	
1: Profile#13070179: Alcohols, xylenes, glycols, stains, water, hydrocarbons	128	1: 4 x 55gal poly drum
2: Profile#10020023: Used carbon filters/carbon in cardboard	133	2: 1 x 30gal fiber drum
3: Profile#14010076: Used paraffin wax with alcohol, xylene, limonene	133	3: 2 x 55gal fiber drum
		4:

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Ben Alvarez
Signature:
Month: 12 Day: 29 Year: 15

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Danny Tapia
Signature:
Month: 12 Day: 29 Year: 15

Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

SIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1. H061 2. H141 3. H141 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Jorge Garcia
Signature:
Month: 1 Day: 4 Year: 16

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: C A D 9 8 3 5 8 5 3 2 4
2. Page 1 of: 1
3. Emergency Response Phone: NSE: (909) 875-9288
4. Manifest Tracking Number: 014208874 JJK

GENERATOR

5. Generator's Name and Mailing Address
Olive View Medical Center Los Angeles County
14445 Olive View Drive
Sylmar CA 91342
Generator's Phone: (818) 364-3405 Attn: Frank Colbert-EH&S Office

Generator's Site Address (if different than mailing address): CD Requested

6. Transporter 1 Company Name: North State Environmental
U.S. EPA ID Number: C A R 0 0 0 2 0 6 0 8 6

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Pacific Resource Recovery
3150 East Pico Boulevard
Los Angeles CA 90023
Facility's Phone: (800) 499-7145
U.S. EPA ID Number: C A D 0 0 8 2 5 2 4 0 5

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, UN1993, Waste flammable liquids, n.o.s., (xylene, alcohol), 3, PGIII (D001, F003)	4	DF	220	G	D001 F003 212
X	2. UN1325, Waste flammable solids, organic, n.o.s., (carbon filters), 4.1, PGIII	1	DF	40	P	D001 331
X	3. RQ, UN1325, Waste flammable solids, organic, n.o.s., (paraffin wax with xylene, alcohol), 4.1, PGII (D001, F003)	2	DF	214	P	D001 F003 331
	4.					

14. Special Handling Instructions and Additional Information

	ERG#	
1: Profile#13070179: Alcohols, xylenes, glycols, stains, water, hydrocarbons	128	1: 4 x 55gal poly drum
2: Profile#10020023: Used carbon filters/carbon in cardboard	133	2: 1 x 30gal fiber drum
3: Profile#14010076: Used paraffin wax with alcohol, xylene, limonene	133	3: 2 x 55gal fiber drum
		4:

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Ben Alvarez
Signature:
Month Day Year: 12 29 15

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Danny Tapia
Signature:
Month Day Year: 12 29 15

Transporter 2 Printed/Typed Name:
Signature:
Month Day Year:

SIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1. 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name:
Signature:
Month Day Year:

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

GENERATOR'S INITIAL COPY

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: CAD983585324
2. Page 1 of: 2
3. Emergency Response Phone: NSE: (909) 875-9288
4. Manifest Tracking Number: 014208873 JJK

5. Generator's Name and Mailing Address
Olive View Medical Center Los Angeles County
14445 Olive View Drive
Sylmar CA 91342
Generator's Phone: (818) 364-3405 Attn: Frank Colbert-EH&S Office

Generator's Site Address (if different than mailing address): CD Requested

6. Transporter 1 Company Name: North State Environmental
U.S. EPA ID Number: CAR000206086

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
NSSI/Sources & Services, Inc.
5711 Etheridge Street
Houston TX 77087
Facility's Phone: (713) 641-0391
U.S. EPA ID Number: TXD982560294

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN1802, Waste perchloric acid, 8, (5.1), PGII	1	DF	7	P	D001 D002 791 OUTS 001H
X	2. UN2811, Toxic liquids, organic, n.o.s., (hydroquinone), 6.1, PGIII	1	DF	7	P	551 OUTS 0011
X	3. UN3267, Corrosive liquids, basic, organic, n.o.s., (methenamine borate), 8, PGIII	1	DF	7	P	551 OUTS 0011
X	4. UN2922, Waste corrosive liquid, toxic, n.o.s., (gold chloride), 8, (6.1), PGIII	1	DF	7	P	D002 OUTS 001H 792

14. Special Handling Instructions and Additional Information

	ERG#	
1: Drum#1229-1 (Labpack)	140	1: 1 x 5gal poly drum
2: Drum#1229-2 (Labpack)	153	2: 1 x 5gal poly drum
3: Drum#1229-3 (Labpack)	153	3: 1 x 5gal poly drum
4: Drum#1229-4 (Labpack)	154	4: 1 x 5gal poly drum

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Ben Alvarez
Signature:
Month: 12 Day: 31 Year: 15

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Danny Tapia
Signature:
Month: 12 Day: 31 Year: 15

Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

SIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1. 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name:
Signature:
Month: Day: Year:

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

GENERATOR'S INITIAL COPY

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21. Generator ID Number	22. Page	23. Manifest Tracking Number
	C A D 9 8 3 5 8 5 3 2 4	2 of 2	014208873JJK

24. Generator's Name: **Olive View Medical Center Los Angeles County**

25. Transporter _____ Company Name — U.S. EPA ID Number

26. Transporter _____ Company Name — U.S. EPA ID Number

GENERATOR

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes		
X	5.UN2693,Waste bisulfites,aqueous solutions,n.o.s., (aqueous sodium bisulfite),8,PGIII	1	DF	7	P	D002	OUTS	001H
						791		
X	6.UN1789,Waste hydrochloric acid,8,PGII	1	DF	17	P	D002	OUTS	001H
						791		
X	7.UN3099,Waste oxidizing liquids,toxic,n.o.s., (potassium chromate,silver nitrate),5.1,(6.1),PGII	1	DF	8	P	D001	D007	D011
						723	OUTS	001H
X	8.UN2789,Waste acetic acid,8,(3),PGII	1	DF	7	P	D001	D002	791
						OUTS	001H	
X	9.NA3082,Other regulated substances,liquid,n.o.s., (aqueous 10% formalin,sodium phosphate),9,PGIII	1	DF	55	G	331	OUTS	1011
X	10.NA3082,Other regulated substances,liquid,n.o.s., (diaminobenzidine,polyethylene glycol),9,PGIII	1	DF	15	G	331	OUTS	1011

32. Special Handling Instructions and Additional Information

06: Drum#1229-6 (Labpack)
07: Drum#1229-7 (Labpack)
08: Drum#1229-8 (Labpack)
09: Drum#1229-9 (Bulk)
10: Drum#1229-10 (Bulk)

ERG#: 154, 157, 142, 132, 171, 171

5: 1 x 5gal poly drum
6: 1 x 5gal poly drum
7: 1 x 5gal poly drum
8: 1 x 5gal poly drum
9: 1 x 55gal poly drum-BULK
10: 1 x 15gal poly drum-BULK
11:
12:
13:
14:

TRANSPORTER

33. Transporter _____ Acknowledgment of Receipt of Materials
Printed/Typed Name — Signature — Month — Day — Year

34. Transporter _____ Acknowledgment of Receipt of Materials
Printed/Typed Name — Signature — Month — Day — Year

FACILITY

35. Discrepancy

DESIGNA

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

EPA Form 8700-22A (Rev. 3-05) Previous editions are obsolete.

GENERATOR'S INITIAL COPY

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: C A D 9 8 3 5 8 5 3 2 4

2. Page 1 of: 1

3. Emergency Response Phone: NSE: (909) 875-9288

4. Manifest Tracking Number: 007667903 FLE

5. Generator's Name and Mailing Address
Olive View UCLA Medical Center
1100 N. Eastern Ave.,RM225
Los Angeles CA 90063

Generator's Site Address (if different than mailing address) CD Requested
14445 Olive View Drive
Sylmar CA 91342

Generator's Phone: (818) 364-3405 Attn:Frank Colbert-EH&S Office

6. Transporter 1 Company Name: North State Environmental
U.S. EPA ID Number: C A R 0 0 0 2 0 6 0 8 6

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
US Ecology, Inc.
Hwy 95, 11 miles south of
Beatty NV 89003
U.S. EPA ID Number: N V T 3 3 0 0 1 0 0 0 0

Facility's Phone: (775) 553-2203

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN1907,Soda lime,8,III	1	DF	160	P	181
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1: Profile#070127495-903:Used carbon dioxide absorbent

ERG# 154

1: 1 x 55gal fiber drum
2:
3:
4:

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: J. Benjamin Alvarez
Signature:
Month 12 Day 01 Year 15

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Danny Tapia
Signature:
Month 12 Day 01 Year 15

Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number:

Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H130			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Tuba Mc Nuff
Signature:
Month 12 Day 23 Year 15

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	C A D 9 8 3 5 8 5 3 2 4	1	NSE: (909) 875-9288	007667903 FLE

5. Generator's Name and Mailing Address
Olive View UCLA Medical Center
1100 N. Eastern Ave.,RM225
Los Angeles CA 90063

Generator's Site Address (if different than mailing address) **CD Requested**
14445 Olive View Drive
Sylmar CA 91342

Generator's Phone: (818) 364-3405 Attn:Frank Colbert-EH&S Office

6. Transporter 1 Company Name
North State Environmental

U.S. EPA ID Number
C A R 0 0 0 2 0 6 0 8 6

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
US Ecology, Inc.
Hwy 95, 11 miles south of
Beatty NV 89003

U.S. EPA ID Number

Facility's Phone: (775) 553-2203

N V T 3 3 0 0 1 0 0 0 0

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN1907,Soda lime,8,III	1	DF	160	P	181
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1: Profile#070127495-903:Used carbon dioxide absorbent

ERG# 154

1: 1 x 55gal fiber drum
2:
3:
4:

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name | Signature | Month 12 | Day 01 | Year 15

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Danny Tapia | Signature | Month 12 | Day 01 | Year 15

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) | U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) | Month | Day | Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name | Signature | Month | Day | Year

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

GENERATOR'S INITIAL COPY

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
CAD983585324	2	NSE: (909) 875-9288	007667902 FLE

CD Requested

5. Generator's Name and Mailing Address
Olive View UCLA Medical Center
1100 N. Eastern Ave.,RM225
Los Angeles CA 90063
Generator's Phone: (818) 364-3405 Attn:Frank Colbert-EH&S Office

Generator's Site Address (if different than mailing address)
14445 Olive View Drive
Sylmar CA 91342

This is to inform the generator of the waste shipment that this manifest, that NSSI has the appropriate permits for, and will accept, the waste the generator is shipping.

6. Transporter 1 Company Name
North State Environmental
U.S. EPA ID Number
CAR000206086

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
NSSI/Sources & Services,Inc.
5711 Etheridge Street
Houston TX 77087
Facility's Phone: (713) 641-0391
U.S. EPA ID Number
TXD982560294

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. UN1362,Waste carbon,activated,4.2,III DOT-SP13192	1	DF	40	P	D001 001H	551	OUTS
X	2. UN1344,Trinitrophenol,wetted,4.1,I	1	DF	9	P	551	OUTS	0011
X	3. UN3098,Waste oxidizing liquid,corrosive,n.o.s., (silver nitrate,sodium hydroxide),5.1,(8),II	1	DF	9	P	D001 551	D002 OUTS	D011 001H
X	4. UN3122,Waste toxic liquid,oxidizing,n.o.s., (iodine,potassium iodine),6.1,(5.1),II	1	DF	9	P	D001 001H	551	OUTS

14. Special Handling Instructions and Additional Information

	ERG#	
1: Drum#1201-1 : (Labpack)	133	1: 1 x 30gal fiber drum
2: Drum#1201-2 : (Labpack)	133	2: 1 x 5gal poly drum
3: Drum#1201-3 : (Labpack)	140	3: 1 x 5gal poly drum
4: Drum#1201-4 : (Labpack)	154	4: 1 x 5gal poly drum

eh5/20215913

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Benjamin Alvarez — Signature — Month 12 Day 01 Year 15

INT'L
16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER
17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Danny Tapia — Signature — Month 12 Day 01 Year 15
Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY
18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) Month Day Year
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H040-01 2. H141 for 1-4 3. 4.
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: R Foster — Signature — Month 12 Day 4 Year 15

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
CAD983585324	2	NSE: (909) 875-9288	007667902 FLE

GENERATOR

5. Generator's Name and Mailing Address

Olive View UCLA Medical Center
1100 N. Eastern Ave.,RM225
Los Angeles CA 90063

Generator's Site Address (if different than mailing address)

CD Requested
14445 Olive View Drive
Sylmar CA 91342

Generator's Phone: (818) 364-3405 Attn:Frank Colbert-EH&S Office

6. Transporter 1 Company Name: North State Environmental — U.S. EPA ID Number: CAR000206086

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address

NSSI/Sources & Services,Inc.
5711 Etheridge Street
Houston TX 77087

Facility's Phone: (713) 641-0391 — U.S. EPA ID Number: TXD982560294

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. UN1362,Waste carbon,activated,4.2,III DOT-SP13192	1	DF	40	P	D001	551	OUTS
						001H		
X	2. UN1344,Trinitrophenol,wetted,4.1,I	1	DF	9	P	551	OUTS	0011
X	3. UN3098,Waste oxidizing liquid,corrosive,n.o.s., (silver nitrate,sodium hydroxide),5.1,(8),II	1	DF	9	P	D001	D002	D011
						551	OUTS	001H
X	4. UN3122,Waste toxic liquid,oxidizing,n.o.s., (iodine,potassium iodine),6.1,(5.1),II	1	DF	9	P	D001	551	OUTS
						001H		

14. Special Handling Instructions and Additional Information

	ERG#	
1: Drum#1201-1 : (Labpack)	133	1: 1 x 30gal fiber drum
2: Drum#1201-2 : (Labpack)	133	2: 1 x 5gal poly drum
3: Drum#1201-3 : (Labpack)	140	3: 1 x 5gal poly drum
4: Drum#1201-4 : (Labpack)	154	4: 1 x 5gal poly drum

elg 20215913

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: BENJAMIN ALVAREZ — Signature — Month 12 Day 01 Year 15

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: ____
Transporter signature (for exports only): Date leaving U.S.: ____

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Danny Tapia — Signature — Month 12 Day 01 Year 15

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1. H040-07 | 2. H141 for 1-4 | 3. | 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: R. FOSTON — Signature — Month 12 Day 14 Year 15

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)

21. Generator ID Number	22. Page	23. Manifest Tracking Number
CAD983585324	2 of 2	007667902FLE

24. Generator's Name: **Olive View UCLA Medical Center**

25. Transporter _____ Company Name — U.S. EPA ID Number

26. Transporter _____ Company Name — U.S. EPA ID Number

This is to inform the generator of the waste shipped on this manifest, that NSSI has the appropriate permits for, and will accept, the waste the generator is shipping.

GENERATOR

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes		
X	5.UN1873,Waste perchloric acid,5.1,(8),I	1	DF	9	P	D001	D002	791
						OUTS	001H	
X	6.UN3139,Waste oxidizing liquid,n.o.s., (silver nitrate,sodium chromate),5.1,II	1	DF	10	P	D001	D007	D011
						551	OUTS	001H
X	7.UN3265,Waste corrosive liquids,acidic,organic, n.o.s.,(oxalic acid),8,II	1	DF	9	P	D002	791	OUTS
						001H		
X	8.RQ,UN2024,Waste mercury compounds,liquid,n.o.s., (mercuric chloride,formalin),6.1,II (D009) "toxic" "Marine Pollutant"	1	DF	14	P	D009	725	OUTS
						001H		
X	9.UN3289,Waste toxic liquid,corrosive,inorganic, n.o.s.,(gold chloride),6.1,(8),II	1	DF	10	P	D002	791	OUTS
						001H		
X	10.UN3264,Waste corrosive liquids,acidic,inorganic, n.o.s.,(hydrochloric acid,ferric chloride),8,II	1	DF	15	P	D002	791	OUTS
						001H		
X	11.NA3082,Other regulated substances liquids,n.o.s. (methenamine borate,sodium thiosulfate),9,III	1	DF	11	P	551	OUTS	0011
X	12.NA3082,Other regulated substances liquids,n.o.s. (aqueous formalin,phosphate buffers),9,III	2	DF	100	G	134	OUTS	1011

32. Special Handling Instructions and Additional Information

05: Drum#1201-5 : (Labpack)
06: Drum#1201-6 : (Labpack)
07: Drum#1201-7 : (Labpack)
08: Drum#1201-8 : (Labpack)
09: Drum#1201-9 : (Labpack)
10: Drum#1201-10 : (Labpack)
11: Drum#1201-11 : (Labpack)
12A,12B : (Formalin)

d/s/20215513

ERG#
143 5: 1 x 5gal poly drum
140 6: 1 x 5gal poly drum
153 7: 1 x 5gal poly drum
151 8: 1 x 5gal poly drum
154 9: 1 x 5gal poly drum
10: 1 x 5gal poly drum
11: 1 x 5gal poly drum
12: 2 x 55gal poly drum
13:
14:
171

TRANSPORTER

33. Transporter _____ Acknowledgment of Receipt of Materials
Printed/Typed Name: [illegible] — Signature: [signature] — Month: 12 Day: 4 Year: 15

34. Transporter _____ Acknowledgment of Receipt of Materials
Printed/Typed Name: _____ Signature: _____ Month: _____ Day: _____ Year: _____

FACILITY

35. Discrepancy

DESIGN

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

H040-OV / H141 for # 5-12

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)

21. Generator ID Number: CAD983585324

22. Page: 2 of 2

23. Manifest Tracking Number: 007667902FLE

24. Generator's Name: **Olive View UCLA Medical Center**

25. Transporter _____ Company Name — U.S. EPA ID Number

26. Transporter _____ Company Name — U.S. EPA ID Number

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes		
X	5.UN1873,Waste perchloric acid,5.1,(8),I	1	DF	9	P	D001	D002	791
						OUTS	001H	
X	6.UN3139,Waste oxidizing liquid,n.o.s., (silver nitrate,sodium chromate),5.1,II	1	DF	10	P	D001	D007	D011
						551	OUTS	001H
X	7.UN3265,Waste corrosive liquids,acidic,organic, n.o.s.,(oxalic acid),8,II	1	DF	9	P	D002	791	OUTS
						001H		
X	8.RQ,UN2024,Waste mercury compounds,liquid,n.o.s., (mercuric chloride,formalin),6.1,II (D009) "toxic" "Marine Pollutant"	1	DF	14	P	D009	725	OUTS
						001H		
X	9.UN3289,Waste toxic liquid,corrosive,inorganic, n.o.s.,(gold chloride),6.1,(8),II	1	DF	10	P	D002	791	OUTS
						001H		
X	10.UN3264,Waste corrosive liquids,acidic,inorganic, n.o.s.,(hydrochloric acid,ferric chloride),8,II	1	DF	15	P	D002	791	OUTS
						001H		
X	11.NA3082,Other regulated substances liquids,n.o.s. (methenamine borate,sodium thiosulfate),9,III	1	DF	11	P	551	OUTS	0011
X	12.NA3082,Other regulated substances liquids,n.o.s. (aqueous formalin,phosphate buffers),9,III	2	DF	100	G	134	OUTS	1011

GENERATOR

32. Special Handling Instructions and Additional Information

05: Drum#1201-5 : (Labpack)
06: Drum#1201-6 : (Labpack)
07: Drum#1201-7 : (Labpack)
08: Drum#1201-8 : (Labpack)
09: Drum#1201-9 : (Labpack)
10: Drum#1201-10 : (Labpack)
11: Drum#1201-11 : (Labpack)
12A,12B : (Formalin)

dhs 120215 13

ERG#
143 5: 1 x 5gal poly drum
140 6: 1 x 5gal poly drum
153 7: 1 x 5gal poly drum
151 8: 1 x 5gal poly drum
154 9: 1 x 5gal poly drum
10: 1 x 5gal poly drum
11: 1 x 5gal poly drum
12: 2 x 55gal poly drum
13:
14:
171

TRANSPORTER

33. Transporter _____ Acknowledgment of Receipt of Materials
Printed/Typed Name: BENJAMIN CLARK — Signature — Month: 12 Day: 1 Year: 15

34. Transporter _____ Acknowledgment of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

FACILITY

35. Discrepancy

DESIGN

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
H040-OT / H141 for H 5-12

EPA Form 8700-22A (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	C A D 9 8 3 5 8 5 3 2 4	2	NSE: (909) 875-9288	007667902 FLE

5. Generator's Name and Mailing Address
Olive View UCLA Medical Center
1100 N. Eastern Ave.,RM225
Los Angeles CA 90063

Generator's Site Address (if different than mailing address) CD Requested
14445 Olive View Drive
Sylmar CA 91342

Generator's Phone: (818) 364-3405 Attn:Frank Colbert-EH&S Office

6. Transporter 1 Company Name
North State Environmental

U.S. EPA ID Number
C A R 0 0 0 2 0 6 0 8 6

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
NSSI/Sources & Services,Inc.
5711 Etheridge Street
Houston TX 77087

U.S. EPA ID Number

Facility's Phone: (713) 641-0391

T X D 9 8 2 5 6 0 2 9 4

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. UN1362,Waste carbon,activated,4.2,III DOT-SP13192	1	DF	40	P	D001	551	OUTS
						001H		
X	2. UN1344,Trinitrophenol,wetted,4.1,I	1	DF	9	P	551	OUTS	0011
X	3. UN3098,Waste oxidizing liquid,corrosive,n.o.s., (silver nitrate,sodium hydroxide),5.1,(8),II	1	DF	9	P	D001	D002	D011
						551	OUTS	001H
X	4. UN3122,Waste toxic liquid,oxidizing,n.o.s., (iodine,potassium iodine),6.1,(5.1),II	1	DF	9	P	D001	551	OUTS
						001H		

14. Special Handling Instructions and Additional Information

	ERG#	
1: Drum#1201-1 : (Labpack)	133	1: 1 x 30gal fiber drum
2: Drum#1201-2 : (Labpack)	133	2: 1 x 5gal poly drum
3: Drum#1201-3 : (Labpack)	140	3: 1 x 5gal poly drum
4: Drum#1201-4 : (Labpack)	154	4: 1 x 5gal poly drum

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name | Signature | Month 12 | Day 01 | Year 15

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Danny Tapia | Signature | Month 12 | Day 01 | Year 15

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) | U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) | Month | Day | Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name | Signature | Month | Day | Year

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

GENERATOR'S INITIAL COPY

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21. Generator ID Number	22. Page	23. Manifest Tracking Number
	CAD983585324	2 of 2	007667902FLE

24. Generator's Name: **Olive View UCLA Medical Center**

25. Transporter _____ Company Name — U.S. EPA ID Number

26. Transporter _____ Company Name — U.S. EPA ID Number

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes
X	5.UN1873,Waste perchloric acid,5.1,(8),I	1	DF	9	P	D001 D002 791 / OUTS 001H
X	6.UN3139,Waste oxidizing liquid,n.o.s., (silver nitrate,sodium chromate),5.1,II	1	DF	10	P	D001 D007 D011 / 551 OUTS 001H
X	7.UN3265,Waste corrosive liquids,acidic,organic, n.o.s.,(oxalic acid),8,II	1	DF	9	P	D002 791 OUTS / 001H
X	8.RQ,UN2024,Waste mercury compounds,liquid,n.o.s., (mercuric chloride,formalin),6.1,II (D009) "toxic" "Marine Pollutant"	1	DF	14	P	D009 725 OUTS / 001H
X	9.UN3289,Waste toxic liquid,corrosive,inorganic, n.o.s.,(gold chloride),6.1,(8),II	1	DF	10	P	D002 791 OUTS / 001H
X	10.UN3264,Waste corrosive liquids,acidic,inorganic, n.o.s.,(hydrochloric acid,ferric chloride),8,II	1	DF	15	P	D002 791 OUTS / 001H
X	11.NA3082,Other regulated substances liquids,n.o.s., (methenamine borate,sodium thiosulfate),9,III	1	DF	11	P	551 OUTS 0011
X	12.NA3082,Other regulated substances liquids,n.o.s., (aqueous formalin,phosphate buffers),9,III	2	DF	100	G	134 OUTS 1011

GENERATOR

32. Special Handling Instructions and Additional Information

ERG# 143

05: Drum#1201-5 : (Labpack)
06: Drum#1201-6 : (Labpack)
07: Drum#1201-7 : (Labpack)
08: Drum#1201-8 : (Labpack)
09: Drum#1201-9 : (Labpack)
10: Drum#1201-10 : (Labpack)
11: Drum#1201-11 : (Labpack)
12: Drum#1201-12A,12B : (Formalin)

140 5: 1 x 5gal poly drum
153 6: 1 x 5gal poly drum
151 7: 1 x 5gal poly drum
154 8: 1 x 5gal poly drum
154
171

9: 1 x 5gal poly drum
10: 1 x 5gal poly drum
11: 1 x 5gal poly drum
12: 2 x 55gal poly drum

13:
14:

TRANSPORTER

33. Transporter _____ Acknowledgment of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

34. Transporter _____ Acknowledgment of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

FACILITY

35. Discrepancy

DESIGNA

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: C A D 9 8 3 5 8 5 3 2 4
2. Page 1 of: 1
3. Emergency Response Phone: NSE: (909) 875-9288
4. Manifest Tracking Number: 007667901 FLE

GENERATOR

5. Generator's Name and Mailing Address
Olive View UCLA Medical Center
1100 N. Eastern Ave.,RM225
Los Angeles CA 90063

Generator's Site Address (if different than mailing address) CD Requested
14445 Olive View Drive
Sylmar CA 91342

Generator's Phone: (818) 364-3405 Attn:Frank Colbert-EH&S Office

6. Transporter 1 Company Name: North State Environmental
U.S. EPA ID Number: C A R 0 0 0 2 0 6 0 8 6

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Pacific Resource Recovery
3150 East Pico Boulevard
Los Angeles CA 90023

Facility's Phone: (800) 499-7145
U.S. EPA ID Number: C A D 0 0 8 2 5 2 4 0 5

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ,UN1993,Waste flammable liquids,n.o.s., (xylene,alcohol),3,II (D001,F003)	4	DF	220	G	D001	F003	212
X	2. RQ,UN1325,Waste flammable solids,organic,n.o.s., (paraffin wax with xylene,alcohol),4.1,II (D001,F003)	1	DF	180	P	D001	F003	331
	3.							
	4.							

14. Special Handling Instructions and Additional Information

	ERG#	
1: Profile#13070179: Oils,pet dist,alcohols,xylenes,glycols,water,stains	128	1: 4 x 55gal poly drum
2: Profile#14010076: Used paraffin wax with alcohol,xylene	133	2: 1 x 55gal fiber drum
		3:
		4:

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: BENJAMIN ALVAREZ
Signature:
Month 12 Day 01 Year 15

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Danny Tapia
Signature:
Month 12 Day 01 Year 15
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H061	H141		

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Jorge Garcia
Signature:
Month 12 Day 17 Year 15

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
C A D 9 8 3 5 8 5 3 2 4	1	NSE: (909) 875-9288	007667901 FLE

GENERATOR

5. Generator's Name and Mailing Address
Olive View UCLA Medical Center
1100 N. Eastern Ave.,RM225
Los Angeles CA 90063

Generator's Site Address (if different than mailing address) CD Requested
14445 Olive View Drive
Sylmar CA 91342

Generator's Phone: (818) 364-3405 Attn:Frank Colbert-EH&S Office

6. Transporter 1 Company Name: North State Environmental
U.S. EPA ID Number: C A R 0 0 0 2 0 6 0 8 6

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Pacific Resource Recovery
3150 East Pico Boulevard
Los Angeles CA 90023

Facility's Phone: (800) 499-7145
U.S. EPA ID Number: C A D 0 0 8 2 5 2 4 0 5

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ,UN1993,Waste flammable liquids,n.o.s., (xylene,alcohol),3,II (D001,F003)	4	DF	220	G	D001	F003	212
X	2. RQ,UN1325,Waste flammable solids,organic,n.o.s., (paraffin wax with xylene,alcohol),4.1,II (D001,F003)	1	DF	180	P	D001	F003	331
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1: Profile#13070179: Oils,pet dist,alcohols,xylenes,glycols,water,stains
2: Profile#14010076: Used paraffin wax with alcohol,xylene

ERG#
128
133

1: 4 x 55gal poly drum
2: 1 x 55gal fiber drum
3:
4:

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: .
Signature:
Month 12 Day 01 Year 15

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Danny Tapia
Signature:
Month 12 Day 01 Year 15

Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name:
Signature:
Month Day Year

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

GENERATOR'S INITIAL COPY

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	C A D 9 8 3 5 8 5 3 2 4	1	NSE: (909) 875-9288	014208828 JJK

5. Generator's Name and Mailing Address
Olive View Medical Center Los Angeles County
14445 Olive View Drive
Sylmar CA 91342
Generator's Phone: (818) 364-3405 Attn: Frank Colbert-EH&S Office

Generator's Site Address (if different than mailing address) CD Requested

6. Transporter 1 Company Name: North State Environmental — U.S. EPA ID Number: C A R 0 0 0 2 0 6 0 8 6

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
US Ecology, Inc.
Hwy 95, 11 miles south of
Beatty NV 89003
Facility's Phone: (775) 553-2203 — U.S. EPA ID Number: N V T 3 3 0 0 1 0 0 0 0

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN1907, Soda lime, 8, PGIII	1	DF	80	P	181
	2. Non-RCRA hazardous waste solid (lab debris)	1	DF	40	P	352
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1: Profile#070127495-904:Spent CO2 absorbent w/ soda lime in plastic cartridges
2: Profile#070128300-9087:Glass/plasticware,rags/paper,gloves,etc.

ERG#
154
N/A

1: 1 x 55gal fiber drum
2: 1 x 55gal fiber drum
3:
4:

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Ben Alvarez — Signature — Month 10 Day 27 Year 15

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Danny Tapia — Signature — Month 10 Day 27 Year 15

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132	H132		

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Tabitha Moore — Signature — Month 11 Day 05 Year 15

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	C A D 9 8 3 5 8 5 3 2 4	1	NSE: (909) 875-9288	014208828 JJK

5. Generator's Name and Mailing Address
Olive View Medical Center Los Angeles County
14445 Olive View Drive
Sylmar CA 91342
Generator's Phone: (818) 364-3405 Attn:Frank Colbert-EH&S Office

Generator's Site Address (if different than mailing address) CD Requested

6. Transporter 1 Company Name: North State Environmental
U.S. EPA ID Number: C A R 0 0 0 2 0 6 0 8 6

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
US Ecology, Inc.
Hwy 95, 11 miles south of
Beatty NV 89003
Facility's Phone: (775) 553-2203
U.S. EPA ID Number: N V T 3 3 0 0 1 0 0 0 0

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN1907, Soda lime, 8, PGIII	1	DF	80	P	181
	2. Non-RCRA hazardous waste solid (lab debris)	1	DF	40	P	352
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1: Profile#070127495-904:Spent CO2 absorbent w/ soda lime in plastic cartridges
2: Profile#070128300-9087:Glass/plasticware,rags/paper,gloves,etc.

ERG#
154
N/A

1: 1 x 55gal fiber drum
2: 1 x 55gal fiber drum
3:
4:

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Ben Alvarez
Signature:
Month 10 Day 27 Year 15

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Danny Tapia
Signature:
Month 10 Day 27 Year 15

Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name:
Signature:
Month Day Year

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

GENERATOR'S INITIAL COPY

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	C A D 9 8 3 5 8 5 3 2 4	1	NSE: (909) 875-9288	01420827 JJK

5. Generator's Name and Mailing Address
Olive View Medical Center Los Angeles County
14445 Olive View Drive
Sylmar CA 91342
Generator's Phone: (818) 364-3405 Attn:Frank Colbert-EH&S Office

Generator's Site Address (if different than mailing address) CD Requested

6. Transporter 1 Company Name: North State Environmental
U.S. EPA ID Number: C A R 0 0 0 2 0 6 0 8 6

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Pacific Resource Recovery
3150 East Pico Boulevard
Los Angeles CA 90023
Facility's Phone: (800) 499-7145
U.S. EPA ID Number: C A D 0 0 8 2 5 2 4 0 5

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. UN1325,Waste flammable solids,organic,n.o.s., (carbon filters),4.1,PGIII	1	DF	50	P	D001	331	
X	2. UN1325,Waste flammable solids,organic,n.o.s., (paraffin wax with xylene,alcohol),4.1,PGII	1	DF	65	P	D001	F003	331
X	3. RQ,UN1993,Waste flammable liquids,n.o.s., (xylene,alcohol),3,PGIII (D001,F003)	3	DF	165	G	D001	F003	212
	4.							

14. Special Handling Instructions and Additional Information

	ERG#	
1: Profile#10020023:Used carbon filters/carbon in cardboard	133	1: 1 x 30gal fiber drum
2: Profile#14010076:Used paraffin wax with alcohol,xylene,limonene	133	2: 1 x 30gal fiber drum
3: Profile#13070179:Alcohols,xylenes,glycols,stains,water,hydrocarbons	128	3: 3 x 55gal poly drum
		4:

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Ben Alvarez
Signature:
Month 10 Day 27 Year 15

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Danny Tapia
Signature:
Month 10 Day 27 Year 15

Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H141	H141	H061	

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Jorge Garcia
Signature:
Month 11 Day 2 Year 15

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	C A D 9 8 3 5 8 5 3 2 4	1	NSE: (909) 875-9288	014208827 JJK

GENERATOR

5. Generator's Name and Mailing Address
Olive View Medical Center Los Angeles County
14445 Olive View Drive
Sylmar CA 91342
Generator's Phone: (818) 364-3405 Attn:Frank Colbert-EH&S Office

Generator's Site Address (if different than mailing address) CD Requested

6. Transporter 1 Company Name: North State Environmental — U.S. EPA ID Number: C A R 0 0 0 2 0 6 0 8 6

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
Pacific Resource Recovery
3150 East Pico Boulevard
Los Angeles CA 90023
Facility's Phone: (800) 499-7145 — U.S. EPA ID Number: C A D 0 0 8 2 5 2 4 0 5

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. UN1325,Waste flammable solids,organic,n.o.s., (carbon filters),4.1,PGIII	1	DF	50	P	D001	331	
X	2. UN1325,Waste flammable solids,organic,n.o.s., (paraffin wax with xylene,alcohol),4.1,PGII	1	DF	65	P	D001	F003	331
X	3. RQ,UN1993,Waste flammable liquids,n.o.s., (xylene,alcohol),3,PGIII (D001,F003)	3	DF	165	G	D001	F003	212
	4.							

14. Special Handling Instructions and Additional Information

	ERG#	
1: Profile#10020023:Used carbon filters/carbon in cardboard	133	1: 1 x 30gal fiber drum
2: Profile#14010076:Used paraffin wax with alcohol,xylene,limonene	133	2: 1 x 30gal fiber drum
3: Profile#13070179:Alcohols,xylenes,glycols,stains,water,hydrocarbons	128	3: 3 x 55gal poly drum
		4:

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Ben Alvarez — Signature — Month 10 Day 27 Year 15

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Danny Tapia — Signature — Month 10 Day 27 Year 15

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name — Signature — Month Day Year

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

GENERATOR'S INITIAL COPY

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	C A D 9 8 3 5 8 5 3 2 4	2	NSE: (909) 875-9288	01208826 JJK

GENERATOR

5. Generator's Name and Mailing Address
Olive View Medical Center Los Angeles County
14445 Olive View Drive
Sylmar CA 91342
Generator's Phone: (818) 364-3405 Attn:Frank Colbert-EH&S Office

Generator's Site Address (if different than mailing address)

CD Requested

This is to inform the generator of the waste shipped on this manifest, that NSSI has the appropriate permits for, and will accept, the waste the generator is shipping.

6. Transporter 1 Company Name
North State Environmental
U.S. EPA ID Number: C A R 0 0 0 2 0 6 0 8 6

7. Transporter 2 Company Name
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
NSSI/Sources & Services, Inc.
5711 Etheridge Street
Houston TX 77087
Facility's Phone: (713) 641-0391
U.S. EPA ID Number: T X D 9 8 2 5 6 0 2 9 4

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. UN2927, Toxic liquids, corrosive, n.o.s., (2.5% glutaraldehyde), (6.1), 8, PGIII	1	DF	7	P	551	OUTS	0011
X	2. UN3099, Waste oxidizing liquids, toxic, n.o.s., (silver nitrate, potassium chromate), 5.1, (6.1), PGIII	1	DF	7	P	D001	D007	D011
						723	OUTS	001H
X	3. UN2693, Waste bisulfites, aqueous solutions, n.o.s., (aqueous sodium bisulfite), 8, PGIII	1	DF	7	P	D002	OUTS	001H
						791		
X	4. UN1789, Waste hydrochloric acid, 8, PGII	1	DF	7	P	D002	OUTS	001H
						791		

14. Special Handling Instructions and Additional Information

	ERG#	
1: Drum#1027-1 (Labpack)	154	1: 1 x 5gal poly drum
2: Drum#1027-2 (Labpack)	142	2: 1 x 5gal poly drum
3: Drum#1027-3 (Labpack)	154	3: 1 x 5gal poly drum
4: Drum#1027-4 (Labpack)	157	4: 1 x 5gal poly drum

ehal03015 96

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: *Ben Alvarez* Signature: [signature] Month: 10 Day: 27 Year: 15

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: *Danny Tapia* Signature: [signature] Month: 10 Day: 27 Year: 15

Transporter 2 Printed/Typed Name: Signature: Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1. H040-07 2. H141 for H 3. H 4. H

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: [illegible] Signature: [signature] Month: 11 Day: 6 Year: 15

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: C A D 9 8 3 5 8 5 3 2 4

2. Page 1 of: 2

3. Emergency Response Phone: NSE: (909) 875-9288

4. Manifest Tracking Number: 014208826 JJK

5. Generator's Name and Mailing Address
Olive View Medical Center Los Angeles County
14445 Olive View Drive
Sylmar CA 91342
Generator's Phone: (818) 364-3405 Attn:Frank Colbert-EH&S Office

Generator's Site Address (if different than mailing address): CD Requested

6. Transporter 1 Company Name: North State Environmental
U.S. EPA ID Number: C A R 0 0 0 2 0 6 0 8 6

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
NSSI/Sources & Services, Inc.
5711 Etheridge Street
Houston TX 77087
Facility's Phone: (713) 641-0391
U.S. EPA ID Number: T X D 9 8 2 5 6 0 2 9 4

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN2927, Toxic liquids, corrosive, n.o.s., (2.5% glutaraldehyde), (6.1), 8, PGIII	1	DF	7	P	551 OUTS 0011
X	2. UN3099, Waste oxidizing liquids, toxic, n.o.s., (silver nitrate, potassium chromate), 5.1, (6.1), PGIII	1	DF	7	P	D001 D007 D011 723 OUTS 001H
X	3. UN2693, Waste bisulfites, aqueous solutions, n.o.s., (aqueous sodium bisulfite), 8, PGIII	1	DF	7	P	D002 OUTS 001H 791
X	4. UN1789, Waste hydrochloric acid, 8, PGII	1	DF	7	P	D002 OUTS 001H 791

14. Special Handling Instructions and Additional Information

	ERG#	
1: Drum#1027-1 (Labpack)	154	1: 1 x 5gal poly drum
2: Drum#1027-2 (Labpack)	142	2: 1 x 5gal poly drum
3: Drum#1027-3 (Labpack)	154	3: 1 x 5gal poly drum
4: Drum#1027-4 (Labpack)	157	4: 1 x 5gal poly drum

ehq1030159b

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: *Ben Alvarez* Signature: [signature] Month 10 Day 27 Year 15

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: *Danny Tapia* Signature: [signature] Month 10 Day 27 Year 15

Transporter 2 Printed/Typed Name: Signature: Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H040 - 07 2. H141 for H 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: R. Foster Signature: [signature] Month 11 Day 6 Year 15

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21. Generator ID Number	22. Page	23. Manifest Tracking Number
	CAD983585324	2 of 2	014208826JJK

24. Generator's Name
Olive View Medical Center Los Angeles County

25. Transporter _____ Company Name — U.S. EPA ID Number

26. Transporter _____ Company Name — U.S. EPA ID Number

This is to inform the generator of the waste shipped on this manifest, that NSSI has the appropriate permits for, and will accept the waste the generator is shipping.

	27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes		
5	X	5.UN2922,Waste corrosive liquids,toxic,n.o.s., (aqueous gold chloride),8,(6.1),PGIII	1	DF	7	P	D002	OUTS	001H
							792		
6	X	6.UN3098,Waste oxidizing liquids,corrosive,n.o.s., (periodic acid,phosphomolybdic acid),5.1,(8),PGII	1	DF	7	P	D001	D002	792
							OUTS	001H	
7	X	7.UN1802,Waste perchloric acid,8,(5.1),PGII	1	DF	7	P	D001	D002	791
							OUTS	001H	
8	X	8.UN2924,Waste flammable liquids,corrosive,n.o.s., (ethanol,hydrochloric acid),3,(8),PGII	1	DF	7	P	D001	D002	791
							OUTS	001H	
9	X	9.UN1344,Waste trinitrophenol,wetted,4.1,PGI	1	DF	7	P	D002	OUTS	001H
							791		
10	X	10.UN2927,Waste toxic liquids,corrosive,n.o.s., (sodium cacodylate,glutaraldehyde),6.1,(8),PGII	1	DF	9	P	D004	OUTS	001H
							721		
11	X	11.UN2810,Toxic liquids,organic,n.o.s., (hydroquinone,phenol),6.1,PGIII	1	DF	7	P	551	OUTS	0011
12	X	12.UN3265,Waste corrosive liquids,acidic,organic, n.o.s.,(acetic acid,formic acid),8,PGII	1	DF	68	P	D002	OUTS	001H
							791		
13	X	13.NA3082,Other regulated substances,liquid,n.o.s., (10% formalin,sodium phosphate),9,PGIII	1	DF	55	G	331	OUTS	1011

32. Special Handling Instructions and Additional Information

06: Drum#1027-6 (Labpack)
07: Drum#1027-7 (Labpack)
08: Drum#1027-8 (Labpack)
09: Drum#1027-9 (Labpack)
10: Drum#1027-10 (Labpack)
11: Drum#1027-11 (Labpack)
12: Drum#1027-12 (Labpack)
13: Drum#1027-13 (Bulk)

ehg10301596

ERG#
154 5: 1 x 5gal poly drum
140 6: 1 x 5gal poly drum
132 7: 1 x 5gal poly drum
113 8: 1 x 5gal poly drum
154 9: 1 x 5gal poly drum
153 10: 1 x 5gal poly drum
153 11: 1 x 5gal poly drum
171 12: 1 x 5gal poly drum
13: 1 x 55gpd-BULK
14:

303 fd

TRANSPORTER

33. Transporter _____ Acknowledgment of Receipt of Materials
Printed/Typed Name | Signature | Month | Day | Year

34. Transporter _____ Acknowledgment of Receipt of Materials
Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

35. Discrepancy

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

H040-OV / H141 for 11 D-13

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21. Generator ID Number	22. Page	23. Manifest Tracking Number
	CAD983585324	2 of 2	014208826JJK

24. Generator's Name: **Olive View Medical Center Los Angeles County**

25. Transporter _____ Company Name — U.S. EPA ID Number

26. Transporter _____ Company Name — U.S. EPA ID Number

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes		
X	5.UN2922,Waste corrosive liquids,toxic,n.o.s., (aqueous gold chloride),8,(6.1),PGIII	1	DF	7	P	D002	OUTS	001H
						792		
X	6.UN3098,Waste oxidizing liquids,corrosive,n.o.s., (periodic acid,phosphomolybdic acid),5.1,(8),PGII	1	DF	7	P	D001	D002	792
						OUTS	001H	
X	7.UN1802,Waste perchloric acid,8,(5.1),PGII	1	DF	7	P	D001	D002	791
						OUTS	001H	
X	8.UN2924,Waste flammable liquids,corrosive,n.o.s., (ethanol,hydrochloric acid),3,(8),PGII	1	DF	7	P	D001	D002	791
						OUTS	001H	
X	9.UN1344,Waste trinitrophenol,wetted,4.1,PGI	1	DF	7	P	D002	OUTS	001H
						791		
X	10.UN2927,Waste toxic liquids,corrosive,n.o.s., (sodium cacodylate,glutaraldehyde),6.1,(8),PGII	1	DF	9	P	D004	OUTS	001H
						721		
X	11.UN2810,Toxic liquids,organic,n.o.s., (hydroquinone,phenol),6.1,PGIII	1	DF	7	P	551	OUTS	0011
X	12.UN3265,Waste corrosive liquids,acidic,organic, n.o.s.,(acetic acid,formic acid),8,PGII	1	DF	68	P	D002	OUTS	001H
						791		
X	13.NA3082,Other regulated substances,liquid,n.o.s., (10% formalin,sodium phosphate),9,PGIII	1	DF	55	G	331	OUTS	1011

32. Special Handling Instructions and Additional Information

03: Drum#1027-3 (Labpack)
06: Drum#1027-6 (Labpack)
07: Drum#1027-7 (Labpack)
08: Drum#1027-8 (Labpack)
09: Drum#1027-9 (Labpack)
10: Drum#1027-10 (Labpack)
11: Drum#1027-11 (Labpack)
12: Drum#1027-12 (Labpack)
13: Drum#1027-13 (Bulk)

ehg10301536

ERG#
154 5: 1 x 5gal poly drum
140 6: 1 x 5gal poly drum
140 7: 1 x 5gal poly drum
132 8: 1 x 5gal poly drum
113 9: 1 x 5gal poly drum
154 10: 1 x 5gal poly drum
153 11: 1 x 5gal poly drum
153 12: 1 x ~~5gal poly drum~~ 30gal
171 13: 1 x 55gpd-BULK
14:

TRANSPORTER

33. Transporter _____ Acknowledgment of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

34. Transporter _____ Acknowledgment of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

35. Discrepancy

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
H040-01 / H141 for 11 D-13

EPA Form 8700-22A (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: C A D 9 8 3 5 8 5 3 2 4

2. Page 1 of: 2

3. Emergency Response Phone: NSE: (909) 875-9288

4. Manifest Tracking Number: 014208826 JJK

5. Generator's Name and Mailing Address
Olive View Medical Center Los Angeles County
14445 Olive View Drive
Sylmar CA 91342
Generator's Phone: (818) 364-3405 Attn:Frank Colbert-EH&S Office

Generator's Site Address (if different than mailing address): CD Requested

6. Transporter 1 Company Name: North State Environmental
U.S. EPA ID Number: C A R 0 0 0 2 0 6 0 8 6

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
NSSI/Sources & Services,Inc.
5711 Etheridge Street
Houston TX 77087
Facility's Phone: (713) 641-0391
U.S. EPA ID Number: T X D 9 8 2 5 6 0 2 9 4

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. UN2927,Toxic liquids,corrosive,n.o.s., (2.5% glutaraldehyde),(6.1),8,PGIII	1	DF	7	P	551	OUTS	0011
X	2. UN3099,Waste oxidizing liquids,toxic,n.o.s., (silver nitrate,potassium chromate),5.1,(6.1),PGIII	1	DF	7	P	D001 / 723	D007 / OUTS	D011 / 001H
X	3. UN2693,Waste bisulfites,aqueous solutions,n.o.s., (aqueous sodium bisulfite),8,PGIII	1	DF	7	P	D002 / 791	OUTS	001H
X	4. UN1789,Waste hydrochloric acid,8,PGII	1	DF	7	P	D002 / 791	OUTS	001H

14. Special Handling Instructions and Additional Information

	ERG#	
1: Drum#1027-1 (Labpack)	154	1: 1 x 5gal poly drum
2: Drum#1027-2 (Labpack)	142	2: 1 x 5gal poly drum
3: Drum#1027-3 (Labpack)	154	3: 1 x 5gal poly drum
4: Drum#1027-4 (Labpack)	157	4: 1 x 5gal poly drum

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Ben Alvarez
Signature:
Month 10 Day 27 Year 15

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Danny Tapia
Signature:
Month 10 Day 27 Year 15

Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name:
Signature:
Month Day Year

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

GENERATOR'S INITIAL COPY

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21. Generator ID Number	22. Page	23. Manifest Tracking Number
	C A D 9 8 3 5 8 5 3 2 4	2 of 2	014208826JJK

24. Generator's Name
Olive View Medical Center Los Angeles County

25. Transporter _____ Company Name — U.S. EPA ID Number

26. Transporter _____ Company Name — U.S. EPA ID Number

GENERATOR

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes		
X	5.UN2922,Waste corrosive liquids,toxic,n.o.s., (aqueous gold chloride),8,(6.1),PGIII	1	DF	7	P	D002 792	OUTS	001H
X	6.UN3098,Waste oxidizing liquids,corrosive,n.o.s., (periodic acid,phosphomolybdic acid),5.1,(8),PGII	1	DF	7	P	D001 OUTS	D002 001H	792
X	7.UN1802,Waste perchloric acid,8,(5.1),PGII	1	DF	7	P	D001 OUTS	D002 001H	791
X	8.UN2924,Waste flammable liquids,corrosive,n.o.s., (ethanol,hydrochloric acid),3,(8),PGII	1	DF	7	P	D001 OUTS	D002 001H	791
X	9.UN1344,Waste trinitrophenol,wetted,4.1,PGI	1	DF	7	P	D002 791	OUTS	001H
X	10.UN2927,Waste toxic liquids,corrosive,n.o.s., (sodium cacodylate,glutaraldehyde),6.1,(8),PGII	1	DF	9	P	D004 721	OUTS	001H
X	11.UN2810,Toxic liquids,organic,n.o.s., (hydroquinone,phenol),6.1,PGIII	1	DF	7	P	551	OUTS	0011
X	12.UN3265,Waste corrosive liquids,acidic,organic, n.o.s.,(acetic acid,formic acid),8,PGII	1	DF	68	P	D002 791	OUTS	001H
X	13.NA3082,Other regulated substances,liquid,n.o.s., (10% formalin,sodium phosphate),9,PGIII	1	DF	55	G	331	OUTS	1011

32. Special Handling Instructions and Additional Information

ERG#
05: Drum#1027-5 (Labpack) 154
06: Drum#1027-6 (Labpack) 140
07: Drum#1027-7 (Labpack) 140
08: Drum#1027-8 (Labpack) 132
09: Drum#1027-9 (Labpack) 113
10: Drum#1027-10 (Labpack) 154
11: Drum#1027-11 (Labpack) 153
12: Drum#1027-12 (Labpack) 153
13: Drum#1027-13 (Bulk) 171

5: 1 x 5gal poly drum
6: 1 x 5gal poly drum
7: 1 x 5gal poly drum
8: 1 x 5gal poly drum
9: 1 x 5gal poly drum
10: 1 x 5gal poly drum
11: 1 x 5gal poly drum
12: 1 x 5gal poly drum
13: 1 x 55gpd-BULK
14:

TRANSPORTER

33. Transporter _____ Acknowledgment of Receipt of Materials
Printed/Typed Name — Signature — Month — Day — Year

34. Transporter _____ Acknowledgment of Receipt of Materials
Printed/Typed Name — Signature — Month — Day — Year

FACILITY

35. Discrepancy

DESIGN

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
CAD983585324	1	NSE: (909)875-9288	007668118 FLE

GENERATOR

5. Generator's Name and Mailing Address
Olive View UCLA Medical Center
1100 N. Eastern Ave.,RM225
Los Angeles CA 90063

Generator's Site Address (if different than mailing address) CD Requested
14445 Olive View Drive
Sylmar CA 91342

Generator's Phone: (818)364-3405 Attn:Frank Colbert-EH&S Office

6. Transporter 1 Company Name: North State Environmental — U.S. EPA ID Number: CAR000206086

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
US Ecology, Inc.
Hwy 95, 11 miles south of
Beatty NV 89003

U.S. EPA ID Number: NVT330010000

Facility's Phone: (775)553-2203

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN1907,Soda lime,8,III	2	DF	230	P	181
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1: Profile#070127495-903:Used carbon dioxide absorbent w/ soda lime in plastic cartridge
ERG# 154

1: 2 x 55gal fiber drum
2:
3:
4:

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: [illegible] — Signature: [signature] — Month 09 Day 29 Year 15

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Danny Topia — Signature: [signature] — Month 09 Day 29 Year 15

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Jessica Neill — Signature: [signature] — Month 10 Day 1 Year 15

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: C A D 9 8 3 5 8 5 3 2 4

2. Page 1 of: 1

3. Emergency Response Phone: NSE: (909) 875-9288

4. Manifest Tracking Number: 007668118 FLE

5. Generator's Name and Mailing Address
Olive View UCLA Medical Center
1100 N. Eastern Ave.,RM225
Los Angeles CA 90063

Generator's Site Address (if different than mailing address) CD Requested
14445 Olive View Drive
Sylmar CA 91342

Generator's Phone: (818) 364-3405 Attn:Frank Colbert-EH&S Office

6. Transporter 1 Company Name: North State Environmental
U.S. EPA ID Number: C A R 0 0 0 2 0 6 0 8 6

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
US Ecology, Inc.
Hwy 95, 11 miles south of
Beatty NV 89003
U.S. EPA ID Number

Facility's Phone: (775) 553-2203
N V T 3 3 0 0 1 0 0 0 0

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN1907,Soda lime,8,III	2	DF	230	P	181
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1: Profile#070127495-903:Used carbon dioxide absorbent w/ soda lime in plastic cartridge
ERG# 154
1: 2 x 55gal fiber drum
2:
3:
4:

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: [illegible] Signature: [illegible] Month 09 Day 29 Year 15

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Danny Topia Signature: [illegible] Month 09 Day 29 Year 15
Transporter 2 Printed/Typed Name: Signature: Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name Signature Month Day Year

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

GENERATOR'S INITIAL COPY

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: C A D 9 8 3 5 8 5 3 2 4

2. Page 1 of: 1

3. Emergency Response Phone: NSE: (909) 875-9288

4. Manifest Tracking Number: 00766811.7 FLE

5. Generator's Name and Mailing Address
Olive View UCLA Medical Center
1100 N. Eastern Ave.,RM225
Los Angeles CA 90063

Generator's Site Address (if different than mailing address)
CD Requested
14445 Olive View Drive
Sylmar CA 91342

Generator's Phone: (818) 364-3405 Attn:Frank Colbert-EH&S Office

6. Transporter 1 Company Name: North State Environmental
U.S. EPA ID Number: C A R 0 0 0 2 0 6 0 8 6

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Pacific Resource Recovery
3150 East Pico Boulevard
Los Angeles CA 90023
Facility's Phone: (800) 499-7145
U.S. EPA ID Number: C A D 0 0 8 2 5 2 4 0 5

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ,UN1993,Waste flammable liquids,n.o.s., (xylene,alcohol),3,II (D001,F003)	5	DF	250	G	D001	F003	212
X	2. RQ,UN1325,Waste flammable solids,organic,n.o.s., (paraffin wax with xylene,alcohol),4.1,II (D001,F003)	1	DF	190	P	D001	F003	331
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1: Profile#13070179: Oils,pet dist,alcohols,xylenes,glycols,water,stains
2: Profile#14010076: Used paraffin wax with alcohol,xylene

ERG#
128
133

1: 5 x 55gal poly drum
2: 1 x 55gal poly drum
3:
4:

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: BENJAMIN ALVAREZ
Signature:
Month Day Year: 09 29 15

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Danny Topia
Signature:
Month Day Year: 09 29 15

Transporter 2 Printed/Typed Name:
Signature:
Month Day Year:

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H061	H141		

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Jorge Garcia
Signature:
Month Day Year: 10 5 15

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
CAD983585324	1	NSE: (909)875-9288	007668117 FLE

GENERATOR

5. Generator's Name and Mailing Address
Olive View UCLA Medical Center
1100 N. Eastern Ave.,RM225
Los Angeles CA 90063

Generator's Site Address (if different than mailing address) **CD Requested**
14445 Olive View Drive
Sylmar CA 91342

Generator's Phone: (818)364-3405 Attn:Frank Colbert-EH&S Office

6. Transporter 1 Company Name
North State Environmental

U.S. EPA ID Number
CAR000206086

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
Pacific Resource Recovery
3150 East Pico Boulevard
Los Angeles CA 90023

U.S. EPA ID Number

Facility's Phone: (800)499-7145

CAD008252405

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ,UN1993,Waste flammable liquids,n.o.s., (xylene,alcohol),3,II (D001,F003)	5	DF	250	G	D001	F003	212
X	2. RQ,UN1325,Waste flammable solids,organic,n.o.s., (paraffin wax with xylene,alcohol),4.1,II (D001,F003)	1	DF	190	P	D001	F003	331
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1: Profile#13070179: Oils,pet dist,alcohols,xylenes,glycols,water,stains
2: Profile#14010076: Used paraffin wax with alcohol,xylene

ERG#
128
133

1: 5 x 55gal poly drum
2: 1 x 55gal poly drum
3:
4:

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name | Signature | Month 09 | Day 29 | Year 15

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Danny Topia | Signature | Month 09 | Day 29 | Year 15

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) | U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) | Month | Day | Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name | Signature | Month | Day | Year

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

GENERATOR'S INITIAL COPY

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	CAD983585324	2	NSE: (909) 875-9288	007668116 FLE

5. Generator's Name and Mailing Address
Olive View UCLA Medical Center
1100 N. Eastern Ave.,RM225
Los Angeles CA 90063
Generator's Phone: (818) 364-3405 Attn:Frank Colbert-EH&S Office

Generator's Site Address (if different than mailing address) CD Requested
14445 Olive View Drive
Sylmar CA, 91342

This is to inform the generator of the waste shipped on this manifest, that NSSI has the appropriate permits for, and will accept, the waste the generator is shipping.

6. Transporter 1 Company Name
North State Environmental
U.S. EPA ID Number
CAR000206086

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
NSSI/Sources & Services,Inc.
5711 Etheridge Street
Houston TX 77087
Facility's Phone: (713) 641-0391
U.S. EPA ID Number
TXD982560294

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN2924,Waste flammable liquids,corrosive,n.o.s., (formic acid,methanol),3,(8),II	1	DF	14	P	D001 D002 791 OUTS 001H
X	2. UN1344,Waste trinitrophenol,wetted,4.1,I	1	DF	13	P	D001 D002 551 OUTS 001H
X	3. UN2922,Waste corrosive liquid,toxic,n.o.s., (gold chloride),8,(6.1),II	1	DF	11	P	D002 792 OUTS 001H
X	4. UN3264,Waste corrosive liquids,acidic,inorganic, n.o.s.,(ferric chloride,hydrochloric acid),8,II	1	DF	13	P	D002 791 OUTS 001H

14. Special Handling Instructions and Additional Information

	ERG#	
1: Drum#0929-1 : (Labpack)	132	1: 1 x 5gal poly drum
2: Drum#0929-2 : (Labpack)	113	2: 1 x 5gal poly drum
3: Drum#0929-3 : (Labpack)	154	3: 1 x 5gal poly drum
4: Drum#0929-4 : (Labpack)	154	4: 1 x 5gal poly drum

eh9100615 99

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: BENJAMIN LUCERO
Signature
Month 09 Day 29 Year 15

INT'L
16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER
17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Danny Topia
Signature
Month 09 Day 29 Year 15
Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY
18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator)
Month Day Year
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H040-07 2. H141 for #1-4 3. 4.
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: R. Foston
Signature
Month 10 Day 7 Year 15

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
CAD983585324	2	NSE: (909) 875-9288	007668116 FLE

GENERATOR

5. Generator's Name and Mailing Address
Olive View UCLA Medical Center
1100 N. Eastern Ave.,RM225
Los Angeles CA 90063

Generator's Site Address (if different than mailing address) **CD Requested**
14445 Olive View Drive
Sylmar CA 91342

Generator's Phone: (818) 364-3405 Attn:Frank Colbert-EH&S | Office

6. Transporter 1 Company Name
North State Environmental
U.S. EPA ID Number: CAR000206086

7. Transporter 2 Company Name
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
NSSI/Sources & Services,Inc.
5711 Etheridge Street
Houston TX 77087
U.S. EPA ID Number
Facility's Phone: (713) 641-0391
TXD982560294

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN2924,Waste flammable liquids,corrosive,n.o.s., (formic acid,methanol),3,(8),II	1	DF	14	P	D001 D002 791 / OUTS 001H
X	2. UN1344,Waste trinitrophenol,wetted,4.1,I	1	DF	13	P	D001 D002 551 / OUTS 001H
X	3. UN2922,Waste corrosive liquid,toxic,n.o.s., (gold chloride),8,(6.1),II	1	DF	11	P	D002 792 OUTS / 001H
X	4. UN3264,Waste corrosive liquids,acidic,inorganic, n.o.s.,(ferric chloride,hydrochloric acid),8,II	1	DF	13	P	D002 791 OUTS / 001H

14. Special Handling Instructions and Additional Information

	ERG#	
1: Drum#0929-1 : (Labpack)	132	1: 1 x 5gal poly drum
2: Drum#0929-2 : (Labpack)	113	2: 1 x 5gal poly drum
3: Drum#0929-3 : (Labpack)	154	3: 1 x 5gal poly drum
4: Drum#0929-4 : (Labpack)	154	4: 1 x 5gal poly drum

ehq1006159

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Benjamin Lucret — Signature — Month 09 Day 29 Year 15

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Danny Topia — Signature — Month 09 Day 29 Year 15

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1. H040-07 | 2. H141 for H-A | 3. | 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: R. Foston — Signature — Month 10 Day 7 Year 15

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21. Generator ID Number	22. Page	23. Manifest Tracking Number
	CAD983585324	2 of 2	007668116FLE

24. Generator's Name
Olive View UCLA Medical Center

25. Transporter _____ Company Name — U.S. EPA ID Number

26. Transporter _____ Company Name — U.S. EPA ID Number

This is to inform the generator of the waste shipped on this manifest, that NSSI has the appropriate permits for, and will accept the waste the generator is shipping.

GENERATOR

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes		
X	5.UN3098,Waste oxidizing liquid,corrosive,n.o.s., (phosphotungstic acid,phosphomolybdic acid), 5.1,(8),II	1	DF	11	P	D001	D002	791
						OUTS	001H	
X	6.UN1500,Waste sodium nitrite solution,5.1,(6.1),II	1	DF	11	P	D001	551	OUTS
						001H		
X	7.UN1247,Waste methyl methacrylate monomer, 3,II	1	DF	14	P	D001	U162	551
						OUTS	001H	
X	8.UN3265,Waste corrosive liquids,acidic,organic, n.o.s.,(acetic acid,sodium metabisulfite),8,II	1	DF	78	P	D002	791	OUTS
						001H		
X	9.UN1362,Waste carbon,activated,4.2,III DOT-SP13192	1	DF	55	P	D001	551	OUTS
						001H		
X	10.UN1903,Waste disinfectant,liquid,corrosive,n.o.s., (isopropanol,diisobutylphenoxydimethyl benzyl ammonium chloride),8,III	1	DF	10	P	D001	551	OUTS
						001H		
X	11.NA3082,Other regulated substances liquids,n.o.s., (aqueous formalin,phosphate buffers,9,III	2	DF	110	G	134	OUTS	1011
X	12.NA3082,Other regulated substances liquids,n.o.s., (aqueous diaminobenzidine,polyethylene glycol), 9,III	1	DF	55	G	134	OUTS	1011

32. Special Handling Instructions and Additional Information

05: Drum#0929-5 : (Labpack)
06: Drum#0929-6 : (Labpack)
07: Drum#0929-7 : (Labpack)
08: Drum#0929-8 : (Labpack)
09: Drum#0929-9 : (Labpack)
10: Drum#0929-10 : (Labpack)
11: Drum#0929-11A,11B : (Formalin)
12: Drum#0929-12 : (DAB)

ERG# 140 140 129P 153 133 153 171 171

5: 1 x 5gal poly drum
6: 1 x 5gal poly drum
7: 1 x 5gal poly drum
8: 1 x 30gal fiber drum
9: 1 x 30gal fiber drum
10: 1 x 5gal poly drum
11: 2 x 55gal poly drum
12: 1 x 55gal poly drum
13:
14:

TRANSPORTER

33. Transporter _____ Acknowledgment of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

34. Transporter _____ Acknowledgment of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

FACILITY

35. Discrepancy

DESIGN

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
H040-07 / H141 for 11 5-12

EPA Form 8700-22A (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21. Generator ID Number	22. Page	23. Manifest Tracking Number
	CAD983585324	2 of 2	007668116FLE

24. Generator's Name: **Olive View UCLA Medical Center**

25. Transporter _____ Company Name — U.S. EPA ID Number

26. Transporter _____ Company Name — U.S. EPA ID Number

GENERATOR

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes		
X	5.UN3098,Waste oxidizing liquid,corrosive,n.o.s., (phosphotungstic acid,phosphomolybdic acid), 5.1,(8),II	1	DF	11	P	D001	D002	791
						OUTS	001H	
X	6.UN1500,Waste sodium nitrite solution,5.1,(6.1),II	1	DF	11	P	D001	551	OUTS
						001H		
X	7.UN1247,Waste methyl methacrylate monomer, 3,II	1	DF	14	P	D001	U162	551
						OUTS	001H	
X	8.UN3265,Waste corrosive liquids,acidic,organic, n.o.s.,(acetic acid,sodium metabisulfite),8,II	1	DF	78	P	D002	791	OUTS
						001H		
X	9.UN1362,Waste carbon,activated,4.2,III DOT-SP13192	1	DF	55	P	D001	551	OUTS
						001H		
X	10.UN1903,Waste disinfectant,liquid,corrosive,n.o.s., (isopropanol,diisobutylphenoxydimethyl benzyl ammonium chloride),8,III	1	DF	10	P	D001	551	OUTS
						001H		
X	11.NA3082,Other regulated substances liquids,n.o.s., (aqueous formalin,phosphate buffers,9,III	2	DF	110	G	134	OUTS	1011
X	12.NA3082,Other regulated substances liquids,n.o.s., (aqueous diaminobenzidine,polyethylene glycol), 9,III	1	DF	55	G	134	OUTS	1011

32. Special Handling Instructions and Additional Information

05: Drum#0929-5 : (Labpack)
06: Drum#0929-6 : (Labpack)
07: Drum#0929-7 : (Labpack)
08: Drum#0929-8 : (Labpack)
09: Drum#0929-9 : (Labpack)
10: Drum#0929-10 : (Labpack)
11: Drum#0929-11A,11B : (Formalin)
12: Drum#0929-12 : (DAB)

ehg 10/06/15 9

ERG#		
140	5: 1 x 5gal poly drum	9: 1 x 30gal fiber drum
140	6: 1 x 5gal poly drum	10: 1 x 5gal poly drum
129P	7: 1 x 5gal poly drum	11: 2 x 55gal poly drum
153	8: 1 x 30gal fiber drum	12: 1 x 55gal poly drum
133		
153		
171		
171		

13:
14:

TRANSPORTER

33. Transporter _____ Acknowledgment of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

34. Transporter _____ Acknowledgment of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

FACILITY

35. Discrepancy

DESIGN

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

H040-07 / H141 for H — 5-17

EPA Form 8700-22A (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21. Generator ID Number	22. Page	23. Manifest Tracking Number
	C A D 9 8 3 5 8 5 3 2 4	2 of 2	007668116FLE

24. Generator's Name

Olive View UCLA Medical Center

25. Transporter _____ Company Name — U.S. EPA ID Number

26. Transporter _____ Company Name — U.S. EPA ID Number

GENERATOR

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes		
X	5.UN3098,Waste oxidizing liquid,corrosive,n.o.s., (phosphotungstic acid,phosphomolybdic acid), 5.1,(8),II	1	DF	11	P	D001	D002	791
						OUTS	001H	
X	6.UN1500,Waste sodium nitrite solution,5.1,(6.1),II	1	DF	11	P	D001	551	OUTS
						001H		
X	7.UN1247,Waste methyl methacrylate monomer, 3,II	1	DF	14	P	D001	U162	551
						OUTS	001H	
X	8.UN3265,Waste corrosive liquids,acidic,organic, n.o.s.,(acetic acid,sodium metabisulfite),8,II	1	DF	78	P	D002	791	OUTS
						001H		
X	9.UN1362,Waste carbon,activated,4.2,III DOT-SP13192	1	DF	55	P	D001	551	OUTS
						001H		
X	10.UN1903,Waste disinfectant,liquid,corrosive,n.o.s., (isopropanol,diisobutylphenoxydimethyl benzyl ammonium chloride),8,III	1	DF	10	P	D001	551	OUTS
						001H		
X	11.NA3082,Other regulated substances liquids,n.o.s., (aqueous formalin,phosphate buffers,9,III	2	DF	110	G	134	OUTS	1011
X	12.NA3082,Other regulated substances liquids,n.o.s., (aqueous diaminobenzidine,polyethylene glycol), 9,III	1	DF	55	G	134	OUTS	1011

32. Special Handling Instructions and Additional Information

	ERG#
05: Drum#0929-5 : (Labpack)	140
06: Drum#0929-6 : (Labpack)	140
07: Drum#0929-7 : (Labpack)	129P
08: Drum#0929-8 : (Labpack)	153
09: Drum#0929-9 : (Labpack)	153
10: Drum#0929-10 : (Labpack)	153
11: Drum#0929-11A,11B : (Formalin)	171
12: Drum#0929-12 : (DAB)	171

5: 1 x 5gal poly drum
6: 1 x 5gal poly drum
7: 1 x 5gal poly drum
8: 1 x 30gal fiber drum
9: 1 x 30gal fiber drum
10: 1 x 5gal poly drum
11: 2 x 55gal poly drum
12: 1 x 55gal poly drum
13:
14:

TRANSPORTER

33. Transporter _____ Acknowledgment of Receipt of Materials

Printed/Typed Name — Signature — Month — Day — Year

34. Transporter _____ Acknowledgment of Receipt of Materials

Printed/Typed Name — Signature — Month — Day — Year

FACILITY

35. Discrepancy

DESIGN

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
C A D 9 8 3 5 8 5 3 2 4	2	NSE: (909) 875-9288	007668116 FLE

GENERATOR

5. Generator's Name and Mailing Address
Olive View UCLA Medical Center
1100 N. Eastern Ave.,RM225
Los Angeles CA 90063

Generator's Site Address (if different than mailing address) **CD Requested**
14445 Olive View Drive
Sylmar CA 91342

Generator's Phone: (818) 364-3405 Attn:Frank Colbert-EH&S Office

6. Transporter 1 Company Name
North State Environmental

U.S. EPA ID Number
C A R 0 0 0 2 0 6 0 8 6

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
NSSI/Sources & Services,Inc.
5711 Etheridge Street
Houston TX 77087

U.S. EPA ID Number

Facility's Phone: (713) 641-0391

T X D 9 8 2 5 6 0 2 9 4

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. UN2924,Waste flammable liquids,corrosive,n.o.s., (formic acid,methanol),3,(8),II	1	DF	14	P	D001	D002	791
						OUTS	001H	
X	2. UN1344,Waste trinitrophenol,wetted,4.1,I	1	DF	13	P	D001	D002	551
						OUTS	001H	
X	3. UN2922,Waste corrosive liquid,toxic,n.o.s., (gold chloride),8,(6.1),II	1	DF	11	P	D002	792	OUTS
						001H		
X	4. UN3264,Waste corrosive liquids,acidic,inorganic, n.o.s.,(ferric chloride,hydrochloric acid),8,II	1	DF	13	P	D002	791	OUTS
						001H		

14. Special Handling Instructions and Additional Information

	ERG#	
1: Drum#0929-1 : (Labpack)	132	1: 1 x 5gal poly drum
2: Drum#0929-2 : (Labpack)	113	2: 1 x 5gal poly drum
3: Drum#0929-3 : (Labpack)	154	3: 1 x 5gal poly drum
4: Drum#0929-4 : (Labpack)	154	4: 1 x 5gal poly drum

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name — Signature — Month 09 Day 29 Year 15

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Danny Topia — Signature — Month 09 Day 29 Year 15

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name — Signature — Month Day Year

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
CAD983585324	1	NSE: (909) 875-9288	007668078 FLE

GENERATOR

5. Generator's Name and Mailing Address
Olive View UCLA Medical Center
1100 N. Eastern Ave.,RM225
Los Angeles CA 90063

Generator's Site Address (if different than mailing address) **CD Requested**
14445 Olive View Drive
Sylmar CA 91342

Generator's Phone: (818) 364-3405 Attn:Frank Colbert-EH&S | Office

6. Transporter 1 Company Name: North State Environmental
U.S. EPA ID Number: CAR000206086

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
US Ecology, Inc.
Hwy 95, 11 miles south of
Beatty NV 89003

Facility's Phone: (775) 553-2203
U.S. EPA ID Number: NVT330010000

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN1907,Soda lime,8,III	1	DF	81	P	181
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1: Profile#070127495-903:Used carbon dioxide absorbent

ERG# 154

1: 1 x 15gal fiber drum 1 x 30gfd
2: 1 x 15gal fiber drum
3: 1 x 5gal poly drum
4: 1 x 5gal poly drum

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: J. Bentham Alvarez
Signature:
Month 08 Day 25 Year 15

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Leo Cervantes
Signature:
Month 08 Day 25 Year 15

Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Kevin Reid
Signature:
Month 9 Day 3 Year 15

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
C A D 9 8 3 5 8 5 3 2 4	1	NSE: (909) 875-9288	007668078 FLE

5. Generator's Name and Mailing Address
Olive View UCLA Medical Center
1100 N. Eastern Ave.,RM225
Los Angeles CA 90063

Generator's Site Address (if different than mailing address) **CD Requested**
14445 Olive View Drive
Sylmar CA 91342

Generator's Phone: (818) 364-3405 Attn:Frank Colbert-EH&S | Office

6. Transporter 1 Company Name
North State Environmental

U.S. EPA ID Number
C A R 0 0 0 2 0 6 0 8 6

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
US Ecology, Inc.
Hwy 95, 11 miles south of
Beatty NV 89003

U.S. EPA ID Number

Facility's Phone: (775) 553-2203

N V T 3 3 0 0 1 0 0 0 0

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN1907,Soda lime,8,III	1	DF	81	P	181
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1: Profile#070127495-903:Used carbon dioxide absorbent

ERG# 154

1: 1 x 15gal fiber drum
2: 1 x 15gal fiber drum
3: 1 x 5gal poly drum
4: 1 x 5gal poly drum

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name | Signature | Month 08 | Day 25 | Year 15

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Leo Cervantes | Signature | Month 08 | Day 25 | Year 15

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) | U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) | Month | Day | Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name | Signature | Month | Day | Year

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
CAD983585324	1	NSE: (909) 875-9288	007668077 FLE

GENERATOR

5. Generator's Name and Mailing Address
Olive View UCLA Medical Center
1100 N. Eastern Ave.,RM225
Los Angeles CA 90063

Generator's Site Address (if different than mailing address)
CD Requested
14445 Olive View Drive
Sylmar CA 91342

Generator's Phone: (818) 364-3405 Attn:Frank Colbert-EH&S Office

6. Transporter 1 Company Name
North State Environmental
U.S. EPA ID Number: CAR000206086

7. Transporter 2 Company Name
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Pacific Resource Recovery
3150 East Pico Boulevard
Los Angeles CA 90023
Facility's Phone: (800) 499-7145
U.S. EPA ID Number: CAD008252405

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ,UN1993,Waste flammable liquids,n.o.s., (alcohol,methanol),3,II (D001,F003)	3	DF	150	G	D001	F003	331
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1: Profile#pending: Solvent with methanol,alcohol,organic stains 1307079 ERG# 128
1: 3 x 55gal poly drum
2:
3:
4:

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Armando Alvarez — Signature — Month 08 Day 25 Year 15

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: ~~Leo Cervantes~~ David Spano — Signature — Month 08 Day 25 Year 15

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☒ Full Rejection

NONCONFORMING TO PROFILE (1x14F55) Manifest Reference Number: 014214551JJK

18b. Alternate Facility (or Generator) U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H061			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Jorge Garcia — Signature — Month 8 Day 28 Year 15

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
C A D 9 8 3 5 8 5 3 2 4	1	NSE: (909) 875-9288	007668077 FLE

GENERATOR

5. Generator's Name and Mailing Address
Olive View UCLA Medical Center
1100 N. Eastern Ave.,RM225
Los Angeles CA 90063

Generator's Site Address (if different than mailing address) **CD Requested**
14445 Olive View Drive
Sylmar CA 91342

Generator's Phone: (818) 364-3405 Attn:Frank Colbert-EH&S | Office

6. Transporter 1 Company Name
North State Environmental

U.S. EPA ID Number
C A R 0 0 0 2 0 6 0 8 6

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
Pacific Resource Recovery
3150 East Pico Boulevard
Los Angeles CA 90023

U.S. EPA ID Number

Facility's Phone: (800) 499-7145

C A D 0 0 8 2 5 2 4 0 5

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ,UN1993,Waste flammable liquids,n.o.s., (alcohol,methanol),3,II (D001,F003)	3	DF	150	G	D001	F003	331
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1: Profile#pending: Solvent with methanol,alcohol,organic stains

ERG# 128

1: 3 x 55gal poly drum
2:
3:
4:

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name | Signature | Month 08 | Day 25 | Year 15

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Leo Cervantes | Signature | Month 08 | Day 25 | Year 15

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) | U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) | Month | Day | Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name | Signature | Month | Day | Year

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
CAD983585324	2	NSE: (909) 875-9288	007668075 FLE

5. Generator's Name and Mailing Address
Olive View UCLA Medical Center
1100 N. Eastern Ave.,RM225
Los Angeles CA 90063
Generator's Phone: (818) 364-3405 Attn:Frank Colbert-EH&S

Generator's Site Address (if different than mailing address)
14445 Olive View Drive
Sylmar CA 91342
Office

CD Requested

This is to inform the generator of the waste shipped on this manifest, that NSSI has the appropriate permits and will accept the waste the generator is shipping.

6. Transporter 1 Company Name
North State Environmental
U.S. EPA ID Number
CAR000206086

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
NSSI/Sources & Services,Inc.
5711 Etheridge Street
Houston TX 77087
Facility's Phone: (713) 641-0391
U.S. EPA ID Number
TXD982560294

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. UN1362,Waste carbon,activated,4.2,III DOT-SP13192	1	DF	40	P	D001	551	
X	2. UN3265,Waste corrosive liquids,acidic,organic, n.o.s.,(acetic acid,alcian blue),8,II	1	DF	31	P	D002	791	
X	3. UN2924,Waste flammable liquid,corrosive,n.o.s., (hydrochloric acid,ethanol),3,(8),II	1	DF	9	P	D001	D002	791
X	4. UN1344,Waste trinitrophenol,wetted,4.1,I	1	DF	9	P	D001	551	

14. Special Handling Instructions and Additional Information

	ERG#	
1: Drum#0825-1: (labpack) TX State Code: OUTS001H	133	1: 1 x 15gal fiber drum
2: Drum#0825-2: (labpack) TX State Code: OUTS001H	153	2: 1 x 15gal fiber drum
3: Drum#0825-3: (labpack) TX State Code: OUTS001H	132	3: 1 x 5gal poly drum
4: Drum#0825-4: (labpack) TX State Code: OUTS001H	113	4: 1 x 5gal poly drum

ehq08261593

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Bernardino Alvarez
Signature:
Month 08 Day 25 Year 15

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: ~~Leo Cervantes~~ David Soo
Signature:
Month 08 Day 25 Year 15

Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H040-07	H141 for 4	1-4	

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: K. Folsom
Signature:
Month 8 Day 27 Year 15

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
CAD983585324	2	NSE: (909) 875-9288	007668075 FLE

GENERATOR

5. Generator's Name and Mailing Address

Olive View UCLA Medical Center
1100 N. Eastern Ave.,RM225
Los Angeles CA 90063

Generator's Site Address (if different than mailing address)

CD Requested

14445 Olive View Drive
Sylmar CA 91342

Generator's Phone: (818) 364-3405 Attn:Frank Colbert-EH&S Office

6. Transporter 1 Company Name

North State Environmental

U.S. EPA ID Number: CAR000206086

7. Transporter 2 Company Name

U.S. EPA ID Number:

8. Designated Facility Name and Site Address

NSSI/Sources & Services,Inc.
5711 Etheridge Street
Houston TX 77087

U.S. EPA ID Number

Facility's Phone: (713) 641-0391

TXD982560294

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. UN1362,Waste carbon,activated,4.2,III DOT-SP13192	1	DF	40	P	D001	551	
X	2. UN3265,Waste corrosive liquids,acidic,organic, n.o.s.,(acetic acid,alcian blue),8,II	1	DF	31	P	D002	791	
X	3. UN2924,Waste flammable liquid,corrosive,n.o.s., (hydrochloric acid,ethanol),3,(8),II	1	DF	9	P	D001	D002	791
X	4. UN1344,Waste trinitrophenol,wetted,4.1,I	1	DF	9	P	D001	551	

14. Special Handling Instructions and Additional Information

1: Drum#0825-1: (labpack) TX State Code: OUTS001H
2: Drum#0825-2: (labpack) TX State Code: OUTS001H
3: Drum#0825-3: (labpack) TX State Code: OUTS001H
4: Drum#0825-4: (labpack) TX State Code: OUTS001H

ehq08261593

ERG#	
133	1: 1 x 15gal fiber drum
153	2: 1 x 15gal fiber drum
132	3: 1 x 5gal poly drum
113	4: 1 x 5gal poly drum

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Benjamin Alvarez — Signature — Month 08 Day 25 Year 15

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Leo Cervantes — Signature: David Spero — Month 08 Day 25 Year 15

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1. H040-07 | 2. H141 for T-4 | 3. | 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: K. FOSTON — Signature — Month Day Year 08 25 15

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21. Generator ID Number	22. Page	23. Manifest Tracking Number
	C A D 9 8 3 5 8 5 3 2 4	2 of 2	007668075FLE

24. Generator's Name
Olive View UCLA Medical Center

25. Transporter _____ Company Name — U.S. EPA ID Number

26. Transporter _____ Company Name — U.S. EPA ID Number

This is to inform the generator of the waste shipped on this manifest, that NSSI has the appropriate permits for, and will accept, the waste the generator is shipping.

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes
X	5.UN2582,Waste ferric chloride solution,8,III	1	DF	8	P	D002 791
X	6.UN3122,Waste toxic liquid,oxidizing,n.o.s., (iodine,potassium iodide),6.1,(5.1),II	1	DF	8	P	D001 551
X	7.UN1873,Waste perchloric acid,5.1,(8),I	1	DF	8	P	D001 D002 791
X	8.UN3139,Waste oxidizing liquid,n.o.s., (silver nitrate,sodium chromate),5.1,II	1	DF	8	P	D001 D011 D007 551
X	9.UN3290,Waste toxic solid,corrosive,inorganic, n.o.s.,(gold chloride),6.1,(8),II	1	DF	9	P	D002 791
X	10.UN2810,Toxic liquids,organic,n.o.s., (hydroquinone,carbol fuchsin),6.1,II	1	DF	9	P	551
X	11.NA3082,Other regulated substances,liquid,n.o.s., (aqueous formalin,propylene glycol),9,III	1	DF	55	G	134

32. Special Handling Instructions and Additional Information
05: Drum#0825-5: (labpack) TX State Code: OUTS001H
06: Drum#0825-6: (labpack) TX State Code: OUTS001H
07: Drum#0825-7: (labpack) TX State Code: OUTS001H
08: Drum#0825-8: (labpack) TX State Code: OUTS001H
09: Drum#0825-9: (labpack) TX State Code: OUTS001H
10: Drum#0825-10: (labpack) TX State Code: OUTS0011
11: Drum#0825-11: (labpack) TX State Code: OUTS001H

eh 08261593

ERG#
154 5: 1 x 5gal poly drum
154 6: 1 x 5gal poly drum
143 7: 1 x 5gal poly drum
140 8: 1 x 5gal poly drum
154 9: 1 x 5gal poly drum
154 10: 1 x 5gal poly drum
171 11: 1 x 55gal poly drum
13:
14:
12:

TRANSPORTER

33. Transporter _____ Acknowledgment of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

34. Transporter _____ Acknowledgment of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

FACILITY

35. Discrepancy

DESIGNATED

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
H040-01 / H141 for 11 5-11

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21. Generator ID Number	22. Page	23. Manifest Tracking Number
	CAD983585324	2 of 2	007668075FLE

24. Generator's Name: **Olive View UCLA Medical Center**

25. Transporter _____ Company Name — U.S. EPA ID Number

26. Transporter _____ Company Name — U.S. EPA ID Number

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes
X	5.UN2582,Waste ferric chloride solution,8,III	1	DF	8	P	D002 791
X	6.UN3122,Waste toxic liquid,oxidizing,n.o.s., (iodine,potassium iodide),6.1,(5.1),II	1	DF	8	P	D001 551
X	7.UN1873,Waste perchloric acid,5.1,(8),I	1	DF	8	P	D001 D002 791
X	8.UN3139,Waste oxidizing liquid,n.o.s., (silver nitrate,sodium chromate),5.1,II	1	DF	8	P	D001 D011 D007 551
X	9.UN3290,Waste toxic solid,corrosive,inorganic, n.o.s.,(gold chloride),6.1,(8),II	1	DF	9	P	D002 791
X	10.UN2810,Toxic liquids,organic,n.o.s., (hydroquinone,carbol fuchsin),6.1,II	1	DF	9	P	551
X	11.NA3082,Other regulated substances,liquid,n.o.s., (aqueous formalin,propylene glycol),9,III	1	DF	55	G	134

GENERATOR

32. Special Handling Instructions and Additional Information

05: Drum#0825-5: (labpack) TX State Code: OUTS001H
06: Drum#0825-6: (labpack) TX State Code: OUTS001H
07: Drum#0825-7: (labpack) TX State Code: OUTS001H
08: Drum#0825-8: (labpack) TX State Code: OUTS001H
09: Drum#0825-9: (labpack) TX State Code: OUTS001H
10: Drum#0825-10: (labpack) TX State Code: OUTS001H
11: Drum#0825-11: (labpack) TX State Code: OUTS001H

ehg 08261593

ERG#
154 5: 1 x 5gal poly drum
154 6: 1 x 5gal poly drum
143 7: 1 x 5gal poly drum
140 8: 1 x 5gal poly drum
154 9: 1 x 5gal poly drum
154 10: 1 x 5gal poly drum
171 11: 1 x 55gal poly drum
13:
14:
12:

TRANSPORTER

33. Transporter _____ Acknowledgment of Receipt of Materials
Printed/Typed Name | Signature | Month | Day | Year

34. Transporter _____ Acknowledgment of Receipt of Materials
Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

35. Discrepancy

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

H040-OV / H141 for 11 5-11

DESIGNATED FACILITY TO GENERATOR STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
CAD983585324	2	NSE: (909) 875-9288	007668075 FLE

GENERATOR

5. Generator's Name and Mailing Address
Olive View UCLA Medical Center
1100 N. Eastern Ave.,RM225
Los Angeles CA 90063

Generator's Site Address (if different than mailing address) **CD Requested**
14445 Olive View Drive
Sylmar CA 91342

Generator's Phone: (818) 364-3405 Attn:Frank Colbert-EH&S | Office

6. Transporter 1 Company Name
North State Environmental

U.S. EPA ID Number
CAR000206086

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
NSSI/Sources & Services,Inc.
5711 Etheridge Street
Houston TX 77087

U.S. EPA ID Number

Facility's Phone: (713) 641-0391

TXD982560294

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. UN1362,Waste carbon,activated,4.2,III DOT-SP13192	1	DF	40	P	D001	551	
X	2. UN3265,Waste corrosive liquids,acidic,organic, n.o.s.,(acetic acid,alcian blue),8,II	1	DF	31	P	D002	791	
X	3. UN2924,Waste flammable liquid,corrosive,n.o.s., (hydrochloric acid,ethanol),3,(8),II	1	DF	9	P	D001	D002	791
X	4. UN1344,Waste trinitrophenol,wetted,4.1,I	1	DF	9	P	D001	551	

14. Special Handling Instructions and Additional Information

	ERG#	
1: Drum#0825-1: (labpack) TX State Code: OUTS001H	133	1: 1 x 15gal fiber drum
2: Drum#0825-2: (labpack) TX State Code: OUTS001H	153	2: 1 x 15gal fiber drum
3: Drum#0825-3: (labpack) TX State Code: OUTS001H	132	3: 1 x 5gal poly drum
4: Drum#0825-4: (labpack) TX State Code: OUTS001H	113	4: 1 x 5gal poly drum

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name | Signature | Month 08 | Day 25 | Year 15

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Leo Cervantes | Signature | Month 08 | Day 25 | Year 15

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) | U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) | Month | Day | Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name | Signature | Month | Day | Year

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21. Generator ID Number	22. Page	23. Manifest Tracking Number
	CAD983585324	2 of 2	007668075FLE

24. Generator's Name: **Olive View UCLA Medical Center**

25. Transporter _____ Company Name — U.S. EPA ID Number

26. Transporter _____ Company Name — U.S. EPA ID Number

GENERATOR

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes
X	5.UN2582,Waste ferric chloride solution,8,III	1	DF	8	P	D002 791
X	6.UN3122,Waste toxic liquid,oxidizing,n.o.s., (iodine,potassium iodide),6.1,(5.1),II	1	DF	8	P	D001 551
X	7.UN1873,Waste perchloric acid,5.1,(8),I	1	DF	8	P	D001 D002 791
X	8.UN3139,Waste oxidizing liquid,n.o.s., (silver nitrate,sodium chromate),5.1,II	1	DF	8	P	D001 D011 D007 551
X	9.UN3290,Waste toxic solid,corrosive,inorganic, n.o.s.,(gold chloride),6.1,(8),II	1	DF	9	P	D002 791
X	10.UN2810,Toxic liquids,organic,n.o.s., (hydroquinone,carbol fuchsin),6.1,II	1	DF	9	P	551
X	11.NA3082,Other regulated substances,liquid,n.o.s., (aqueous formalin,propylene glycol),9,III	1	DF	55	G	134

32. Special Handling Instructions and Additional Information

05: Drum#0825-5: (labpack) TX State Code: OUTS001H
06: Drum#0825-6: (labpack) TX State Code: OUTS001H
07: Drum#0825-7: (labpack) TX State Code: OUTS001H
08: Drum#0825-8: (labpack) TX State Code: OUTS001H
09: Drum#0825-9: (labpack) TX State Code: OUTS001H
10: Drum#0825-10: (labpack) TX State Code: OUTS001H
11: Drum#0825-11: (labpack) TX State Code: OUTS001H

ERG#
154 5: 1 x 5gal poly drum
154 6: 1 x 5gal poly drum
143
140 7: 1 x 5gal poly drum
154 8: 1 x 5gal poly drum
154
171

9: 1 x 5gal poly drum
10: 1 x 5gal poly drum
11: 1 x 55gal poly drum
12:
13:
14:

TRANSPORTER

33. Transporter _____ Acknowledgment of Receipt of Materials
Printed/Typed Name | Signature | Month | Day | Year

34. Transporter _____ Acknowledgment of Receipt of Materials
Printed/Typed Name | Signature | Month | Day | Year

FACILITY

35. Discrepancy

DESIGNA.

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
C A D 9 8 3 5 8 5 3 2 4	3	NSE: (909) 875-9288	014214452 JJK

5. Generator's Name and Mailing Address
Olive View Medical Center Los Angeles County
14445 Olive View Drive
Sylmar CA 91342
Generator's Phone: (818) 364-3405 Attn: Frank Colbert-EH&S Office

Generator's Site Address (if different than mailing address) CD Requested

6. Transporter 1 Company Name: North State Environmental
U.S. EPA ID Number: C A R 0 0 0 2 0 6 0 8 6

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
NSSI/Sources & Services, Inc.
5711 Etheridge Street
Houston TX 77087
Facility's Phone: (713) 641-0391
U.S. EPA ID Number: T X D 9 8 2 5 6 0 2 9 4

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. UN1789, Waste hydrochloric acid, 8, PGII	1	DF	7	P	D002	791	
X	2. UN3267, Corrosive liquids, basic, organic, n.o.s., (methenamine borate), 8, PGIII	1	DF	7	P	551		
X	3. UN2922, Waste corrosive liquids, toxic, n.o.s., (gold chloride), 8, (6.1), PGIII	1	DF	7	P	D002	792	
X	4. UN1802, Waste perchloric acid, 8, (5.1), PGII	1	DF	7	P	D001	D002	791

14. Special Handling Instructions and Additional Information

	ERG#	
1: Drum#0729-1 (Labpack); TX State Code:OUTS001H	157	1: 1 x 5gal poly drum
2: Drum#0729-2 (Labpack); TX State Code:OUTS0011	153	2: 1 x 5gal poly drum
3: Drum#0729-3 (Labpack); TX State Code:OUTS001H chg 08071592	154	3: 1 x 5gal poly drum
4: Drum#0729-4 (Labpack); TX State Code:OUTS001H	140	4: 1 x 5gal poly drum

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Ben Alvarez — Signature — Month 07 Day 31 Year 15

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: David Spero — Signature — Month 07 Day 31 Year 15

Transporter 2 Printed/Typed Name — Signature — Month Day Year

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H040-07	H141 for #1-4		

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: K FOSTON — Signature — Month 08 Day 14 Year 15

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)

21. Generator ID Number	22. Page	23. Manifest Tracking Number
C A D 9 8 3 5 8 5 3 2 4	2 of 3	014214452JJK

24. Generator's Name: **Olive View Medical Center Los Angeles County**

25. Transporter _____ Company Name

26. Transporter _____ Company Name

U.S. EPA ID Number

U.S. EPA ID Number

This is to inform the generator of the waste shipped on this manifest, that NSSI has the appropriate permits for, and will accept, the waste the generator is shipping.

GENERATOR

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes		
X	5.UN3099,Waste oxidizing liquids,toxic,n.o.s., (sodium nitrite,potassium chromate),5.1,(6.1),PGII	1	DF	7	P	D001	D007	D011
X	6.UN1760,Corrosive liquid,n.o.s., (glutaraldehyde),8,PGIII	1	DF	7	P	723		
X	7.UN3098,Waste oxidizing liquids,corrosive,n.o.s., (periodic acid),5.1,(8),PGII	1	DF	7	P	551		
X	8.UN2924,Waste flammable liquids,corrosive,n.o.s., (ethanol,hydrochloric acid),3,(8),PGII	1	DF	7	P	D002	D001	791
X	9.UN3265,Waste corrosive liquids,acidic,organic, n.o.s.,(acetic acid,aluminum sulfate),8,PGIII	1	DF	13	P	D001	D002	791
X	10.UN1344,Waste trinitrophenol,wetted,4.1,PGI	1	DF	7	P	D002	792	
X	11.UN2693,Waste bisulfites,aqueous solutions,n.o.s., (aqueous sodium bisulfite),8,PGIII	1	DF	7	P	D001	D002	791
X	12.UN1935,Waste cyanide solution,n.o.s., (potassium ferrocyanide),6.1,PGIII "toxic" DOT-SP13192	1	DF	7	P	D002	791	
X	13.UN1813,Potassium hydroxide,solid,8,PGII	1	DF	7	P	D003	711	
X	14.UN3244,Waste solids containing corrosive liquids, n.o.s.,(sulfuric acid on inert carrier),8,PGII	1	DF	7	P	551		
						D003	551	

32. Special Handling Instructions and Additional Information

05: Drum#0729-5 (Labpack); TX State Code:OUTS001H
06: Drum#0729-6 (Labpack); TX State Code:OUTS0011
07: Drum#0729-7 (Labpack); TX State Code:OUTS001H
08: Drum#0729-8 (Labpack); TX State Code:OUTS001H
09: Drum#0729-9 (Labpack); TX State Code:OUTS001H
10: Drum#0729-10 (Labpack); TX State Code:OUTS001H
11: Drum#0729-11 (Labpack); TX State Code:OUTS001H
12: Drum#0729-12 (Labpack); TX State Code:OUTS001H
13: Drum#0729-13 (Labpack); TX State Code:OUTS0011
14: Drum#0729-14 (Labpack); TX State Code:OUTS001H

ERG# 142 154 140 132 153 113 154 157 154 154

5: 1 x 5gal poly drum
6: 1 x 5gal poly drum
7: 1 x 5gal poly drum
8: 1 x 5gal poly drum
9: 1 x 5gal poly drum
10: 1 x 5gal poly drum
11: 1 x 5gal poly drum
12: 1 x 5gal poly drum
13: 1 x 5gal poly drum
14: 1 x 5gal poly drum

eh 180 1512

TRANSPORTER

33. Transporter _____ Acknowledgment of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

34. Transporter _____ Acknowledgment of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

35. Discrepancy

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

H040-01 H141 for H 5-14

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21. Generator ID Number	22. Page	23. Manifest Tracking Number
	C A D 9 8 3 5 8 5 3 2 4	2 of 3	014214452JJK

24. Generator's Name
Olive View Medical Center Los Angeles County

25. Transporter _____ Company Name — U.S. EPA ID Number

26. Transporter _____ Company Name — U.S. EPA ID Number

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes		
X	5.UN3099,Waste oxidizing liquids,toxic,n.o.s., (sodium nitrite,potassium chromate),5.1,(6.1),PGII	1	DF	7	P	D001	D007	D011
X	6.UN1760,Corrosive liquid,n.o.s., (glutaraldehyde),8,PGIII	1	DF	7	P	723		
X	7.UN3098,Waste oxidizing liquids,corrosive,n.o.s., (periodic acid),5.1,(8),PGII	1	DF	7	P	551		
X	8.UN2924,Waste flammable liquids,corrosive,n.o.s., (ethanol,hydrochloric acid),3,(8),PGII	1	DF	7	P	D002	D001	791
X	9.UN3265,Waste corrosive liquids,acidic,organic, n.o.s.,(acetic acid,aluminum sulfate),8,PGIII	1	DF	13	P	D001	D002	791
X	10.UN1344,Waste trinitrophenol,wetted,4.1,PGI	1	DF	7	P	D002	792	
X	11.UN2693,Waste bisulfites,aqueous solutions,n.o.s., (aqueous sodium bisulfite),8,PGIII	1	DF	7	P	D001	D002	791
X	12.UN1935,Waste cyanide solution,n.o.s., (potassium ferrocyanide),6.1,PGIII "toxic" DOT-SP13192	1	DF	7	P	D002	791	
X	13.UN1813,Potassium hydroxide,solid,8,PGII	1	DF	7	P	D003	711	
X	14.UN3244,Waste solids containing corrosive liquids, n.o.s.,(sulfuric acid on inert carrier),8,PGII	1	DF	7	P	551		
		1	DF	7	P	D003	551	

GENERATOR

32. Special Handling Instructions and Additional Information

05: Drum#0729-5 (Labpack); TX State Code:OUTS001H
06: Drum#0729-6 (Labpack); TX State Code:OUTS0011
07: Drum#0729-7 (Labpack); TX State Code:OUTS001H
08: Drum#0729-8 (Labpack); TX State Code:OUTS001H
09: Drum#0729-9 (Labpack); TX State Code:OUTS001H
10: Drum#0729-10 (Labpack); TX State Code:OUTS001H
11: Drum#0729-11 (Labpack); TX State Code:OUTS001H
12: Drum#0729-12 (Labpack); TX State Code:OUTS001H
13: Drum#0729-13 (Labpack); TX State Code:OUTS0011
14: Drum#0729-14 (Labpack); TX State Code:OUTS001H

ch9807152

ERG#			
142	5: 1 x 5gal poly drum	9: 1 x 5gal poly drum	13: 1 x 5gal poly drum
154	6: 1 x 5gal poly drum	10: 1 x 5gal poly drum	14: 1 x 5gal poly drum
140	7: 1 x 5gal poly drum	11: 1 x 5gal poly drum	
132	8: 1 x 5gal poly drum	12: 1 x 5gal poly drum	
153			
113			
154			
157			
154			
154			

TRANSPORTER

33. Transporter _____ Acknowledgment of Receipt of Materials
Printed/Typed Name | Signature | Month | Day | Year

34. Transporter _____ Acknowledgment of Receipt of Materials
Printed/Typed Name | Signature | Month | Day | Year

FACILITY

35. Discrepancy

DESIGN.

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
H040-07 H141 ton # 5-14

EPA Form 8700-22A (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO GENERATOR STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21. Generator ID Number	22. Page	23. Manifest Tracking Number
	CAD983585324	3 of 3	014214452JJK

24. Generator's Name
Olive View Medical Center Los Angeles County

25. Transporter _____ Company Name — U.S. EPA ID Number

26. Transporter _____ Company Name — U.S. EPA ID Number

This is to inform the generator of the waste shipped on this manifest, that NSSI has the appropriate permits for, and will accept, the waste the generator is shipping.

GENERATOR

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes		
X	15.UN2924,Waste flammable liquids,corrosive,n.o.s., (sodium hydroxide,ethanol),3,(8),PGII	1	DF	7	P	D001	D002	551
X	16.UN2925,Waste flammable solids,corrosive,organic, n.o.s.,(ammonia,ethanol),4.1,(8),PGII	1	DF	7	P	D001	551	
X	17.UN1950,Waste aerosols,2.1 (o-phenylphenol,ethanol)	1	DF	4	P	D001	331	
X	18.UN1344,Waste trinitrophenol,wetted,4.1,PGI	1	DF	7	P	D002	791	
X	19.UN1992,Waste flammable liquids,toxic,n.o.s., (phenol,alcohol),3,(6.1),PGII	1	DF	9	P	D001	551	
X	20.Toxic liquids,organic,n.o.s., (phenol,nuclear fast red),6.1,PGII	1	DF	9	P	551		
X	21.NA3082,Other regulated substances,liuqid,n.o.s., (formalin,sodium phosphate),9,PGIII	1	DF	55	G	331		

32. Special Handling Instructions and Additional Information
15: Drum#0729-15 (Labpack); TX State Code:OUTS001H
16: Drum#0729-16 (Labpack); TX State Code:OUTS001H
17: Drum#0729-17 (Labpack); TX State Code:OUTS801H
18: Drum#0729-18 (Labpack); TX State Code:OUTS001H
19: Drum#0729-19 (Labpack); TX State Code:OUTS001H
20: Drum#0729-20 (Labpack); TX State Code:OUTS0011
21: Drum#0729-21 (Bulk); TX State Code:OUTS1011

ERG#
132
134
126
113
131
131
171

15: 1 x 5gal poly drum
16: 1 x 5gal poly drum
17: 1 x 5gal poly drum
18: 1 x 5gal poly drum
19: 1 x 5gal poly drum
20: 1 x 5gal poly drum
21: 1 x 55gal poly drum-BULK
22:
23:
24:

TRANSPORTER

33. Transporter _____ Acknowledgment of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

34. Transporter _____ Acknowledgment of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

FACILITY

35. Discrepancy

DESIGN

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
H040-071 / H141 for # 15-21

EPA Form 8700-22A (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21. Generator ID Number	22. Page	23. Manifest Tracking Number
	C A D 9 8 3 5 8 5 3 2 4	3 of 3	014214452JJK

24. Generator's Name
Olive View Medical Center Los Angeles County

25. Transporter _____ Company Name — U.S. EPA ID Number

26. Transporter _____ Company Name — U.S. EPA ID Number

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes		
X	15.UN2924,Waste flammable liquids,corrosive,n.o.s., (sodium hydroxide,ethanol),3,(8),PGII	1	DF	7	P	D001	D002	551
X	16.UN2925,Waste flammable solids,corrosive,organic, n.o.s.,(ammonia,ethanol),4.1,(8),PGII	1	DF	7	P	D001	551	
X	17.UN1950,Waste aerosols,2.1 (o-phenylphenol,ethanol)	1	DF	4	P	D001	331	
X	18.UN1344,Waste trinitrophenol,wetted,4.1,PGI	1	DF	7	P	D002	791	
X	19.UN1992,Waste flammable liquids,toxic,n.o.s., (phenol,alcohol),3,(6.1),PGII	1	DF	9	P	D001	551	
X	20.Toxic liquids,organic,n.o.s., (phenol,nuclear fast red),6.1,PGII	1	DF	9	P	551		
X	21.NA3082,Other regulated substances,liuqid,n.o.s., (formalin,sodium phosphate),9,PGIII	1	DF	55	G	331		

32. Special Handling Instructions and Additional Information

12: Drum#0729-12 (Labpack); TX State Code:OUTS001H
16: Drum#0729-16 (Labpack); TX State Code:OUTS001H
17: Drum#0729-17 (Labpack); TX State Code:OUTS001H
18: Drum#0729-18 (Labpack); TX State Code:OUTS001H
19: Drum#0729-19 (Labpack); TX State Code:OUTS001H
20: Drum#0729-20 (Labpack); TX State Code:OUTS0011
21: Drum#0729-21 (Bulk); TX State Code:OUTS1011

edy 08071592

ERG#
132
134
126
113
131
131
171

15: 1 x 5gal poly drum
16: 1 x 5gal poly drum
17: 1 x 5gal poly drum
18: 1 x 5gal poly drum
19: 1 x 5gal poly drum
20: 1 x 5gal poly drum
21: 1 x 55gal poly drum-BULK
22:
23:
24:

GENERATOR

TRANSPORTER

33. Transporter _____ Acknowledgment of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

34. Transporter _____ Acknowledgment of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

35. Discrepancy

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
H040-01 / H141 for # 15-21

EPA Form 8700-22A (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
C A D 9 8 3 5 8 5 3 2 4	3	NSE: (909) 875-9288	014214452 JJK

GENERATOR

5. Generator's Name and Mailing Address
Olive View Medical Center Los Angeles County
14445 Olive View Drive
Sylmar CA 91342

Generator's Site Address (if different than mailing address) **CD Requested**

Generator's Phone: (818) 364-3405 Attn:Frank Colbert-EH&S Office

6. Transporter 1 Company Name: North State Environmental
U.S. EPA ID Number: C A R 0 0 0 2 0 6 0 8 6

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
NSSI/Sources & Services,Inc.
5711 Etheridge Street
Houston TX 77087

Facility's Phone: (713) 641-0391

U.S. EPA ID Number: T X D 9 8 2 5 1 0 2 9 4

This is to inform the generator of the waste shipped on this manifest, that NSSI has the appropriate permits for, and will accept, the waste the generator is shipping.

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. UN1789,Waste hydrochloric acid,8,PGII	1	DF	7	P	D002	791	
X	2. UN3267,Corrosive liquids,basic,organic,n.o.s., (methenamine borate),8,PGIII	1	DF	7	P	551		
X	3. UN2922,Waste corrosive liquids,toxic,n.o.s., (gold chloride),8,(6.1),PGIII	1	DF	7	P	D002	792	
X	4. UN1802,Waste perchloric acid,8,(5.1),PGII	1	DF	7	P	D001	D002	791

14. Special Handling Instructions and Additional Information

	ERG#	
1: Drum#0729-1 (Labpack); TX State Code:OUTS001H	157	1: 1 x 5gal poly drum
2: Drum#0729-2 (Labpack); TX State Code:OUTS0011	153	2: 1 x 5gal poly drum
3: Drum#0729-3 (Labpack); TX State Code:OUTS001H	154	3: 1 x 5gal poly drum
4: Drum#0729-4 (Labpack); TX State Code:OUTS001H	140	4: 1 x 5gal poly drum

eh 080715 92

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Ben Alvarez
Signature:
Month: 07 Day: 31 Year: 15

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: David Spero
Signature:
Month: 07 Day: 31 Year: 15

Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1. H040-07 / 2. H141 for #1-4 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: K FOSTER
Signature:
Month: 8 Day: 14 Year: 15

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
C A D 9 8 3 5 8 5 3 2 4	3	NSE: (909) 875-9288	014214452 JJK

5. Generator's Name and Mailing Address
Olive View Medical Center Los Angeles County
14445 Olive View Drive
Sylmar CA 91342
Generator's Phone: (818) 364-3405 Attn:Frank Colbert-EH&S Office

Generator's Site Address (if different than mailing address)
CD Requested

6. Transporter 1 Company Name
North State Environmental
U.S. EPA ID Number
C A R 0 0 0 2 0 6 0 8 6

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
NSSI/Sources & Services,Inc.
5711 Etheridge Street
Houston TX 77087
Facility's Phone: (713) 641-0391
U.S. EPA ID Number
T X D 9 8 2 5 6 0 2 9 4

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. UN1789,Waste hydrochloric acid,8,PGII	1	DF	7	P	D002	791	
X	2. UN3267,Corrosive liquids,basic,organic,n.o.s., (methenamine borate),8,PGIII	1	DF	7	P	551		
X	3. UN2922,Waste corrosive liquids,toxic,n.o.s., (gold chloride),8,(6.1),PGIII	1	DF	7	P	D002	792	
X	4. UN1802,Waste perchloric acid,8,(5.1),PGII	1	DF	7	P	D001	D002	791

14. Special Handling Instructions and Additional Information

	ERG#	
1: Drum#0729-1 (Labpack); TX State Code:OUTS001H	157	1: 1 x 5gal poly drum
2: Drum#0729-2 (Labpack); TX State Code:OUTS0011	153	2: 1 x 5gal poly drum
3: Drum#0729-3 (Labpack); TX State Code:OUTS001H	154	3: 1 x 5gal poly drum
4: Drum#0729-4 (Labpack); TX State Code:OUTS001H	140	4: 1 x 5gal poly drum

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Ben Alvarez
Signature:
Month: 07 Day: 31 Year: 15

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: David Spero
Signature:
Month: 07 Day: 31 Year: 15

Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name:
Signature:
Month: Day: Year:

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

GENERATOR'S INITIAL COPY

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: C A D 9 8 3 5 8 5 3 2 4

2. Page 1 of: 1

3. Emergency Response Phone: NSE: (909) 875-9288

4. Manifest Tracking Number: 014214451 JJK

5. Generator's Name and Mailing Address
Olive View Medical Center Los Angeles County
14445 Olive View Drive
Sylmar CA 91342

Generator's Site Address (if different than mailing address)

CD Requested

Generator's Phone: (818) 364-3405 Attn:Frank Colbert-EH&S Office

6. Transporter 1 Company Name: North State Environmental

U.S. EPA ID Number: C A R 0 0 0 2 0 6 0 8 6

7. Transporter 2 Company Name:

U.S. EPA ID Number:

8. Designated Facility Name and Site Address
US Ecology, Inc.
Hwy 95, 11 miles south of
Beatty NV 89003

U.S. EPA ID Number: N V T 3 3 0 0 1 0 0 0 0

Facility's Phone: (775) 553-2203

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN1907, Soda lime, 8, PGIII	1	DF	163	P	181
	2. Non-RCRA hazardous waste solid (lab debris)	1	DF	37	P	352
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1: Profile#070127495-903:Spent CO2 absorbent w/ soda lime in plastic cartridges
2: Profile#070128300-9087:Glass/plasticware,rags/paper,gloves,etc.

ERG# 154 N/A

1: 1 x 55gal poly drum
2: 1 x 30gal fiber drum
3:
4:

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Ben Alvarez

Signature:

Month Day Year: 07 29 15

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: David Spero

Signature:

Month Day Year: 07 29 15

Transporter 2 Printed/Typed Name:

Signature:

Month Day Year:

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator)

Month Day Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1. 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name:

Signature:

Month Day Year:

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

GENERATOR'S INITIAL COPY

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
CAD983585324	1	NSE: (909) 875-9288	014214451 JJK

GENERATOR

5. Generator's Name and Mailing Address
Olive View Medical Center Los Angeles County
14445 Olive View Drive
Sylmar CA 91342

Generator's Site Address (if different than mailing address): CD Requested

Generator's Phone: (818) 364-3405 Attn: Frank Colbert-EH&S Office

6. Transporter 1 Company Name: North State Environmental
U.S. EPA ID Number: CAR000206086

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
US Ecology, Inc.
Hwy 95, 11 miles south of
Beatty NV 89003

U.S. EPA ID Number

Facility's Phone: (775) 553-2203

NVT330010000

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN1907, Soda lime, 8, PGIII	1	DF	163	P	181
	2. Non-RCRA hazardous waste solid (lab debris)	1	DF	37	P	352
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1: Profile#070127495-903:Spent CO2 absorbent w/ soda lime in plastic cartridges
2: Profile#070128300-9087:Glass/plasticware,rags/paper,gloves,etc.

ERG# 154 N/A

1: 1 x 55gal poly drum
2: 1 x 30gal fiber drum
3:
4:

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Ben Alvarez — Signature — Month 07 Day 29 Year 15

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: David Spero — Signature — Month 07 Day 29 Year 15

Transporter 2 Printed/Typed Name — Signature — Month Day Year

SIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132	H132		

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Nann Bernaldez — Signature — Month 07 Day 31 Year 15

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
CAD983585324	1	NSE: (909) 875-9288	014214450 JJK

GENERATOR

5. Generator's Name and Mailing Address
Olive View Medical Center Los Angeles County
14445 Olive View Drive
Sylmar CA 91342
Generator's Phone: (818) 364-3405 Attn:Frank Colbert-EH&S Office

Generator's Site Address (if different than mailing address): CD Requested

6. Transporter 1 Company Name: North State Environmental
U.S. EPA ID Number: CAR000206086

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Pacific Resource Recovery
3150 East Pico Boulevard
Los Angeles CA 90023
Facility's Phone: (800) 499-7145
U.S. EPA ID Number: CAD008252405

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ,UN1993,Waste flammable liquids,n.o.s., (xylene,alcohol),3,II (D001,F003)	3	DF	165	G	D001	F003	212
X	2. UN1325,Waste flammable solids,organic,n.o.s., (carbon filters),4.1,PGIII	1	DF	40	P	D001	331	
X	3. RQ,UN1325,Waste flammable solids,organic,n.o.s., (paraffin wax with xylene,alcohol),4.1,PGII (D001,F003)	1	DF	157	P	D001	F003	331
X	4. UN1950,Waste aerosols,2.1	1	DF	11	P	D001	331	

14. Special Handling Instructions and Additional Information

	ERG#	
1: Profile#13070179: Alcohols,xylenes,glycols,stains,water,hydrocarbons	128	1: 3 x 55gal poly drum
2: Profile#10020023:Used carbon filters/carbon in cardboard	133	2: 1 x 30gal fiber drum
3: Profile#14010076: Used paraffin wax with alcohol,xylene,limonene	133	3: 1 x 55gal fiber drum
4: Profile#2609171:Flammable aerosols with hydrocarbon solvents 26090171	126	4: 1 x 5gal poly drum

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Ben Alvarez
Signature:
Month 07 Day 29 Year 15

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: David Spero
Signature:
Month 07 Day 29 Year 15

Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H061	H141	H141	H141

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Sonia Gonzalez
Signature:
Month 7 Day 31 Year 15

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
CAD983585324	1	NSE: (909) 875-9288	014214450 JJK

GENERATOR

5. Generator's Name and Mailing Address
Olive View Medical Center Los Angeles County
14445 Olive View Drive
Sylmar CA 91342

Generator's Site Address (if different than mailing address): CD Requested

Generator's Phone: (818) 364-3405 Attn:Frank Colbert-EH&S Office

6. Transporter 1 Company Name: North State Environmental
U.S. EPA ID Number: CAR000206086

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Pacific Resource Recovery
3150 East Pico Boulevard
Los Angeles CA 90023

Facility's Phone: (800) 499-7145
U.S. EPA ID Number: CAD008252405

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ,UN1993,Waste flammable liquids,n.o.s., (xylene,alcohol),3,II (D001,F003)	3	DF	165	G	D001	F003	212
X	2. UN1325,Waste flammable solids,organic,n.o.s., (carbon filters),4.1,PGIII	1	DF	40	P	D001	331	
X	3. RQ,UN1325,Waste flammable solids,organic,n.o.s., (paraffin wax with xylene,alcohol),4.1,PGII (D001,F003)	1	DF	157	P	D001	F003	331
X	4. UN1950,Waste aerosols,2.1	1	DF	11	P	D001	331	

14. Special Handling Instructions and Additional Information

	ERG#	
1: Profile#13070179: Alcohols,xylenes,glycols,stains,water,hydrocarbons	128	1: 3 x 55gal poly drum
2: Profile#10020023:Used carbon filters/carbon in cardboard	133	2: 1 x 30gal fiber drum
3: Profile#14010076: Used paraffin wax with alcohol,xylene,limonene	133	3: 1 x 55gal fiber drum
4: Profile#2609171:Flammable aerosols with hydrocarbon solvents	126	4: 1 x 5gal poly drum

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Ben Alvarez
Signature:
Month Day Year: 07 29 15

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: David Spero
Signature:
Month Day Year: 07 29 15

Transporter 2 Printed/Typed Name:
Signature:
Month Day Year:

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number:

Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name:
Signature:
Month Day Year:

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

GENERATOR'S INITIAL COPY

...se print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	C A D 9 8 3 5 8 5 3 2 4	2	NSE: (909) 875-9288	014203095 JJK

5. Generator's Name and Mailing Address
Olive View UCLA Medical Center
1100 N. Eastern Ave.,RM225
Los Angeles CA 90063

Generator's Site Address (if different than mailing address) CD Requested
14445 Olive View Drive
Sylmar CA 91342

Generator's Phone: (818) 364-3405 Attn:Frank Colbert-EH&S | Office

6. Transporter 1 Company Name: North State Environmental
U.S. EPA ID Number: C A R 0 0 0 2 0 6 0 8 6

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
NSSI/Sources & Services, Inc.
5711 Etheridge Street
Houston TX 77087
Facility's Phone: (713) 641-0391

This is to inform the generator of the waste shipped on this manifest, that NSSI has the appropriate permits for, and will accept, the waste the generator is shipping.

U.S. EPA ID Number: T X D 9 8 2 5 6 0 2 9 4

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. UN2924,Waste flammable liquids,corrosive,n.o.s., (ethanol,hydrochloric acid),3,(8),PGII	1	DF	6	P	D001	D002	791
X	2. UN3264,Waste corrosive liquids,acidic,inorganic, n.o.s.,(ferric chloride,hydrochloric acid),8,PGII	1	DF	7	P	D002	792	
X	3. UN2810,Toxic liquids,organic,n.o.s., (phenol,nuclear fast red),6.1,PGII	1	DF	8	P	551		
X	4. UN2693,Waste bisulfite,aqueous solutions,n.o.s., / (aqueous sodium bisulfite),8,PGIII	1	DF	6	P	D002	791	

14. Special Handling Instructions and Additional Information

	ERG#	
1: Drum#0630-1 (Labpack); TX State Code:OUTS001H	132	1: 1 x 5gal poly drum
2: Drum#0630-2 (Labpack); TX State Code:OUTS001H	154	2: 1 x 5gal poly drum
3: Drum#0630-3 (Labpack); TX State Code:OUTS0011	153	3: 1 x 5gal poly drum
4: Drum#0630-4 (Labpack); TX State Code:OUTS001H ehq0710159 3	154	4: 1 x 5gal poly drum

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Ben Alvarez
Signature:
Month 07 Day 03 Year 15

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Leo Cervantes
Signature:
Month 07 Day 03 Year 15

Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1. H141 2. For all 3. Items 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Marlina A. Gomez
Signature:
Month 7 Day 7 Year 15

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	CAD983585324	2	NSE: (909) 875-9288	014203095 JJK

GENERATOR

5. Generator's Name and Mailing Address
Olive View UCLA Medical Center
1100 N. Eastern Ave.,RM225
Los Angeles CA 90063

Generator's Site Address (if different than mailing address) CD Requested
14445 Olive View Drive
Sylmar CA 91342

Generator's Phone: (818) 364-3405 Attn:Frank Colbert-EH&S Office

6. Transporter 1 Company Name: North State Environmental — U.S. EPA ID Number: CAR000206086

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
NSSI/Sources & Services,Inc.
5711 Etheridge Street
Houston TX 77087

Facility's Phone: (713) 641-0391 — U.S. EPA ID Number: TXD982560294

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. UN2924,Waste flammable liquids,corrosive,n.o.s., (ethanol,hydrochloric acid),3,(8),PGII	1	DF	6	P	D001	D002	791
X	2. UN3264,Waste corrosive liquids,acidic,inorganic, n.o.s.,(ferric chloride,hydrochloric acid),8,PGII	1	DF	7	P	D002	792	
X	3. UN2810,Toxic liquids,organic,n.o.s., (phenol,nuclear fast red),6.1,PGII	1	DF	8	P	551		
X	4. UN2693,Waste bisulfite,aqueous solutions,n.o.s., (aqueous sodium bisulfite),8,PGIII	1	DF	6	P	D002	791	

14. Special Handling Instructions and Additional Information

	ERG#	
1: Drum#0630-1 (Labpack); TX State Code:OUTS001H	132	1: 1 x 5gal poly drum
2: Drum#0630-2 (Labpack); TX State Code:OUTS001H	154	2: 1 x 5gal poly drum
3: Drum#0630-3 (Labpack); TX State Code:OUTS0011	153	3: 1 x 5gal poly drum
4: Drum#0630-4 (Labpack); TX State Code:OUTS001H ehq071615q3	154	4: 1 x 5gal poly drum

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Ben Alvarez — Signature — Month 07 Day 03 Year 15

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.:
Transporter signature (for exports only):

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Leo Cervantes — Signature — Month 07 Day 03 Year 15

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H141	For all	Items	

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Marcus A. Gamez — Signature — Month 7 Day 7 Year 15

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21. Generator ID Number	22. Page	23. Manifest Tracking Number
	CAD983585324	2 of 2	014203095JJK

24. Generator's Name
Olive View UCLA Medical Center

25. Transporter _____ Company Name — U.S. EPA ID Number

26. Transporter _____ Company Name — U.S. EPA ID Number

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes
X	5.UN3267,Corrosive liquid,basic,organic,n.o.s., (aqueous methenamine borate),8,PGIII	1	DF	6	P	551
X	6.UN1802,Waste perchloric acid,8,(5.1),PGII	1	DF	6	P	D001 D002 791
X	7.UN1824,Waste sodium hydroxide solution,8,PGII	1	DF	6	P	D002 551
X	8.UN3099,Waste oxidizing liquids,toxic,n.o.s., (silver nitrate,sodium chromate),5.1,(6.1),PGII	1	DF	6	P	D001 D007 D011 723
X	9.UN2922,Waste corrosive liquids,toxic,n.o.s., (aqueous gold chloride),8,(6.1),PGIII	1	DF	6	P	D002 792
X	10.UN3265,Waste corrosive liquids,acidic,organic, n.o.s.,(acetic acid,ethylene glycol),8,PGIII	1	DF	7	P	D002 792
X	11.NA3082,Other regulated substances,liquid,n.o.s., (formalin,sodium phosphate),9,PGIII	2	DF	110	G	331

GENERATOR

32. Special Handling Instructions and Additional Information
05: Drum#0630-5 (Labpack); TX State Code:OUTS0011
06: Drum#0630-6 (Labpack); TX State Code:OUTS001H
07: Drum#0630-7 (Labpack); TX State Code:OUTS001H
08: Drum#0630-8 (Labpack); TX State Code:OUTS001H
09: Drum#0630-9 (Labpack); TX State Code:OUTS001H
10: Drum#0630-10 (Labpack); TX State Code:OUTS001H
11: Drum#0630-11A,11B (Bulk); TX State Code:OUTS1011
Qty07101553

ERG# 153 140 154 142 154 153 171

5: 1 x 5gal poly drum
6: 1 x 5gal poly drum
7: 1 x 5gal poly drum
8: 1 x 5gal poly drum
9: 1 x 5gal poly drum
10: 1 x 5gal poly drum
11: 2 x 55gal poly drum-BULK
12:
13:
14:

TRANSPORTER

33. Transporter _____ Acknowledgment of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

34. Transporter _____ Acknowledgment of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

35. Discrepancy

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
H141 For All Items

EPA Form 8700-22A (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21. Generator ID Number	22. Page	23. Manifest Tracking Number
	CAD983585324	2 of 2	014203095JJK

24. Generator's Name: **Olive View UCLA Medical Center**

25. Transporter _____ Company Name — U.S. EPA ID Number

26. Transporter _____ Company Name — U.S. EPA ID Number

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes		
X	5.UN3267,Corrosive liquid,basic,organic,n.o.s., (aqueous methenamine borate),8,PGIII	1	DF	6	P	551		
X	6.UN1802,Waste perchloric acid,8,(5.1),PGII	1	DF	6	P	D001	D002	791
X	7.UN1824,Waste sodium hydroxide solution,8,PGII	1	DF	6	P	D002	551	
X	8.UN3099,Waste oxidizing liquids,toxic,n.o.s., (silver nitrate,sodium chromate),5.1,(6.1),PGII	1	DF	6	P	D001	D007	D011
						723		
X	9.UN2922,Waste corrosive liquids,toxic,n.o.s., (aqueous gold chloride),8,(6.1),PGIII	1	DF	6	P	D002	792	
X	10.UN3265,Waste corrosive liquids,acidic,organic, n.o.s.,(acetic acid,ethylene glycol),8,PGIII	1	DF	7	P	D002	792	
X	11.NA3082,Other regulated substances,liquid,n.o.s., (formalin,sodium phosphate),9,PGIII	2	DF	110	G	331		

GENERATOR

32. Special Handling Instructions and Additional Information

05: Drum#0630-5 (Labpack); TX State Code:OUTS0011
06: Drum#0630-6 (Labpack); TX State Code:OUTS001H
07: Drum#0630-7 (Labpack); TX State Code:OUTS001H
08: Drum#0630-8 (Labpack); TX State Code:OUTS001H
09: Drum#0630-9 (Labpack); TX State Code:OUTS001H
10: Drum#0630-10 (Labpack); TX State Code:OUTS001H
11: Drum#0630-11A,11B (Bulk); TX State Code:OUTS1011

chg07101593

ERG#: 153, 140, 154, 142, 154, 153, 171

5: 1 x 5gal poly drum
6: 1 x 5gal poly drum
7: 1 x 5gal poly drum
8: 1 x 5gal poly drum
9: 1 x 5gal poly drum
10: 1 x 5gal poly drum
11: 2 x 55gal poly drum-BULK
12:
13:
14:

TRANSPORTER

33. Transporter _____ Acknowledgment of Receipt of Materials
Printed/Typed Name | Signature | Month | Day | Year

34. Transporter _____ Acknowledgment of Receipt of Materials
Printed/Typed Name | Signature | Month | Day | Year

FACILITY

35. Discrepancy

DESIGNA

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
H141 | For Cell Items

EPA Form 8700-22A (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21. Generator ID Number	22. Page	23. Manifest Tracking Number
	CAD983585324	2 of 2	014203095JJK

24. Generator's Name: **Olive View UCLA Medical Center**

25. Transporter _____ Company Name — U.S. EPA ID Number

26. Transporter _____ Company Name — U.S. EPA ID Number

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes
X	5.UN3267,Corrosive liquid,basic,organic,n.o.s., (aqueous methenamine borate),8,PGIII	1	DF	6	P	551
X	6.UN1802,Waste perchloric acid,8,(5.1),PGII	1	DF	6	P	D001 D002 791
X	7.UN1824,Waste sodium hydroxide solution,8,PGII	1	DF	6	P	D002 551
X	8.UN3099,Waste oxidizing liquids,toxic,n.o.s., (silver nitrate,sodium chromate),5.1,(6.1),PGII	1	DF	6	P	D001 D007 D011 723
X	9.UN2922,Waste corrosive liquids,toxic,n.o.s., (aqueous gold chloride),8,(6.1),PGIII	1	DF	6	P	D002 792
X	10.UN3265,Waste corrosive liquids,acidic,organic, n.o.s.,(acetic acid,ethylene glycol),8,PGIII	1	DF	7	P	D002 792
X	11.NA3082,Other regulated substances,liquid,n.o.s., (formalin,sodium phosphate),9,PGIII	2	DF	110	G	331

GENERATOR

32. Special Handling Instructions and Additional Information

05: Drum#0630-5 (Labpack); TX State Code:OUTS001I
06: Drum#0630-6 (Labpack); TX State Code:OUTS001H
07: Drum#0630-7 (Labpack); TX State Code:OUTS001H
08: Drum#0630-8 (Labpack); TX State Code:OUTS001H
09: Drum#0630-9 (Labpack); TX State Code:OUTS001H
10: Drum#0630-10 (Labpack); TX State Code:OUTS001H
11: Drum#0630-11A,11B (Bulk); TX State Code:OUTSI011

ERG# 153 140 154 142 154 153 171

5: 1 x 5gal poly drum
6: 1 x 5gal poly drum
7: 1 x 5gal poly drum
8: 1 x 5gal poly drum
9: 1 x 5gal poly drum
10: 1 x 5gal poly drum
11: 2 x 55gal poly drum-BULK
12:
13:
14:

TRANSPORTER

33. Transporter _____ Acknowledgment of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

34. Transporter _____ Acknowledgment of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

FACILITY

35. Discrepancy

DESIGNATED

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
C A D 9 8 3 5 8 5 3 2 4	2	NSE: (909) 875-9288	014203095 JJK

5. Generator's Name and Mailing Address
Olive View UCLA Medical Center
1100 N. Eastern Ave.,RM225
Los Angeles CA 90063
Generator's Phone: (818) 364-3405 Attn:Frank Colbert-EH&S Office

Generator's Site Address (if different than mailing address)
CD Requested
14445 Olive View Drive
Sylmar CA 91342

6. Transporter 1 Company Name
North State Environmental
U.S. EPA ID Number
C A R 0 0 0 2 0 6 0 8 6

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
NSSI/Sources & Services,Inc.
5711 Etheridge Street
Houston TX 77087
Facility's Phone: (713) 641-0391
U.S. EPA ID Number
T X D 9 8 2 5 6 0 2 9 4

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. UN2924,Waste flammable liquids,corrosive,n.o.s., (ethanol,hydrochloric acid),3,(8),PGII	1	DF	6	P	D001	D002	791
X	2. UN3264,Waste corrosive liquids,acidic,inorganic, n.o.s.,(ferric chloride,hydrochloric acid),8,PGII	1	DF	7	P	D002	792	
X	3. UN2810,Toxic liquids,organic,n.o.s., (phenol,nuclear fast red),6.1,PGII	1	DF	8	P	551		
X	4. UN2693,Waste bisulfite,aqueous solutions,n.o.s., (aqueous sodium bisulfite),8,PGIII	1	DF	6	P	D002	791	

14. Special Handling Instructions and Additional Information

	ERG#	
1: Drum#0630-1 (Labpack); TX State Code:OUTS001H	132	1: 1 x 5gal poly drum
2: Drum#0630-2 (Labpack); TX State Code:OUTS001H	154	2: 1 x 5gal poly drum
3: Drum#0630-3 (Labpack); TX State Code:OUTS0011	153	3: 1 x 5gal poly drum
4: Drum#0630-4 (Labpack); TX State Code:OUTS001H	154	4: 1 x 5gal poly drum

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: *Ben Alvarez* — Signature — Month 07 Day 03 Year 15

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: *Leo Cervantes* — Signature — Month 07 Day 03 Year 15

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name — Signature — Month Day Year

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

GENERATOR'S INITIAL COPY

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
C A D 9 8 3 5 8 5 3 2 4	1	NSE: (909) 875-9288	014203096 JJK

GENERATOR

5. Generator's Name and Mailing Address
Olive View UCLA Medical Center
1100 N. Eastern Ave.,RM225
Los Angeles CA 90063

Generator's Site Address (if different than mailing address) CD Requested
14445 Olive View Drive
Sylmar CA 91342

Generator's Phone: (818) 364-3405 Attn:Frank Colbert-EH&S Office

6. Transporter 1 Company Name: North State Environmental
U.S. EPA ID Number: C A R 0 0 0 2 0 6 0 8 6

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
US Ecology, Inc.
Hwy 95, 11 miles south of
Beatty NV 89003

U.S. EPA ID Number: N V T 3 3 0 0 1 0 0 0 0

Facility's Phone: (775) 553-2203

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN1907,Soda lime,8,PGIII	1	DF	145	P	181
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1: Profile#070127495-903:Spent CO2 absorbent w/ soda lime in plastic cartridges

ERG# 154

1: 1 x 55gal poly drum
2:
3:
4:

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Ben Alvarez
Signature:
Month 06 Day 30 Year 15

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Leo Cervantes
Signature:
Month 06 Day 30 Year 15

Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Jessica Meick
Signature:
Month 7 Day 9 Year 15

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
CAD983585324	1	NSE: (909) 875-9288	014203096 JJK

GENERATOR

5. Generator's Name and Mailing Address
Olive View UCLA Medical Center
1100 N. Eastern Ave.,RM225
Los Angeles CA 90063

Generator's Site Address (if different than mailing address) **CD Requested**
14445 Olive View Drive
Sylmar CA 91342

Generator's Phone: (818) 364-3405 Attn:Frank Colbert-EH&S Office

6. Transporter 1 Company Name: North State Environmental
U.S. EPA ID Number: CAR000206086

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
US Ecology, Inc.
Hwy 95, 11 miles south of
Beatty NV 89003

U.S. EPA ID Number

Facility's Phone: (775) 553-2203
NVT330010000

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN1907, Soda lime, 8, PGIII	1	DF	145	P	181
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1: Profile#070127495-903:Spent CO2 absorbent w/ soda lime in plastic cartridges
ERG# 154
1: 1 x 55gal poly drum
2:
3:
4:

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Ben Alvarez
Signature:
Month 06 Day 30 Year 15

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Leo Cervantes
Signature:
Month 06 Day 30 Year 15

Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name
Signature
Month Day Year

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

GENERATOR'S INITIAL COPY

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
C A D 9 8 3 5 8 5 3 2 4	1	NSE: (909) 875-9288	014203094 JJK

5. Generator's Name and Mailing Address
Olive View UCLA Medical Center
1100 N. Eastern Ave.,RM225
Los Angeles CA 90063

Generator's Site Address (if different than mailing address) CD Requested
14445 Olive View Drive
Sylmar CA 91342

Generator's Phone: (818) 364-3405 Attn:Frank Colbert-EH&S Office

6. Transporter 1 Company Name: North State Environmental
U.S. EPA ID Number: C A R 0 0 0 2 0 6 0 8 6

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Pacific Resource Recovery
3150 East Pico Boulevard
Los Angeles CA 90023

U.S. EPA ID Number: C A D 0 0 8 2 5 2 4 0 5

Facility's Phone: (800) 499-7145

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ,UN1993,Waste flammable liquids,n.o.s., (xylene,alcohol),3,II (D001,F003)	4	DF	220	G	D001	F003	212
X	2. UN1325,Waste flammable solids,organic,n.o.s., (carbon filters),4.1,PGIII	1	DF	24	P	D001	331	
X	3. RQ,UN1325,Waste flammable solids,organic,n.o.s., (paraffin wax with xylene,alcohol),4.1,PGII (D001,F003)	1	DF	160	P	D001	F003	331
	4.							

14. Special Handling Instructions and Additional Information

	ERG#	
1: Profile#13070179: Alcohols,xylenes,glycols,stains,water,hydrocarbons	128	1: 4 x 55gal poly drum
2: Profile#10020023: Used carbon filters/carbon in cardboard	133	2: 1 x 15gal fiber drum
3: Profile#14010076: Used paraffin wax with alcohol,xylene,limonene	133	3: 1 x 55gal poly drum
		4:

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Ben Alvarez
Signature:
Month 06 Day 30 Year 15

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Leo Cervantes
Signature:
Month 06 Day 30 Year 15

Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H061	H141	H141	

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Jorge Garcia
Signature:
Month 7 Day 6 Year 15

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
C A D 9 8 3 5 8 5 3 2 4	1	NSE: (909) 875-9288	014203094 JJK

GENERATOR

5. Generator's Name and Mailing Address
Olive View UCLA Medical Center
1100 N. Eastern Ave.,RM225
Los Angeles CA 90063

Generator's Site Address (if different than mailing address) CD Requested
14445 Olive View Drive
Sylmar CA 91342

Generator's Phone: (818) 364-3405 Attn:Frank Colbert-EH&S Office

6. Transporter 1 Company Name: North State Environmental
U.S. EPA ID Number: C A R 0 0 0 2 0 6 0 8 6

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Pacific Resource Recovery
3150 East Pico Boulevard
Los Angeles CA 90023
U.S. EPA ID Number: C A D 0 0 8 2 5 2 4 0 5

Facility's Phone: (800) 499-7145

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ,UN1993,Waste flammable liquids,n.o.s., (xylene,alcohol),3,II (D001,F003)	4	DF	220	G	D001	F003	212
X	2. UN1325,Waste flammable solids,organic,n.o.s., (carbon filters),4.1,PGIII	1	DF	24	P	D001	331	
X	3. RQ,UN1325,Waste flammable solids,organic,n.o.s., (paraffin wax with xylene,alcohol),4.1,PGII (D001,F003)	1	DF	160	P	D001	F003	331
	4.							

14. Special Handling Instructions and Additional Information

	ERG#	
1: Profile#13070179: Alcohols,xylenes,glycols,stains,water,hydrocarbons	128	1: 4 x 55gal poly drum
2: Profile#10020023: Used carbon filters/carbon in cardboard	133	2: 1 x 15gal fiber drum
3: Profile#14010076: Used paraffin wax with alcohol,xylene,limonene	133	3: 1 x 55gal poly drum
		4:

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Ben Alvarez
Signature:
Month 06 Day 30 Year 15

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Leo Cervantes
Signature:
Month 06 Day 30 Year 15

Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name:
Signature:
Month Day Year

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

GENERATOR'S INITIAL COPY

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21. Generator ID Number	22. Page	23. Manifest Tracking Number
	C A D 9 8 3 5 8 5 3 2 4	2 of 3	014214452JJK

24. Generator's Name

Olive View Medical Center Los Angeles County

25. Transporter _____ Company Name — U.S. EPA ID Number

26. Transporter _____ Company Name — U.S. EPA ID Number

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes		
X	5.UN3099,Waste oxidizing liquids,toxic,n.o.s., (sodium nitrite,potassium chromate),5.1,(6.1),PGII	1	DF	7	P	D001	D007	D011
X	6.UN1760,Corrosive liquid,n.o.s., (glutaraldehyde),8,PGIII	1	DF	7	P	723		
X	7.UN3098,Waste oxidizing liquids,corrosive,n.o.s., (periodic acid),5.1,(8),PGII	1	DF	7	P	551		
X	8.UN2924,Waste flammable liquids,corrosive,n.o.s., (ethanol,hydrochloric acid),3,(8),PGII	1	DF	7	P	D002	D001	791
X	9.UN3265,Waste corrosive liquids,acidic,organic, n.o.s.,(acetic acid,aluminum sulfate),8,PGIII	1	DF	13	P	D001	D002	791
X	10.UN1344,Waste trinitrophenol,wetted,4.1,PGI	1	DF	7	P	D002	792	
X	11.UN2693,Waste bisulfites,aqueous solutions,n.o.s. (aqueous sodium bisulfite),8,PGIII	1	DF	7	P	D001	D002	791
X	12.UN1935,Waste cyanide solution,n.o.s., (potassium ferrocyanide),6.1,PGIII "toxic" DOT-SP13192	1	DF	7	P	D002	791	
X	13.UN1813,Potassium hydroxide,solid,8,PGII	1	DF	7	P	D003	711	
X	14.UN3244,Waste solids containing corrosive liquids, n.o.s.,(sulfuric acid on inert carrier),8,PGII	1	DF	7	P	551		
						D003	551	

32. Special Handling Instructions and Additional Information

05: Drum#0729-5 (Labpack); TX State Code:OUTS001H
06: Drum#0729-6 (Labpack); TX State Code:OUTS0011
07: Drum#0729-7 (Labpack); TX State Code:OUTS001H
08: Drum#0729-8 (Labpack); TX State Code:OUTS001H
09: Drum#0729-9 (Labpack); TX State Code:OUTS001H
10: Drum#0729-10 (Labpack); TX State Code:OUTS001H
11: Drum#0729-11 (Labpack); TX State Code:OUTS001H
12: Drum#0729-12 (Labpack); TX State Code:OUTS001H
13: Drum#0729-13 (Labpack); TX State Code:OUTS0011
14: Drum#0729-14 (Labpack); TX State Code:OUTS001H

ERG#			
142	5: 1 x 5gal poly drum	9: 1 x 5gal poly drum	13: 1 x 5gal poly drum
154			
140	6: 1 x 5gal poly drum	10: 1 x 5gal poly drum	14: 1 x 5gal poly drum
132			
153	7: 1 x 5gal poly drum	11: 1 x 5gal poly drum	
113			
154			
157	8: 1 x 5gal poly drum	12: 1 x 5gal poly drum	
154			
154			

GENERATOR

TRANSPORTER

33. Transporter _____ Acknowledgment of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

34. Transporter _____ Acknowledgment of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

FACILITY

35. Discrepancy

DESIGNATED

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

EPA Form 8700-22A (Rev. 3-05) Previous editions are obsolete.

GENERATOR'S INITIAL COPY

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21. Generator ID Number	22. Page	23. Manifest Tracking Number
	CAD983585324	3 of 3	014214452JJK

24. Generator's Name: Olive View Medical Center Los Angeles County

25. Transporter _____ Company Name — U.S. EPA ID Number

26. Transporter _____ Company Name — U.S. EPA ID Number

GENERATOR

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes		
X	15.UN2924,Waste flammable liquids,corrosive,n.o.s., (sodium hydroxide,ethanol),3,(8),PGII	1	DF	7	P	D001	D002	551
X	16.UN2925,Waste flammable solids,corrosive,organic, n.o.s.,(ammonia,ethanol),4.1,(8),PGII	1	DF	7	P	D001	551	
X	17.UN1950,Waste aerosols,2.1 (o-phenylphenol,ethanol)	1	DF	4	P	D001	331	
X	18.UN1344,Waste trinitrophenol,wetted,4.1,PGI	1	DF	7	P	D002	791	
X	19.UN1992,Waste flammable liquids,toxic,n.o.s., (phenol,alcohol),3,(6.1),PGII	1	DF	9	P	D001	551	
X	20.Toxic liquids,organic,n.o.s., (phenol,nuclear fast red),6.1,PGII	1	DF	9	P	551		
X	21.NA3082,Other regulated substances,liuqid,n.o.s., (formalin,sodium phosphate),9,PGIII	1	DF	55	G	331		

32. Special Handling Instructions and Additional Information

15: Drum#0729-15 (Labpack); TX State Code:OUTS001H
16: Drum#0729-16 (Labpack); TX State Code:OUTS001H
17: Drum#0729-17 (Labpack); TX State Code:OUTS801H
18: Drum#0729-18 (Labpack); TX State Code:OUTS001H
19: Drum#0729-19 (Labpack); TX State Code:OUTS001H
20: Drum#0729-20 (Labpack); TX State Code:OUTS0011
21: Drum#0729-21 (Bulk); TX State Code:OUTS1011

ERG# 132, 134, 126, 113, 131, 131, 171

15: 1 x 5gal poly drum
16: 1 x 5gal poly drum
17: 1 x 5gal poly drum
18: 1 x 5gal poly drum
19: 1 x 5gal poly drum
20: 1 x 5gal poly drum
21: 1 x 55gal poly drum-BULK
22:
23:
24:

TRANSPORTER

33. Transporter _____ Acknowledgment of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

34. Transporter _____ Acknowledgment of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

FACILITY

35. Discrepancy

DESIGNAT

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

EPA Form 8700-22A (Rev. 3-05) Previous editions are obsolete.

GENERATOR'S INITIAL COPY

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: C A D 9 8 3 5 8 5 3 2 4
2. Page 1 of: 1
3. Emergency Response Phone: (909) 875-9288
4. Manifest Tracking Number: 014188931 JK

5. Generator's Name and Mailing Address
Olive View UCLA Medical Center
14445 Olive View Drive
Sylmar CA 91342
Generator's Phone: (818) 364-3405 Attn: Frank Colbert

Generator's Site Address (if different than mailing address) *CD Requested*

6. Transporter 1 Company Name: North State Environmental — (650) 588-2838 — U.S. EPA ID Number: C A R 0 0 0 2 0 6 0 8 6

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
US Ecology, Inc.
Hwy 95, 11 miles south of
Beatty NV 89003
Facility's Phone: (775) 553-2203

U.S. EPA ID Number: N V T 3 3 0 0 1 0 0 0 0

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN1907, Soda lime, 8, PGIII	1	DF	10	P	181
	2. Non-RCRA hazardous waste solid (lab debris)		DF		P	352
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1 070127495-903 ; Soda lime cartridges
2 070128300-8053 ; Lab debris-plastic, glassware,paper,cardboard,PPE

ERG# 154 N/A

1: 2: 3: 4:

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: HAYK SVADIAN — Signature — Month Day Year

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name — Signature — Month Day Year

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1. 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name — Signature — Month Day Year

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

GENERATOR'S INITIAL COPY

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
C A D 9 8 3 5 8 5 3 2 4	1	(909) 875-9288	014188930 JJK

GENERATOR

5. Generator's Name and Mailing Address
Olive View UCLA Medical Center
14445 Olive View Drive
Sylmar CA 91342
Generator's Phone: (818) 364-3405 Attn: Frank Colbert

Generator's Site Address (if different than mailing address)

CD Requested

6. Transporter 1 Company Name: North State Environmental (650) 588-2838
U.S. EPA ID Number: C A R 0 0 0 2 0 6 0 8 6

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
NSSI/Sources & Services, Inc.
5711 Etheridge Street
Houston TX 77087
Facility's Phone: (713) 641-0391
U.S. EPA ID Number: T X D 9 8 2 5 6 0 2 9 4

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. NA3082, Other regulated substances, liquid, n.o.s., (phosphate buffered formalin), 9, PGIII	11	DF	605	G	134
X	2. NA3082, Other regulated substances liquid, n.o.s., (DAB Waste), 9, PGIII	3	DF	165	G	134
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1 ehg020513g2 ; ehg020513g2, TX State Code: OUTS001H
2 ehg013013g7-BD1 ; EHG013013g7-BD1, TX State Code: OUTS001H

ERG# 1: 171 2: 171 3: 4:

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Frank Colbert Signature: Month: 05 Day: 23 Year: 13

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Signature: Month: 05 Day: 23 Year:

Transporter 2 Printed/Typed Name: Signature: Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Signature: Month: Day: Year:

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
C A D 9 8 3 5 8 5 3 2 4	1	(909) 875-9288	01418929 JJK

GENERATOR

5. Generator's Name and Mailing Address
Olive View UCLA Medical Center
14445 Olive View Drive
Sylmar CA 91342
Generator's Phone: (818) 364-3405 Attn: Frank Colbert

Generator's Site Address (if different than mailing address)
CD Requested

6. Transporter 1 Company Name
North State Environmental (650) 588-2838

U.S. EPA ID Number
C A R 0 0 0 2 0 6 0 8 6

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
Pacific Resource Recovery
3150 East Pico Boulevard
Los Angeles CA 90023
Facility's Phone: (800) 499-7145

U.S. EPA ID Number
C A D 0 0 8 2 5 2 4 0 5

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ,UN1993,Waste flammable liquids,n.o.s., (methanol,hexane),3,II (D001,F003)		DM		G	D001	F003	212
X	2. UN1325,Waste flammable solids,organic,n.o.s., (cardboard filters with carbon),4.1,III		DM		P	D001		352
X	3. RQ,UN3175,Waste solids containing flammable liquids ,n.o.s.,(paraffin wax with xylene,petroleum distillates),4.1,II (D001)		DM		P	D001	F003	331
	4.							

14. Special Handling Instructions and Additional Information

		ERG#	
1 13070179	; Profile#13070179: Solvent with methanol,alcohol,hexane	128	1:
2 10020023	; Carbon filler cardborad filters (bulk)	133	2:
3 14010076	; Profile#14010076: Paraffin wax with xlyene,petroleum distillates	133	3:
			4:

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: MARK SVABIK Signature: Month Day Year

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name Signature Month Day Year

Transporter 2 Printed/Typed Name Signature Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name Signature Month Day Year

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
CAD983585324	1	NSE: (909) 875-9288	007668623 FLE

GENERATOR

5. Generator's Name and Mailing Address
Olive View UCLA Medical Center
1100 N. Eastern Ave.,RM225
Los Angeles CA 90063

Generator's Site Address (if different than mailing address) CD Requested
14445 Olive View Drive
Sylmar CA 91342

Generator's Phone: (818) 364-3405 Attn:Frank Colbert-EH&S Office

6. Transporter 1 Company Name: North State Environmental
U.S. EPA ID Number: CAR000206086

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
US Ecology, Inc.
Hwy 95, 11 miles south of
Beatty NV 89003

U.S. EPA ID Number: NVT330010000

Facility's Phone: (775) 553-2203

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. Non-RCRA hazardous waste solid (lab debris)	1	DF	30	P	352
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1: Profile#070128300-9087: Lab debris with broken glass,rags,absorbent,gloves

ERG# N/A

1: 1 x 55gal fiber drum
2:
3:
4:

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Benjamin Alvarez — Signature — Month 06 Day 05 Year 15

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Leo Cervantes David Spero — Signature — Month 06 Day 05 Year 15

Transporter 2 Printed/Typed Name: — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Amber Kirk — Signature — Month 6 Day 10 Year 15

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
CAD983585324	1	NSE: (909) 875-9288	007668623 FLE

5. Generator's Name and Mailing Address
Olive View UCLA Medical Center
1100 N. Eastern Ave.,RM225
Los Angeles CA 90063

Generator's Site Address (if different than mailing address) **CD Requested**
14445 Olive View Drive
Sylmar CA 91342

Generator's Phone: (818) 364-3405 Attn:Frank Colbert-EH&S | Office

6. Transporter 1 Company Name: North State Environmental
U.S. EPA ID Number: CAR000206086

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
US Ecology, Inc.
Hwy 95, 11 miles south of
Beatty NV 89003

U.S. EPA ID Number: NVT330010000

Facility's Phone: (775) 553-2203

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Non-RCRA hazardous waste solid (lab debris)	1	DF	30	P	352		
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1: Profile#070128300-9087: Lab debris with broken glass,rags,absorbent,gloves

ERG# N/A

1: 1 x 55gal fiber drum
2:
3:
4:

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Frank Colbert | Signature | Month 06 | Day 05 | Year 15

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Leo Cervantes | Signature: David Torres | Month 06 | Day 05 | Year 15

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) | U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) | Month | Day | Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name | Signature | Month | Day | Year

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: CAD983585324
2. Page 1 of: 1
3. Emergency Response Phone: NSE: (909) 875-9288
4. Manifest Tracking Number: 007668622 FLE

5. Generator's Name and Mailing Address
Olive View UCLA Medical Center
1100 N. Eastern Ave.,RM225
Los Angeles CA 90063

Generator's Site Address (if different than mailing address)
CD Requested
14445 Olive View Drive
Sylmar CA 91342

Generator's Phone: (818) 364-3405 Attn:Frank Colbert-EH&S Office

6. Transporter 1 Company Name: North State Environmental
U.S. EPA ID Number: CAR000206086

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Pacific Resource Recovery
3150 East Pico Boulevard
Los Angeles CA 90023

Facility's Phone: (800) 499-7145
U.S. EPA ID Number: CAD008252405

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. UN1325,Waste flammable solids,organic,n.o.s., (paraffin wax with xylene,alcohol),4.1,II	1	DF	86	P	D001	331	
X	2. UN1950,Waste aerosols,2.1	1	DF	5	P	D001	331	
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1: Drum#0605-1: Spent paraffin wax with xylene,alcohol 14D100776
2: Profile#Pending:Flammable aerosols with hydrocarbon solvents and propellants 2609171

ERG#
133
126

1: 1 x 30gal fiber drum
2: 1 x 5gal poly drum
3:
4:

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Benjamin Linares
Signature:
Month: 06 Day: 05 Year: 15

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Leo Cervantes David Lopez
Signature:
Month: 06 Day: 05 Year: 15

Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H141	H141		

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Jorge Garcia
Signature:
Month: 06 Day: 08 Year: 15

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
C A D 9 8 3 5 8 5 3 2 4	1	NSE: (909) 875-9288	007668622 FLE

GENERATOR

5. Generator's Name and Mailing Address
Olive View UCLA Medical Center
1100 N. Eastern Ave.,RM225
Los Angeles CA 90063

Generator's Site Address (if different than mailing address)
CD Requested
14445 Olive View Drive
Sylmar CA 91342

Generator's Phone: (818) 364-3405 Attn:Frank Colbert-EH&S Office

6. Transporter 1 Company Name
North State Environmental

U.S. EPA ID Number
C A R 0 0 0 2 0 6 0 8 6

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
Pacific Resource Recovery
3150 East Pico Boulevard
Los Angeles CA 90023

Facility's Phone: (800) 499-7145

U.S. EPA ID Number
C A D 0 0 8 2 5 2 4 0 5

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. UN1325,Waste flammable solids,organic,n.o.s., (paraffin wax with xylene,alcohol),4.1,II	1	DF	30	P	D001	331	
X	2. UN1950,Waste aerosols,2.1	1	DF	5	P	D001	331	
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1: Drum#0605-1: Spent paraffin wax with xylene,alcohol
2: Profile#Pending:Flammable aerosols with hydrocarbon solvents and propellants

ERG#
133
126

1: 1 x 30gal fiber drum
2: 1 x 5gal poly drum
3:
4:

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name | Signature | Month 06 | Day 05 | Year 15

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Leo Cervantes | Signature | Month 06 | Day 05 | Year 15

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) | U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) | Month | Day | Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name | Signature | Month | Day | Year

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
CAD983585324	3	NSE: (909) 875-9288	007668621 FLE

GENERATOR

5. Generator's Name and Mailing Address
Olive View UCLA Medical Center
1100 N. Eastern Ave.,RM225
Los Angeles CA 90063

Generator's Site Address (if different than mailing address) CD Requested
14445 Olive View Drive
Sylmar CA 91342

Generator's Phone: (818) 364-3405 Attn:Frank Colbert-EH&S Office

This is to inform the generator of the waste shipped this manifest, that NSSI has the appropriate permits and will accept, the waste the generator is shipping.

6. Transporter 1 Company Name
North State Environmental

U.S. EPA ID Number
CAR000206086

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
NSSI/Sources & Services,Inc.
5711 Etheridge Street
Houston TX 77087

Facility's Phone: (713) 641-0391

U.S. EPA ID Number
TXD982560294

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. UN3122,Waste toxic liquid,oxidizing,n.o.s., (iodine,potassium iodide),6.1,(5.1),II	1	DF	72	P	D001	551	
X	2. RQ,UN2024,Waste mercury compounds,liquid,n.o.s., (formalin,mercuric chloride),6.1,II (D009) "toxic" "Marine Pollutant"	1	DF	27	P	D009	725	
X	3. UN1344,Waste trinitrophenol,wetted,4.1,I	1	DF	12	P	D001	551	
X	4. UN3142,Waste disinfectants,liquid,toxic,n.o.s., (isopropanol,diisobutylphenoxyethoxyethyl dimethyl benzyl ammonium chloride),6.1,II	1	DF	14	P	D001	551	

14. Special Handling Instructions and Additional Information

	ERG#	
1: Drum#0605-1: (Labpack) TX State Code: OUTS001H	154	1: 1 x 30gal fiber drum
2: Drum#0605-2: (Labpack) TX State Code: OUTS001H	151	2: 1 x 15gal fiber drum
3: Drum#0605-3: (Labpack) TX State Code: OUTS001H	113	3: 1 x 5gal poly drum
4: Drum#0605-4: (Labpack) TX State Code: OUTS001H	154	4: 1 x 5gal poly drum

ehg 06/11/5910

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: BENJAMIN ALVAREZ | Signature | Month 06 | Day 05 | Year 15

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name	Signature	Month	Day	Year
Leo Cervantes David Spero		06	05	15
Transporter 2 Printed/Typed Name	Signature	Month	Day	Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H040-07	H141 for H1-4		

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name	Signature	Month	Day	Year
A. Foster		6	9	15

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
CAD983585324	3	NSE: (909) 875-9288	007668621 FLE

GENERATOR

5. Generator's Name and Mailing Address
Olive View UCLA Medical Center
1100 N. Eastern Ave.,RM225
Los Angeles CA 90063

Generator's Site Address (if different than mailing address) CD Requested
14445 Olive View Drive
Sylmar CA 91342

Generator's Phone: (818) 364-3405 Attn:Frank Colbert-EH&S Office

6. Transporter 1 Company Name: North State Environmental
U.S. EPA ID Number: CAR000206086

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
NSSI/Sources & Services,Inc.
5711 Etheridge Street
Houston TX 77087

U.S. EPA ID Number: TXD982560294

Facility's Phone: (713) 641-0391

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. UN3122,Waste toxic liquid,oxidizing,n.o.s., (iodine,potassium iodide),6.1,(5.1),II	1	DF	72	P	D001	551	
X	2. RQ,UN2024,Waste mercury compounds,liquid,n.o.s., (formalin,mercuric chloride),6.1,II (D009) "toxic" "Marine Pollutant"	1	DF	27	P	D009	725	
X	3. UN1344,Waste trinitrophenol,wetted,4.1,I	1	DF	12	P	D001	551	
X	4. UN3142,Waste disinfectants,liquid,toxic,n.o.s., (isopropanol,diisobutylphenoxyethoxyethyl dimethyl benzyl ammonium chloride),6.1,II	1	DF	14	P	D001	551	

14. Special Handling Instructions and Additional Information

	ERG#
1: Drum#0605-1: (Labpack) TX State Code: OUTS001H	154
2: Drum#0605-2: (Labpack) TX State Code: OUTS001H	151
3: Drum#0605-3: (Labpack) TX State Code: OUTS001H	113
4: Drum#0605-4: (Labpack) TX State Code: OUTS001H	154

ehg 06111591 0

1: 1 x 30gal fiber drum
2: 1 x 15gal fiber drum
3: 1 x 5gal poly drum
4: 1 x 5gal poly drum

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: BENJAMIN ALVAREZ
Signature:
Month 06 Day 05 Year 15

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: ~~Leo Cervantes~~ David Spears
Signature:
Month 06 Day 05 Year 15

Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H040-07	H141 for H1-4		

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: A. Foston
Signature:
Month 06 Day 19 Year 15

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21. Generator ID Number	22. Page	23. Manifest Tracking Number
	CAD983585324	2 of 3	007668621FLE

24. Generator's Name: **Olive View UCLA Medical Center**

25. Transporter _____ Company Name — U.S. EPA ID Number

26. Transporter _____ Company Name — U.S. EPA ID Number

This is to inform the generator of the waste shipped on this manifest, that NSSI has the appropriate permits to and will accept, the waste the generator is shipping.

GENERATOR

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes
X	5.UN1791,Waste hypochlorite solution,8,III	1	DF	12	P	D001 551
X	6.UN3098,Waste oxidizing liquid,corrosive,n.o.s., (ammoniacal silver nitrate),5.1,(8),II	1	DF	8	P	D001 D011 551
X	7.UN1866,Waste resin solution,3,II	1	DF	10	P	D001 551
X	8.UN1873,Waste perchloric acid,5.1,(8),I	1	DF	10	P	D001 D002 791
X	9.UN3290,Waste toxic solid,corrosive,inorganic, n.o.s.,(gold chloride),6.1,(8),II	1	DF	13	P	D002 791
X	10.RQ,UN3139,Waste oxidizing liquid,n.o.s., (silver nitrate,sodium chromate),5.1,II (D011)	1	DF	13	P	D001 D007 D011 551
X	11.UN3098,Waste oxidizing liquid,corrosive,n.o.s., (phosphotungstic,phosphomolybdic acid),5.1,(8),II	1	DF	10	P	D001 D002 791
X	12.UN3264,Waste corrosive liquids,acidic,inorganic, n.o.s.,(ferric chloride,hydrochloric acid),8,II	1	DF	34	P	D002 791
X	13.UN1362,Waste carbon,activated,4.2,III DOT-SP13192	1	DF	17	P	D001 551
X	14.UN3280,Waste organoarsenic compound,liquid, n.o.s.,(aqueous sodium cacodylate,glutaraldehyde), 6.1,II "toxic"	1	DF	12	P	D004 551

32. Special Handling Instructions and Additional Information

05: Drum#0605-5: (Labpack) TX State Code: OUTS001H
06: Drum#0605-6: (Labpack) TX State Code: OUTS001H
07: Drum#0605-7: (Labpack) TX State Code: OUTS001H
08: Drum#0605-8: (Labpack) TX State Code: OUTS001H
09: Drum#0605-9: (Labpack) TX State Code: OUTS001H
10: Drum#0605-10: (Labpack) TX State Code: OUTS001H
11: Drum#0605-11: (Labpack) TX State Code: OUTS001H
12: Drum#0605-12: (Labpack) TX State Code: OUTS001H
13: Drum#0605-13: (Labpack) TX State Code: OUTS001H
14: Drum#0605-14: (Labpack) TX State Code: OUTS001H

ERG# 154 140 127 143 154 140 140 153 133 151

dhg 061115910

5: 1 x 5gal poly drum
6: 1 x 5gal poly drum
7: 1 x 5gal poly drum
8: 1 x 5gal poly drum
9: 1 x 5gal poly drum
10: 1 x 5gal poly drum
11: 1 x 5gal poly drum
12: 1 x 15gal fiber drum
13: 1 x 5gal poly drum
14: 1 x 5gal poly drum

TRANSPORTER

33. Transporter _____ Acknowledgment of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

34. Transporter _____ Acknowledgment of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

FACILITY

35. Discrepancy

DESIGNA

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21. Generator ID Number	22. Page	23. Manifest Tracking Number
	CAD983585324	2 of 3	007668621FLE

24. Generator's Name: Olive View UCLA Medical Center

25. Transporter _____ Company Name — U.S. EPA ID Number

26. Transporter _____ Company Name — U.S. EPA ID Number

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes
X	5.UN1791,Waste hypochlorite solution,8,III	1	DF	12	P	D001 551
X	6.UN3098,Waste oxidizing liquid,corrosive,n.o.s., (ammoniacal silver nitrate),5.1,(8),II	1	DF	8	P	D001 D011 551
X	7.UN1866,Waste resin solution,3,II	1	DF	10	P	D001 551
X	8.UN1873,Waste perchloric acid,5.1,(8),I	1	DF	10	P	D001 D002 791
X	9.UN3290,Waste toxic solid,corrosive,inorganic, n.o.s.,(gold chloride),6.1,(8),II	1	DF	13	P	D002 791
X	10.RQ,UN3139,Waste oxidizing liquid,n.o.s., (silver nitrate,sodium chromate),5.1,II (D011)	1	DF	13	P	D001 D007 D011 551
X	11.UN3098,Waste oxidizing liquid,corrosive,n.o.s., (phosphotungstic,phosphomolybdic acid),5.1,(8),II	1	DF	10	P	D001 D002 791
X	12.UN3264,Waste corrosive liquids,acidic,inorganic, n.o.s.,(ferric chloride,hydrochloric acid),8,II	1	DF	34	P	D002 791
X	13.UN1362,Waste carbon,activated,4.2,III DOT-SP13192	1	DF	17	P	D001 551
X	14.UN3280,Waste organoarsenic compound,liquid, n.o.s.,(aqueous sodium cacodylate,glutaraldehyde), 6.1,II "toxic"	1	DF	12	P	D004 551

32. Special Handling Instructions and Additional Information

05: Drum#0605-5: (Labpack) TX State Code: OUTS001H
06: Drum#0605-6: (Labpack) TX State Code: OUTS001H
07: Drum#0605-7: (Labpack) TX State Code: OUTS001H
08: Drum#0605-8: (Labpack) TX State Code: OUTS001H
09: Drum#0605-9: (Labpack) TX State Code: OUTS001H
10: Drum#0605-10: (Labpack) TX State Code: OUTS001H
11: Drum#0605-11: (Labpack) TX State Code: OUTS001H
12: Drum#0605-12: (Labpack) TX State Code: OUTS001H
13: Drum#0605-13: (Labpack) TX State Code: OUTS001H
14: Drum#0605-14: (Labpack) TX State Code: OUTS001H

dkg 06111 5910

ERG#
154
140
127
143
154
140
140
153
133
151

5: 1 x 5gal poly drum
6: 1 x 5gal poly drum
7: 1 x 5gal poly drum
8: 1 x 5gal poly drum
9: 1 x 5gal poly drum
10: 1 x 5gal poly drum
11: 1 x 5gal poly drum
12: 1 x 15gal fiber drum
13: 1 x 5gal poly drum
14: 1 x 5gal poly drum

GENERATOR

TRANSPORTER

33. Transporter _____ Acknowledgment of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

34. Transporter _____ Acknowledgment of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

FACILITY

35. Discrepancy

DESIGNATED FACILITY

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21. Generator ID Number	22. Page	23. Manifest Tracking Number
	CAD983585324	3 of 3	007668621FLE

24. Generator's Name

Olive View UCLA Medical Center

25. Transporter _____ Company Name — U.S. EPA ID Number

26. Transporter _____ Company Name — U.S. EPA ID Number

This is to inform the generator of the waste shipped on this manifest, that NSSI has the appropriate permits for and will accept the waste the generator is shipping.

GENERATOR

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes		
X	15.UN2810,Toxic liquids,organic,n.o.s., (aqueous hydroquinone),6.1,III	1	DF	8	P	551		
X	16.UN2924,Waste flammable liquid,corrosive,n.o.s., (acid alcohol,formic acid),3,(8),II	1	DF	11	P	D001	D002	791
X	17.UN1719,Waste caustic alkali liquids,n.o.s., (sodium hydroxide,sodium carbonate),8,II	1	DF	9	P	D002	551	
X	18.RQ,UN3287,Waste toxic liquid,inorganic,n.o.s., (silver nitrate,barium chloride),6.1,II (D011)	1	DF	15	P	D005	D011	551
X	19.UN1993,Waste flammable liquids,n.o.s., (methanol,ethanol),3,II	1	DF	85	P	D001	U002	F003
X	20.NA3082,Other regulated substances liquid,n.o.s., (sodium thiosulfate,methenamine borate),9,III	1	DF	136	P	551		
X	21.UN3265,Waste corrosive liquids,acidic,organic, n.o.s.,(oxalic acid,acetic acid),8,II	1	DF	31	P	551		
						D002	791	

32. Special Handling Instructions and Additional Information

15: Drum#0605-15: (Labpack) TX State Code: OUTS0011
16: Drum#0605-16: (Labpack) TX State Code: OUTS001H
17: Drum#0605-17: (Labpack) TX State Code: OUTS001H
18: Drum#0605-18: (Labpack) TX State Code: OUTS001H
19: Drum#0605-19: (Labpack) TX State Code: OUTS001H
20: Drum#0605-20: (Labpack) TX State Code: OUTS0011
21: Drum#0605-21: (Labpack) TX State Code: OUTS001H

Chg061115g10

ERG#: 154, 132, 154, 151, 128, 171, 153

15: 1 x 5gal poly drum
16: 1 x 5gal poly drum
17: 1 x 5gal poly drum
18: 1 x 5gal poly drum
19: 1 x 30gal fiber drum
20: 1 x 55gal fiber drum
21: 1 x 15gal fiber drum
22:
23:
24:

TRANSPORTER

33. Transporter _____ Acknowledgment of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

34. Transporter _____ Acknowledgment of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

FACILITY

35. Discrepancy

DESIGNA

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

H040-01 / H141 for #15-21

EPA Form 8700-22A (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21. Generator ID Number	22. Page	23. Manifest Tracking Number
	CAD983585324	3 of 3	007668621FLE

24. Generator's Name: **Olive View UCLA Medical Center**

25. Transporter _____ Company Name | U.S. EPA ID Number

26. Transporter _____ Company Name | U.S. EPA ID Number

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes
X	15.UN2810,Toxic liquids,organic,n.o.s., (aqueous hydroquinone),6.1,III	1	DF	8	P	551
X	16.UN2924,Waste flammable liquid,corrosive,n.o.s., (acid alcohol,formic acid),3,(8),II	1	DF	11	P	D001 D002 791
X	17.UN1719,Waste caustic alkali liquids,n.o.s., (sodium hydroxide,sodium carbonate),8,II	1	DF	9	P	D002 551
X	18.RQ,UN3287,Waste toxic liquid,inorganic,n.o.s., (silver nitrate,barium chloride),6.1,II (D011)	1	DF	15	P	D005 D011 551
X	19.UN1993,Waste flammable liquids,n.o.s., (methanol,ethanol),3,II	1	DF	85	P	D001 U002 F003 551
X	20.NA3082,Other regulated substances liquid,n.o.s., (sodium thiosulfate,methenamine borate),9,III	1	DF	136	P	551
X	21.UN3265,Waste corrosive liquids,acidic,organic, n.o.s.,(oxalic acid,acetic acid),8,II	1	DF	31	P	D002 791

32. Special Handling Instructions and Additional Information

15: Drum#0605-15: (Labpack) TX State Code: OUTS0011
16: Drum#0605-16: (Labpack) TX State Code: OUTS001H
17: Drum#0605-17: (Labpack) TX State Code: OUTS001H
18: Drum#0605-18: (Labpack) TX State Code: OUTS001H
19: Drum#0605-19: (Labpack) TX State Code: OUTS001H
20: Drum#0605-20: (Labpack) TX State Code: OUTS0011
21: Drum#0605-21: (Labpack) TX State Code: OUTS001H

chg061115g10

ERG# 154 132 154 151 128 171 153

15: 1 x 5gal poly drum
16: 1 x 5gal poly drum
17: 1 x 5gal poly drum
18: 1 x 5gal poly drum
19: 1 x 30gal fiber drum
20: 1 x 55gal fiber drum
21: 1 x 15gal fiber drum
22:
23:
24:

TRANSPORTER

33. Transporter _____ Acknowledgment of Receipt of Materials
Printed/Typed Name | Signature | Month Day Year

34. Transporter _____ Acknowledgment of Receipt of Materials
Printed/Typed Name | Signature | Month Day Year

FACILITY

35. Discrepancy

DESIGNA

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

H040-01 / H141 for H15-21

EPA Form 8700-22A (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	CAD983585324	3	NSE: (909) 875-9288	007668621 FLE

5. Generator's Name and Mailing Address
Olive View UCLA Medical Center
1100 N. Eastern Ave.,RM225
Los Angeles CA 90063

Generator's Site Address (if different than mailing address) CD Requested
14445 Olive View Drive
Sylmar CA 91342

Generator's Phone: (818) 364-3405 Attn:Frank Colbert-EH&S | Office

6. Transporter 1 Company Name
North State Environmental

U.S. EPA ID Number
CAR000206086

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
NSSI/Sources & Services,Inc.
5711 Etheridge Street
Houston TX 77087

U.S. EPA ID Number

Facility's Phone: (713) 641-0391

TXD982560294

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. UN3122,Waste toxic liquid,oxidizing,n.o.s., (iodine,potassium iodide),6.1,(5.1),II	1	DF	77	P	D001	551	
X	2. RQ,UN2024,Waste mercury compounds,liquid,n.o.s., (formalin,mercuric chloride),6.1,II (D009) "toxic" "Marine Pollutant"	1	DF	27	P	D009	725	
X	3. UN1344,Waste trinitrophenol,wetted,4.1,I	1	DF	12	P	D001	551	
X	4. UN3142,Waste disinfectants,liquid,toxic,n.o.s., (isopropanol,diisobutylphenoxyethoxyethyl dimethyl benzyl ammonium chloride),6.1,II	1	DF	44	P	D001	551	

14. Special Handling Instructions and Additional Information

	ERG#	
1: Drum#0605-1: (Labpack) TX State Code: OUTS001H	154	1: 1 x 30gal fiber drum
2: Drum#0605-2: (Labpack) TX State Code: OUTS001H	151	2: 1 x 15gal fiber drum
3: Drum#0605-3: (Labpack) TX State Code: OUTS001H	113	3: 1 x 5gal poly drum
4: Drum#0605-4: (Labpack) TX State Code: OUTS001H	154	4: 1 x 5gal poly drum

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name | Signature | Month 06 | Day 05 | Year 15

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Leo Cervantes | Signature | Month 06 | Day 05 | Year 15

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) | U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) | Month | Day | Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name | Signature | Month | Day | Year

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

GENERATOR'S INITIAL COPY

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21. Generator ID Number: CAD983585324	22. Page 2 of 3	23. Manifest Tracking Number: 007668621FLE

24. Generator's Name: Olive View UCLA Medical Center

25. Transporter _____ Company Name _____ U.S. EPA ID Number

26. Transporter _____ Company Name _____ U.S. EPA ID Number

GENERATOR

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes		
X	5.UN1791,Waste hypochlorite solution,8,III	1	DF	12	P	D001	551	
X	6.UN3098,Waste oxidizing liquid,corrosive,n.o.s., (ammoniacal silver nitrate),5.1,(8),II	1	DF	8	P	D001	D011	551
X	7.UN1866,Waste resin solution,3,II	1	DF	10	P	D001	551	
X	8.UN1873,Waste perchloric acid,5.1,(8),I	1	DF	10	P	D001	D002	791
X	9.UN3290,Waste toxic solid,corrosive,inorganic, n.o.s.,(gold chloride),6.1,(8),II	1	DF	13	P	D002	791	
X	10.RQ,UN3139,Waste oxidizing liquid,n.o.s., (silver nitrate,sodium chromate),5.1,II (D011)	1	DF	13	P	D001	D007	D011
						551		
X	11.UN3098,Waste oxidizing liquid,corrosive,n.o.s., (phosphotungstic,phosphomolybdic acid),5.1,(8),II	1	DF	10	P	D001	D002	791
X	12.UN3264,Waste corrosive liquids,acidic,inorganic, n.o.s.,(ferric chloride,hydrochloric acid),8,II	1	DF	34	P	D002	791	
X	13.UN1362,Waste carbon,activated,4.2,III DOT-SP13192	1	DF	17	P	D001	551	
X	14.UN3280,Waste organoarsenic compound,liquid, n.o.s.,(aqueous sodium cacodylate,glutaraldehyde), 6.1,II "toxic"	1	DF	12	P	D004	551	

32. Special Handling Instructions and Additional Information

05: Drum#0605-5: (Labpack) TX State Code: OUTS001H
06: Drum#0605-6: (Labpack) TX State Code: OUTS001H
07: Drum#0605-7: (Labpack) TX State Code: OUTS001H
08: Drum#0605-8: (Labpack) TX State Code: OUTS001H
09: Drum#0605-9: (Labpack) TX State Code: OUTS001H
10: Drum#0605-10: (Labpack) TX State Code: OUTS001H
11: Drum#0605-11: (Labpack) TX State Code: OUTS001H
12: Drum#0605-12: (Labpack) TX State Code: OUTS001H
13: Drum#0605-13: (Labpack) TX State Code: OUTS001H
14: Drum#0605-14: (Labpack) TX State Code: OUTS001H

ERG#	
154	
140	
127	
143	
154	
140	
140	
153	
133	
131	

5: 1 x 5gal poly drum
6: 1 x 5gal poly drum
7: 1 x 5gal poly drum
8: 1 x 5gal poly drum
9: 1 x 5gal poly drum
10: 1 x 5gal poly drum
11: 1 x 5gal poly drum
12: 1 x 15gal fiber drum
13: 1 x 5gal poly drum
14: 1 x 5gal poly drum

TRANSPORTER

33. Transporter _____ Acknowledgment of Receipt of Materials

Printed/Typed Name _____ Signature _____ Month Day Year

34. Transporter _____ Acknowledgment of Receipt of Materials

Printed/Typed Name _____ Signature _____ Month Day Year

FACILITY

35. Discrepancy

DESIGN/

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)

21. Generator ID Number: CAD983585324

22. Page: 3 of 3

23. Manifest Tracking Number: 007668621FLE

24. Generator's Name: Olive View UCLA Medical Center

25. Transporter _____ Company Name — U.S. EPA ID Number

26. Transporter _____ Company Name — U.S. EPA ID Number

GENERATOR

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes		
X	15.UN2810,Toxic liquids,organic,n.o.s., (aqueous hydroquinone),6.1,III	1	DF	9	P	551		
X	16.UN2924,Waste flammable liquid,corrosive,n.o.s., (acid alcohol,formic acid),3,(8),II	1	DF	11	P	D001	D002	791
X	17.UN1719,Waste caustic alkali liquids,n.o.s., (sodium hydroxide,sodium carbonate),8,II	1	DF	7	P	D002	551	
X	18.RQ,UN3287,Waste toxic liquid,inorganic,n.o.s., (silver nitrate,barium chloride),6.1,II (D011)	1	DF	15	P	D005	D011	551
X	19.UN1993,Waste flammable liquids,n.o.s., (methanol,ethanol),3,II	1	DF	95	P	D001	U002	F003
						551		
X	20.NA3082,Other regulated substances liquid,n.o.s., (sodium thiosulfate,methenamine borate),9,III	1	DF	136	P	551		
X	21.UN3265,Waste corrosive liquids,acidic,organic, n.o.s.,(oxalic acid,acetic acid),8,II	1	DF	31	P	D002	791	

32. Special Handling Instructions and Additional Information
15: Drum#0605-15: (Labpack) TX State Code: OUTS001I
16: Drum#0605-16: (Labpack) TX State Code: OUTS001H
17: Drum#0605-17: (Labpack) TX State Code: OUTS001H
18: Drum#0605-18: (Labpack) TX State Code: OUTS001H
19: Drum#0605-19: (Labpack) TX State Code: OUTS001H
20: Drum#0605-20: (Labpack) TX State Code: OUTS001I
21: Drum#0605-21: (Labpack) TX State Code: OUTS001H

ERG# 154 132 154 151 128 171 153

15: 1 x 5gal poly drum
16: 1 x 5gal poly drum
17: 1 x 5gal poly drum
18: 1 x 5gal poly drum
19: 1 x 30gal fiber drum
20: 1 x 55gal fiber drum
21: 1 x 15gal fiber drum
22:
23:
24:

TRANSPORTER

33. Transporter _____ Acknowledgment of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

34. Transporter _____ Acknowledgment of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

FACILITY

35. Discrepancy

DESIGN

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: C A D 9 8 3 5 8 5 3 2 4

2. Page 1 of: 1

3. Emergency Response Phone: (909) 875-9288

4. Manifest Tracking Number: 014188931 JK

5. Generator's Name and Mailing Address
Olive View UCLA Medical Center
14445 Olive View Drive
Sylmar CA 91342
Generator's Phone: (818) 364-3405 Attn: Frank Colbert

Generator's Site Address (if different than mailing address) *CD Requested*

6. Transporter 1 Company Name: North State Environmental (650) 588-2838
U.S. EPA ID Number: C A R 0 0 0 2 0 6 0 8 6

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
US Ecology, Inc.
Hwy 95, 11 miles south of
Beatty NV 89003
Facility's Phone: (775) 553-2203
U.S. EPA ID Number: N V T 3 3 0 0 1 0 0 0 0

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN1907, Soda lime, 8, PGIII	4	DF	950	P	181
	2. Non-RCRA hazardous waste solid (lab debris)	2	DF	175	P	352
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1 070127495-903 ; Soda lime cartridges
2 070128300-8053 ; Lab debris-plastic, glassware,paper,cardboard,PPE

ERG# 154 N/A

1: 4x55GFD @ 2x55GFD
3:
4:

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: HAYK SVADIAN
Signature
Month: 05 Day: 28 Year: 15

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S.
Port of entry/exit:
Transporter signature (for exports only):
Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Randy Haynes
Signature
Month: 05 Day: 28 Year: 15

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132	H132		

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Amber Park
Signature: Amber Park
Month: 06 Day: 04 Year: 15

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: C A D 9 8 3 5 8 5 3 2 4

2. Page 1 of: 1

3. Emergency Response Phone: (909) 875-9288

4. Manifest Tracking Number: 01418930 JJK

5. Generator's Name and Mailing Address
Olive View UCLA Medical Center
14445 Olive View Drive
Sylmar CA 91342
Generator's Phone: (818) 364-3405 Attn: Frank Colbert

Generator's Site Address (if different than mailing address)
This is to inform the generator of the waste shipped on this manifest, that NSSI has the appropriate permits for, and will accept, the waste the generator is shipping. CD Requested

6. Transporter 1 Company Name: North State Environmental (650) 588-2838
U.S. EPA ID Number: C A R 0 0 0 2 0 6 0 8 6

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
NSSI/Sources & Services, Inc.
5711 Etheridge Street
Houston TX 77087
Facility's Phone: (713) 641-0391
U.S. EPA ID Number: T X D 9 8 2 5 6 0 2 9 4

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. NA3082, Other regulated substances, liquid, n.o.s., (phosphate buffered formalin), 9, PGIII	13 4	DF	660 ~~665~~	G	134
X	2. NA3082, Other regulated substances liquid, n.o.s., (DAB Waste), 9, PGIII	3	DF	165	G	134
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1 ehg020513g2 ; ehg020513g2, TX State Code: OUTS001H
2 ehg013013g7-BD1 ; EHG013013g7-BD1, TX State Code: OUTS001H

ERG#
171
171

1: 11 X 55 GPD
2:
3: 3 X 55 GPD
4:

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: HAYK SVAJIAN
Signature:
Month: 05 Day: 28 Year: 15

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: RANDY HAYNES
Signature:
Month: 05 Day: 28 Year: 15

Transporter 2 Printed/Typed Name
Signature
Month Day Year

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H040-07	H141 for	H132	

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: A. FOSTER
Signature:
Month: 6 Day: 5 Year: 15

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
C A D 9 8 3 5 8 5 3 2 4	1	(909) 875-9288	014188930 JJK

GENERATOR

5. Generator's Name and Mailing Address
Olive View UCLA Medical Center
14445 Olive View Drive
Sylmar CA 91342
Generator's Phone: (818) 364-3405 Attn: Frank Colbert

Generator's Site Address (if different than mailing address) *CD Requested*

6. Transporter 1 Company Name
North State Environmental (650) 588-2838
U.S. EPA ID Number: C A R 0 0 0 2 0 6 0 8 6

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
NSSI/Sources & Services, Inc.
5711 Etheridge Street
Houston TX 77087
Facility's Phone: (713) 641-0391
U.S. EPA ID Number: T X D 9 8 2 5 6 0 2 9 4

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. NA3082, Other regulated substances, liquid, n.o.s., (phosphate buffered formalin), 9, PGIII	12 4	DF	660 ~~665~~	G	134
X	2. NA3082, Other regulated substances liquid, n.o.s., (DAB Waste), 9, PGIII	3	DF	165	G	134
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1 ehg020513g2 ; ehg020513g2, TX State Code: OUTS001H
2 ehg013013g7-BD1 ; EHG013013g7-BD1, TX State Code: OUTS001H

ERG# 171 171

1: 11 x 55 GPD
2: 3 x 55 GPD
3:
4:

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: HAYK SVADJIAN Signature: [signature] Month: 05 Day: 28 Year: 15

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: RANDY HAYNES Signature: [signature] Month: 05 Day: 28 Year: 15

Transporter 2 Printed/Typed Name: Signature: Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1. H040-07 2. H141 for H 1, 82 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: A. FOSTON Signature: [signature] Month: 6 Day: 5 Year: 15

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
CAD983585324	1	(909) 875-9288	014188929 JJK

GENERATOR

5. Generator's Name and Mailing Address
Olive View UCLA Medical Center
14445 Olive View Drive
Sylmar CA 91342
Generator's Phone: (818) 364-3405 Attn: Frank Colbert

Generator's Site Address (if different than mailing address)
CD Requested

6. Transporter 1 Company Name: North State Environmental (650)588-2838
U.S. EPA ID Number: CAR000206086

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Pacific Resource Recovery
3150 East Pico Boulevard
Los Angeles CA 90023
Facility's Phone: (800) 499-7145
U.S. EPA ID Number: CAD008252405

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ,UN1993,Waste flammable liquids,n.o.s., (methanol,hexane),3,II (D001,F003)	28 ~~26~~ 27	DF ~~DM~~	1540 ~~1595~~ 1515	G	D001 F003 212
X	2. UN1325,Waste flammable solids,organic,n.o.s., (cardboard filters with carbon),4.1,III	2	DF DM	200	P	D001 352
X	3. RQ,UN3175,Waste solids containing flammable liquids ,n.o.s.,(paraffin wax with xylene,petroleum distillates),4.1,II (D001)	7 6	DM	2300	P	D001 F003 331 331
	4.					

14. Special Handling Instructions and Additional Information
1 13070179 ; Profile#13070179: Solvent with methanol,alcohol,hexane
2 10020023 ; Carbon filler cardborad filters (bulk)
3 14010076 ; Profile#14010076: Paraffin wax with xlyene,petroleum distillates

ERG# 128 133 133
1: 24x55 GPD
2: 2x55GPD
3: 6x55 GPD
4:

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: MAYK SVADIAN Signature: [signature] Month 05 Day 28 Year 15

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: RANDY HAYNES Signature: Randy Haynes Month 05 Day 28 Year 15
Transporter 2 Printed/Typed Name: Signature: Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H061 2. H141 3. H141 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Alma Vacio Signature: [signature] Month 5 Day 29 Year 15

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: CAL000163403
2. Page 1 of: 1
3. Emergency Response Phone: NSE: (909) 875-9200
4. Manifest Tracking Number: 007668381 FLE

5. Generator's Name and Mailing Address
Olive View Power Plant
1100 N. Eastern Ave RM119
Los Angeles CA 90063
Generator's Phone: (323) 793-3260Attn:Harry Parra

Generator's Site Address (if different than mailing address)
CD Requested
14445 Olive View Drive
Sylmar CA 91342

6. Transporter 1 Company Name: North State Environmental
U.S. EPA ID Number: CAR000206086

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
US Ecology, Inc.
Hwy 95, 11 miles south of
Beatty NV 89003
Facility's Phone: (775) 553-2203
U.S. EPA ID Number: NVT330010000

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. Non-RCRA hazardous waste solid (oily rags,oily debris)	1 0	DM	10	P	352
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1: Profile#070128300-9088: Oily rags,oily towels,oily carboard,oily,debris
ERG# N/A
1: 1255 OTS
2:
3:
4:

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Hank Teen
Signature:
Month 03 Day 18 Year 15

INT'L
16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER
17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: David Spero
Signature:
Month 03 Day 18 Year 15
Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY
18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Hanna Thompson
Signature:
Month 3 Day 26 Year 15

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
CAD983585324	1	NSE: (909) 875-9288	007668379 FLE

GENERATOR

5. Generator's Name and Mailing Address
Olive View UCLA Medical Center
1100 N. Eastern Ave.,RM225
Los Angeles CA 90063

Generator's Site Address (if different than mailing address) **CD Requested**
14445 Olive View Drive
Sylmar CA 91342

Generator's Phone: (818) 364-3405 Attn:Frank Colbert-EH&S | Office

6. Transporter 1 Company Name: North State Environmental — U.S. EPA ID Number: CAR000206086

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
SET Environmental, Inc.
5743 Cheswood
Houston TX 77087

U.S. EPA ID Number: TXD055135388

Facility's Phone: (713) 645-8710

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN1080, Sulfur hexafluoride, 2.2	3	CY	9	P	141
X	2. UN3163, Liquefied gas, n.o.s., (perfluoropropane), 2.2	2	CY	5	P	741
X	3. UN1956, Compressed gas, n.o.s., (ethanol (103ppm) in nitrogen), 2.2	1	CY	5	P	331
	4.					

14. Special Handling Instructions and Additional Information
1: Drum#0318-1A-->1C: (Cylinder) TX State Code: OUTS7011
2: Drum#0318-2A,2B: (Cylinder) TX State Code: OUTS8011
3: Drum#0318-3: (Cylinder) TX State Code: OUTS8011
112504

ERG#
126
126
126

1: 3 x lecture cylinder (5gpd)
2: 2 x lecture cylinder (5gpd)
3: 1 x small cylinder (5gpd)
4:

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: MARK SUMIAN — Signature: [signature] — Month 03 Day 18 Year 15

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: David Spero — Signature: [signature] — Month 03 Day 18 Year 15

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H100	H100	H061	

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Andrea Coleman — Signature: [signature] — Month 03 Day 27 Year 15

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: C A D 9 8 3 5 8 5 3 2 4

2. Page 1 of: 1

3. Emergency Response Phone: NSE: (909) 875-9288

4. Manifest Tracking Number: 007668376 FLE

5. Generator's Name and Mailing Address
Olive View UCLA Medical Center
1100 N. Eastern Ave.,RM225
Los Angeles CA 90063

Generator's Site Address (if different than mailing address)
CD Requested
14445 Olive View Drive
Sylmar CA 91342

Generator's Phone: (818) 364-3405 Attn:Frank Colbert-EH&S Office

6. Transporter 1 Company Name: North State Environmental
U.S. EPA ID Number: C A R 0 0 0 2 0 6 0 8 6

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
US Ecology, Inc.
Hwy 95, 11 miles south of
Beatty NV 89003
U.S. EPA ID Number: N V T 3 3 0 0 1 0 0 0 0

Facility's Phone: (775) 553-2203

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN1907,Soda lime,8,III	3	DF	300	P	181
	2. Non-RCRA hazardous waste solid (lab debris)	1	DF	60	P	352
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1: Profile#070127495-903:Used carbon dioxide absorbent w/ soda lime in plastic cartridge
2: Profile#070128300-9087: Lab debris with broken glass,rags,absorbent,gloves

ERG# 154 N/A

1: 3 x 55gal poly drum
2: 1 x 55gal fiber drum
3:
4:

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: MARK SAMAN
Signature:
Month 03 Day 18 Year 15

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: David Spero
Signature:
Month 03 Day 18 Year 15
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:
18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. H132 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: [illegible]
Signature:
Month 3 Day 26 Year 15

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
C A D 9 8 3 5 8 5 3 2 4	1	NSE: (909) 875-9288	007668375 FLE

5. Generator's Name and Mailing Address
Olive View UCLA Medical Center
1100 N. Eastern Ave.,RM225
Los Angeles CA 90063

Generator's Site Address (if different than mailing address)
CD Requested
14445 Olive View Drive
Sylmar CA 91342

Generator's Phone: (818) 364-3405 Attn:Frank Colbert-EH&S | Office

6. Transporter 1 Company Name
North State Environmental

U.S. EPA ID Number
C A R 0 0 0 2 0 6 0 8 6

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
Pacific Resource Recovery
3150 East Pico Boulevard
Los Angeles CA 90023

Facility's Phone: (800) 499-7145

U.S. EPA ID Number
C A D 0 0 8 2 5 2 4 0 5

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ,UN1993,Waste flammable liquids,n.o.s., (xylene,alcohol),3,II (D001,F003)	15	DF	900	G	D001	F003	212
X	2. UN1950,Waste aerosols,2.1	1	DF	12	P	D001	331	
X	3. RQ,UN1325,Waste flammable solids,organic,n.o.s., (paraffin wax with xylene,alcohol),4.1,II (D001,F003)	5	DF	481	P	D001	F003	331
X	4. RQ,UN1325,Waste flammable solids,organic,n.o.s., (carbon filters),4.1,II (D001)	2	DF	163	P	D001	331	

14. Special Handling Instructions and Additional Information

	ERG#	
1: Profile#13070179: Oils,pet dist,alcohols,xylenes,glycols,water,stains	128	1: 15 x 55gal poly drum
2: Profile#~~260917~~1: Flammable aerosols with hydrocarbon solvents/propellants 26090171	126	2: 1 x 5gal poly drum
3: Profile#14010076: Used paraffin wax with alcohol,xylene	133	3: 5 x 55gal fiber drum
4: Profile#10020023: Used carbon filters/carbon	133	4: 2 x 55gal fiber drum

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: MARK SWANN | Signature | Month 03 | Day 18 | Year 15

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: David Spero | Signature | Month 03 | Day 18 | Year 15

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) | U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) | Month | Day | Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H061	H141	H141	H141

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Romin Escobar | Signature | Month 3 | Day 24 | Year 15

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
CAD983585324	1	NSE: (909)875-9288	007668378 FLE

GENERATOR

5. Generator's Name and Mailing Address
Olive View UCLA Medical Center
1100 N. Eastern Ave.,RM225
Los Angeles CA 90063
Generator's Phone: (818)364-3405 Attn:Frank Colbert-EH&S Office

Generator's Site Address (if different than mailing address)
CD Requested
14445 Olive View Drive
Sylmar CA 91342

6. Transporter 1 Company Name
North State Environmental
U.S. EPA ID Number
CAR000206086

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Veolia ES Technical Solutions, L.L.C.
5736 West Jefferson Street
Phoenix AZ 85043
Facility's Phone: (602)233-2955
U.S. EPA ID Number
AZ0000337360

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ,UN3082,Waste environmentally hazardous substance liquids,n.o.s.,(mercury thermometers),9,III (D009) "Marine Pollutant"	1	DF	5	P	D009	725	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1: Drum#0318-1: Broken thermometers,lamps
ERG# 172
1: 1 x 5gal poly drum
2:
3:
4:

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: MARK SUKSIAN
Signature:
Month 03 Day 18 Year 15

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: David Spero
Signature:
Month 03 Day 18 Year 15

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H040			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: John M. Genta
Signature:
Month 03 Day 25 Year 15

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
CAD983585324	3	NSE: (909) 875-9288	007668377 FLE

GENERATOR

5. Generator's Name and Mailing Address
Olive View UCLA Medical Center
1100 N. Eastern Ave., RM225
Los Angeles CA 90063
Generator's Phone: (818) 364-3405 Attn: Frank Colbert-EH&S Office

Generator's Site Address (if different than mailing address)
14445 Olive View Drive
Sylmar CA 91342

CD Requested

This is to inform the generator of the waste shipped on this manifest, that NSSI has the appropriate permits for, and will accept, the waste the generator is shipping.

6. Transporter 1 Company Name
North State Environmental
U.S. EPA ID Number
CAR000206086

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
NSSI/Sources & Services, Inc.
5711 Etheridge Street
Houston TX 77087
Facility's Phone: (713) 641-0391
U.S. EPA ID Number
TXD982560294

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. UN2924, Waste flammable liquid, corrosive, n.o.s., (formic acid, methanol), 3, (8), II	1	DF	96	P	D001	D002	791
X	2. UN2924, Waste flammable liquid, corrosive, n.o.s., (isopropanol, sodium hydroxide), 3, (8), II	1	DF	49	P	D001	D002	551
X	3. UN1719, Waste caustic alkali liquids, n.o.s., (ammonium hydroxide, sodium hydroxide), 8, II	1	DF	13	P	D002	551	
X	4. UN2811, Toxic solid, organic, n.o.s., (aqueous hydroquinone), 6.1, III	1	DF	10	P	551		

14. Special Handling Instructions and Additional Information

	ERG#	
1: Drum#0317-1: (Labpack) TX State Code: OUTS001H	132	1: 1 x 15gal fiber drum
2: Drum#0317-2: (Labpack) TX State Code: OUTS001H	132	2: 1 x 15gal fiber drum
3: Drum#0317-3: (Labpack) TX State Code: OUTS001H	153	3: 1 x 5gal poly drum
4: Drum#0317-4: (Labpack) TX State Code: OUTS0011	154	4: 1 x 5gal poly drum

ehs0323359 5

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: MARK SARJAN
Signature:
Month: 03 Day: 18 Year: 15

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: David Spero
Signature:
Month: 03 Day: 18 Year: 15

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H040-07	H141 for T	1-4	

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Kenneth Foston
Signature:
Month: 3 Day: 27 Year: 15

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: CAD983585324
2. Page 1 of: 3
3. Emergency Response Phone: NSE: (909) 875-9288
4. Manifest Tracking Number: 007668377 FLE

5. Generator's Name and Mailing Address
Olive View UCLA Medical Center
1100 N. Eastern Ave.,RM225
Los Angeles CA 90063
Generator's Phone: (818) 364-3405 Attn:Frank Colbert-EH&S Office

Generator's Site Address (if different than mailing address)
CD Requested
14445 Olive View Drive
Sylmar CA 91342

6. Transporter 1 Company Name: North State Environmental
U.S. EPA ID Number: CAR000206086

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
NSSI/Sources & Services,Inc.
5711 Etheridge Street
Houston TX 77087
Facility's Phone: (713) 641-0391
U.S. EPA ID Number: TXD982560294

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. UN2924,Waste flammable liquid,corrosive,n.o.s., (formic acid,methanol),3,(8),II	1	DF	96	P	D001	D002	791
X	2. UN2924,Waste flammable liquid,corrosive,n.o.s., (isopropanol,sodium hydroxide),3,(8),II	1	DF	49	P	D001	D002	551
X	3. UN1719,Waste caustic alkali liquids,n.o.s., (ammonium hydroxide,sodium hydroxide),8,II	1	DF	13	P	D002	551	
X	4. UN2811,Toxic solid,organic,n.o.s., (aqueous hydroquinone),6.1,III	1	DF	10	P	551		

14. Special Handling Instructions and Additional Information
1: Drum#0317-1: (Labpack) TX State Code: OUTS001H
2: Drum#0317-2: (Labpack) TX State Code: OUTS001H
3: Drum#0317-3: (Labpack) TX State Code: OUTS001H
4: Drum#0317-4: (Labpack) TX State Code: OUTS0011
ehs0323155

ERG#
132
132
153
154

1: 1 x 15gal fiber drum
2: 1 x 15gal fiber drum
3: 1 x 5gal poly drum
4: 1 x 5gal poly drum

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: MARK SVAJIAN
Signature:
Month 03 Day 18 Year 15

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: David Spero
Signature:
Month 03 Day 18 Year 15

Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H040-07 2. H141 for 1-4 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Kenneth Foston
Signature:
Month 3 Day 27 Year 15

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21. Generator ID Number	22. Page	23. Manifest Tracking Number
	CAD983585324	2 of 3	007668377FLE

24. Generator's Name
Olive View UCLA Medical Center

This is to inform the generator of the waste shipped on this manifest, that NSSI has the appropriate permits for, and will accept, the waste the generator is shipping.

25. Transporter _____ Company Name — U.S. EPA ID Number

26. Transporter _____ Company Name — U.S. EPA ID Number

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes		
X	5.UN3280,Waste organoarsenic compounds,liquid, n.o.s.,(aqueous sodium cacodylate,glutaraldehyde), 6.1,II "toxic"	1	DF	10	P	D004	721	
X	6.UN1344,Trinitrophenol,wetted,4.1,I	1	DF	9	P	551		
X	7.UN1873,Waste perchloric acid,5.1,(8),I	1	DF	9	P	D001	D002	791
X	8.UN3098,Waste oxidizing liquids,corrosive,n.o.s., (aqueous periodic acid),5.1,(8),II	1	DF	10	P	D001	D002	791
X	9.UN3265,Waste corrosive liquids,acidic,organic, n.o.s.,(acetic acid,ammonium aluminum sulfate),8,II	1	DF	10	P	D002	791	
X	10.UN1755,Waste chromic acid solution,8,II	1	DF	10	P	D001	D007	791
X	11.UN2024,Waste mercury compounds,liquid,n.o.s., (aqueous thimerosal,poly-l-lysine),6.1,II "Marine Pollutant"	1	DF	10	P	D009	725	
X	12.UN3261,Corrosive solids,acidic,organic,n.o.s., (citric acid),8,III	1	DF	9	P	551		
X	13.UN3122,Waste toxic liquid,oxidizing,n.o.s., (iodine),6.1,(5.1),II	1	DF	10	P	D001	551	
X	14.RQ,UN3139,Waste oxidizing liquid,n.o.s., (silver nitrate,sodium chromate),5.1,II (D011)	1	DF	10	P	D001	D007	D011
						551		

32. Special Handling Instructions and Additional Information

05: Drum#0317-5: (Labpack) TX State Code: OUTS001H
06: Drum#0317-6: (Labpack) TX State Code: OUTS001H
07: Drum#0317-7: (Labpack) TX State Code: OUTS001H
08: Drum#0317-8: (Labpack) TX State Code: OUTS001H
09: Drum#0317-9: (Labpack) TX State Code: OUTS001H
10: Drum#0317-10: (Labpack) TX State Code: OUTS001H
11: Drum#0317-11: (Labpack) TX State Code: OUTS001H
12: Drum#0317-12: (Labpack) TX State Code: OUTS001H
13: Drum#0317-13: (Labpack) TX State Code: OUTS001H
14: Drum#0317-14: (Labpack) TX State Code: OUTS001H

ERG# 141 113 143 140 153 140 151 154 154 140

5: 1 x 5gal poly drum
6: 1 x 5gal poly drum
7: 1 x 5gal poly drum
8: 1 x 5gal poly drum
9: 1 x 5gal poly drum
10: 1 x 5gal poly drum
11: 1 x 5gal poly drum
12: 1 x 5gal poly drum
13: 1 x 5gal poly drum
14: 1 x 5gal poly drum

ohs032315

33. Transporter _____ Acknowledgment of Receipt of Materials

Printed/Typed Name: MARK SVAJIAN — Signature — Month — Day — Year

34. Transporter _____ Acknowledgment of Receipt of Materials

Printed/Typed Name — Signature — Month — Day — Year

35. Discrepancy

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

H040-01 / H141 for #5-14

GENERATOR / TRANSPORTER / FACILITY / DESIGN

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)

21. Generator ID Number	22. Page	23. Manifest Tracking Number
CAD983585324	2 of 3	007668377FLE

24. Generator's Name: Olive View UCLA Medical Center

25. Transporter _____ Company Name | U.S. EPA ID Number

26. Transporter _____ Company Name | U.S. EPA ID Number

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes
X	5.UN3280,Waste organoarsenic compounds,liquid, n.o.s.,(aqueous sodium cacodylate,glutaraldehyde), 6.1,II "toxic"	1	DF	10	P	D004 721
X	6.UN1344,Trinitrophenol,wetted,4.1,I	1	DF	9	P	551
X	7.UN1873,Waste perchloric acid,5.1,(8),I	1	DF	9	P	D001 D002 791
X	8.UN3098,Waste oxidizing liquids,corrosive,n.o.s., (aqueous periodic acid),5.1,(8),II	1	DF	10	P	D001 D002 791
X	9.UN3265,Waste corrosive liquids,acidic,organic, n.o.s.,(acetic acid,ammonium aluminum sulfate),8,II	1	DF	10	P	D002 791
X	10.UN1755,Waste chromic acid solution,8,II	1	DF	10	P	D001 D007 791
X	11.UN2024,Waste mercury compounds,liquid,n.o.s., (aqueous thimerosal,poly-l-lysine),6.1,II "Marine Pollutant"	1	DF	10	P	D009 725
X	12.UN3261,Corrosive solids,acidic,organic,n.o.s., (citric acid),8,III	1	DF	9	P	551
X	13.UN3122,Waste toxic liquid,oxidizing,n.o.s., (iodine),6.1,(5.1),II	1	DF	10	P	D001 551
X	14.RQ,UN3139,Waste oxidizing liquid,n.o.s., (silver nitrate,sodium chromate),5.1,II (D011)	1	DF	10	P	D001 D007 D011 551

32. Special Handling Instructions and Additional Information

05: Drum#0317-5: (Labpack) TX State Code: OUTS001H
06: Drum#0317-6: (Labpack) TX State Code: OUTS001I
07: Drum#0317-7: (Labpack) TX State Code: OUTS001H
08: Drum#0317-8: (Labpack) TX State Code: OUTS001H
09: Drum#0317-9: (Labpack) TX State Code: OUTS001H
10: Drum#0317-10: (Labpack) TX State Code: OUTS001H
11: Drum#0317-11: (Labpack) TX State Code: OUTS001H
12: Drum#0317-12: (Labpack) TX State Code: OUTS001I
13: Drum#0317-13: (Labpack) TX State Code: OUTS001H
14: Drum#0317-14: (Labpack) TX State Code: OUTS001H

ERG# 141 113 143 140 153 140 151 154 154 140

5: 1 x 5gal poly drum
6: 1 x 5gal poly drum
7: 1 x 5gal poly drum
8: 1 x 5gal poly drum
9: 1 x 5gal poly drum
10: 1 x 5gal poly drum
11: 1 x 5gal poly drum
12: 1 x 5gal poly drum
13: 1 x 5gal poly drum
14: 1 x 5gal poly drum

Chs032315

TRANSPORTER

33. Transporter _____ Acknowledgment of Receipt of Materials

Printed/Typed Name: MARK SVAJIAN | Signature | Month | Day | Year

34. Transporter _____ Acknowledgment of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

FACILITY

35. Discrepancy

DESIGN

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

H040-01 / H141 for 4 5-14

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)

21. Generator ID Number: CAD983585324

22. Page: 3 of 3

23. Manifest Tracking Number: 007668377FLE

24. Generator's Name: **Olive View UCLA Medical Center**

This is to inform the generator of the waste shipped on this manifest, that NSSI has the appropriate permits for, and will accept, the waste the generator is shipping.

25. Transporter _____ Company Name _____ U.S. EPA ID Number

26. Transporter _____ Company Name _____ U.S. EPA ID Number

GENERATOR

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes		
X	15.UN2984,Waste hydrogen peroxide,aqueous solution, 5.1,III	1	DF	9	P	D001	551	
X	16.UN3098,Waste oxidizing liquids,corrosive,n.o.s., (silver nitrate,ammonium hydroxide),5.1,(8),II	1	DF	9	P	D001	D002	551
X	17.UN3264,Waste corrosive liquids,acidic,inorganic, n.o.s.,(hydrochloric acid,ferric ammonium sulfate), 8,II	1	DF	3	P	D002	791	
X	18.UN3289,Waste toxic liquid,corrosive,inorganic, n.o.s.,(gold chloride),6.1,(8),II	1	DF	9	P	D002	792	
X	19.UN3264,Waste corrosive liquids,acidic,inorganic, n.o.s.,(sodium bisulfite),8,III	1	DF	11	P	D002	D003	791
X	20.UN1866,Waste resin solution,3,II	1	DF	9	P	D001	551	
X	21.NA3077,Other regulated substances,solid,n.o.s., (aqueous phosphate buffered formalin),9,III	7	DF	350	G	134		

32. Special Handling Instructions and Additional Information

15: Drum#0317-15: (Labpack) TX State Code: OUTS001H
16: Drum#0317-16: (Labpack) TX State Code: OUTS001H
17: Drum#0317-17: (Labpack) TX State Code: OUTS001H
18: Drum#0317-18: (Labpack) TX State Code: OUTS001H
19: Drum#0317-19: (Labpack) TX State Code: OUTS001H
20: Drum#0317-20: (Labpack) TX State Code: OUTS001H
21: Drum#0317-21A->21G: (Bulk) TX State Code: OUTS1011

chg 03/23/15

ERG# 140 140 154 154 154 127 171

15: 1 x 5gal poly drum
16: 1 x 5gal poly drum
17: 1 x 5gal poly drum 15
18: 1 x 5gal poly drum
19: 1 x 5gal poly drum
20: 1 x 5gal poly drum
21: 7 x 55gal poly drum
22:
23:
24:

TRANSPORTER

33. Transporter _____ Acknowledgment of Receipt of Materials

Printed/Typed Name: HAYK SIAJAN | Signature | Month | Day | Year

34. Transporter _____ Acknowledgment of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

FACILITY

35. Discrepancy

DESIGN

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

H040-07 / H141 for 11-15-21

EPA Form 8700-22A (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21. Generator ID Number	22. Page	23. Manifest Tracking Number
	CAD983585324	3 of 3	007668377FLE

24. Generator's Name: Olive View UCLA Medical Center

25. Transporter _____ Company Name | U.S. EPA ID Number

26. Transporter _____ Company Name | U.S. EPA ID Number

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes		
X	15.UN2984,Waste hydrogen peroxide,aqueous solution, 5.1,III	1	DF	9	P	D001	551	
X	16.UN3098,Waste oxidizing liquids,corrosive,n.o.s., (silver nitrate,ammonium hydroxide),5.1,(8),II	1	DF	9	P	D001	D002	551
X	17.UN3264,Waste corrosive liquids,acidic,inorganic, n.o.s.,(hydrochloric acid,ferric ammonium sulfate), 8,II	1	DF	3½	P	D002	791	
X	18.UN3289,Waste toxic liquid,corrosive,inorganic, n.o.s.,(gold chloride),6.1,(8),II	1	DF	9	P	D002	792	
X	19.UN3264,Waste corrosive liquids,acidic,inorganic, n.o.s.,(sodium bisulfite),8,III	1	DF	11	P	D002	D003	791
X	20.UN1866,Waste resin solution,3,II	1	DF	9	P	D001	551	
X	21.NA3077,Other regulated substances,solid,n.o.s., (aqueous phosphate buffered formalin),9,III	7	DF	350	G	134		

GENERATOR

32. Special Handling Instructions and Additional Information

15: Drum#0317-15: (Labpack) TX State Code: OUTS001H
16: Drum#0317-16: (Labpack) TX State Code: OUTS001H
17: Drum#0317-17: (Labpack) TX State Code: OUTS001H
18: Drum#0317-18: (Labpack) TX State Code: OUTS001H
19: Drum#0317-19: (Labpack) TX State Code: OUTS001H
20: Drum#0317-20: (Labpack) TX State Code: OUTS001H
21: Drum#0317-21A—>21G: (Bulk) TX State Code: OUTS1011

dlg 032315'15

ERG# 140 140 154 154 154 127 171

15: 1 x 5gal poly drum
16: 1 x 5gal poly drum
17: 1 x 5gal poly drum 15
18: 1 x 5gal poly drum
19: 1 x 5gal poly drum
20: 1 x 5gal poly drum
21: 7 x 55gal poly drum
22:
23:
24:

TRANSPORTER

33. Transporter _____ Acknowledgment of Receipt of Materials

Printed/Typed Name: HAYK SIADIAN | Signature | Month | Day | Year

34. Transporter _____ Acknowledgment of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

FACILITY

35. Discrepancy

DESIGN

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

H040-01 / H141 for #15-21

EPA Form 8700-22A (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: C A D 9 8 3 5 8 5 3 2 4

2. Page 1 of: 1

3. Emergency Response Phone: NSE: (909) 875-9288

4. Manifest Tracking Number: 007668379 FLE

5. Generator's Name and Mailing Address
Olive View UCLA Medical Center
1100 N. Eastern Ave.,RM225
Los Angeles CA 90063

Generator's Site Address (if different than mailing address): CD Requested
14445 Olive View Drive
Sylmar CA 91342

Generator's Phone: (818) 364-3405 Attn:Frank Colbert-EH&S | Office

6. Transporter 1 Company Name: North State Environmental
U.S. EPA ID Number: C A R 0 0 0 2 0 6 0 8 6

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
SET Environmental, Inc.
5743 Cheswood
Houston TX 77087
U.S. EPA ID Number: T X D 0 5 5 1 3 5 3 8 8

Facility's Phone: (713) 645-8710

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN1080,Sulfur hexafluoride,2.2	3	CY	8	P	141
X	2. UN3163,Liquefied gas,n.o.s.,(perfluoropropane),2.2	2	CY	5	P	741
X	3. UN1956,Compressed gas,n.o.s., (ethanol (103ppm) in nitrogen),2.2	1	CY	5	P	331
	4.					

14. Special Handling Instructions and Additional Information
1: Drum#0318-1A-->1C: (Cylinder) TX State Code: OUTS7011
2: Drum#0318-2A,2B: (Cylinder) TX State Code: OUTS8011
3: Drum#0318-3: (Cylinder) TX State Code: OUTS8011

ERG#
126
126
126

1: 3 x lecture cylinder (5gpd)
2: 2 x lecture cylinder (5gpd)
3: 1 x small cylinder (5gpd)
4:

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: [illegible]
Signature:
Month 03 Day 18 Year 15

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: David Spero
Signature:
Month 03 Day 18 Year 15

Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number:

Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name:
Signature:
Month Day Year

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

GENERATOR'S INITIAL COPY

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
C A D 9 8 3 5 8 5 3 2 4	1	NSE: (909) 875-9288	007668378 FLE

GENERATOR

5. Generator's Name and Mailing Address
Olive View UCLA Medical Center
1100 N. Eastern Ave.,RM225
Los Angeles CA 90063

Generator's Site Address (if different than mailing address)
CD Requested
14445 Olive View Drive
Sylmar CA 91342

Generator's Phone: (818) 364-3405 Attn:Frank Colbert-EH&S Office

6. Transporter 1 Company Name
North State Environmental
U.S. EPA ID Number
C A R 0 0 0 2 0 6 0 8 6

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Veolia ES Technical Solutions, L.L.C.
5736 West Jefferson Street
Phoenix AZ 85043
U.S. EPA ID Number
A Z 0 0 0 0 3 3 7 3 6 0

Facility's Phone: (602) 233-2955

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ,UN3082,Waste environmentally hazardous substance liquids,n.o.s.,(mercury thermometers),9,III (D009) "Marine Pollutant"	1	DF	5	P	D009	725	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1: Drum#0318-1: Broken thermometers,lamps
ERG# 172
1: 1 x 5gal poly drum
2:
3:
4:

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name [illegible] Signature [signature] Month 03 Day 18 Year 15

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name David Spero Signature [signature] Month 03 Day 18 Year 15

Transporter 2 Printed/Typed Name Signature Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name Signature Month Day Year

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

GENERATOR'S INITIAL COPY

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21. Generator ID Number	22. Page	23. Manifest Tracking Number
	CAD983585324	3 of 3	007668377FLE

24. Generator's Name: **Olive View UCLA Medical Center**

25. Transporter _____ Company Name — U.S. EPA ID Number

26. Transporter _____ Company Name — U.S. EPA ID Number

GENERATOR

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes		
X	15.UN2984,Waste hydrogen peroxide,aqueous solution, 5.1,III	1	DF	7	P	D001	551	
X	16.UN3098,Waste oxidizing liquids,corrosive,n.o.s., (silver nitrate,ammonium hydroxide),5.1,(8),II	1	DF	2	P	D001	D002	551
X	17.UN3264,Waste corrosive liquids,acidic,inorganic, n.o.s.,(hydrochloric acid,ferric ammonium sulfate), 8,II	1	DF	10	P	D002	791	
X	18.UN3289,Waste toxic liquid,corrosive,inorganic, n.o.s.,(gold chloride),6.1,(8),II	1	DF	2	P	D002	792	
X	19.UN3264,Waste corrosive liquids,acidic,inorganic, n.o.s.,(sodium bisulfite),8,III	1	DF	11	P	D002	D003	791
X	20.UN1866,Waste resin solution,3,II	1	DF	2	P	D001	551	
X	21.NA3077,Other regulated substances,solid,n.o.s., (aqueous phosphate buffered formalin),9,III	7	DF	350	G	134		

32. Special Handling Instructions and Additional Information

15: Drum#0317-15: (Labpack) TX State Code: OUTS001H
16: Drum#0317-16: (Labpack) TX State Code: OUTS001H
17: Drum#0317-17: (Labpack) TX State Code: OUTS001H
18: Drum#0317-18: (Labpack) TX State Code: OUTS001H
19: Drum#0317-19: (Labpack) TX State Code: OUTS001H
20: Drum#0317-20: (Labpack) TX State Code: OUTS001H
21: Drum#0317-21A-->21G: (Bulk) TX State Code: OUTS1011

ERG#
140
140
154
154
154
127
171

15: 1 x 5gal poly drum
16: 1 x 5gal poly drum
17: 1 x 5gal poly drum
18: 1 x 5gal poly drum
19: 1 x 5gal poly drum
20: 1 x 5gal poly drum
21: 7 x 55gal poly drum
22:
23:
24:

TRANSPORTER

33. Transporter _____ Acknowledgment of Receipt of Materials

Printed/Typed Name — Signature — Month — Day — Year

34. Transporter _____ Acknowledgment of Receipt of Materials

Printed/Typed Name — Signature — Month — Day — Year

FACILITY

35. Discrepancy

DESIGN

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21. Generator ID Number	22. Page	23. Manifest Tracking Number
	CAD983585324	2 of 3	007668377FLE

24. Generator's Name: Olive View UCLA Medical Center

25. Transporter _____ Company Name — U.S. EPA ID Number

26. Transporter _____ Company Name — U.S. EPA ID Number

GENERATOR

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes		
X	5.UN3280,Waste organoarsenic compounds,liquid, n.o.s.,(aqueous sodium cacodylate,glutaraldehyde), 6.1,II "toxic"	1	DF	A	P	D004	721	
X	6.UN1344,Trinitrophenol,wetted,4.1,I	1	DF	7	P	551		
X	7.UN1873,Waste perchloric acid,5.1,(8),I	1	DF	7	P	D001	D002	791
X	8.UN3098,Waste oxidizing liquids,corrosive,n.o.s., (aqueous periodic acid),5.1,(8),II	1	DF	10	P	D001	D002	791
X	9.UN3265,Waste corrosive liquids,acidic,organic, n.o.s.,(acetic acid,ammonium aluminum sulfate),8,II	1	DF	A	P	D002	791	
X	10.UN1755,Waste chromic acid solution,8,II	1	DF	10	P	D001	D007	791
X	11.UN2024,Waste mercury compounds,liquid,n.o.s., (aqueous thimerosal,poly-l-lysine),6.1,II "Marine Pollutant"	1	DF	10	P	D009	725	
X	12.UN3261,Corrosive solids,acidic,organic,n.o.s., (citric acid),8,III	1	DF	7	P	551		
X	13.UN3122,Waste toxic liquid,oxidizing,n.o.s., (iodine),6.1,(5.1),II	1	DF	10	P	D001	551	
X	14.RQ,UN3139,Waste oxidizing liquid,n.o.s., (silver nitrate,sodium chromate),5.1,II (D011)	1	DF	10	P	D001	D007	D011
						551		

32. Special Handling Instructions and Additional Information

	ERG#
05: Drum#0317-5: (Labpack) TX State Code: OUTS001H	141
06: Drum#0317-6: (Labpack) TX State Code: OUTS0011	113
07: Drum#0317-7: (Labpack) TX State Code: OUTS001H	143
08: Drum#0317-8: (Labpack) TX State Code: OUTS001H	140
09: Drum#0317-9: (Labpack) TX State Code: OUTS001H	153
10: Drum#0317-10: (Labpack) TX State Code: OUTS001H	140
11: Drum#0317-11: (Labpack) TX State Code: OUTS001H	151
12: Drum#0317-12: (Labpack) TX State Code: OUTS0011	154
13: Drum#0317-13: (Labpack) TX State Code: OUTS001H	154
14: Drum#0317-14: (Labpack) TX State Code: OUTS001H	140

5: 1 x 5gal poly drum
6: 1 x 5gal poly drum
7: 1 x 5gal poly drum
8: 1 x 5gal poly drum
9: 1 x 5gal poly drum
10: 1 x 5gal poly drum
11: 1 x 5gal poly drum
12: 1 x 5gal poly drum
13: 1 x 5gal poly drum
14: 1 x 5gal poly drum

TRANSPORTER

33. Transporter _____ Acknowledgment of Receipt of Materials

Printed/Typed Name: Maria Sandoval — Signature — Month — Day — Year

34. Transporter _____ Acknowledgment of Receipt of Materials

Printed/Typed Name — Signature — Month — Day — Year

FACILITY

35. Discrepancy

DESIGN

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
C A D 9 8 3 5 8 5 3 2 4	3	NSE: (909) 875-9288	007668377 FLE

GENERATOR

5. Generator's Name and Mailing Address
Olive View UCLA Medical Center
1100 N. Eastern Ave.,RM225
Los Angeles CA 90063
Generator's Phone: (818) 364-3405 Attn:Frank Colbert-EH&S Office

Generator's Site Address (if different than mailing address)
CD Requested
14445 Olive View Drive
Sylmar CA 91342

6. Transporter 1 Company Name
North State Environmental
U.S. EPA ID Number
C A R 0 0 0 2 0 6 0 8 6

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
NSSI/Sources & Services,Inc.
5711 Etheridge Street
Houston TX 77087
Facility's Phone: (713) 641-0391
U.S. EPA ID Number
T X D 9 8 2 5 6 0 2 9 4

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. UN2924,Waste flammable liquid,corrosive,n.o.s., (formic acid,methanol),3,(8),II	1	DF	4	P	D001	D002	791
X	2. UN2924,Waste flammable liquid,corrosive,n.o.s., (isopropanol,sodium hydroxide),3,(8),II	1	DF	4	P	D001	D002	551
X	3. UN1719,Waste caustic alkali liquids,n.o.s., (ammonium hydroxide,sodium hydroxide),8,II	1	DF	4	P	D002	551	
X	4. UN2811,Toxic solid,organic,n.o.s., (aqueous hydroquinone),6.1,III	1	DF	4	P	551		

14. Special Handling Instructions and Additional Information

	ERG#	
1: Drum#0317-1: (Labpack) TX State Code: OUTS001H	132	1: 1 x 15gal fiber drum
2: Drum#0317-2: (Labpack) TX State Code: OUTS001H	132	2: 1 x 15gal fiber drum
3: Drum#0317-3: (Labpack) TX State Code: OUTS001H	153	3: 1 x 5gal poly drum
4: Drum#0317-4: (Labpack) TX State Code: OUTS0011	154	4: 1 x 5gal poly drum

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Hank Sousa
Signature:
Month Day Year: 03 18 15

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: David Spero
Signature:
Month Day Year: 03 18 15

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name
Signature
Month Day Year

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: C A D 9 8 3 5 8 5 3 2 4

2. Page 1 of: 1

3. Emergency Response Phone: NSE: (909) 875-9288

4. Manifest Tracking Number: 007668376 FLE

5. Generator's Name and Mailing Address
Olive View UCLA Medical Center
1100 N. Eastern Ave.,RM225
Los Angeles CA 90063

Generator's Site Address (if different than mailing address)
CD Requested
14445 Olive View Drive
Sylmar CA 91342

Generator's Phone: (818) 364-3405 Attn:Frank Colbert-EH&S Office

6. Transporter 1 Company Name
North State Environmental

U.S. EPA ID Number: C A R 0 0 0 2 0 6 0 8 6

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
US Ecology, Inc.
Hwy 95, 11 miles south of
Beatty NV 89003

Facility's Phone: (775) 553-2203

U.S. EPA ID Number: N V T 3 3 0 0 1 0 0 0 0

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN1907, Soda lime, 8, III	3	DF	300	P	181
	2. Non-RCRA hazardous waste solid (lab debris)	1	DF	60	P	352
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1: Profile#070127495-903:Used carbon dioxide absorbent w/ soda lime in plastic cartridge
2: Profile#070128300-9087: Lab debris with broken glass,rags,absorbent,gloves

ERG# 154 N/A

1: 3 x 55gal poly drum
2: 1 x 55gal fiber drum
3:
4:

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name | Signature | Month 03 | Day 18 | Year 15

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: David Spero | Signature | Month 03 | Day 18 | Year 15

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) | U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) | Month | Day | Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1. | 2. | 3. | 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name | Signature | Month | Day | Year

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: C A D 9 8 3 5 8 5 3 2 4

2. Page 1 of: 1

3. Emergency Response Phone: NSE: (909) 875-9288

4. Manifest Tracking Number: 007668375 FLE

5. Generator's Name and Mailing Address
Olive View UCLA Medical Center
1100 N. Eastern Ave.,RM225
Los Angeles CA 90063
Generator's Phone: (818) 364-3405 Attn:Frank Colbert-EH&S | Office

Generator's Site Address (if different than mailing address)
CD Requested
14445 Olive View Drive
Sylmar CA 91342

6. Transporter 1 Company Name
North State Environmental
U.S. EPA ID Number: C A R 0 0 0 2 0 6 0 8 6

7. Transporter 2 Company Name
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Pacific Resource Recovery
3150 East Pico Boulevard
Los Angeles CA 90023
Facility's Phone: (800) 499-7145
U.S. EPA ID Number: C A D 0 0 8 2 5 2 4 0 5

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ,UN1993,Waste flammable liquids,n.o.s., (xylene,alcohol),3,II (D001,F003)	15	DF	[illegible]	G	D001	F003	212
X	2. UN1950,Waste aerosols,2.1	1	DF	1	P	D001	331	
X	3. RQ,UN1325,Waste flammable solids,organic,n.o.s., (paraffin wax with xylene,alcohol),4.1,II (D001,F003)	5	DF	[illegible]	P	D001	F003	331
X	4. RQ,UN1325,Waste flammable solids,organic,n.o.s., (carbon filters),4.1,II (D001)	2	DF	[illegible]	P	D001	331	

14. Special Handling Instructions and Additional Information

	ERG#	
1: Profile#13070179: Oils,pet dist,alcohols,xylenes,glycols,water,stains	128	1: 15 x 55gal poly drum
2: Profile#2609171:Flammable aerosols with hydrocarbon solvents/propellants	126	2: 1 x 5gal poly drum
3: Profile#14010076: Used paraffin wax with alcohol,xylene	133	3: 5 x 55gal fiber drum
4: Profile#10020023: Used carbon filters/carbon	133	4: 2 x 55gal fiber drum

GENERATOR

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: [illegible] | Signature: [signature] | Month 03 | Day 18 | Year 15

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: David Spero | Signature: [signature] | Month 03 | Day 18 | Year 15

Transporter 2 Printed/Typed Name: | Signature: | Month | Day | Year

FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) | U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) | Month | Day | Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name | Signature | Month | Day | Year

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

GENERATOR'S INITIAL COPY

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: CAL000163403
2. Page 1 of: 1
3. Emergency Response Phone: NSE: (909)875-9288
4. Manifest Tracking Number: 007668380 FLE

GENERATOR

5. Generator's Name and Mailing Address
Olive View Power Plant
1100 N. Eastern Ave RM119
Los Angeles CA 90063
Generator's Phone: (323) 793-3260Attn:Harry Parra

Generator's Site Address (if different than mailing address)
CD Requested
14445 Olive View Drive
Sylmar CA 91342

6. Transporter 1 Company Name: North State Environmental
U.S. EPA ID Number: CAR000206086

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Demenno\Kerdoon
2000 N. Alameda St.
Compton CA 90222
Facility's Phone: (310)537-7100
U.S. EPA ID Number: CAT080013352

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. Non-RCRA hazardous waste liquid (oil)	3	DM	165	G	221
	2. THIS WASTE STREAM HAS BEEN QUALIFIED FOR RECYCLING/TREATMENTS AT THE DeMENNO / KERDOON FACILITY IN COMPTON, CALIFORNIA. THIS FACILITY HAS THE NECESSARY PERMITS TO RECEIVE YOUR WASTE STREAM AS QUALIFIED. OUR EPA NUMBER IS CAT080013352					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1: Profile#Pending:Used motor/transmission/hydraulic oil waste
ERG# N/A
1:
2:
3:
4:

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Mike Parra
Signature:
Month 03 Day 18 Year 15

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: David Sparks
Signature:
Month 03 Day 18 Year 15

Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1. H039	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Willie Valley
Signature:
Month 03 Day 24 Year 15

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

DRAFT

APPENDIX C

HISTORICAL RESEARCH DOCUMENTATION

Olive View-UCLA Med Center
14445 Olive View Drive
Sylmar, CA 91342

Inquiry Number: 4518850.9
January 26, 2016

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th Floor
Shelton, Connecticut 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

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Please contact EDR at 1-800-352-0050
with any questions or comments.

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Date EDR Searched Historical Sources:

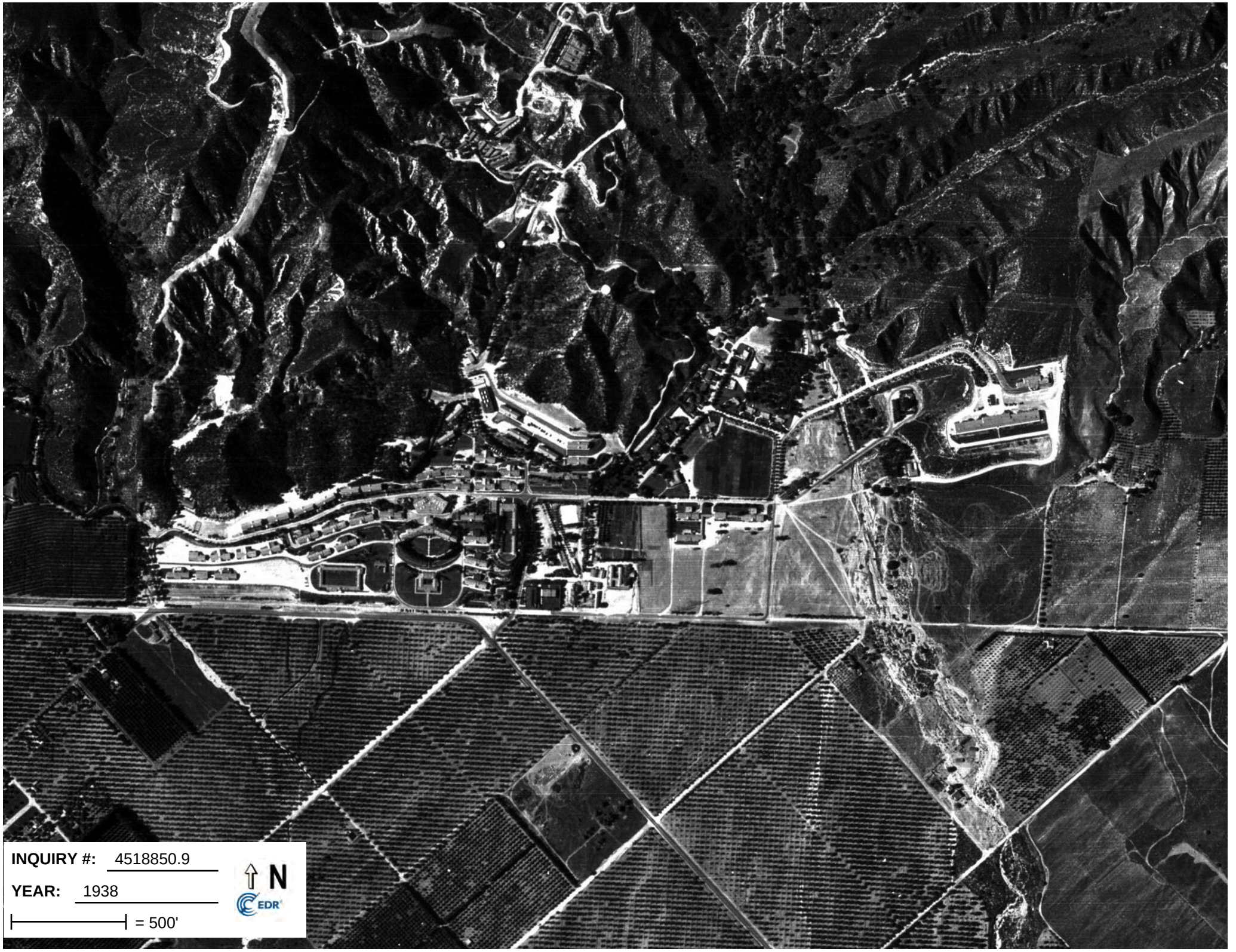
Aerial Photography January 26, 2016

Target Property:

14445 Olive View Drive
Sylmar, CA 91342

Year	***Scale***	***Details***	***Source***
1928	Aerial Photograph. Scale: 1"=500'	Flight Year: 1928	Fairchild
1938	Aerial Photograph. Scale: 1"=500'	Flight Year: 1938	Laval
1947	Aerial Photograph. Scale: 1"=500'	Flight Year: 1947	Tubis
1952	Aerial Photograph. Scale: 1"=500'	Flight Year: 1952	Pacific Air
1965	Aerial Photograph. Scale: 1"=500'	Flight Year: 1965	Fairchild
1976	Aerial Photograph. Scale: 1"=500'	Flight Year: 1976	Teledyne
1981	Aerial Photograph. Scale: 1"=500'	Flight Year: 1981	AMI
1989	Aerial Photograph. Scale: 1"=500'	Flight Year: 1989	USGS
1994	Aerial Photograph. Scale: 1"=500'	/DOQQ - acquisition dates: 1994	USGS/DOQQ
1994	Aerial Photograph. Scale: 1"=500'	/DOQQ - acquisition dates: 1994	USGS/DOQQ
2002	Aerial Photograph. Scale: 1"=500'	Flight Year: 2002	USGS
2005	Aerial Photograph. Scale: 1"=500'	Flight Year: 2005	USDA/NAIP
2005	Aerial Photograph. Scale: 1"=500'	Flight Year: 2005	USDA/NAIP
2009	Aerial Photograph. Scale: 1"=500'	Flight Year: 2009	USDA/NAIP
2009	Aerial Photograph. Scale: 1"=500'	Flight Year: 2009	USDA/NAIP
2010	Aerial Photograph. Scale: 1"=500'	Flight Year: 2010	USDA/NAIP
2010	Aerial Photograph. Scale: 1"=500'	Flight Year: 2010	USDA/NAIP
2012	Aerial Photograph. Scale: 1"=500'	Flight Year: 2012	USDA/NAIP
2012	Aerial Photograph. Scale: 1"=500'	Flight Year: 2012	USDA/NAIP

INQUIRY #: 4518850.9
YEAR: 1928
= 500'
N
EDR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YEAR: 1938
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N
EDR

INQUIRY #: 4518850.9
YEAR: 1947
= 500'
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EDR

INQUIRY #: 4518850.9
YEAR: 1952
= 500'
N
EDR

INQUIRY #: 4518850.9
YEAR: 1965
= 500'
N
EDR

INQUIRY #: 4518850.9
YEAR: 1976
= 500'
N
EDR

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EDR

INQUIRY #: 4518850.9
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YEAR: 2010
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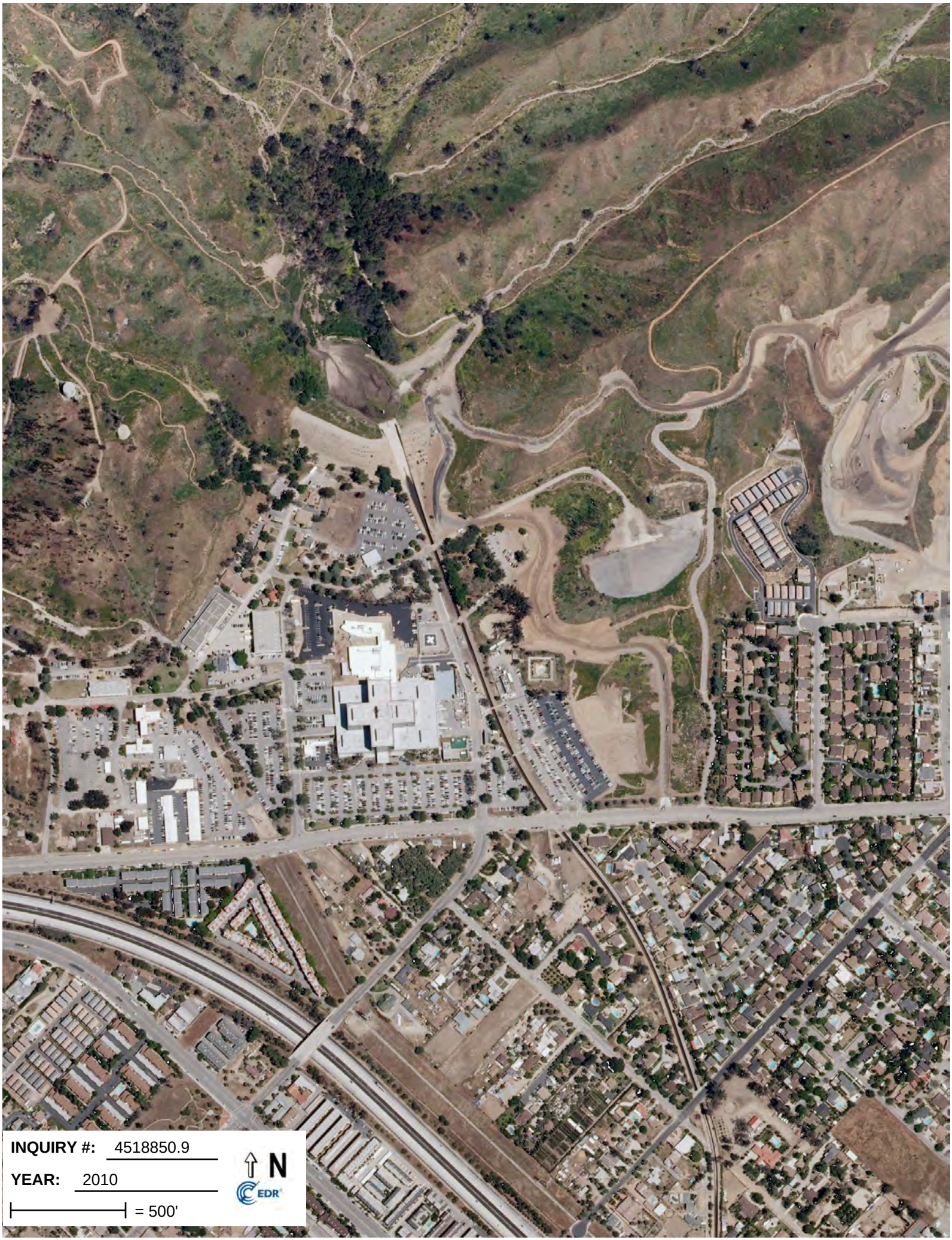
N
EDR


INQUIRY #: 4518850.9
YEAR: 2010
= 500'
N
EDR

INQUIRY #: 4518850.9
YEAR: 2012
= 500'
N
EDR

INQUIRY #: 4518850.9
YEAR: 2012
= 500'
N
EDR

Olive View-UCLA Med Center
14445 Olive View Drive
Sylmar, CA 91342

Inquiry Number: 4518850.3
January 25, 2016

Certified Sanborn® Map Report

6 Armstrong Road, 4th Floor
Shelton, Connecticut 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

1/25/16

Site Name:
Olive View-UCLA Med Center
14445 Olive View Drive
Sylmar, CA 91342

Client Name:
Ninyo & Moore
475 Goddard
Irvine, CA 92618

EDR Inquiry # 4518850.3

Contact: Patrick Cullip

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Certified Sanborn Results:

Site Name: Olive View-UCLA Med Center
Address: 14445 Olive View Drive
City, State, Zip: Sylmar, CA 91342
Cross Street:
P.O. # 209600001
Project: Olive View-UCLA Medical Center
Certification # 35A8-490A-9F93

Maps Provided:

1954
1940

Sanborn® Library search results
Certification # 35A8-490A-9F93

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- ☑ Library of Congress
- ☑ University Publications of America
- ☑ EDR Private Collection

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Sanborn Sheet Thumbnails

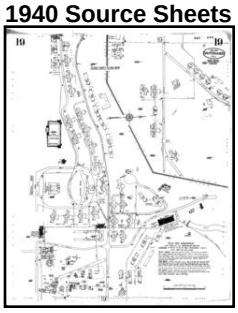
This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

1954 Source Sheets

Volume 1, Sheet 19

Volume 1, Sheet 19

1940 Source Sheets



Volume 1, Sheet 19

1954 Certified Sanborn Map

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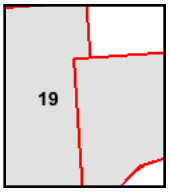
Site Name:	Olive View-UCLA Med Center
Address:	14445 Olive View Drive
City, ST, ZIP:	Sylmar CA 91342
Client:	Ninyo & Moore
EDR Inquiry:	4518850.3
Order Date:	1/25/2016 10:48:59 AM
Certification #	35A8-490A-9F93
Copyright:	1954

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

0 Feet 150 300 600



Volume 1, Sheet 19
Volume 1, Sheet 19

N

1940 Certified Sanborn Map

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Certification # 35A8-490A-9F93

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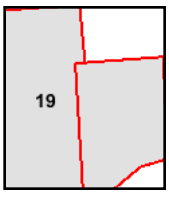

Volume 1, Sheet 19

0 Feet 150 300 600

N

Olive View-UCLA Med Center
14445 Olive View Drive
Sylmar, CA 91342

Inquiry Number: 4518850.5
January 22, 2016

The EDR-City Directory Abstract

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

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Executive Summary

Findings

City Directory Images

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OR DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction orforecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1920 through 2013. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 660 feet of the target property.

A summary of the information obtained is provided in the text of this report.

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

Year	Source	TP	Adjoining	Text Abstract	Source Image
2013	Cole Information Services	X	X	X	-
2008	Cole Information Services	X	X	X	-
2006	Haines Company	-	-	-	-
2004	Haines Company	X	X	X	-
2003	Haines & Company	-	-	-	-
2001	Haines Company, Inc.	-	-	-	-
2000	Haines	-	-	-	-
1999	Haines Company	-	-	-	-
1996	GTE	-	-	-	-
1995	Pacific Bell	X	X	X	-
1992	PACIFIC BELL WHITE PAGES	-	-	-	-
1991	Pacific Bell	X	X	X	-
1990	PACIFIC BELL WHITE PAGES	-	-	-	-
1986	Pacific Bell	-	-	-	-
1985	Pacific Bell	-	X	X	-
1981	Pacific Telephone	-	-	-	-
1980	Pacific Telephone	X	X	X	-
1976	R.L. Polk & Co Publishers	-	-	-	-
1975	Pacific Telephone	X	X	X	-
1972	R. L. Polk & Co.	-	-	-	-
1971	R. L. Polk & Co.	-	-	-	-
1970	Pacific Telephone	-	-	-	-
1969	Pacific Telephone	-	-	-	-
1967	R. L. Polk & Co.	-	-	-	-
1966	Pacific Telephone	-	-	-	-

EXECUTIVE SUMMARY

Year	Source	TP	Adjoining	Text Abstract	Source Image
1965	GTE	-	-	-	-
1964	Pacific Telephone	-	-	-	-
1963	Pacific Telephone	-	-	-	-
1962	Pacific Telephone	-	-	-	-
1961	R. L. Polk & Co.	-	-	-	-
1960	Pacific Telephone	-	-	-	-
1958	Pacific Telephone	-	-	-	-
1957	Pacific Telephone	-	-	-	-
1956	Pacific Telephone	-	X	X	-
1955	R. L. Polk & Co.	-	-	-	-
1954	R. L. Polk & Co.	-	-	-	-
1952	Los Angeles Directory Co.	-	-	-	-
1951	Los Angeles Directory Co.	-	-	-	-
1950	Pacific Telephone	-	X	X	-
1949	Los Angeles Directory Co.	-	-	-	-
1948	Associated Telephone Company, Ltd.	-	-	-	-
1947	Pacific Directory Co.	-	-	-	-
1946	Southern California Telephone Co	-	-	-	-
1945	R. L. Polk & Co.	-	-	-	-
1944	R. L. Polk & Co.	-	-	-	-
1942	Los Angeles Directory Co.	-	-	-	-
1940	Los Angeles Directory Co.	-	-	-	-
1939	Los Angeles Directory Co.	-	-	-	-
1938	Los Angeles Directory Company Publishers	-	-	-	-
1937	Los Angeles Directory Co.	-	-	-	-
1936	Los Angeles Directory Co.	-	-	-	-
1935	Los Angeles Directory Co.	-	-	-	-
1934	Los Angeles Directory Co.	-	-	-	-
1933	Los Angeles Directory Co.	-	-	-	-
1932	Los Angeles Directory Co.	-	-	-	-
1931	TRIBUNE-NEWS PUBLISHING CO.	-	-	-	-
1930	Los Angeles Directory Co.	-	-	-	-
1929	Los Angeles Directory Co.	-	-	-	-
1928	Los Angeles Directory Co.	-	-	-	-
1927	Los Angeles Directory Co.	-	-	-	-
1926	Los Angeles Directory Co.	-	-	-	-
1925	Los Angeles Directory Co.	-	-	-	-
1924	Los Angeles Directory Co.	-	-	-	-
1923	Los Angeles Directory Co.	-	-	-	-
1921	Los Angeles Directory Co.	-	-	-	-
1920	Los Angeles Directory Co.	-	-	-	-

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

14445 Olive View Drive
Sylmar, CA 91342

FINDINGS DETAIL

Target Property research detail.

OLIVE VIEW DR

14445 OLIVE VIEW DR

Year	*Uses*	*Source*
2013	COUNTY OF LOS ANGELES	Cole Information Services
	OLIVE VIEW CREDIT UNION	Cole Information Services
	OLIVE VIEWUCLA MEDICAL CENTER	Cole Information Services
2008	CHILD DEV CONSORTIUM OF LOS ANGELES	Cole Information Services
	COMMUNITY HEALTH CENTER	Cole Information Services
	COUNTY OF LOS ANGELES	Cole Information Services
	DAVID A TALAN MD	Cole Information Services
	DEM NORTH ANNEX BUILDING	Cole Information Services
	HEALTH SCIENCE LIBRARY	Cole Information Services
	INSIGHT HEALTH CORP	Cole Information Services
	LAC OLIVE VIEW UCLA MC	Cole Information Services
	LOS ANGELES COUNTY HOSPITALS OLIVE V	Cole Information Services
	LOS ANGELES OLIVE VW MD CENTER	Cole Information Services
	MORRISTOWN S CUSTOM MGMT	Cole Information Services
	NEUR DEPT N ANNEX	Cole Information Services
	OLIKHI CENTER FOR MRI	Cole Information Services
	OLIVE VIEW EMPLOYEES FEDERAL CREDIT	Cole Information Services
	OLIVE VIEW HOSPITAL	Cole Information Services
	OLIVE VIEW UCLA EDUCATION &	Cole Information Services
	OLIVE VW CLA MEDICAL CENTER FOUNDATI	Cole Information Services
	OLIVEVIEW UCLA MEDICAL CENTER	Cole Information Services
	RAD SCIS	Cole Information Services
	REGENTS OF THE UNIVERSITY OF CAL	Cole Information Services
	SERVICON	Cole Information Services

FINDINGS

Year	Uses	Source
2008	UCLA MC OLIVE VIEW	Cole Information Services
	UCLA MEDICAL CENTER PEDS DEPARTMENT	Cole Information Services
	UCLA SCH MEDICAL	Cole Information Services
	VALLEY CARE OLIVE VIEW UCLA	Cole Information Services
2004	OLIVE VIEW UCLAMED	Haines Company
	OLIVEVIEWCRDTUN	Haines Company
1995	Olive View Credit Union	Pacific Bell
	Olive View UCLA Medical Center	Pacific Bell
1991	Olive View Credit Union	Pacific Bell
	Olive View Medical Center L A County	Pacific Bell
1980	LOS ANGELES COUNTY OF HOSPITALS	Pacific Telephone
	OLIVE VIEW CREDIT UNION	Pacific Telephone
1975	Childrens Outpatient Mental Health	Pacific Telephone
	Day Treatment Center	Pacific Telephone
	Olive View Community Mental Health Center	Pacific Telephone
	OLIVE VIEW MEDICAL CENTER Los Angeles County	Pacific Telephone
	Psychiatric Outpatient Clinic	Pacific Telephone

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

OLIVE VIEW DR

14130 OLIVE VIEW DR

Year	Uses	Source
1956	LYNCH JAY	Pacific Telephone
1950	FLEMING P JOHN R	Pacific Telephone
	FLEMING P JOHN R	Pacific Telephone

14443 OLIVE VIEW DR

Year	Uses	Source
2004	no info	Haines Company
1985	Wallace Scott C	Pacific Bell
	Wallace Sam P Inc	Pacific Bell
	Pierce Enterprises	Pacific Bell
	Instrumentation Contractors Inc	Pacific Bell
	Honeywell Inc	Pacific Bell
	Honeywell Protection Services	Pacific Bell

14450 OLIVE VIEW DR

Year	Uses	Source
2004	no info	Haines Company

14452 OLIVE VIEW DR

Year	Uses	Source
2008	REGENTS OF THE UNIVERSITY OF CAL	Cole Information Services

14500 OLIVE VIEW DR

Year	Uses	Source
2013	OLIVE VIEW INVESTMENT INC	Cole Information Services
2008	HIS SYSTEM INC	Cole Information Services
	OLIVE VIEW INVESTMENT INC	Cole Information Services
	ELEGANCE BY SHIR LE	Cole Information Services
2004	APARTMENTS	Haines Company
	ALDACOJohana	Haines Company
	ALDACORosaevelia	Haines Company

FINDINGS

Year	Uses	Source
2004	ARCHIE Tim J	Haines Company
	ARRIETA David	Haines Company
	CAMPERO Daniel	Haines Company
	CARPENTER Donald Jr	Haines Company
	CHAIDEZ Luis	Haines Company
	COOLEYSean M	Haines Company
	GONZALEZ Maria	Haines Company
	GONZALEZMartha	Haines Company
	GRIGGS David	Haines Company
	LEGARRETA Richard	Haines Company
	LOZA Jessica	Haines Company
	OLIVEVIEW	Haines Company
	RAMIREZ Carcos	Haines Company
	RAMIREZ Carcos	Haines Company
	VALDEZDanete E	Haines Company
1995	Araujo Facundo	Pacific Bell
	Hall Crystal	Pacific Bell
	Shower Diane	Pacific Bell
1991	Bargmann D L	Pacific Bell
	Boles Nathan	Pacific Bell
	Boles RG	Pacific Bell
	Boles Robt E	Pacific Bell
	Boles Sidney L	Pacific Bell
	Bosteder Walter	Pacific Bell
	Bostic E L	Pacific Bell
	Bostic G&S GHis	Pacific Bell
	Bostic ME Sylm	Pacific Bell
	Bostick C Sun	Pacific Bell
	Bostick Dana & Joyce Sylm	Pacific Bell
	Brooks Hortense	Pacific Bell
	Frame Wm	Pacific Bell
	Galloway Robt Jr	Pacific Bell
	Lundin Maria	Pacific Bell
	Lundin Reggie	Pacific Bell
	Mahoney A P	Pacific Bell
	Mahoney B	Pacific Bell
	Mahoney Brian T 7	Pacific Bell
	Mahoney Chris	Pacific Bell

FINDINGS

Year	Uses	Source
1991	Martinez Hertberth	Pacific Bell
	Meyer Lloyd	Pacific Bell
	Pelka Michele	Pacific Bell
	Peralta Louis	Pacific Bell
	Rivas Beatrice	Pacific Bell
	Rosales Mike	Pacific Bell
	Safar Geo	Pacific Bell
	Shirey MG	Pacific Bell
	Shirey Michael C	Pacific Bell
	Shower Diane	Pacific Bell
	Simmons Harrold J	Pacific Bell
	Wallace ohnnie	Pacific Bell
	Yriarte Joaquin	Pacific Bell
	Yribe Leopoldo E	Pacific Bell
1985	Bargmann D L	Pacific Bell
	Burkeen Belinda	Pacific Bell
	Contreraz John	Pacific Bell
	Dilmore David Allen	Pacific Bell
	Ferguson Jas	Pacific Bell
	Ferguson Jas E	Pacific Bell
	George Michele	Pacific Bell
	Hurlbut Debbie & Robt	Pacific Bell
	Jackson Albert	Pacific Bell
	Jeffery Laurence	Pacific Bell
	Jones Gary	Pacific Bell
	Lake Appliance Service	Pacific Bell
	Lake Richard	Pacific Bell
	Leon Clifford	Pacific Bell
	Longlano Dreatha	Pacific Bell
	Mac Lean Malcolm	Pacific Bell
	Meza Bobby	Pacific Bell
	Mez Susan	Pacific Bell
	Page David Scott	Pacific Bell
	Pirmoradi Shahram	Pacific Bell
	Roanhaus Thos P	Pacific Bell
	Robinson David	Pacific Bell
	Resales Mike	Pacific Bell
	Seeley Angela	Pacific Bell

FINDINGS

Year	Uses	Source
1985	Shirey Toni	Pacific Bell
	Shirian J S	Pacific Bell
	Shower Diane	Pacific Bell
	Stein N	Pacific Bell
	Stocky Michael & Marilyn	Pacific Bell
	Tabor Gregory	Pacific Bell
	Tabor I	Pacific Bell
	Tayahua Virginia	Pacific Bell
	Vasquez Yrineo	Pacific Bell
	Vickers Matt	Pacific Bell
	White Henry C	Pacific Bell
	White Henry J	Pacific Bell
	Wilson Alice	Pacific Bell
1980	AGUILERA ALMA	Pacific Telephone
	ALCOSER JOS S	Pacific Telephone
	BARGMANN D L	Pacific Telephone
	BEATTY MARGARET	Pacific Telephone
	BECERRA JOSE LUIS	Pacific Telephone
	BELL ROGER	Pacific Telephone
	BYE LAURA	Pacific Telephone
	CHANDLER JAS W	Pacific Telephone
	CONTRERAZ JOHN	Pacific Telephone
	DOSS ROBT A	Pacific Telephone
	FAULKNER EDWIN	Pacific Telephone
	FLINN WM	Pacific Telephone
	FUSANO MICKAEL C	Pacific Telephone
	GARCIA DEBRA	Pacific Telephone
	GUTIERREZ PAT	Pacific Telephone
	HANKINS STEPHEN	Pacific Telephone
	HURLBUT DEBBIE & ROBT	Pacific Telephone
	HURST MARILYN	Pacific Telephone
	ILEJAY JOHN III	Pacific Telephone
	LAZARUS JAY S	Pacific Telephone
	LEON CLIFFORD	Pacific Telephone
	MATTAR WAHIB	Pacific Telephone
	MCQUARY J	Pacific Telephone
	MEDINA NORMA F	Pacific Telephone
	MORGAN T	Pacific Telephone

FINDINGS

Year	Uses	Source
1980	NEAR COLLEEN	Pacific Telephone
	NOEL WALKER	Pacific Telephone
	PRIESTLEY A B	Pacific Telephone
	QUATTRO RALPH	Pacific Telephone
	RODRIGUEZ ANITA	Pacific Telephone
	ROSALES MIKE	Pacific Telephone
	RUBIO RONALD W	Pacific Telephone
	SCHULTZ K A	Pacific Telephone
	SHOWERS DIANNE	Pacific Telephone
	SPURRIER TED	Pacific Telephone
	STRICKLIN DONALD	Pacific Telephone
	TAYAHUA VIRGINIA	Pacific Telephone
	VASQUEZ YRLNEO	Pacific Telephone
	WHITE HENRY C	Pacific Telephone
	WOLF DAVID	Pacific Telephone
	YBARRA JESS	Pacific Telephone
1975	Anderson Grant	Pacific Telephone
	Arriola Raquel D	Pacific Telephone
	Blanchard John V	Pacific Telephone
	Boles Susan H	Pacific Telephone
	Bradner Stephanie	Pacific Telephone
	Christianson Kris N	Pacific Telephone
	Clark M	Pacific Telephone
	Coaty Ken	Pacific Telephone
	Coaty Linda	Pacific Telephone
	Colliander Eric	Pacific Telephone
	Corkill J	Pacific Telephone
	Cummings Ron	Pacific Telephone
	Davis Rita	Pacific Telephone
	Ellis Michael E	Pacific Telephone
	Evans Raymond	Pacific Telephone
	Fallon Kathy	Pacific Telephone
	Fitzgerald Robt	Pacific Telephone
	Friedman Frank	Pacific Telephone
	Garcia Joe Jr	Pacific Telephone
	Gartner Paul J	Pacific Telephone
	Govea Art	Pacific Telephone
	Grisaffi Joe A	Pacific Telephone

FINDINGS

Year	Uses	Source
1975	Henthorn Blanche	Pacific Telephone
	Ivey H E	Pacific Telephone
	Kerr David	Pacific Telephone
	Kopanski C F	Pacific Telephone
	Koshak Mary	Pacific Telephone
	Kramer Robt	Pacific Telephone
	Kurich Laura	Pacific Telephone
	Kurich Norman	Pacific Telephone
	La Course Anthony	Pacific Telephone
	Lanagan Nancy	Pacific Telephone
	Lealos Kristine	Pacific Telephone
	Macpherson Bruce D	Pacific Telephone
	Maruca Michael	Pacific Telephone
	Mc Cain Albert	Pacific Telephone
	Mc Neer Francine	Pacific Telephone
	Miller Lyle L	Pacific Telephone
	Miller Peter N	Pacific Telephone
	Ozab Lorraine	Pacific Telephone
	Pilmer W E	Pacific Telephone
	Ramirez Steve	Pacific Telephone
	Reagan N E	Pacific Telephone
	Rice Jas H	Pacific Telephone
	Riley Kathryn	Pacific Telephone
	Schielke Bruce	Pacific Telephone
	Serpa Richard	Pacific Telephone
	Shipley Chas	Pacific Telephone
	Spurrier Ted	Pacific Telephone
	Werner Frank	Pacific Telephone
	White K	Pacific Telephone
	Williams Della	Pacific Telephone
	Williams Jas	Pacific Telephone
	Williams Michael	Pacific Telephone
	Wood Danl H	Pacific Telephone

14509 OLIVE VIEW DR

Year	Uses	Source
2004	no info	Haines Company

FINDINGS

OLIVE VIEW LN

13901 OLIVE VIEW LN

Year	*Uses*	*Source*
2013	REO SOLUTIONS	Cole Information Services
2008	GALACTICA LIMOUSINE	Cole Information Services
	INSTITUTE FOR RIVER RESEARCH	Cole Information Services
2004	KOCUREK Michael	Haines Company
	LAGUNA Marin	Haines Company
	LOPEZ Rose	Haines Company
	MARES Elsa	Haines Company
	MELCHORJose	Haines Company
	CMONTESMana	Haines Company
	MUNGUIAManuel	Haines Company
	NAJARIAN Edith	Haines Company
	ONEWTONLoia	Haines Company
	COVCHAROV Enriko	Haines Company
	PARRA Amold	Haines Company
	PEREZCelina Ley L	Haines Company
	SPHILLIPSJomel	Haines Company
	POWERS Catherine	Haines Company
	ORAMIREZAddriana	Haines Company
	RAMIREZ Maria T	Haines Company
	REYNOZO Edgar	Haines Company
	RODRIGUEZYvonne	Haines Company
	CSANCHEZMardcela	Haines Company
	SEBERTLanrry	Haines Company
	SHEAR Diane	Haines Company
	SIEVERSDean	Haines Company
	STEVENS Michael S	Haines Company
	TARIN Alfredo	Haines Company
	TYJUS Francela	Haines Company
	0 URBINAElren	Haines Company
	OVALLELEYJohn	Haines Company
	VERA Malcolm	Haines Company
	WELCH Lloyd	Haines Company
	APARTMENTS	Haines Company
	CALORIDGESean	Haines Company
	CARIASJosne	Haines Company

FINDINGS

Year	Uses	Source
2004	AVILAElena	Haines Company
	a BARAJASJose C	Haines Company
	c BERRY Lance	Haines Company
	BOYDMartin D	Haines Company
	SBRILLOEryn	Haines Company
	$BUTTERWORTH Francis	Haines Company
	CARRILLO Jesus	Haines Company
	CHAPMAN Alice	Haines Company
	CONTEBruce	Haines Company
	ODAGHLIAN Manuel	Haines Company
	ODESIMONE Robert	Haines Company
	DIAZJose	Haines Company
	ESTRADAAlfredo	Haines Company
	FELLEGI John	Haines Company
	GARCIALuis	Haines Company
	GODINEZMaria	Haines Company
	GRANADOS Olga	Haines Company
	CGUZMANHeclor	Haines Company
	HULLFrancisca	Haines Company
	INST FORRIVER	Haines Company
	RESEARCH	Haines Company
	SAAC Byron	Haines Company
	JADESIMI Gbolahan	Haines Company
	JOHNSON Heidi	Haines Company
	JUAREZ Frank	Haines Company
1995	Boyd Martin	Pacific Bell
	Depaul Anthony	Pacific Bell
	Dowden Jeffrey	Pacific Bell
	Fischer Gienda	Pacific Bell
	Welch MA	Pacific Bell
1991	Clarke Michael	Pacific Bell
	Clarke Michael A	Pacific Bell
	pl Anthony	Pacific Bell
	Dowden Jeffrey	Pacific Bell
	Dowding Jack	Pacific Bell
	Dowdie Angela	Pacific Bell
	Ebia Stephanie	Pacific Bell
	Ebin CM	Pacific Bell

FINDINGS

Year	*Uses*	*Source*
1991	Ebin I	Pacific Bell
	Ebin W&L	Pacific Bell
	Ebina Tadaharu	Pacific Bell
	Ebinger E L	Pacific Bell
	Ebinger M	Pacific Bell
	Hart Robt J	Pacific Bell
	Hart Robert L	Pacific Bell
	Hultine Alex & Fred	Pacific Bell
	Huatman A Sylm	Pacific Bell
	Huatman E M	Pacific Bell
	Isaac Byron	Pacific Bell
	Lukowich Edwin M	Pacific Bell
	Massar Geo t TY only	Pacific Bell
	Massar George D Jr	Pacific Bell
	Massar Julius C	Pacific Bell
	Massara G	Pacific Bell
	Massara GA	Pacific Bell
	Massaraay	Pacific Bell
	Massarano Victor & Joyce	Pacific Bell
	Nadalet John	Pacific Bell
	Nadalin M	Pacific Bell
	Niemiec Jerry	Pacific Bell
	Zerro Salih I	Pacific Bell

FINDINGS

TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

Address Researched	Address Not Identified in Research Source
14445 Olive View Drive	2006, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1985, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

Address Researched	Address Not Identified in Research Source
13901 OLIVE VIEW LN	2013, 2008, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
13901 OLIVE VIEW LN	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
14130 OLIVE VIEW DR	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
14443 OLIVE VIEW DR	2013, 2008, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
14450 OLIVE VIEW DR	2013, 2008, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
14452 OLIVE VIEW DR	2013, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
14500 OLIVE VIEW DR	2013, 2008, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
14500 OLIVE VIEW DR	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
14509 OLIVE VIEW DR	2013, 2008, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

Olive View-UCLA Med Center
14445 Olive View Drive
Sylmar, CA 91342

Inquiry Number: 4518850.4
January 22, 2016

EDR Historical Topo Map Report

with QuadMatch™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report

01/22/16

Site Name:
Olive View-UCLA Med Center
14445 Olive View Drive
Sylmar, CA 91342
EDR Inquiry # 4518850.4

Client Name:
Ninyo & Moore
475 Goddard
Irvine, CA 92618
Contact: Patrick Cullip

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Ninyo & Moore were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:

Site Name: Olive View-UCLA Med Center
Address: 14445 Olive View Drive
City,State,Zip: Sylmar, CA 91342
P.O.# 209600001
Project: Olive View-UCLA Medical Cent

Coordinates:

Latitude: 34.326893 34° 19' 37" North
Longitude: -118.449283 -118° 26' 57" West
UTM Zone: Zone 11 North
UTM X Meters: 366671.49
UTM Y Meters: 3799353.22
Elevation: 1479.95' above sea level

Maps Provided:

2012
1995
1988
1972
1966
1953
1945
1942
1940
1935
1929
1928
1925
1900

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Topo Sheet Thumbnails

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

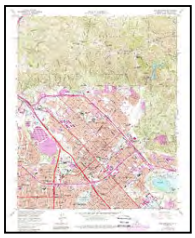
2012 Source Sheets

San Fernando
2012
7.5-minute, 24000

1995 Source Sheets

San Fernando
1995
7.5-minute, 24000
Aerial Photo Revised 1993

1988 Source Sheets



San Fernando
1988
7.5-minute, 24000
Photo Revised 1988
Aerial Photo Revised 1985

1972 Source Sheets

San Fernando
1972
7.5-minute, 24000
Photo Revised 1972
Aerial Photo Revised 1972

Topo Sheet Thumbnails

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1966 Source Sheets

San Fernando
1966
7.5-minute, 24000
Aerial Photo Revised 1964

1953 Source Sheets

San Fernando
1953
7.5-minute, 24000
Aerial Photo Revised 1952

1945 Source Sheets

San Fernando
1945
15-minute, 62500
Aerial Photo Revised 1940

1942 Source Sheets

Sylmar
1942
7.5-minute, 24000
Edited 1942

Topo Sheet Thumbnails

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1940 Source Sheets

San Fernando
1940
15-minute, 62500
Aerial Photo Revised 1940

1935 Source Sheets

Sylmar
1935
7.5-minute, 24000

1929 Source Sheets

Sylmar
1929
7.5-minute, 24000

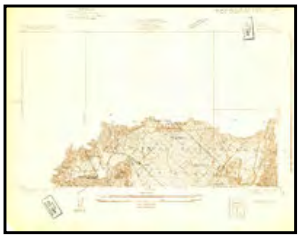
1928 Source Sheets

Sylmar
1928
7.5-minute, 24000

Topo Sheet Thumbnails

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

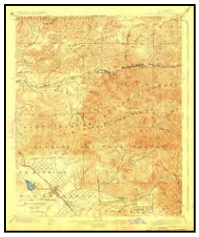
1925 Source Sheets



Sylmar
1925
7.5-minute, 24000

1900 Source Sheets

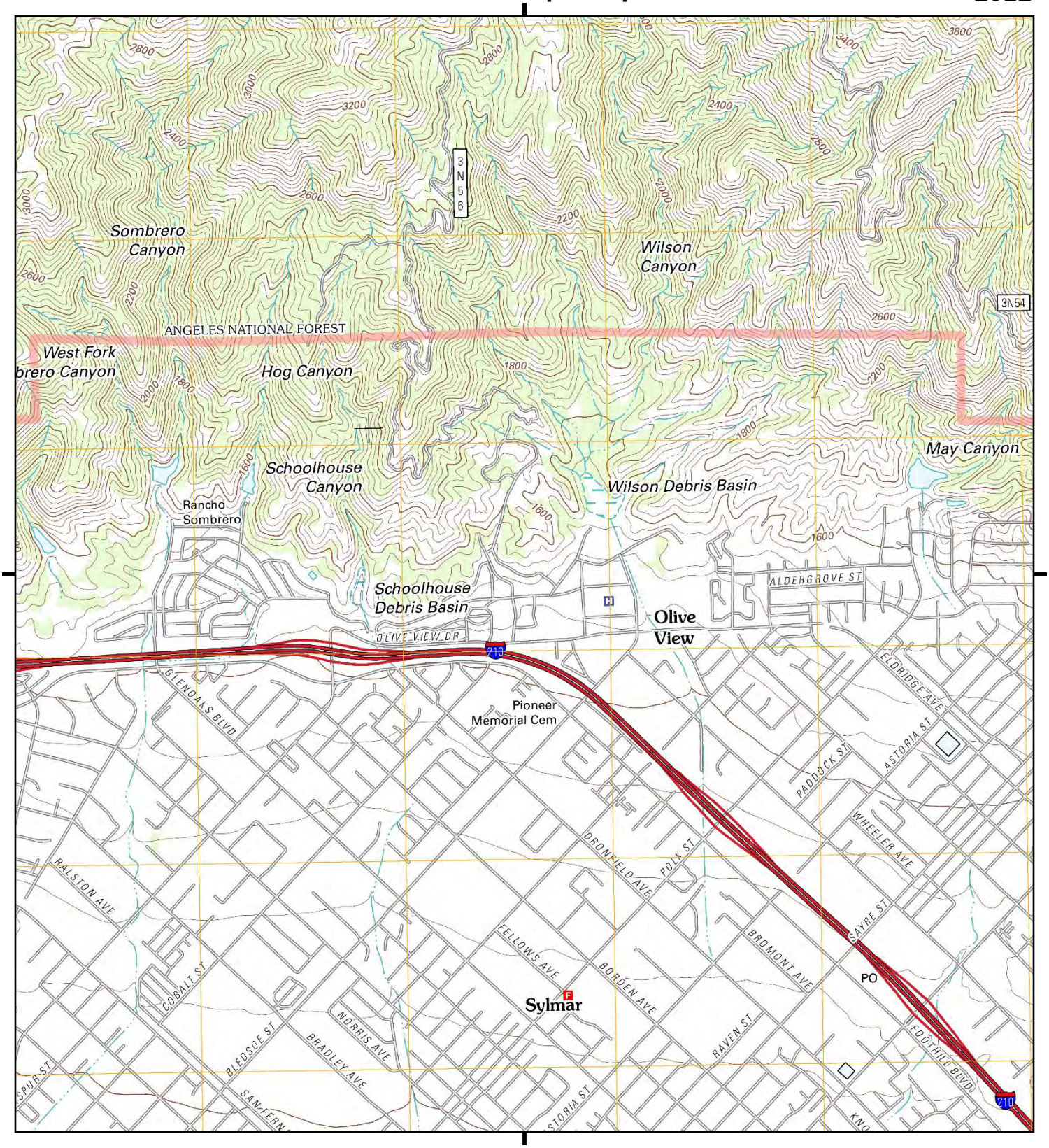
Fernando
1900
15-minute, 62500



San Fernando
1900
15-minute, 62500

Historical Topo Map

2012



This report includes information from the following map sheet(s).

Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

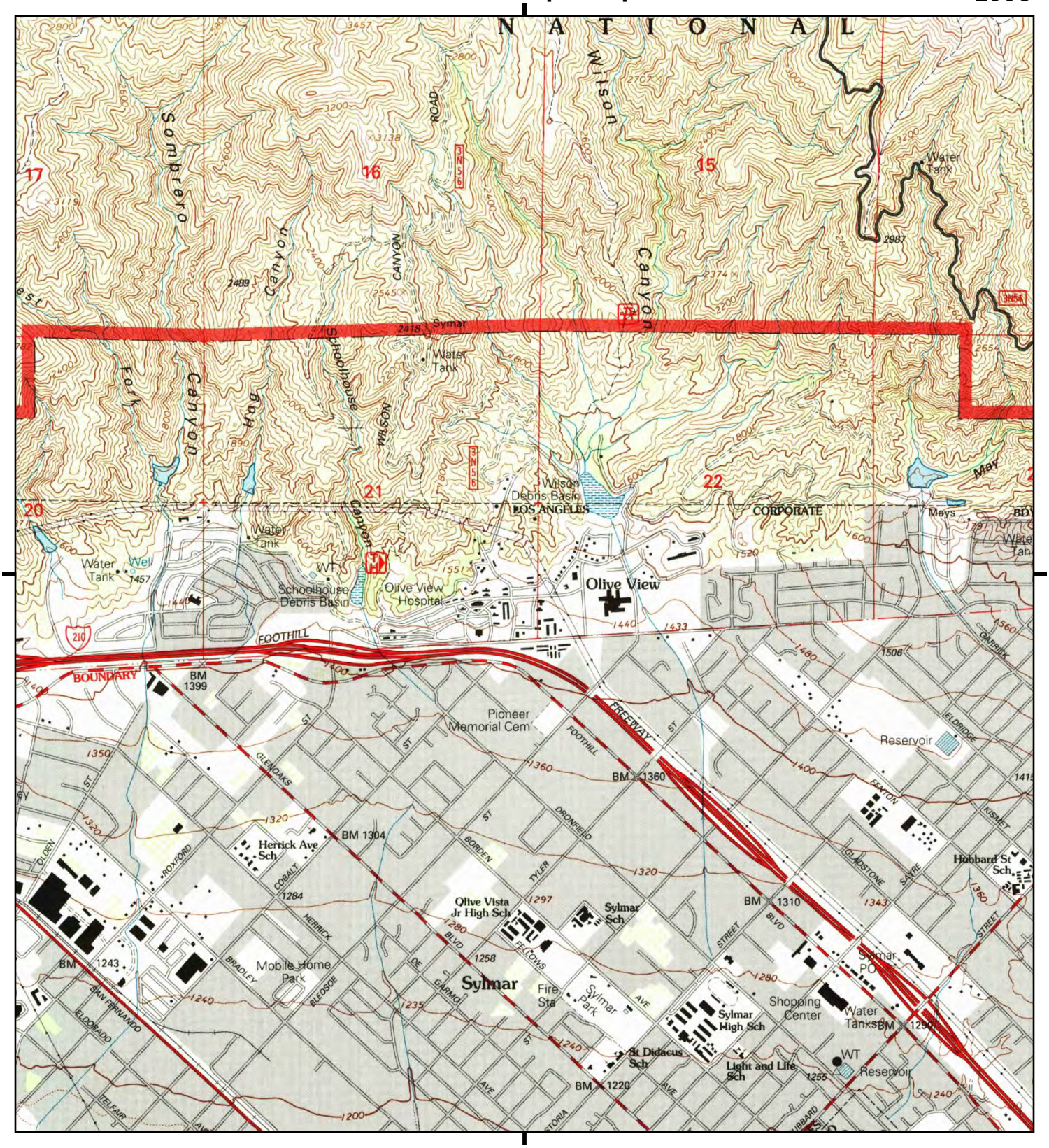
TP, San Fernando, 2012, 7.5-minute

SITE NAME: Olive View-UCLA Med Center
ADDRESS: 14445 Olive View Drive
Sylmar, CA 91342
CLIENT: Ninyo & Moore

N

Historical Topo Map

1995



This report includes information from the following map sheet(s).

TP, San Fernando, 1995, 7.5-minute

NW N NE
W E
SW S SE

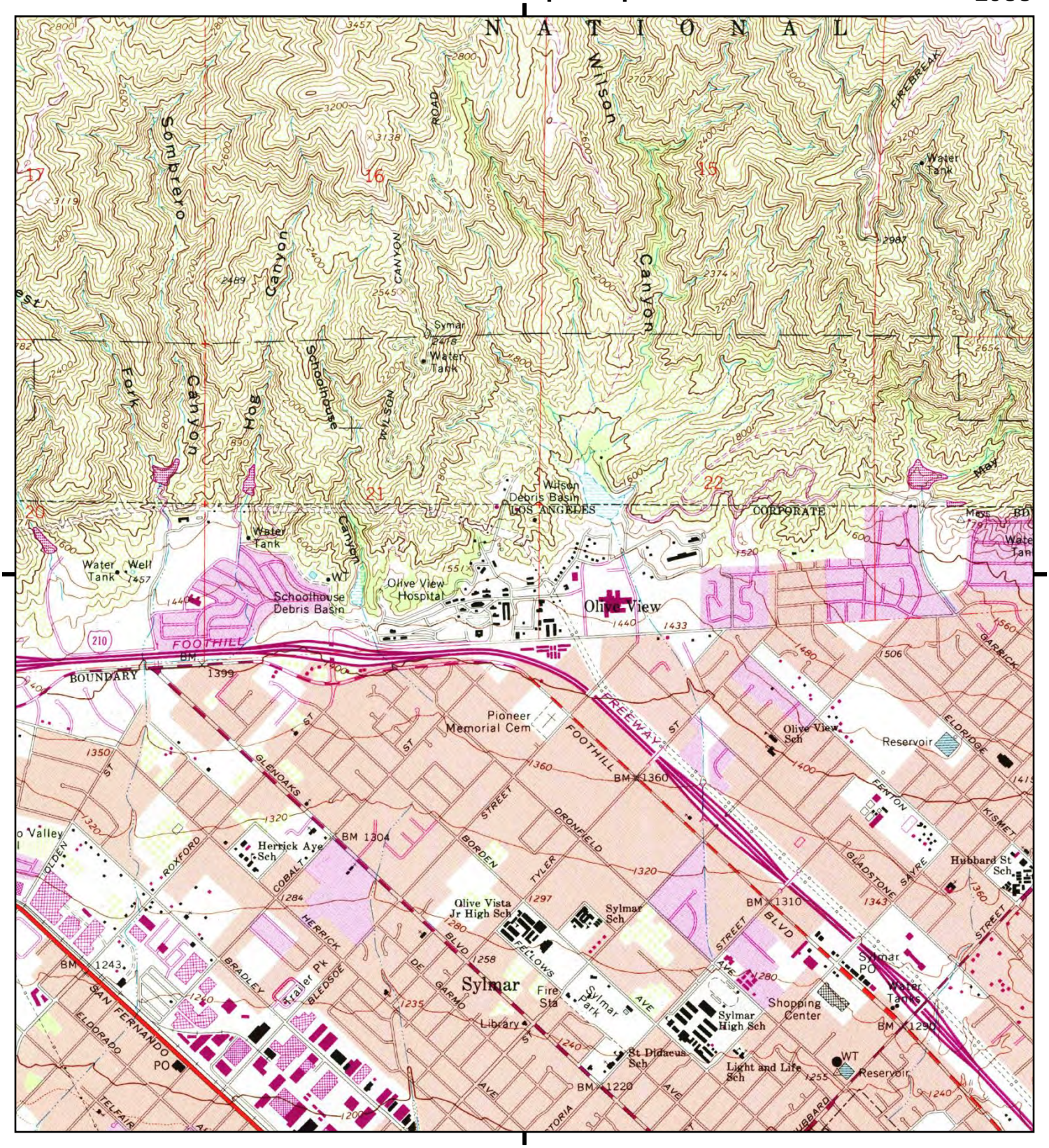
Miles 0.25 0.5 1 1.5

SITE NAME: Olive View-UCLA Med Center
ADDRESS: 14445 Olive View Drive
Sylmar, CA 91342
CLIENT: Ninyo & Moore

N

Historical Topo Map

1988



This report includes information from the following map sheet(s).

Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

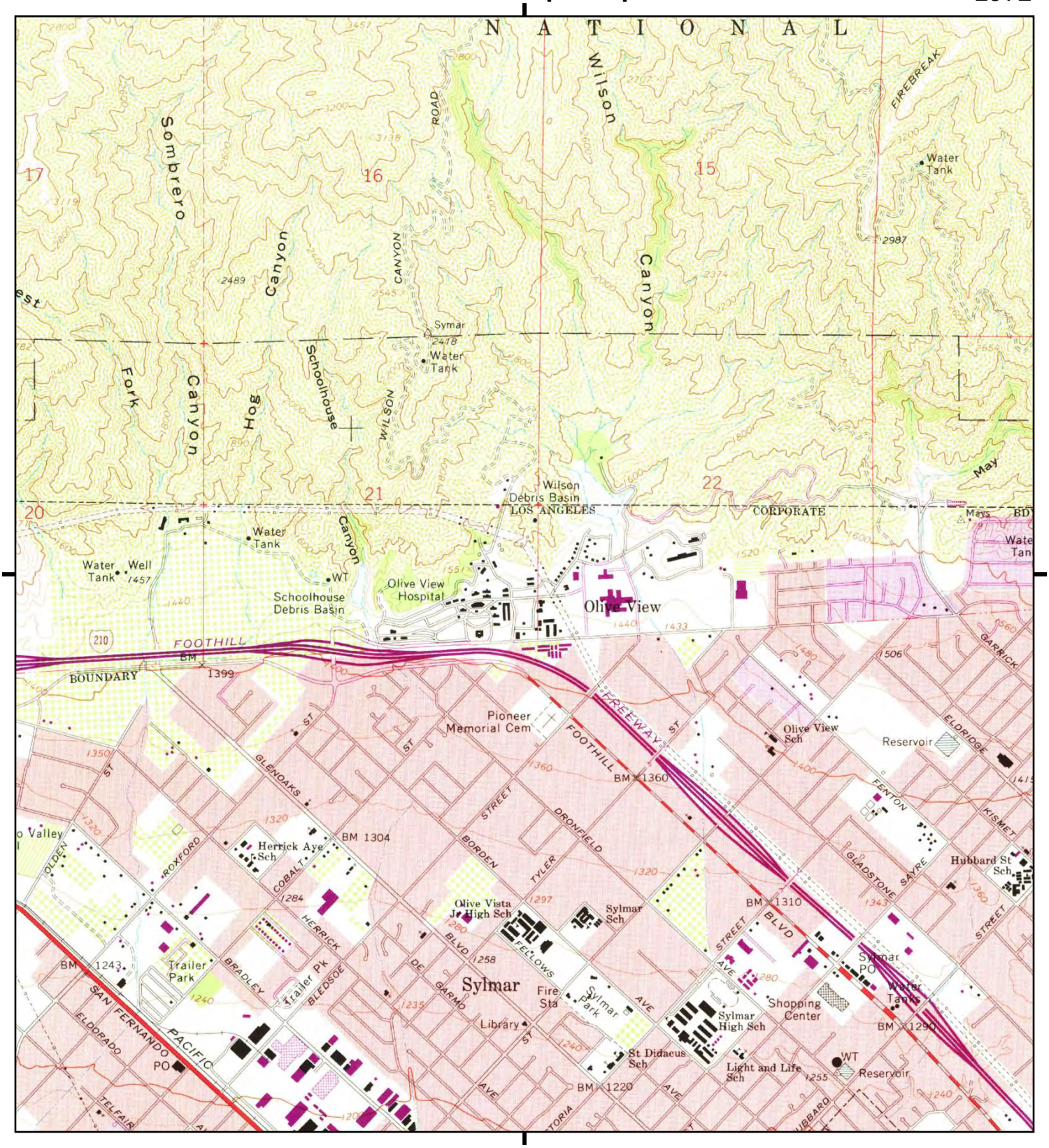
TP, San Fernando, 1988, 7.5-minute

SITE NAME: Olive View-UCLA Med Center
ADDRESS: 14445 Olive View Drive
Sylmar, CA 91342
CLIENT: Ninyo & Moore

N

Historical Topo Map

1972



This report includes information from the following map sheet(s).

Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

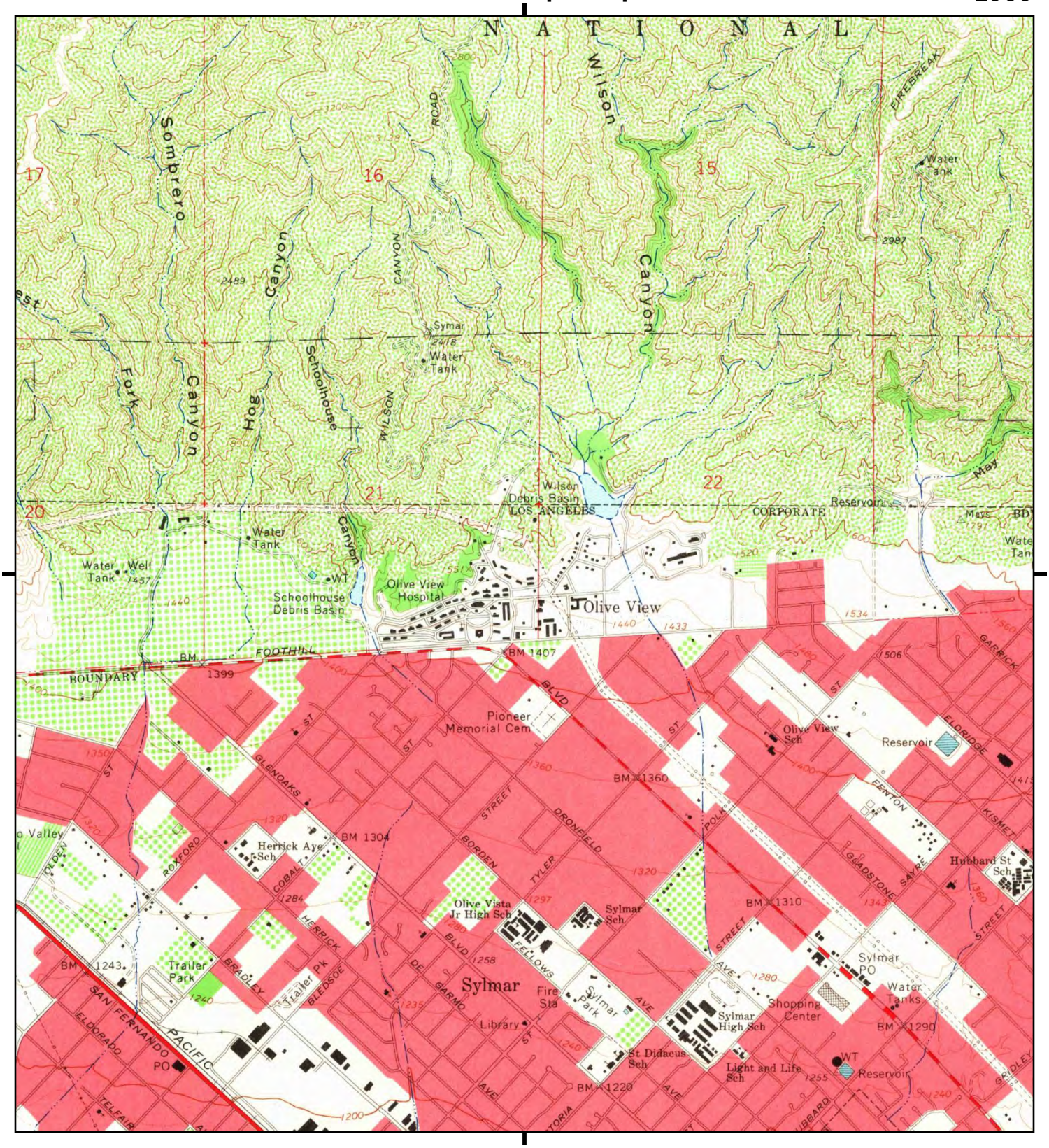
TP, San Fernando, 1972, 7.5-minute

SITE NAME: Olive View-UCLA Med Center
ADDRESS: 14445 Olive View Drive
Sylmar, CA 91342
CLIENT: Ninyo & Moore

N

Historical Topo Map

1966



This report includes information from the following map sheet(s).

TP, San Fernando, 1966, 7.5-minute

Miles 0.25 0.5 1 1.5

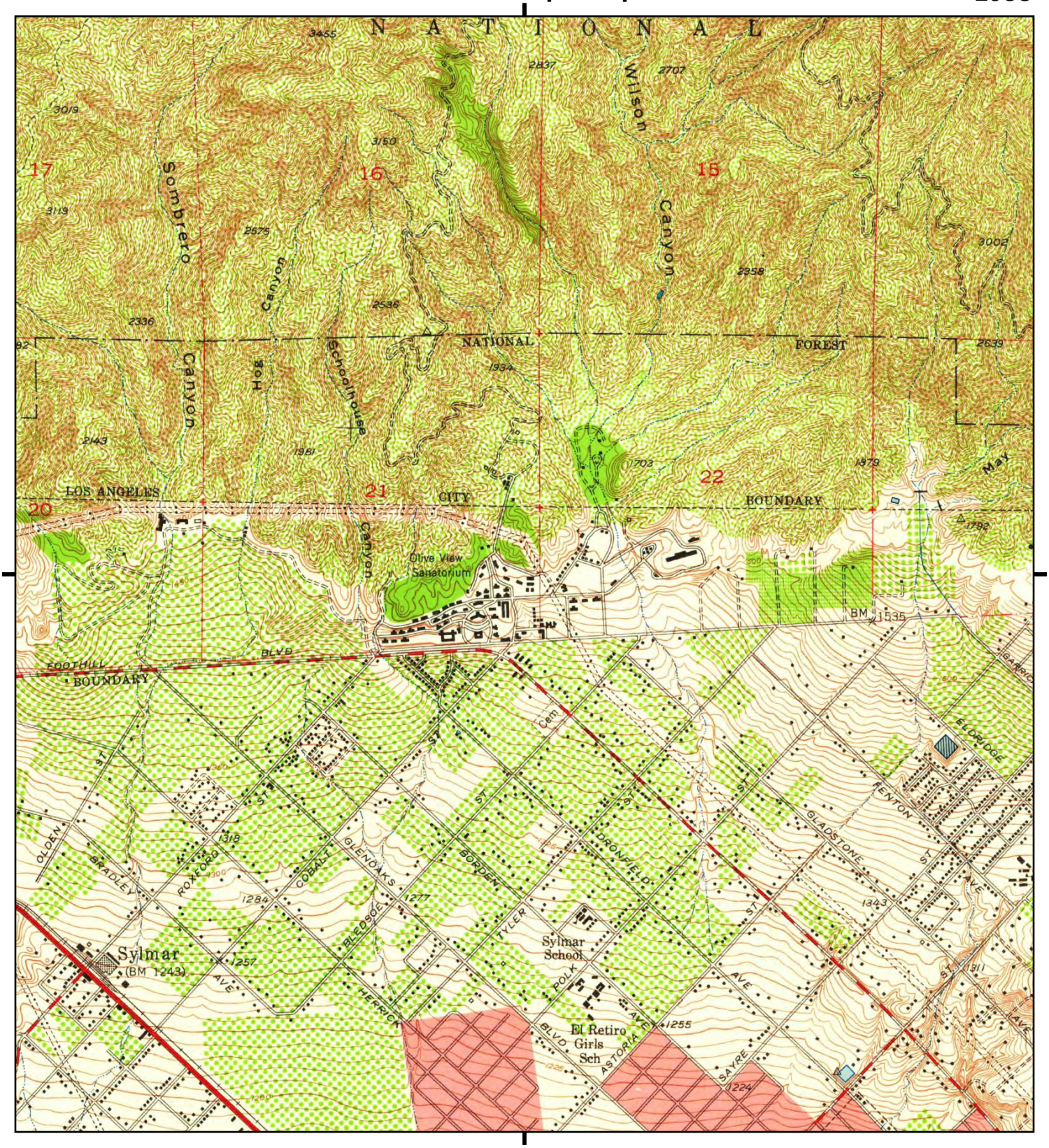
NW N NE
W E
SW S SE

SITE NAME: Olive View-UCLA Med Center
ADDRESS: 14445 Olive View Drive
Sylmar, CA 91342
CLIENT: Ninyo & Moore

N

Historical Topo Map

1953



This report includes information from the following map sheet(s).

Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

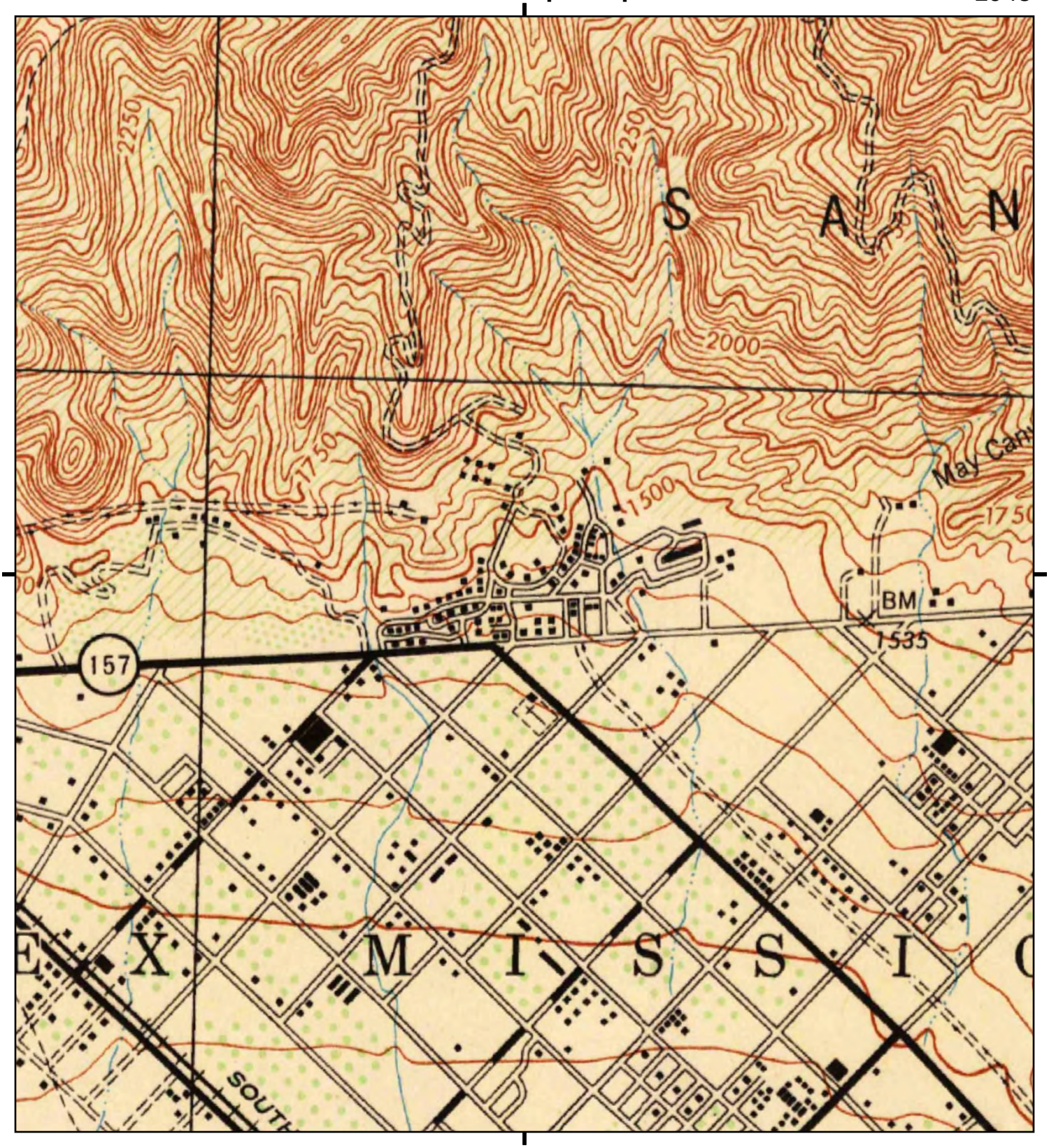
TP, San Fernando, 1953, 7.5-minute

SITE NAME: Olive View-UCLA Med Center
ADDRESS: 14445 Olive View Drive
Sylmar, CA 91342
CLIENT: Ninyo & Moore

N

Historical Topo Map

1945



This report includes information from the following map sheet(s).

Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

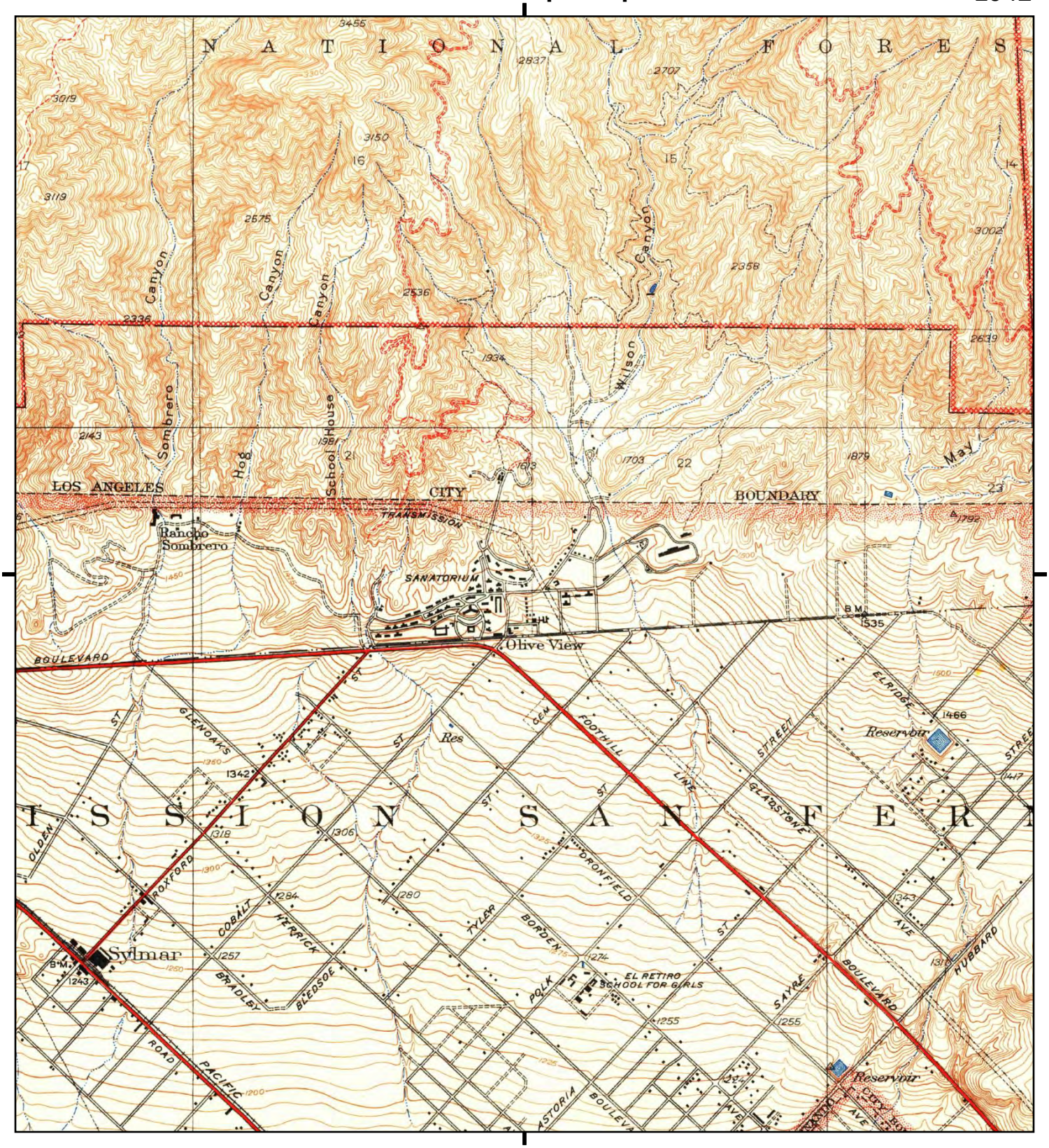
TP, San Fernando, 1945, 15-minute

SITE NAME: Olive View-UCLA Med Center
ADDRESS: 14445 Olive View Drive
Sylmar, CA 91342
CLIENT: Ninyo & Moore

N

Historical Topo Map

1942



This report includes information from the following map sheet(s).

Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

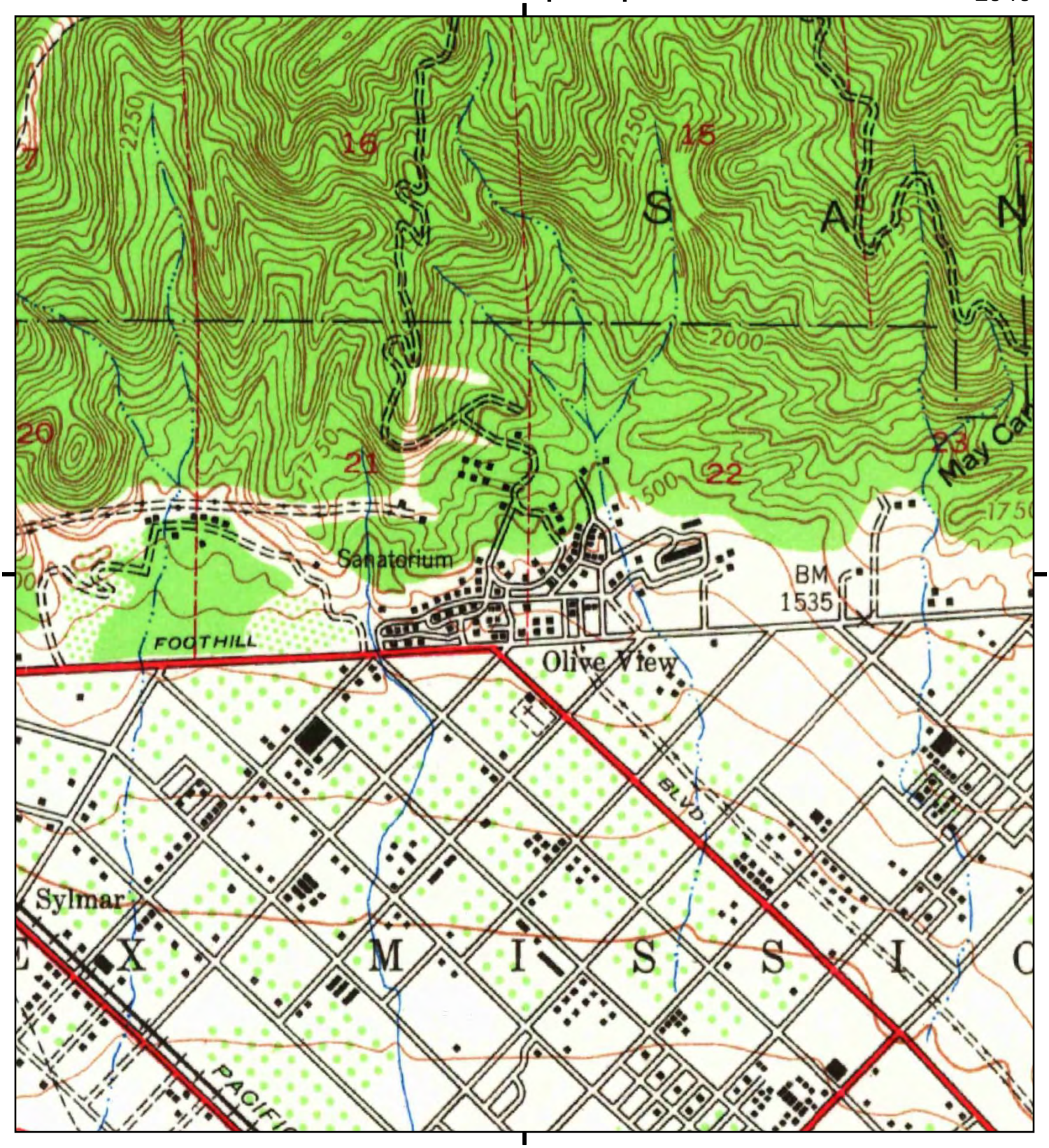
TP, Sylmar, 1942, 7.5-minute

SITE NAME: Olive View-UCLA Med Center
ADDRESS: 14445 Olive View Drive
Sylmar, CA 91342
CLIENT: Ninyo & Moore

N

Historical Topo Map

1940



This report includes information from the following map sheet(s).

Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

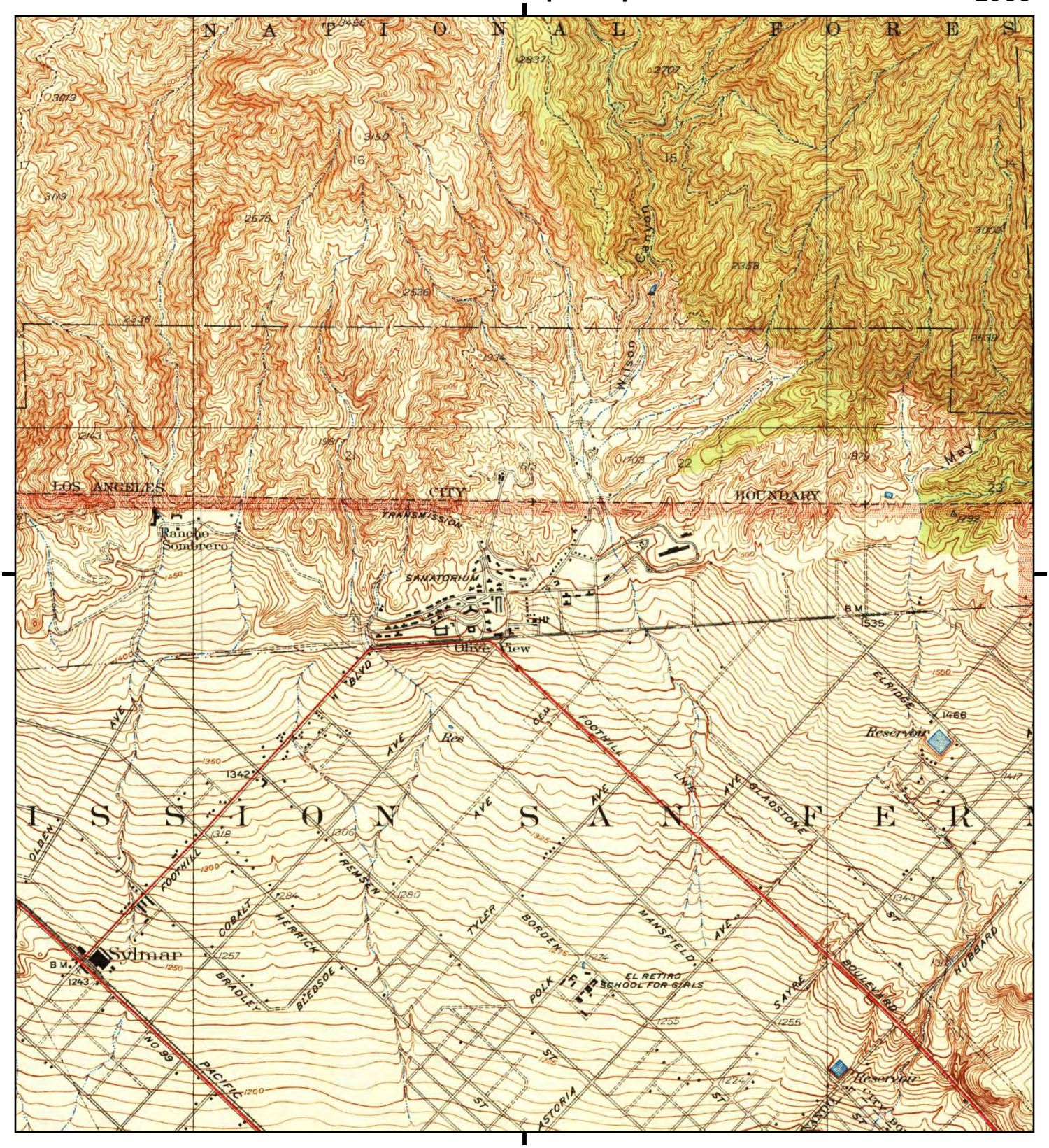
TP, San Fernando, 1940, 15-minute

SITE NAME: Olive View-UCLA Med Center
ADDRESS: 14445 Olive View Drive
Sylmar, CA 91342
CLIENT: Ninyo & Moore

N

Historical Topo Map

1935



This report includes information from the following map sheet(s).

Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

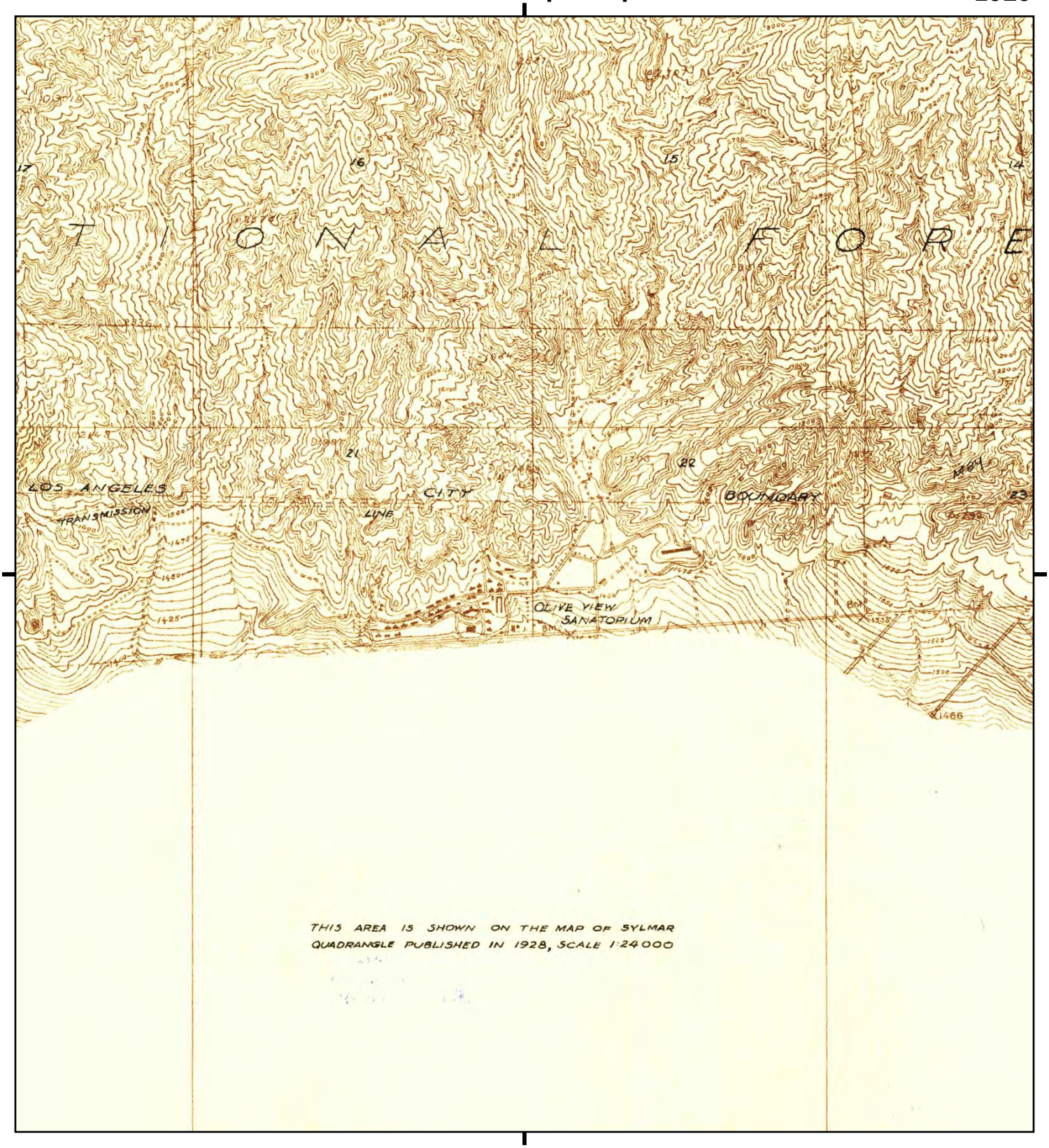
TP, Sylmar, 1935, 7.5-minute

SITE NAME: Olive View-UCLA Med Center
ADDRESS: 14445 Olive View Drive
Sylmar, CA 91342
CLIENT: Ninyo & Moore

N

Historical Topo Map

1929



This report includes information from the following map sheet(s).

Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

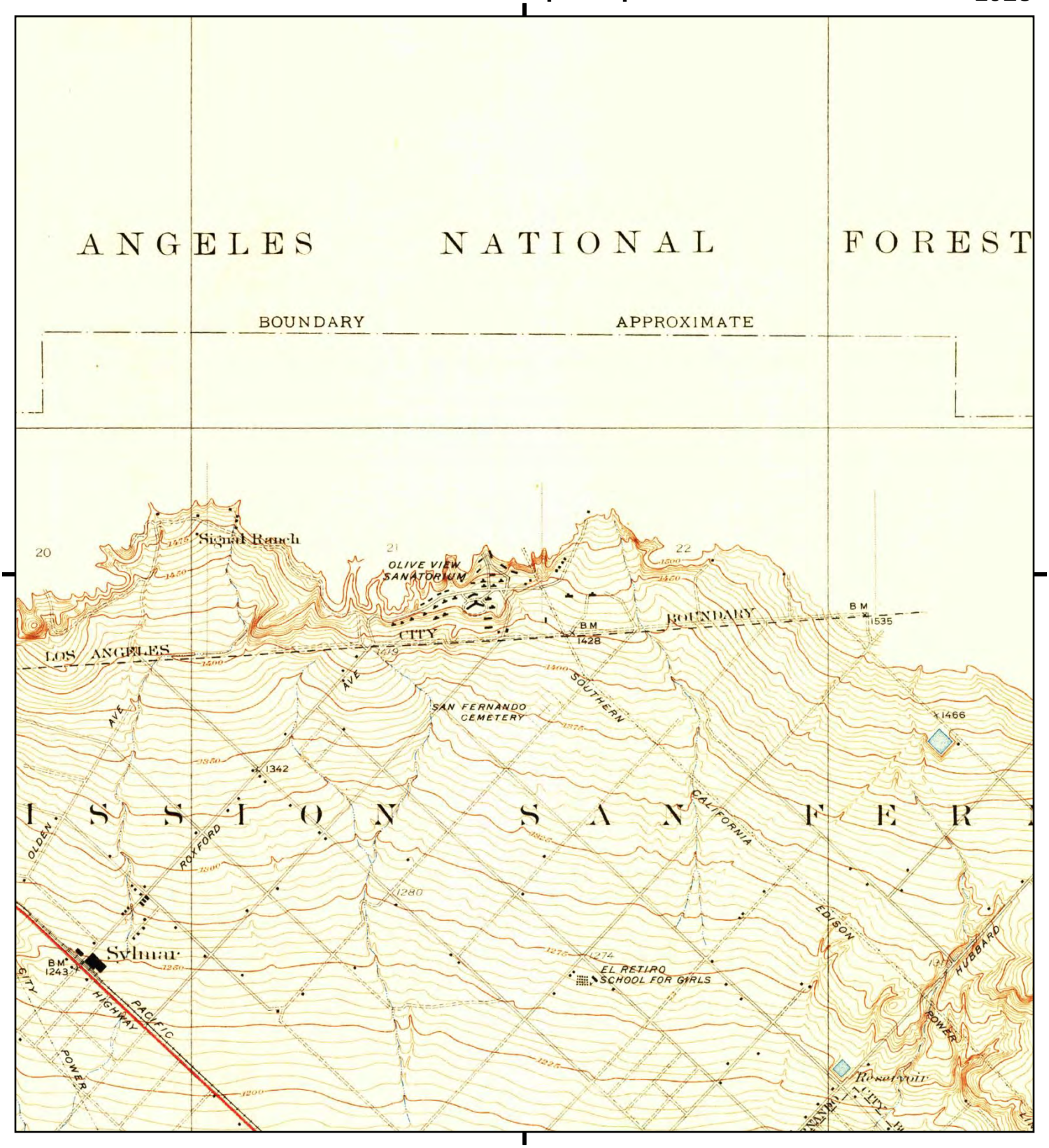
TP, Sylmar, 1929, 7.5-minute

SITE NAME: Olive View-UCLA Med Center
ADDRESS: 14445 Olive View Drive
Sylmar, CA 91342
CLIENT: Ninyo & Moore

N

Historical Topo Map

1928



This report includes information from the following map sheet(s).

Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

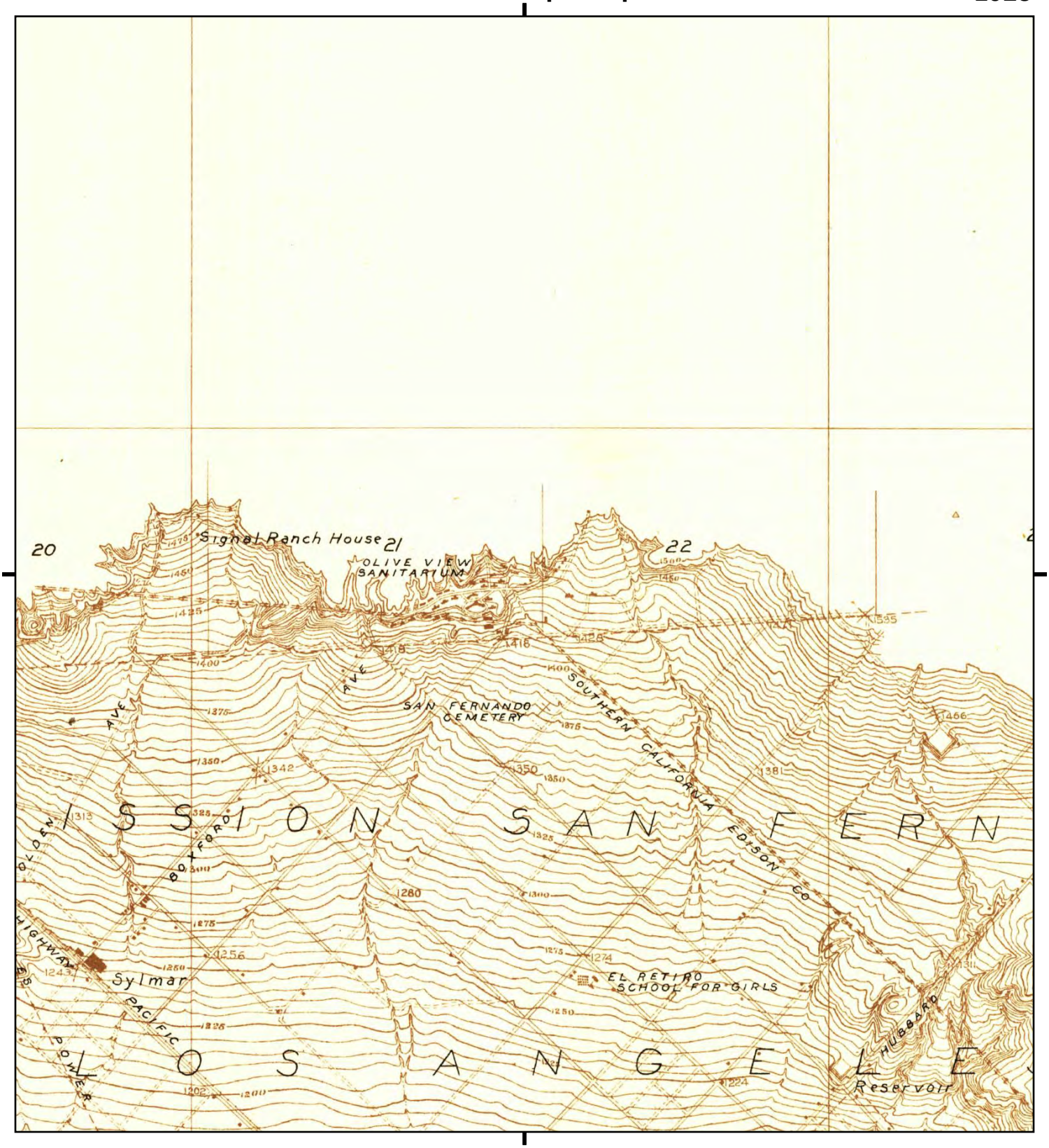
TP, Sylmar, 1928, 7.5-minute

SITE NAME: Olive View-UCLA Med Center
ADDRESS: 14445 Olive View Drive
Sylmar, CA 91342
CLIENT: Ninyo & Moore

N

Historical Topo Map

1925



This report includes information from the following map sheet(s).

Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

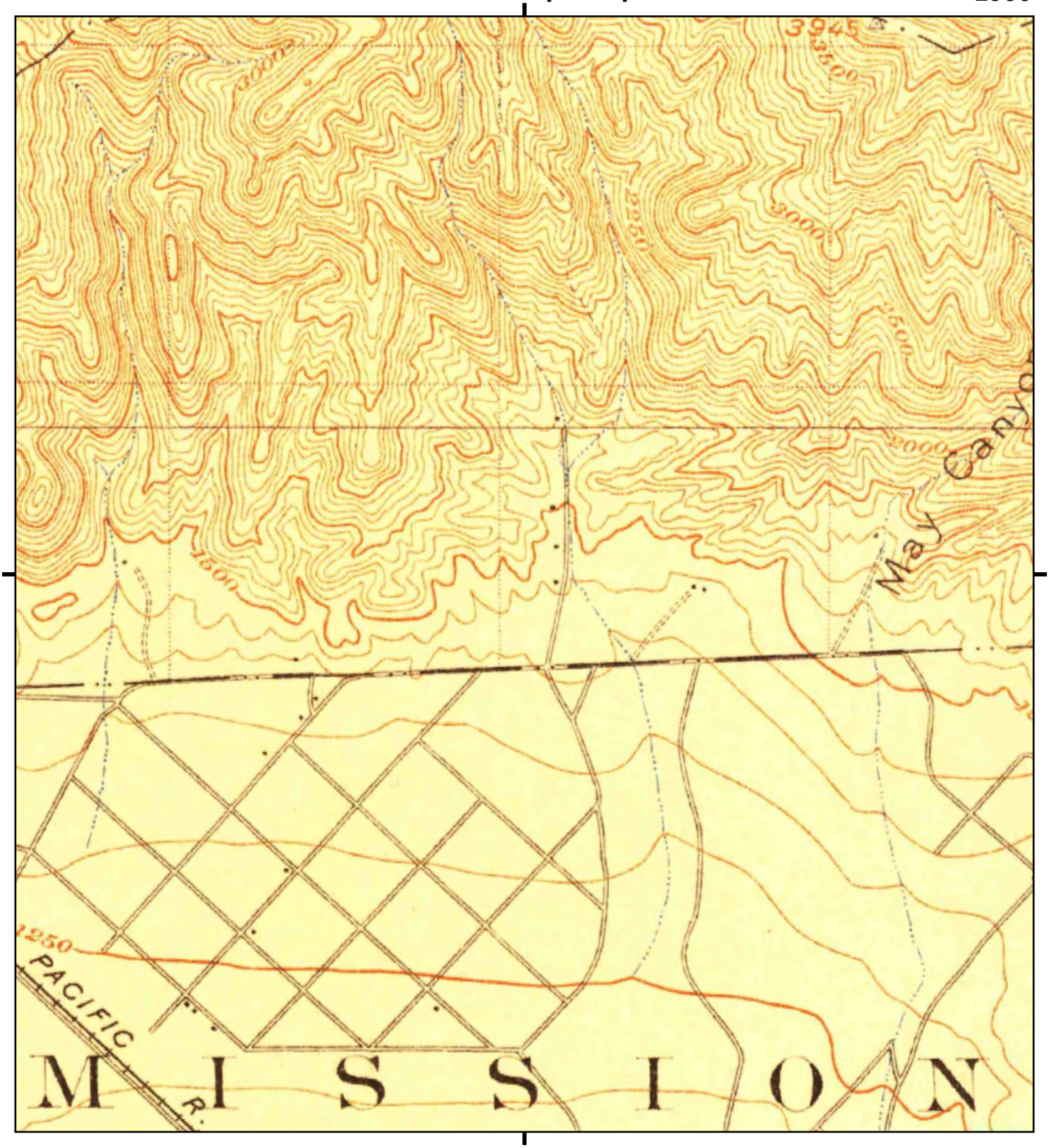
TP, Sylmar, 1925, 7.5-minute

SITE NAME: Olive View-UCLA Med Center
ADDRESS: 14445 Olive View Drive
Sylmar, CA 91342
CLIENT: Ninyo & Moore

N

Historical Topo Map

1900



This report includes information from the following map sheet(s).

Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Fernando, 1900, 15-minute

TP, San Fernando, 1900, 15-minute

SITE NAME: Olive View-UCLA Med Center
ADDRESS: 14445 Olive View Drive
Sylmar, CA 91342
CLIENT: Ninyo & Moore

N

DRAFT

APPENDIX D

EDR ENVIRONMENTAL DATABASE REPORT

Olive View-UCLA Med Center
14445 Olive View Drive
Sylmar, CA 91342

Inquiry Number: 4518850.2s
January 22, 2016

The EDR Radius Map™ Report with GeoCheck®

EDR® Environmental Data Resources Inc

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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Overview Map	2
Detail Map	3
Map Findings Summary	4
Map Findings	8
Orphan Summary	66
Government Records Searched/Data Currency Tracking	GR-1

GEOCHECK ADDENDUM

Physical Setting Source Addendum	A-1
Physical Setting Source Summary	A-2
Physical Setting SSURGO Soil Map	A-5
Physical Setting Source Map	A-12
Physical Setting Source Map Findings	A-14
Physical Setting Source Records Searched	PSGR-1

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

14445 OLIVE VIEW DRIVE
SYLMAR, CA 91342

COORDINATES

Latitude (North):	34.3268930 - 34° 19' 36.81''
Longitude (West):	118.4492830 - 118° 26' 57.41''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	366668.5
UTM Y (Meters):	3799157.8
Elevation:	1482 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5636833 SAN FERNANDO, CA
Version Date:	2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20120428
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
14445 OLIVE VIEW DRIVE
SYLMAR, CA 91342

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	LA CO FMD OLIVE VIEW	14445 OLIVE VIEW DR	LOS ANGELES CO. HMS		TP
A2	LOS ANGELES COUNTY	14445 OLIVE VIEW DR	UST		TP
A3	NALCO	14445 OLIVE VIEW DR	HAZNET		TP
A4	PSYCHIATRIC URGENT C	14445 OLIVE VIEW DR	HAZNET		TP
A5	OLIVE VIEW UCLA MED	14445 OLIVE VIEW DR	HAZNET		TP
A6		14445 OLIVE VIEW DRI	CHMIRS		TP
A7	OLIVE VIEW HOSPITAL-	14445 OLIVE VIEW DR	LOS ANGELES CO. HMS		TP
A8	OLIVE VIEW MEDICAL C	14445 OLIVE VIEW DR	RCRA-LQG, US AIRS, HAZNET		TP
A9	LOS ANGELES COUNTY/	14445 OLIVE VIEW DR	HAZNET		TP
A10	LA CO., OLIVE VIEW/U	14445 OLIVE VIEW DR.	EMI		TP
A11	OLIVE VIEW MEDICAL C	14445 OLIVE VIEW DRI	FINDS		TP
A12	OLIVE VIEW MEDICAL C	14445 OLIVE VIEW DR	HAZNET		TP
A13	COUNTY OF LOS ANGELS	14445 OLIVE VIEW DR	HAZNET		TP
A14	LA CO., OLIVE VIEW/U	14445 OLIVE VIEW DR	SWEEPS UST, CHMIRS, EMI, NPDES		TP
15	CASTLE PRECISION IND	14148 BLEDSOE ST.	ENVIROSTOR	Lower	1 ft.
B16	LOS ANGELES COUNTY	14443 OLIVE VIEW DR	CA FID UST	Lower	22, 0.004, SSW
B17	OLIVE VIEW HOSPITAL	14501 OLIVE VIEW DR	HIST UST	Lower	22, 0.004, SW
C18	FIRE STATION	14425 OLIVE VIEW DR	SWEEPS UST, CA FID UST	Lower	44, 0.008, South
C19	FIRE STATION #46	14425 OLIVE VIEW DR	HIST UST	Lower	44, 0.008, South
C20	LA CO FD FIRE STATIO	14425 OLIVE VIEW	LUST, HIST CORTESE, LOS ANGELES CO. HMS	Lower	44, 0.008, South
21		15000 OLIVE VIEW DR	EDR Hist Auto	Lower	419, 0.079, WSW
22		14682 COBALT ST	EDR Hist Auto	Lower	595, 0.113, SSW
23	VACANT LOT	13780 GLADSTONE	SWEEPS UST, CA FID UST	Lower	867, 0.164, SE

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
LA CO FMD OLIVE VIEW 14445 OLIVE VIEW DR CALABASAS (UNIN.), CA	LOS ANGELES CO. HMS Facility ID: 012577-012744	N/A
LOS ANGELES COUNTY 14445 OLIVE VIEW DR SYLMAR, CA 91342	UST Facility Id: 24841	N/A
NALCO 14445 OLIVE VIEW DR SYLMAR, CA 91342	HAZNET GEPAID: CAC001316768	N/A
PSYCHIATRIC URGENT C 14445 OLIVE VIEW DR SYLMAR, CA 91342	HAZNET GEPAID: CAC002650276	N/A
OLIVE VIEW UCLA MED 14445 OLIVE VIEW DR SYLMAR, CA 91342	HAZNET GEPAID: CAL000144653	N/A
14445 OLIVE VIEW DRI 14445 OLIVE VIEW DRI LOS ANGELES, CA 91342	CHMIRS OES Incident Number: 08-8234	N/A
OLIVE VIEW HOSPITAL- 14445 OLIVE VIEW DR CALABASAS (UNIN.), CA	LOS ANGELES CO. HMS Facility ID: 012577-I12744	N/A
OLIVE VIEW MEDICAL C 14445 OLIVE VIEW DR SYLMAR, CA 91342	RCRA-LQG EPA ID:: CAD983585324 US AIRS EPA plant ID:: 110008281117 HAZNET GEPAID: CAD983585324	CAD983585324
LOS ANGELES COUNTY/ 14445 OLIVE VIEW DR SYLMAR, CA 91342	HAZNET	N/A

	GEPAID: CAL000163403	
LA CO., OLIVE VIEW/U 14445 OLIVE VIEW DR. SYLMAR, CA 91342	EMI Facility Id: 3093	N/A
OLIVE VIEW MEDICAL C 14445 OLIVE VIEW DRI SYLMAR, CA 91342	FINDS Registry ID:: 110008281117	N/A
OLIVE VIEW MEDICAL C 14445 OLIVE VIEW DR SYLMAR, CA 91342	HAZNET GEPAID: CAC002706866	N/A
COUNTY OF LOS ANGELS 14445 OLIVE VIEW DR LOS ANGELES, CA 91342	HAZNET GEPAID: CAC002640329	N/A
LA CO., OLIVE VIEW/U 14445 OLIVE VIEW DR SYLMAR, CA 91342	SWEEPS UST Status: A Comp Number: 6406 CHMIRS OES Incident Number: 5-2127 EMI Facility Id: 3093 NPDES Facility Status: Terminated	N/A

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL---------- National Priority List

EXECUTIVE SUMMARY

Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL ---------- National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY ---------- Federal Facility Site Information listing
CERCLIS ---------- Comprehensive Environmental Response, Compensation, and Liability Information System

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP ---------- CERCLIS No Further Remedial Action Planned

Federal RCRA CORRACTS facilities list

CORRACTS ---------- Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF ---------- RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-SQG ---------- RCRA - Small Quantity Generators
RCRA-CESQG ---------- RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

LUCIS ---------- Land Use Control Information System
US ENG CONTROLS ---------- Engineering Controls Sites List
US INST CONTROL ---------- Sites with Institutional Controls

Federal ERNS list

ERNS ---------- Emergency Response Notification System

State- and tribal - equivalent NPL

RESPONSE ---------- State Response Sites

State and tribal landfill and/or solid waste disposal site lists

SWF/LF ---------- Solid Waste Information System

State and tribal leaking storage tank lists

INDIAN LUST ---------- Leaking Underground Storage Tanks on Indian Land
SLIC ---------- Statewide SLIC Cases

State and tribal registered storage tank lists

FEMA UST ---------- Underground Storage Tank Listing

AST ---------- Aboveground Petroleum Storage Tank Facilities
INDIAN UST ---------- Underground Storage Tanks on Indian Land

State and tribal voluntary cleanup sites

INDIAN VCP ---------- Voluntary Cleanup Priority Listing
VCP ---------- Voluntary Cleanup Program Properties

State and tribal Brownfields sites

BROWNFIELDS ---------- Considered Brownfieds Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS ---------- A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT ---------- Waste Management Unit Database
SWRCY ---------- Recycler Database
HAULERS ---------- Registered Waste Tire Haulers Listing
INDIAN ODI ---------- Report on the Status of Open Dumps on Indian Lands
ODI ---------- Open Dump Inventory
DEBRIS REGION 9 ---------- Torres Martinez Reservation Illegal Dump Site Locations

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL ---------- National Clandestine Laboratory Register
AOCONCERN ---------- San Gabriel Valley Areas of Concern
HIST Cal-Sites ---------- Historical Calsites Database
SCH ---------- School Property Evaluation Program
CDL ---------- Clandestine Drug Labs
Toxic Pits ---------- Toxic Pits Cleanup Act Sites
US CDL ---------- Clandestine Drug Labs

Local Land Records

LIENS ---------- Environmental Liens Listing
LIENS 2 ---------- CERCLA Lien Information
DEED ---------- Deed Restriction Listing

Records of Emergency Release Reports

HMIRS ---------- Hazardous Materials Information Reporting System
LDS ---------- Land Disposal Sites Listing
MCS ---------- Military Cleanup Sites Listing
SPILLS 90 ---------- SPILLS 90 data from FirstSearch

Other Ascertainable Records

RCRA NonGen / NLR ---------- RCRA - Non Generators / No Longer Regulated
FUDS ---------- Formerly Used Defense Sites

EXECUTIVE SUMMARY

DOD	Department of Defense Sites
SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR	Financial Assurance Information
EPA WATCH LIST	EPA WATCH LIST
2020 COR ACTION	2020 Corrective Action Program List
TSCA	Toxic Substances Control Act
TRIS	Toxic Chemical Release Inventory System
SSTS	Section 7 Tracking Systems
ROD	Records Of Decision
RMP	Risk Management Plans
RAATS	RCRA Administrative Action Tracking System
PRP	Potentially Responsible Parties
PADS	PCB Activity Database System
ICIS	Integrated Compliance Information System
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS	Material Licensing Tracking System
COAL ASH DOE	Steam-Electric Plant Operation Data
COAL ASH EPA	Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER	PCB Transformer Registration Database
RADINFO	Radiation Information Database
HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS	Incident and Accident Data
CONSENT	Superfund (CERCLA) Consent Decrees
INDIAN RESERV	Indian Reservations
UMTRA	Uranium Mill Tailings Sites
LEAD SMELTERS	Lead Smelter Sites
US MINES	Mines Master Index File
CA BOND EXP. PLAN	Bond Expenditure Plan
Cortese	"Cortese" Hazardous Waste & Substances Sites List
CUPA Listings	CUPA Resources List
DRYCLEANERS	Cleaner Facilities
ENF	Enforcement Action Listing
Financial Assurance	Financial Assurance Information Listing
HWP	EnviroStor Permitted Facilities Listing
HWT	Registered Hazardous Waste Transporter Database
MINES	Mines Site Location Listing
MWMP	Medical Waste Management Program Listing
PEST LIC	Pesticide Regulation Licenses Listing
PROC	Certified Processors Database
Notify 65	Proposition 65 Records
LA Co. Site Mitigation	Site Mitigation List
UIC	UIC Listing
WASTEWATER PITS	Oil Wastewater Pits Listing
WDS	Waste Discharge System
WIP	Well Investigation Program Case List

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	EDR Proprietary Manufactured Gas Plants
EDR Hist Cleaner	EDR Exclusive Historic Dry Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF	Recovered Government Archive Solid Waste Facilities List

EXECUTIVE SUMMARY

RGA LUST..... Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

State- and tribal - equivalent CERCLIS

ENVIROSTOR: The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the ENVIROSTOR list, as provided by EDR, and dated 11/07/2015 has revealed that there is 1 ENVIROSTOR site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
CASTLE PRECISION IND Facility Id: 19990045 Status: Refer: 1248 Local Agency	14148 BLEDSOE ST.	0 - 1/8 (0.000 mi.)	15	59

State and tribal leaking storage tank lists

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the State Water Resources Control Board Leaking Underground Storage Tank Information System.

A review of the LUST list, as provided by EDR, and dated 10/21/2015 has revealed that there is 1 LUST site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
LA CO FD FIRE STATIO	***14425 OLIVE VIEW***	***S 0 - 1/8 (0.008 mi.)***	***C20***	***62***

Global ID: T0603705142
Facility Id: R-12544
Status: Leak being confirmed

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Registered Storage Tanks

SWEEPS UST: Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

A review of the SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there are 2 SWEEPS UST sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
FIRE STATION Status: A Tank Status: A Comp Number: 1438	***14425 OLIVE VIEW DR***	***S 0 - 1/8 (0.008 mi.)***	***C18***	***61***
VACANT LOT Comp Number: 7651	***13780 GLADSTONE***	***SE 1/8 - 1/4 (0.164 mi.)***	***23***	***64***

HIST UST: Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there are 2 HIST UST sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
OLIVE VIEW HOSPITAL Facility Id: 00000020708	14501 OLIVE VIEW DR	SW 0 - 1/8 (0.004 mi.)	B17	60
FIRE STATION #46 Facility Id: 00000020636	14425 OLIVE VIEW DR	S 0 - 1/8 (0.008 mi.)	C19	62

CA FID UST: The Facility Inventory Database contains active and inactive underground storage tank locations. The source is the State Water Resource Control Board.

A review of the CA FID UST list, as provided by EDR, and dated 10/31/1994 has revealed that there are 3 CA FID UST sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
LOS ANGELES COUNTY Facility Id: 19056212 Status: A	14443 OLIVE VIEW DR	SSW 0 - 1/8 (0.004 mi.)	B16	60
FIRE STATION	***14425 OLIVE VIEW DR***	***S 0 - 1/8 (0.008 mi.)***	***C18***	***61***

Facility Id: 19050395
Status: A

VACANT LOT	***13780 GLADSTONE***	***SE 1/8 - 1/4 (0.164 mi.)***	***23***	***64***
Facility Id: 19015946 Status: I				

Other Ascertainable Records

HIST CORTESE: The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

A review of the HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there is 1 HIST CORTESE site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
LA CO FD FIRE STATIO	***14425 OLIVE VIEW***	***S 0 - 1/8 (0.008 mi.)***	***C20***	***62***
Reg Id: R-12544				

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR Hist Auto: EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR Hist Auto list, as provided by EDR, has revealed that there are 2 EDR Hist Auto sites within approximately 0.125 miles of the target property.

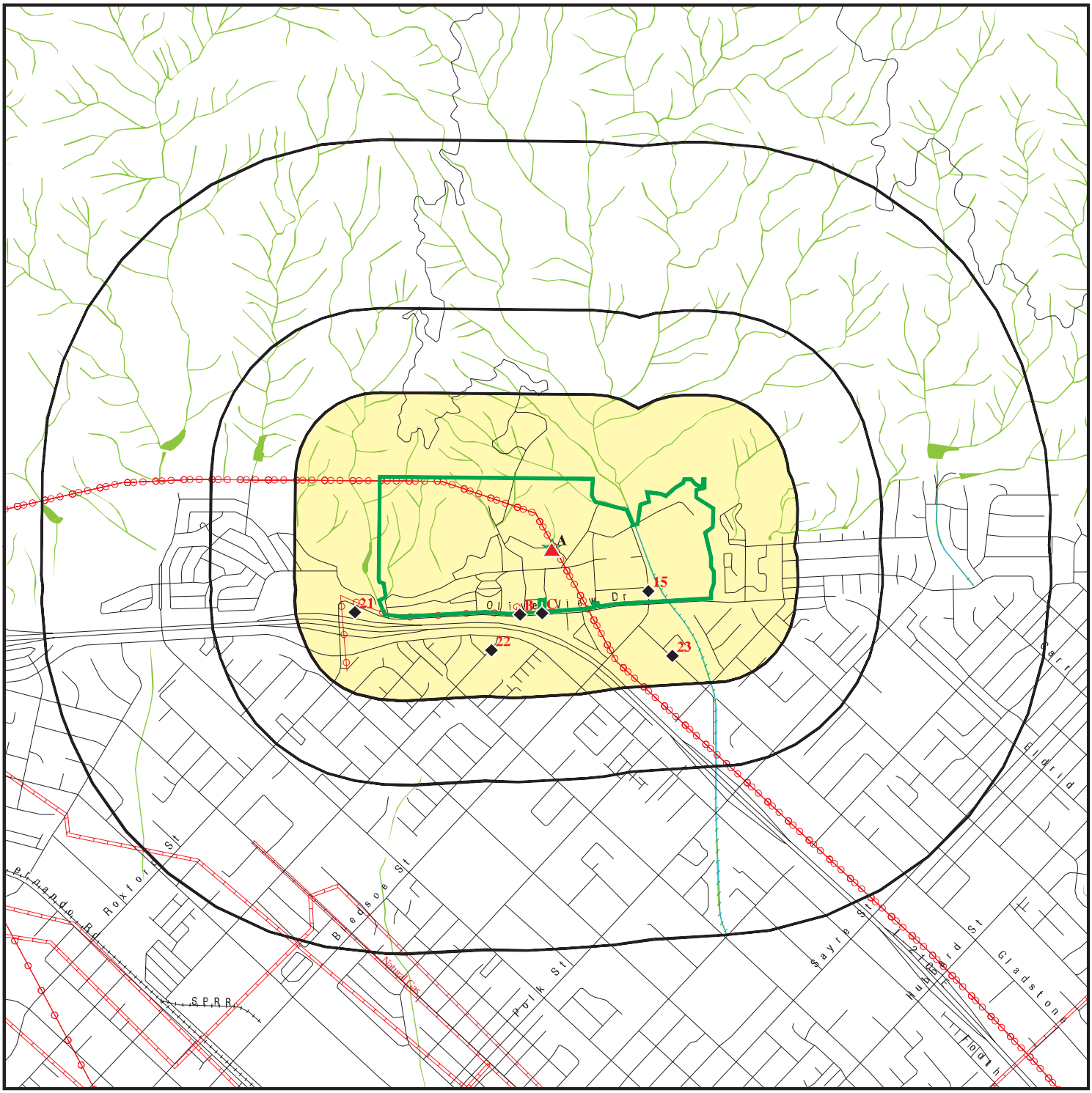
Lower Elevation	Address	Direction / Distance	Map ID	Page
Not reported	15000 OLIVE VIEW DR	WSW 0 - 1/8 (0.079 mi.)	21	64
Not reported	14682 COBALT ST	SSW 0 - 1/8 (0.113 mi.)	22	64

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 4 records.

Site Name	Database(s)
	CDL
	CDL
	CDL
VALLEY REGION SPAN K-8 #1	ENVIROSTOR, SCH

OVERVIEW MAP - 4518850.2S



0 1/4 1/2 1 Miles

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- Pipelines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Olive View-UCLA Med Center	CLIENT: Ninyo & Moore
ADDRESS: 14445 Olive View Drive Sylmar CA 91342	CONTACT: Patrick Cullip
LAT/LONG: 34.326893 / 118.449283	INQUIRY #: 4518850.2s DATE: January 22, 2016 11:28 am

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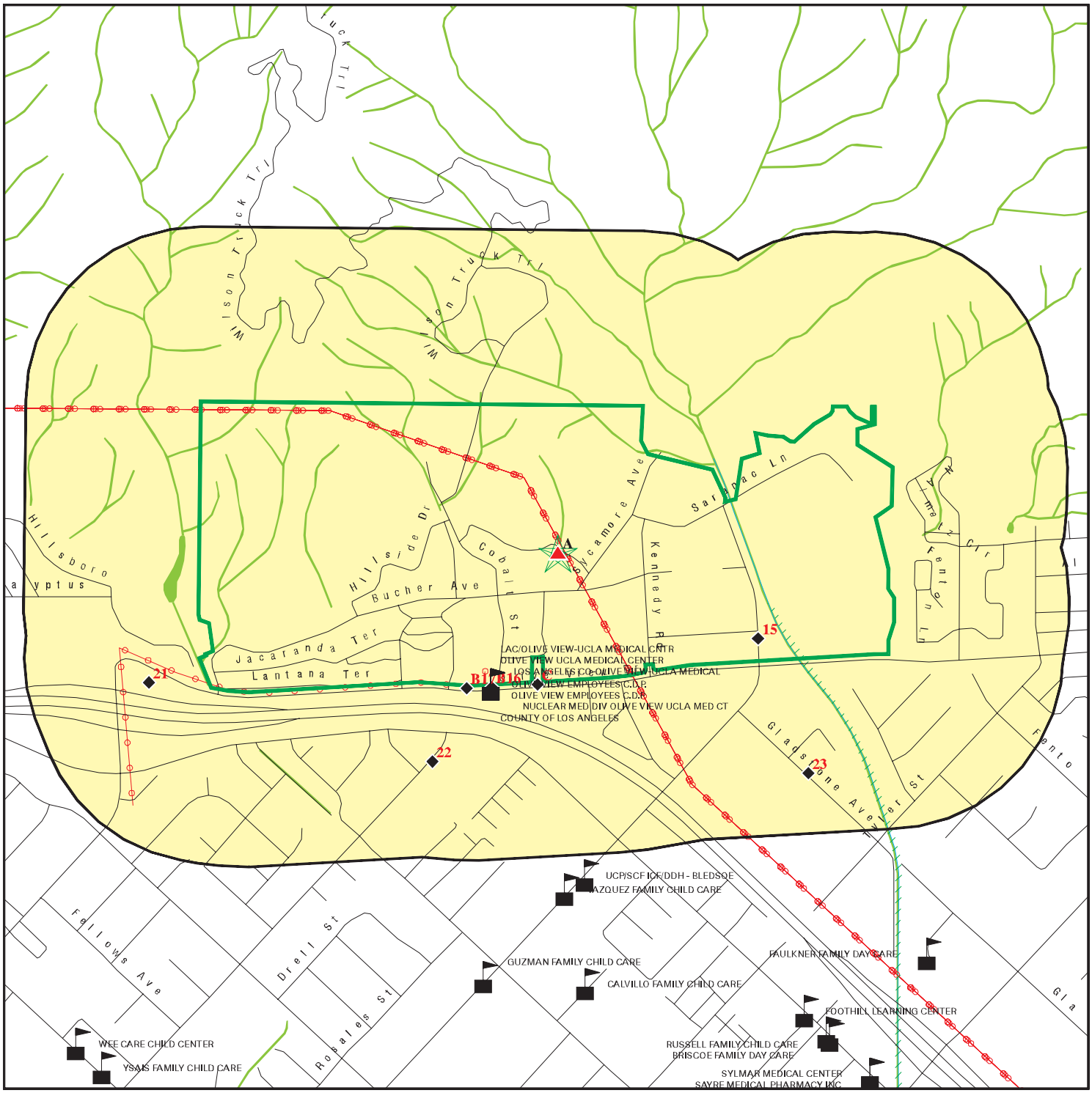
DETAIL MAP - 4518850.2S



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Olive View-UCLA Med Center ADDRESS: 14445 Olive View Drive Sylmar CA 91342 LAT/LONG: 34.326893 / 118.449283	CLIENT: Ninyo & Moore CONTACT: Patrick Cullip INQUIRY #: 4518850.2s DATE: January 22, 2016 11:30 am

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
CERCLIS	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site List								
CERCLIS-NFRAP	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250	1	0	0	NR	NR	NR	1
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equivalent NPL								
RESPONSE	1.000		0	0	0	0	NR	0
State- and tribal - equivalent CERCLIS								
ENVIROSTOR	1.000		1	0	0	0	NR	1
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
LUST	0.500		1	0	0	NR	NR	1

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST	0.500		0	0	0	NR	NR	0
SLIC	0.500		0	0	0	NR	NR	0
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250	1	0	0	NR	NR	NR	1
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
WMUDS/SWAT	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
HAULERS	TP		NR	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
AOCONCERN	1.000		0	0	0	0	NR	0
HIST Cal-Sites	1.000		0	0	0	0	NR	0
SCH	0.250		0	0	NR	NR	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
Toxic Pits	1.000		0	0	0	0	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
SWEEPS UST	0.250	1	1	1	NR	NR	NR	3
HIST UST	0.250		2	0	NR	NR	NR	2
CA FID UST	0.250		2	1	NR	NR	NR	3
Local Land Records								
LIENS	TP		NR	NR	NR	NR	NR	0
LIENS 2	TP		NR	NR	NR	NR	NR	0
DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
CHMIRS	TP	2	NR	NR	NR	NR	NR	2
LDS	TP		NR	NR	NR	NR	NR	0
MCS	TP		NR	NR	NR	NR	NR	0
SPILLS 90	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP	1	NR	NR	NR	NR	NR	1
US MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP	1	NR	NR	NR	NR	NR	1
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
Cortese	0.500		0	0	0	NR	NR	0
CUPA Listings	0.250		0	0	NR	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
EMI	TP	2	NR	NR	NR	NR	NR	2
ENF	TP		NR	NR	NR	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
HAZNET	TP	7	NR	NR	NR	NR	NR	7
HIST CORTESE	0.500		1	0	0	NR	NR	1
LOS ANGELES CO. HMS	TP	2	NR	NR	NR	NR	NR	2
HWP	1.000		0	0	0	0	NR	0
HWT	0.250		0	0	NR	NR	NR	0
MINES	TP		NR	NR	NR	NR	NR	0
MWMP	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
NPDES	TP	1	NR	NR	NR	NR	NR	1
PEST LIC	TP		NR	NR	NR	NR	NR	0
PROC	0.500		0	0	0	NR	NR	0
Notify 65	1.000		0	0	0	0	NR	0
LA Co. Site Mitigation	TP		NR	NR	NR	NR	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
WASTEWATER PITS	0.500		0	0	0	NR	NR	0
WDS	TP		NR	NR	NR	NR	NR	0
WIP	0.250		0	0	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		2	NR	NR	NR	NR	2
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA LF	TP		NR	NR	NR	NR	NR	0
RGA LUST	TP		NR	NR	NR	NR	NR	0
- Totals --		19	10	2	0	0	0	31

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1 **LA CO FMD OLIVE VIEW HOSP** **LOS ANGELES CO. HMS** **S102062941**
Target Property **14445 OLIVE VIEW DR** **N/A**
CALABASAS (UNIN.), CA

Site 1 of 14 in cluster A

Actual: 1482 ft.

LOS ANGELES CO. HMS:
Region: LA
Facility Id: 012577-012744
Facility Type: Not reported
Facility Status: OPEN
Area: 5
Permit Number: Not reported
Permit Status: Not reported

A2 **LOS ANGELES COUNTY** **UST** **U003781188**
Target Property **14445 OLIVE VIEW DR** **N/A**
SYLMAR, CA 91342

Site 2 of 14 in cluster A

Actual: 1482 ft.

UST:
Facility ID: 24841
Permitting Agency: LOS ANGELES, CITY OF
Latitude: 34.3270574
Longitude: -118.4444271

A3 **NALCO** **HAZNET** **S112881894**
Target Property **14445 OLIVE VIEW DR** **N/A**
SYLMAR, CA 91342

Site 3 of 14 in cluster A

Actual: 1482 ft.

HAZNET:
envid: S112881894
Year: 1999
GEPAID: CAC001316768
Contact: NALCO
Telephone: 6303051982
Mailing Name: Not reported
Mailing Address: ONE NALCO CENTER
Mailing City,St,Zip: NAPERVILLE, IL 605630000
Gen County: Not reported
TSD EPA ID: CAD028409019
TSD County: Not reported
Waste Category: Other inorganic solid waste
Disposal Method: Not reported
Tons: .1750
Cat Decode: Other inorganic solid waste
Method Decode: Not reported
Facility County: Los Angeles

envid: S112881894
Year: 1999
GEPAID: CAC001316768
Contact: NALCO
Telephone: 6303051982
Mailing Name: Not reported

NALCO (Continued) **S112881894**

Mailing Address:	ONE NALCO CENTER
Mailing City,St,Zip:	NAPERVILLE, IL 605630000
Gen County:	Not reported
TSD EPA ID:	CAD028409019
TSD County:	Not reported
Waste Category:	Other inorganic solid waste
Disposal Method:	Transfer Station
Tons:	.1750
Cat Decode:	Other inorganic solid waste
Method Decode:	Transfer Station
Facility County:	Los Angeles

A4 **PSYCHIATRIC URGENT CARE CENTER OLIVE VIEW MEDICAL CENTER** **HAZNET** **S113458352**
Target **14445 OLIVE VIEW DR** **N/A**
Property **SYLMAR, CA 91342**

Site 4 of 14 in cluster A

Actual:
1482 ft.

HAZNET:

envid:	S113458352
Year:	2010
GEPAID:	CAC002650276
Contact:	PARISA DADMEHR
Telephone:	8185814915
Mailing Name:	Not reported
Mailing Address:	900 S FREMONT AVE
Mailing City,St,Zip:	ALHAMBRA, CA 91803
Gen County:	Not reported
TSD EPA ID:	AZC950823111
TSD County:	Not reported
Waste Category:	Asbestos containing waste
Disposal Method:	Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons:	16
Cat Decode:	Asbestos containing waste
Method Decode:	Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization
Facility County:	Los Angeles

A5 **OLIVE VIEW UCLA MED CTR** **HAZNET** **S113079432**
Target **14445 OLIVE VIEW DR** **N/A**
Property **SYLMAR, CA 91342**

Site 5 of 14 in cluster A

Actual:
1482 ft.

HAZNET:

envid:	S113079432
Year:	2010
GEPAID:	CAL000144653
Contact:	SERGEY BAZLOR
Telephone:	8183644610
Mailing Name:	Not reported
Mailing Address:	14445 OLIVE VIEW DR BUNGALOW I
Mailing City,St,Zip:	SYLMAR, CA 913421437
Gen County:	Not reported
TSD EPA ID:	AZC950823111
TSD County:	Not reported

OLIVE VIEW UCLA MED CTR (Continued) **S113079432**

Waste Category:	Other inorganic solid waste
Disposal Method:	Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons:	71.638
Cat Decode:	Other inorganic solid waste
Method Decode:	Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization
Facility County:	Los Angeles

envid:	S113079432
Year:	2010
GEPAID:	CAL000144653
Contact:	SERGEY BAZLOR
Telephone:	8183644610
Mailing Name:	Not reported
Mailing Address:	14445 OLIVE VIEW DR BUNGALOW I
Mailing City,St,Zip:	SYLMAR, CA 913421437
Gen County:	Not reported
TSD EPA ID:	CAD028409019
TSD County:	Not reported
Waste Category:	Other organic solids
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.925
Cat Decode:	Other organic solids
Method Decode:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	Los Angeles

envid:	S113079432
Year:	2009
GEPAID:	CAL000144653
Contact:	SERGEY BAZLOR
Telephone:	8183644610
Mailing Name:	Not reported
Mailing Address:	14445 OLIVE VIEW DR BUNGALOW I
Mailing City,St,Zip:	SYLMAR, CA 913421437
Gen County:	Not reported
TSD EPA ID:	CAD009007626
TSD County:	Not reported
Waste Category:	Asbestos containing waste
Disposal Method:	Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons:	198.8
Cat Decode:	Asbestos containing waste
Method Decode:	Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization
Facility County:	Los Angeles

envid:	S113079432
Year:	2009
GEPAID:	CAL000144653
Contact:	SERGEY BAZLOR
Telephone:	8183644610
Mailing Name:	Not reported
Mailing Address:	14445 OLIVE VIEW DR BUNGALOW I
Mailing City,St,Zip:	SYLMAR, CA 913421437
Gen County:	Not reported
TSD EPA ID:	CAT000646117
TSD County:	Not reported

OLIVE VIEW UCLA MED CTR (Continued) **S113079432**

Waste Category:	Other inorganic solid waste
Disposal Method:	Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons:	67.424
Cat Decode:	Other inorganic solid waste
Method Decode:	Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization
Facility County:	Los Angeles
envid:	S113079432
Year:	2008
GEPAID:	CAL000144653
Contact:	SERGEY BAZLOR
Telephone:	8183644610
Mailing Name:	Not reported
Mailing Address:	14445 OLIVE VIEW DR BUNGALOW I
Mailing City,St,Zip:	SYLMAR, CA 913421437
Gen County:	Not reported
TSD EPA ID:	CAD028409019
TSD County:	Not reported
Waste Category:	Other inorganic solid waste
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.025
Cat Decode:	Other inorganic solid waste
Method Decode:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	Los Angeles

Click this hyperlink while viewing on your computer to access
2 additional CA_HAZNET: record(s) in the EDR Site Report.

A6 **CHMIRS** **S110418148**
Target Property **14445 OLIVE VIEW DRIVE** **N/A**
LOS ANGELES, CA 91342

Site 6 of 14 in cluster A

Actual: 1482 ft.

CHMIRS:

OES Incident Number:	08-8234
OES notification:	11/15/2008
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported

(Continued) **S110418148**

Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Merchant/Business
Cleanup By:	Unknown
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Gal(s)
Other:	Not reported
Date/Time:	0455
Year:	2008
Agency:	LA County Fire
Incident Date:	11/15/2008
Admin Agency:	Los Angeles City Fire Department
Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	UNK PESTICIDES & HERBICIDES
Quantity Released:	200 - 300
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	RP States: A fire caused the release of the materials onto the ground. Several lockers with rounds of ammunition. Release was a result of the Sayre Fire.

A7 **OLIVE VIEW HOSPITAL-CLOSED FIL** **LOS ANGELES CO. HMS** **U003064715**
Target **14445 OLIVE VIEW DR** **N/A**
Property **CALABASAS (UNIN.), CA**

Site 7 of 14 in cluster A

Actual:
1482 ft.

LOS ANGELES CO. HMS:
Region: LA
Facility Id: 012577-I12744
Facility Type: IS4
Facility Status: Closed
Area: 5
Permit Number: 000553465
Permit Status: Closed

A8 **OLIVE VIEW MEDICAL CTR LOS ANGELES CNTY** **RCRA-LQG** **1000594673**
Target **14445 OLIVE VIEW DR** **US AIRS** **CAD983585324**
Property **SYLMAR, CA 91342** **HAZNET**

Site 8 of 14 in cluster A

Actual:
1482 ft.

RCRA-LQG:
Date form received by agency: 08/29/2013
Facility name: OLIVE VIEW MEDICAL CTR LOS ANGELES CNTY
Facility address: 14445 OLIVE VIEW DR
SYLMAR, CA 91342
EPA ID: CAD983585324
Contact: FRANK COLBERT
Contact address: 14445 OLIVE VIEW DR SAFETY OFFICE BLDG I
SYLMAR, CA 91342
Contact country: US
Contact telephone: 818-364-3405
Contact email: Not reported
EPA Region: 09
Classification: Large Quantity Generator
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:
Owner/operator name: LA COUNTY
Owner/operator address: Not reported
Not reported
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: County
Owner/Operator Type: Operator
Owner/Op start date: 01/01/1959
Owner/Op end date: Not reported

OLIVE VIEW MEDICAL CTR LOS ANGELES CNTY (Continued) **1000594673**

Owner/operator name: LA COUNTY
Owner/operator address: 14445 OLIVE VIEW DR SAFETY OFFICE BLDG I
SYLMAR, CA 91342
Owner/operator country: US
Owner/operator telephone: 818-364-3405
Legal status: County
Owner/Operator Type: Owner
Owner/Op start date: 01/01/1959
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): Yes
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: 134
. Waste name: 134

. Waste code: 181
. Waste name: 181

. Waste code: 331
. Waste name: 331

. Waste code: 343
. Waste name: 343

. Waste code: 352
. Waste name: 352

. Waste code: 551
. Waste name: 551

. Waste code: 725
. Waste name: 725

. Waste code: 741
. Waste name: 741

. Waste code: 791
. Waste name: 791

. Waste code: 792
. Waste name: 792

OLIVE VIEW MEDICAL CTR LOS ANGELES CNTY (Continued) **1000594673**

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D009
. Waste name: MERCURY

Historical Generators:
Date form received by agency: 09/01/1996
Site name: OLIVE VIEW MED CTR LA CO
Classification: Large Quantity Generator

Date form received by agency: 09/01/1996
Site name: OLIVE VIEW MED CTR LA CO
Classification: Small Quantity Generator

Date form received by agency: 05/29/1991
Site name: OLIVE VIEW MED CTR LA CO
Classification: Small Quantity Generator

Violation Status: No violations found

US AIRS (AFS):
Envid: 1000594673
Region Code: 09
County Code: CA037
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
D and B Number: Not reported
Facility Site Name: LA CO-OLIVE VIEW/UCLA MEDICAL CENTER
Primary SIC Code: 8011
NAICS Code: 622110
Default Air Classification Code: MAJ
Facility Type of Ownership Code: CNG
Air CMS Category Code: TVM
HPV Status: Not reported

US AIRS (AFS):
Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: Not reported
Activity Status Date: 2012-03-14 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

OLIVE VIEW MEDICAL CTR LOS ANGELES CNTY (Continued) **1000594673**

Activity Date: 2015-04-30 00:00:00
Activity Status Date: 2015-07-30 13:55:48
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2015-04-30 00:00:00
Activity Status Date: 2015-07-30 14:03:45
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1992-10-20 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1996-10-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1997-05-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117

OLIVE VIEW MEDICAL CTR LOS ANGELES CNTY (Continued) **1000594673**

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1998-02-13 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1999-09-23 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2000-10-11 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2002-03-02 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2002-03-06 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

OLIVE VIEW MEDICAL CTR LOS ANGELES CNTY (Continued) **1000594673**

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2002-09-29 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2002-09-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2004-02-04 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2004-08-03 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2005-02-09 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

OLIVE VIEW MEDICAL CTR LOS ANGELES CNTY (Continued) **1000594673**

Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2005-05-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2005-08-16 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2006-02-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2006-05-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

OLIVE VIEW MEDICAL CTR LOS ANGELES CNTY (Continued) **1000594673**

Activity Date: 2006-07-05 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2006-07-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2006-08-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2007-01-22 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2007-05-02 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117

OLIVE VIEW MEDICAL CTR LOS ANGELES CNTY (Continued) **1000594673**

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2007-05-04 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2007-12-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2008-02-06 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2008-02-29 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2008-07-11 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

OLIVE VIEW MEDICAL CTR LOS ANGELES CNTY (Continued) **1000594673**

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2008-07-20 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2009-01-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2009-04-03 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2009-06-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2009-07-14 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

OLIVE VIEW MEDICAL CTR LOS ANGELES CNTY (Continued) **1000594673**

Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2009-07-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-02-02 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-04-07 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-04-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

OLIVE VIEW MEDICAL CTR LOS ANGELES CNTY (Continued) **1000594673**

Activity Date: 2010-04-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-07-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-07-09 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-02-09 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-06-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117

OLIVE VIEW MEDICAL CTR LOS ANGELES CNTY (Continued) **1000594673**

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-06-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-07-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-12-04 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-12-07 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2012-02-08 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

OLIVE VIEW MEDICAL CTR LOS ANGELES CNTY (Continued) **1000594673**

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2012-02-10 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2012-03-07 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2012-03-08 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2013-06-05 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2013-11-12 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

OLIVE VIEW MEDICAL CTR LOS ANGELES CNTY (Continued) **1000594673**

Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2014-02-05 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2014-05-20 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2014-06-05 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2014-06-06 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

OLIVE VIEW MEDICAL CTR LOS ANGELES CNTY (Continued) **1000594673**

Activity Date: 2011-11-22 00:00:00
Activity Status Date: 2011-11-22 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-07-27 00:00:00
Activity Status Date: 2011-07-27 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: Not reported
Activity Status Date: 2002-07-02 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: Not reported
Activity Status Date: 2003-08-07 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: Not reported
Activity Status Date: 2012-03-14 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117

OLIVE VIEW MEDICAL CTR LOS ANGELES CNTY (Continued) **1000594673**

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2014-09-07 00:00:00
Activity Status Date: 2015-07-30 14:02:58
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2014-11-06 00:00:00
Activity Status Date: 2015-07-30 14:01:21
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2015-01-06 00:00:00
Activity Status Date: 2015-07-30 13:57:04
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2015-04-30 00:00:00
Activity Status Date: 2015-07-30 13:55:48
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2015-04-30 00:00:00
Activity Status Date: 2015-07-30 14:03:45
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

OLIVE VIEW MEDICAL CTR LOS ANGELES CNTY (Continued) **1000594673**

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 1998-02-13 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 1999-09-23 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2000-10-11 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2002-03-02 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2002-03-06 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

OLIVE VIEW MEDICAL CTR LOS ANGELES CNTY (Continued) **1000594673**

Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2002-09-29 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2002-09-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2003-03-26 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2003-08-13 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits

OLIVE VIEW MEDICAL CTR LOS ANGELES CNTY (Continued) **1000594673**

Activity Date: 2004-02-04 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2004-08-03 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2005-02-09 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2005-05-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2005-08-16 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117

OLIVE VIEW MEDICAL CTR LOS ANGELES CNTY (Continued) **1000594673**

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2006-02-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2006-05-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2006-07-05 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2006-07-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2006-08-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

OLIVE VIEW MEDICAL CTR LOS ANGELES CNTY (Continued) **1000594673**

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2007-01-22 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2007-05-02 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2007-05-04 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2007-12-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2008-02-06 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

OLIVE VIEW MEDICAL CTR LOS ANGELES CNTY (Continued) **1000594673**

Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2008-02-29 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2008-07-11 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2008-07-20 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2009-01-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits

OLIVE VIEW MEDICAL CTR LOS ANGELES CNTY (Continued) **1000594673**

Activity Date: 2009-04-03 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2009-06-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2009-07-14 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2009-07-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-02-02 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117

OLIVE VIEW MEDICAL CTR LOS ANGELES CNTY (Continued) **1000594673**

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-04-07 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-04-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-04-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-07-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-07-09 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

OLIVE VIEW MEDICAL CTR LOS ANGELES CNTY (Continued) **1000594673**

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-02-09 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-06-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-06-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-07-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-12-04 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

OLIVE VIEW MEDICAL CTR LOS ANGELES CNTY (Continued) **1000594673**

Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-12-07 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-02-08 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-02-10 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-03-07 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits

OLIVE VIEW MEDICAL CTR LOS ANGELES CNTY (Continued) **1000594673**

Activity Date: 2012-03-08 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2013-01-09 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2013-06-04 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2013-06-05 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2013-11-12 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117

OLIVE VIEW MEDICAL CTR LOS ANGELES CNTY (Continued) **1000594673**

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2014-02-05 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2014-05-20 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2014-06-05 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2014-06-06 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2002-05-16 00:00:00
Activity Status Date: 2002-05-16 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

OLIVE VIEW MEDICAL CTR LOS ANGELES CNTY (Continued) **1000594673**

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2003-06-24 00:00:00
Activity Status Date: 2003-06-24 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-11-22 00:00:00
Activity Status Date: 2011-11-22 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2002-03-06 00:00:00
Activity Status Date: 2002-03-06 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2003-04-10 00:00:00
Activity Status Date: 2003-04-10 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA00006037C0066
Facility Registry ID: 110008281117
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-07-27 00:00:00
Activity Status Date: 2011-07-27 00:00:00
Activity Group: Enforcement Action

OLIVE VIEW MEDICAL CTR LOS ANGELES CNTY (Continued) **1000594673**

Activity Type: Administrative - Informal
Activity Status: Achieved

HAZNET:

envid:	1000594673
Year:	2013
GEPAID:	CAD983585324
Contact:	FRANK COLBERT
Telephone:	8183643405
Mailing Name:	Not reported
Mailing Address:	14445 OLIVE VIEW DR
Mailing City,St,Zip:	SYLMAR, CA 913420000
Gen County:	Los Angeles
TSD EPA ID:	NVT330010000
TSD County:	99
Waste Category:	Not reported
Disposal Method:	Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	0.1435
Cat Decode:	Not reported
Method Decode:	Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Facility County:	Not reported

envid:	1000594673
Year:	2013
GEPAID:	CAD983585324
Contact:	FRANK COLBERT
Telephone:	8183643405
Mailing Name:	Not reported
Mailing Address:	14445 OLIVE VIEW DR
Mailing City,St,Zip:	SYLMAR, CA 913420000
Gen County:	Los Angeles
TSD EPA ID:	NVT330010000
TSD County:	99
Waste Category:	Not reported
Disposal Method:	Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons:	1.564
Cat Decode:	Not reported
Method Decode:	Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization
Facility County:	Not reported

envid:	1000594673
Year:	2013
GEPAID:	CAD983585324
Contact:	FRANK COLBERT
Telephone:	8183643405
Mailing Name:	Not reported
Mailing Address:	14445 OLIVE VIEW DR
Mailing City,St,Zip:	SYLMAR, CA 913420000
Gen County:	Los Angeles
TSD EPA ID:	NVT330010000
TSD County:	99
Waste Category:	Not reported
Disposal Method:	Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)

OLIVE VIEW MEDICAL CTR LOS ANGELES CNTY (Continued) **1000594673**

Tons: 0.316
Cat Decode: Not reported
Method Decode: Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization
Facility County: Not reported

envid: 1000594673
Year: 2013
GEPAID: CAD983585324
Contact: FRANK COLBERT
Telephone: 8183643405
Mailing Name: Not reported
Mailing Address: 14445 OLIVE VIEW DR
Mailing City,St,Zip: SYLMAR, CA 913420000
Gen County: Los Angeles
TSD EPA ID: CAT080013352
TSD County: Los Angeles
Waste Category: Not reported
Disposal Method: Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 0.152
Cat Decode: Not reported
Method Decode: Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Facility County: Not reported

envid: 1000594673
Year: 2013
GEPAID: CAD983585324
Contact: FRANK COLBERT
Telephone: 8183643405
Mailing Name: Not reported
Mailing Address: 14445 OLIVE VIEW DR
Mailing City,St,Zip: SYLMAR, CA 913420000
Gen County: Los Angeles
TSD EPA ID: CAD008252405
TSD County: Los Angeles
Waste Category: Not reported
Disposal Method: Fuel Blending Prior To Energy Recovery At Another Site
Tons: 0.065
Cat Decode: Not reported
Method Decode: Fuel Blending Prior To Energy Recovery At Another Site
Facility County: Not reported

Click this hyperlink while viewing on your computer to access
765 additional CA_HAZNET: record(s) in the EDR Site Report.

A9 **LOS ANGELES COUNTY/ ISD** **HAZNET** **S113087512**
Target **14445 OLIVE VIEW DR** **N/A**
Property **SYLMAR, CA 91342**

Site 9 of 14 in cluster A

Actual:
1482 ft.

HAZNET:
envid: S113087512
Year: 2014
GEPAID: CAL000163403
Contact: HARRY PARRA
Telephone: 3237933260
Mailing Name: Not reported

LOS ANGELES COUNTY/ ISD (Continued) **S113087512**

Mailing Address:	1100 N EASTERN AVE RM 119
Mailing City,St,Zip:	LOS ANGELES, CA 900633200
Gen County:	Los Angeles
TSD EPA ID:	CAT080013352
TSD County:	Los Angeles
Waste Category:	Waste oil and mixed oil
Disposal Method:	Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	0.608
Cat Decode:	Waste oil and mixed oil
Method Decode:	Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Facility County:	Los Angeles

envid:	S113087512
Year:	2014
GEPAID:	CAL000163403
Contact:	HARRY PARRA
Telephone:	3237933260
Mailing Name:	Not reported
Mailing Address:	1100 N EASTERN AVE RM 119
Mailing City,St,Zip:	LOS ANGELES, CA 900633200
Gen County:	Los Angeles
TSD EPA ID:	NVT330010000
TSD County:	99
Waste Category:	Other organic solids
Disposal Method:	Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons:	0.355
Cat Decode:	Other organic solids
Method Decode:	Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization
Facility County:	Los Angeles

envid:	S113087512
Year:	2013
GEPAID:	CAL000163403
Contact:	HARRY PARRA
Telephone:	3237933260
Mailing Name:	Not reported
Mailing Address:	1100 N EASTERN AVE RM 119
Mailing City,St,Zip:	LOS ANGELES, CA 900633200
Gen County:	Los Angeles
TSD EPA ID:	NVT330010000
TSD County:	99
Waste Category:	Not reported
Disposal Method:	Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	0.055
Cat Decode:	Not reported
Method Decode:	Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Facility County:	Not reported

envid:	S113087512
Year:	2013
GEPAID:	CAL000163403
Contact:	HARRY PARRA
Telephone:	3237933260
Mailing Name:	Not reported

LOS ANGELES COUNTY/ ISD (Continued) **S113087512**

Mailing Address:	1100 N EASTERN AVE RM 119
Mailing City,St,Zip:	LOS ANGELES, CA 900633200
Gen County:	Los Angeles
TSD EPA ID:	CAD008252405
TSD County:	Los Angeles
Waste Category:	Not reported
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.02
Cat Decode:	Not reported
Method Decode:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	Not reported

envid:	S113087512
Year:	2013
GEPAID:	CAL000163403
Contact:	HARRY PARRA
Telephone:	3237933260
Mailing Name:	Not reported
Mailing Address:	1100 N EASTERN AVE RM 119
Mailing City,St,Zip:	LOS ANGELES, CA 900633200
Gen County:	Los Angeles
TSD EPA ID:	CAT080013352
TSD County:	Los Angeles
Waste Category:	Not reported
Disposal Method:	Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	0.22935
Cat Decode:	Not reported
Method Decode:	Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Facility County:	Not reported

Click this hyperlink while viewing on your computer to access
8 additional CA_HAZNET: record(s) in the EDR Site Report.

A10 **LA CO., OLIVE VIEW/UCLA MEDICAL CENTER** **EMI** **S109281882**
Target **14445 OLIVE VIEW DR.** **N/A**
Property **SYLMAR, CA 91342**

Site 10 of 14 in cluster A

Actual:
1482 ft.

EMI:

Year:	2002
County Code:	19
Air Basin:	SC
Facility ID:	3093
Air District Name:	SC
SIC Code:	8062
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	65
Reactive Organic Gases Tons/Yr:	8
Carbon Monoxide Emissions Tons/Yr:	4
NOX - Oxides of Nitrogen Tons/Yr:	14
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	2
Part. Matter 10 Micrometers & Smllr Tons/Yr:	2

LA CO., OLIVE VIEW/UCLA MEDICAL CENTER (Continued) **S109281882**

Year:	2003
County Code:	19
Air Basin:	SC
Facility ID:	3093
Air District Name:	SC
SIC Code:	8062
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	65
Reactive Organic Gases Tons/Yr:	8
Carbon Monoxide Emissions Tons/Yr:	4
NOX - Oxides of Nitrogen Tons/Yr:	14
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	2
Part. Matter 10 Micrometers & Smllr Tons/Yr:	2

Year:	2004
County Code:	19
Air Basin:	SC
Facility ID:	3093
Air District Name:	SC
SIC Code:	8062
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Y
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	64.652257
Reactive Organic Gases Tons/Yr:	8.32
Carbon Monoxide Emissions Tons/Yr:	3.77692
NOX - Oxides of Nitrogen Tons/Yr:	13.6238
SOX - Oxides of Sulphur Tons/Yr:	0.091268
Particulate Matter Tons/Yr:	1.96566
Part. Matter 10 Micrometers & Smllr Tons/Yr:	1.95

Year:	2005
County Code:	19
Air Basin:	SC
Facility ID:	3093
Air District Name:	SC
SIC Code:	8062
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1.63577
Reactive Organic Gases Tons/Yr:	1.373367604
Carbon Monoxide Emissions Tons/Yr:	4.43575
NOX - Oxides of Nitrogen Tons/Yr:	12.5284
SOX - Oxides of Sulphur Tons/Yr:	.43176
Particulate Matter Tons/Yr:	.89147
Part. Matter 10 Micrometers & Smllr Tons/Yr:	.8851088

Year:	2006
County Code:	19
Air Basin:	SC
Facility ID:	3093
Air District Name:	SC
SIC Code:	8062

LA CO., OLIVE VIEW/UCLA MEDICAL CENTER (Continued) **S109281882**

Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	5.681359288318271029
Reactive Organic Gases Tons/Yr:	2.349
Carbon Monoxide Emissions Tons/Yr:	5.55
NOX - Oxides of Nitrogen Tons/Yr:	15.843
SOX - Oxides of Sulphur Tons/Yr:	.552
Particulate Matter Tons/Yr:	1.115
Part. Matter 10 Micrometers & Smllr Tons/Yr:	1.10861

Year:	2007
County Code:	19
Air Basin:	SC
Facility ID:	3093
Air District Name:	SC
SIC Code:	8062
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	5.681359288318271029
Reactive Organic Gases Tons/Yr:	2.349
Carbon Monoxide Emissions Tons/Yr:	5.55
NOX - Oxides of Nitrogen Tons/Yr:	15.843
SOX - Oxides of Sulphur Tons/Yr:	.552
Particulate Matter Tons/Yr:	1.115
Part. Matter 10 Micrometers & Smllr Tons/Yr:	1.10861

Year:	2008
County Code:	19
Air Basin:	SC
Facility ID:	3093
Air District Name:	SC
SIC Code:	8062
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	8.776727475374679803
Reactive Organic Gases Tons/Yr:	8.33028
Carbon Monoxide Emissions Tons/Yr:	1.1814
NOX - Oxides of Nitrogen Tons/Yr:	2.0952
SOX - Oxides of Sulphur Tons/Yr:	.060719
Particulate Matter Tons/Yr:	3.3003
Part. Matter 10 Micrometers & Smllr Tons/Yr:	2.360745

Year:	2012
County Code:	19
Air Basin:	SC
Facility ID:	3093
Air District Name:	SC
SIC Code:	8062
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.45489772038
Reactive Organic Gases Tons/Yr:	0.11203
Carbon Monoxide Emissions Tons/Yr:	0.75492

LA CO., OLIVE VIEW/UCLA MEDICAL CENTER (Continued) **S109281882**

NOX - Oxides of Nitrogen Tons/Yr:	1.98756
SOX - Oxides of Sulphur Tons/Yr:	0.0526
Particulate Matter Tons/Yr:	2.02691
Part. Matter 10 Micrometers & Smllr Tons/Yr:	1.46057626
Year:	2013
County Code:	19
Air Basin:	SC
Facility ID:	3093
Air District Name:	SC
SIC Code:	8062
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	11.383190326
Reactive Organic Gases Tons/Yr:	8.14681
Carbon Monoxide Emissions Tons/Yr:	5.81846
NOX - Oxides of Nitrogen Tons/Yr:	15.7558
SOX - Oxides of Sulphur Tons/Yr:	0.52556
Particulate Matter Tons/Yr:	2.99912
Part. Matter 10 Micrometers & Smllr Tons/Yr:	2.42717918

A11 **OLIVE VIEW MEDICAL CENTER LA COUNTY** **FINDS** **1016060465**
Target **14445 OLIVE VIEW DRIVE** **N/A**
Property **SYLMAR, CA 91342**

Site 11 of 14 in cluster A

Actual:
1482 ft.

FINDS:

Registry ID: 110008281117

Environmental Interest/Information System

AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

HAZARDOUS AIR POLLUTANT MAJOR

OLIVE VIEW MEDICAL CENTER LA COUNTY (Continued) **1016060465**

US Emissions & Generation Resource Database (EGRID) contains data on emissions and resource mix for virtually every power plant and company that generates electricity in the United States.

AIR MAJOR

ELECTRIC GENERATOR

A12 **OLIVE VIEW MEDICAL CENTER** **HAZNET** **S113789566**
Target **14445 OLIVE VIEW DR** **N/A**
Property **SYLMAR, CA 91342**

Site 12 of 14 in cluster A

Actual: 1482 ft.

HAZNET:

envid:	S113789566
Year:	2012
GEPAID:	CAC002706866
Contact:	YASMIN ESTRADA
Telephone:	9099232704
Mailing Name:	Not reported
Mailing Address:	1490 S VINEYARD AVE STE E
Mailing City,St,Zip:	ONTARIO, CA 917618043
Gen County:	Los Angeles
TSD EPA ID:	AZC950823111
TSD County:	99
Waste Category:	Not reported
Disposal Method:	Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons:	16
Cat Decode:	Not reported
Method Decode:	Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization
Facility County:	Los Angeles

A13 **COUNTY OF LOS ANGELS DEPT WEIGHT MEASURE** **HAZNET** **S112976615**
Target **14445 OLIVE VIEW DR** **N/A**
Property **LOS ANGELES, CA 91342**

Site 13 of 14 in cluster A

Actual: 1482 ft.

HAZNET:

envid:	S112976615
Year:	2009
GEPAID:	CAC002640329
Contact:	MIKE PEASON
Telephone:	6266411089
Mailing Name:	Not reported
Mailing Address:	12300 LOWER AZUSA RD
Mailing City,St,Zip:	ARCADIA, CA 910068722
Gen County:	Not reported
TSD EPA ID:	CAD028409019
TSD County:	Not reported
Waste Category:	Pesticides and other waste associated with pesticide production
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

COUNTY OF LOS ANGELS DEPT WEIGHT MEASURE (Continued) **S112976615**

Tons:	0.48
Cat Decode:	Pesticides and other waste associated with pesticide production
Method Decode:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	Los Angeles
envid:	S112976615
Year:	2009
GEPAID:	CAC002640329
Contact:	MIKE PEASON
Telephone:	6266411089
Mailing Name:	Not reported
Mailing Address:	12300 LOWER AZUSA RD
Mailing City,St,Zip:	ARCADIA, CA 910068722
Gen County:	Not reported
TSD EPA ID:	CAD028409019
TSD County:	Not reported
Waste Category:	Pesticide rinse water
Disposal Method:	Discharge To Sewer/Potw Or Npdes(With Prior Storage--With Or Without Treatment)
Tons:	0.2085
Cat Decode:	Pesticide rinse water
Method Decode:	Discharge To Sewer/Potw Or Npdes(With Prior Storage--With Or Without Treatment)
Facility County:	Los Angeles

A14 **LA CO., OLIVE VIEW/UCLA MEDICA** **SWEEPS UST** **S104566144**
Target **14445 OLIVE VIEW DR** **CHMIRS** **N/A**
Property **SYLMAR, CA 91342** **EMI**
NPDES

Site 14 of 14 in cluster A

Actual: 1482 ft.

SWEEPS UST:

Status:	Active
Comp Number:	6406
Number:	5
Board Of Equalization:	Not reported
Referral Date:	04-21-93
Action Date:	04-21-93
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	Not reported
Tank Status:	Not reported
Capacity:	Not reported
Active Date:	Not reported
Tank Use:	Not reported
STG:	Not reported
Content:	Not reported
Number Of Tanks:	Not reported

CHMIRS:

OES Incident Number:	5-2127
OES notification:	04/07/2005
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported

LA CO., OLIVE VIEW/UCLA MEDICA (Continued) **S104566144**

Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	Not reported
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Contractor
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	2005
Agency:	La County Health Hazmat
Incident Date:	4/6/200712:00:00 AM
Admin Agency:	L. A. County Fire Prevention
Amount:	Not reported
Contained:	Unknown
Site Type:	Other
E Date:	Not reported
Substance:	Mercury
Gallons:	0.000000
Pounds:	15
Unknown:	0
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported

LA CO., OLIVE VIEW/UCLA MEDICA (Continued) **S104566144**

Comments:	Not reported
Description:	Due to employee error, mercury went into the drain at th Olive View Med Center.

EMI:

Year:	1987
County Code:	19
Air Basin:	SC
Facility ID:	3093
Air District Name:	SC
SIC Code:	8011
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	3
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	6
NOX - Oxides of Nitrogen Tons/Yr:	35
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	2
Part. Matter 10 Micrometers & Smllr Tons/Yr:	2

Year:	1990
County Code:	19
Air Basin:	SC
Facility ID:	3093
Air District Name:	SC
SIC Code:	8011
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	3
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	9
NOX - Oxides of Nitrogen Tons/Yr:	32
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	1
Part. Matter 10 Micrometers & Smllr Tons/Yr:	1

Year:	1995
County Code:	19
Air Basin:	SC
Facility ID:	3093
Air District Name:	SC
SIC Code:	8062
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	32
Reactive Organic Gases Tons/Yr:	3
Carbon Monoxide Emissions Tons/Yr:	4
NOX - Oxides of Nitrogen Tons/Yr:	24
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	2
Part. Matter 10 Micrometers & Smllr Tons/Yr:	2

Year:	1996

LA CO., OLIVE VIEW/UCLA MEDICA (Continued) **S104566144**

County Code:	19
Air Basin:	SC
Facility ID:	3093
Air District Name:	SC
SIC Code:	8062
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	93
Reactive Organic Gases Tons/Yr:	9
Carbon Monoxide Emissions Tons/Yr:	8
NOX - Oxides of Nitrogen Tons/Yr:	48
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	4
Part. Matter 10 Micrometers & Smllr Tons/Yr:	4

Year:	1997
County Code:	19
Air Basin:	SC
Facility ID:	3093
Air District Name:	SC
SIC Code:	8062
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	70
Reactive Organic Gases Tons/Yr:	6
Carbon Monoxide Emissions Tons/Yr:	4
NOX - Oxides of Nitrogen Tons/Yr:	24
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	2
Part. Matter 10 Micrometers & Smllr Tons/Yr:	2

Year:	1998
County Code:	19
Air Basin:	SC
Facility ID:	3093
Air District Name:	SC
SIC Code:	8062
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	86
Reactive Organic Gases Tons/Yr:	8
Carbon Monoxide Emissions Tons/Yr:	4
NOX - Oxides of Nitrogen Tons/Yr:	24
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	2
Part. Matter 10 Micrometers & Smllr Tons/Yr:	2

Year:	1999
County Code:	19
Air Basin:	SC
Facility ID:	3093
Air District Name:	SC
SIC Code:	8062
Air District Name:	SOUTH COAST AQMD

LA CO., OLIVE VIEW/UCLA MEDICA (Continued) **S104566144**

Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	70
Reactive Organic Gases Tons/Yr:	6
Carbon Monoxide Emissions Tons/Yr:	4
NOX - Oxides of Nitrogen Tons/Yr:	24
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	2
Part. Matter 10 Micrometers & Smllr Tons/Yr:	2

Year:	2000
County Code:	19
Air Basin:	SC
Facility ID:	3093
Air District Name:	SC
SIC Code:	8062
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	70
Reactive Organic Gases Tons/Yr:	6
Carbon Monoxide Emissions Tons/Yr:	4
NOX - Oxides of Nitrogen Tons/Yr:	24
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	2
Part. Matter 10 Micrometers & Smllr Tons/Yr:	2

Year:	2001
County Code:	19
Air Basin:	SC
Facility ID:	3093
Air District Name:	SC
SIC Code:	8062
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Y
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	104
Reactive Organic Gases Tons/Yr:	10
Carbon Monoxide Emissions Tons/Yr:	4
NOX - Oxides of Nitrogen Tons/Yr:	18
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	3
Part. Matter 10 Micrometers & Smllr Tons/Yr:	2

Year:	2009
County Code:	19
Air Basin:	SC
Facility ID:	3093
Air District Name:	SC
SIC Code:	8062
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	8.9320168721991902
Reactive Organic Gases Tons/Yr:	8.4602450000000005
Carbon Monoxide Emissions Tons/Yr:	1.5212300000000001
NOX - Oxides of Nitrogen Tons/Yr:	3.67455

LA CO., OLIVE VIEW/UCLA MEDICA (Continued) **S104566144**

SOX - Oxides of Sulphur Tons/Yr:	8.4331000000000003E-2
Particulate Matter Tons/Yr:	3.410263
Part. Matter 10 Micrometers & Smllr Tons/Yr:	2.4673498500000002
Year:	2010
County Code:	19
Air Basin:	SC
Facility ID:	3093
Air District Name:	SC
SIC Code:	8062
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	7.4487582068657998
Reactive Organic Gases Tons/Yr:	7.04331
Carbon Monoxide Emissions Tons/Yr:	1.51274
NOX - Oxides of Nitrogen Tons/Yr:	3.7890999999999999
SOX - Oxides of Sulphur Tons/Yr:	0.087173
Particulate Matter Tons/Yr:	3.4342999999999999
Part. Matter 10 Micrometers & Smllr Tons/Yr:	2.4899304799999999
Year:	2011
County Code:	19
Air Basin:	SC
Facility ID:	3093
Air District Name:	SC
SIC Code:	8062
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1.8748894102
Reactive Organic Gases Tons/Yr:	1.45662
Carbon Monoxide Emissions Tons/Yr:	1.64418
NOX - Oxides of Nitrogen Tons/Yr:	3.8253
SOX - Oxides of Sulphur Tons/Yr:	0.0881
Particulate Matter Tons/Yr:	3.44443
Part. Matter 10 Micrometers & Smllr Tons/Yr:	2.50012128

NPDES:

Npdes Number:	Not reported
Facility Status:	Not reported
Agency Id:	Not reported
Region:	4
Regulatory Measure Id:	421172
Order No:	Not reported
Regulatory Measure Type:	Construction
Place Id:	Not reported
WDID:	4 19C363039
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	8/28/2014
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported

LA CO., OLIVE VIEW/UCLA MEDICA (Continued) **S104566144**

Discharge Zip:	Not reported
RECEIVED DATE:	2/15/2012
PROCESSED DATE:	2/17/2012
STATUS CODE NAME:	Terminated
STATUS DATE:	4/2/2015
PLACE SIZE:	4.07
PLACE SIZE UNIT:	Acres
FACILITY CONTACT NAME:	Randolph Mills
FACILITY CONTACT TITLE:	Project Manager
FACILITY CONTACT PHONE:	818-364-3325
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	rmills@dhs.laconty.gov
OPERATOR NAME:	County of Los Angeles Department of Public Works
OPERATOR ADDRESS:	900 South Fremont Avenue
OPERATOR CITY:	Alhambra
OPERATOR STATE:	California
OPERATOR ZIP:	91803
OPERATOR CONTACT NAME:	Alioune Dioum
OPERATOR CONTACT TITLE:	Project Manager
OPERATOR CONTACT PHONE:	626-300-3273
OPERATOR CONTACT PHONE EXT:	Not reported
OPERATOR CONTACT EMAIL:	adioum@dpw.lacounty.gov
OPERATOR TYPE:	County Agency
DEVELOPER NAME:	New Creation Builders
DEVELOPER ADDRESS:	17809 Clark Avenue
DEVELOPER CITY:	Bellflower
DEVELOPER STATE:	California
DEVELOPER ZIP:	90706
DEVELOPER CONTACT NAME:	Greg Edwards
DEVELOPER CONTACT TITLE:	Project Manager
CONSTYPE LINEAR UTILITY IND:	N
EMERGENCY PHONE NO:	Not reported
EMERGENCY PHONE EXT:	Not reported
CONSTYPE ABOVE GROUND IND:	Not reported
CONSTYPE BELOW GROUND IND:	Not reported
CONSTYPE CABLE LINE IND:	Not reported
CONSTYPE COMM LINE IND:	Not reported
CONSTYPE COMMERTIAL IND:	Y
CONSTYPE ELECTRICAL LINE IND:	Not reported
CONSTYPE GAS LINE IND:	Not reported
CONSTYPE INDUSTRIAL IND:	Not reported
CONSTYPE OTHER DESRIPTION:	Not reported
CONSTYPE OTHER IND:	Not reported
CONSTYPE RECONS IND:	Y
CONSTYPE RESIDENTIAL IND:	Not reported
CONSTYPE TRANSPORT IND:	Not reported
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	Not reported
CONSTYPE WATER SEWER IND:	Not reported
DIR DISCHARGE USWATER IND:	N
RECEIVING WATER NAME:	Not reported
CERTIFIER NAME:	TeLing Chou
CERTIFIER TITLE:	Not reported
CERTIFICATION DATE:	15-FEB-12
PRIMARY SIC:	Not reported
SECONDARY SIC:	Not reported
TERTIARY SIC:	Not reported

LA CO., OLIVE VIEW/UCLA MEDICA (Continued) **S104566144**

Npdes Number:	CAS000002
Facility Status:	Terminated
Agency Id:	0
Region:	4
Regulatory Measure Id:	421172
Order No:	2009-0009-DWQ
Regulatory Measure Type:	Enrollee
Place Id:	Not reported
WDID:	4 19C363039
Program Type:	Construction
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	02/17/2012
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	08/28/2014
Discharge Name:	County of Los Angeles Department of Public Works
Discharge Address:	900 South Fremont Avenue
Discharge City:	Alhambra
Discharge State:	California
Discharge Zip:	91803
RECEIVED DATE:	Not reported
PROCESSED DATE:	Not reported
STATUS CODE NAME:	Not reported
STATUS DATE:	Not reported
PLACE SIZE:	Not reported
PLACE SIZE UNIT:	Not reported
FACILITY CONTACT NAME:	Not reported
FACILITY CONTACT TITLE:	Not reported
FACILITY CONTACT PHONE:	Not reported
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	Not reported
OPERATOR NAME:	Not reported
OPERATOR ADDRESS:	Not reported
OPERATOR CITY:	Not reported
OPERATOR STATE:	Not reported
OPERATOR ZIP:	Not reported
OPERATOR CONTACT NAME:	Not reported
OPERATOR CONTACT TITLE:	Not reported
OPERATOR CONTACT PHONE:	Not reported
OPERATOR CONTACT PHONE EXT:	Not reported
OPERATOR CONTACT EMAIL:	Not reported
OPERATOR TYPE:	Not reported
DEVELOPER NAME:	Not reported
DEVELOPER ADDRESS:	Not reported
DEVELOPER CITY:	Not reported
DEVELOPER STATE:	Not reported
DEVELOPER ZIP:	Not reported
DEVELOPER CONTACT NAME:	Not reported
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	Not reported
EMERGENCY PHONE NO:	Not reported
EMERGENCY PHONE EXT:	Not reported
CONSTYPE ABOVE GROUND IND:	Not reported
CONSTYPE BELOW GROUND IND:	Not reported
CONSTYPE CABLE LINE IND:	Not reported
CONSTYPE COMM LINE IND:	Not reported
CONSTYPE COMMERTIAL IND:	Not reported
CONSTYPE ELECTRICAL LINE IND:	Not reported

LA CO., OLIVE VIEW/UCLA MEDICA (Continued) **S104566144**

CONSTYPE GAS LINE IND:	Not reported
CONSTYPE INDUSTRIAL IND:	Not reported
CONSTYPE OTHER DESRIPTION:	Not reported
CONSTYPE OTHER IND:	Not reported
CONSTYPE RECONS IND:	Not reported
CONSTYPE RESIDENTIAL IND:	Not reported
CONSTYPE TRANSPORT IND:	Not reported
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	Not reported
CONSTYPE WATER SEWER IND:	Not reported
DIR DISCHARGE USWATER IND:	Not reported
RECEIVING WATER NAME:	Not reported
CERTIFIER NAME:	Not reported
CERTIFIER TITLE:	Not reported
CERTIFICATION DATE:	Not reported
PRIMARY SIC:	Not reported
SECONDARY SIC:	Not reported
TERTIARY SIC:	Not reported

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15 **CASTLE PRECISION INDUSTRIES** **ENVIROSTOR** **S106665629**
14148 BLEDSOE ST. **N/A**
< 1/8 **SYLMAR, CA 91342**
1 ft.

Relative:
Lower

Actual:
1444 ft.

ENVIROSTOR:

Facility ID:	19990045
Status:	Refer: 1248 Local Agency
Status Date:	09/01/2004
Site Code:	Not reported
Site Type:	Evaluation
Site Type Detailed:	Evaluation
Acres:	Not reported
NPL:	NO
Regulatory Agencies:	NONE SPECIFIED
Lead Agency:	NONE SPECIFIED
Program Manager:	Not reported
Supervisor:	Referred - Not Assigned
Division Branch:	Cleanup Cypress
Assembly:	39
Senate:	Not reported
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not Applicable
Latitude:	0
Longitude:	0
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	19990045
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported

CASTLE PRECISION INDUSTRIES (Continued) **S106665629**

Completed Date:	Not reported
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

B16 **LOS ANGELES COUNTY** **CA FID UST** **S101587980**
SSW **14443 OLIVE VIEW DR** **N/A**
< 1/8 **SYLMAR, CA 91342**
0.004 mi.
22 ft. **Site 1 of 2 in cluster B**

Relative:
Lower

Actual:
1427 ft.

CA FID UST:

Facility ID:	19056212
Regulated By:	UTNKA
Regulated ID:	Not reported
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	2130000000
Mail To:	Not reported
Mailing Address:	14443 OLIVE VIEW DR
Mailing Address 2:	Not reported
Mailing City,St,Zip:	SYLMAR 913420000
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Active

B17 **OLIVE VIEW HOSPITAL** **HIST UST** **U001562353**
SW **14501 OLIVE VIEW DR** **N/A**
< 1/8 **SYLMAR, CA 90063**
0.004 mi.
22 ft. **Site 2 of 2 in cluster B**

Relative:
Lower

Actual:
1427 ft.

HIST UST:

Region:	STATE
Facility ID:	00000020708
Facility Type:	Other
Other Type:	HOSPITAL
Contact Name:	L.A. COUNTY MECHANICAL DEPT.
Telephone:	2132672242
Owner Name:	LOS ANGELES COUNTY MECHANICAL
Owner Address:	1100 NORTH EASTERN AVENUE
Owner City,St,Zip:	LOS ANGELES, CA 90063
Total Tanks:	0001

OLIVE VIEW HOSPITAL (Continued) **U001562353**

Tank Num:	001
Container Num:	#01
Year Installed:	Not reported
Tank Capacity:	00001000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	Not reported
Leak Detection:	Not reported

C18 **FIRE STATION** **SWEEPS UST** **S101618464**
South **14425 OLIVE VIEW DR** **CA FID UST** **N/A**
< 1/8 **SYLMAR, CA 91342**
0.008 mi.
44 ft. **Site 1 of 3 in cluster C**

Relative:
Lower

Actual:
1425 ft.

SWEEPS UST:

Status:	Active
Comp Number:	1438
Number:	5
Board Of Equalization:	44-011798
Referral Date:	03-04-93
Action Date:	03-04-93
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-050-001438-000001
Tank Status:	A
Capacity:	1000
Active Date:	04-20-88
Tank Use:	M.V. FUEL
STG:	P
Content:	DIESEL
Number Of Tanks:	1

CA FID UST:

Facility ID:	19050395
Regulated By:	UTNKA
Regulated ID:	00020636
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	8183675212
Mail To:	Not reported
Mailing Address:	1100 N EASTERN AVE
Mailing Address 2:	Not reported
Mailing City,St,Zip:	SYLMAR 913420000
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Active

C19 **FIRE STATION #46** **HIST UST** **U001567574**
South **14425 OLIVE VIEW DR** **N/A**
< 1/8 **SYLMAR, CA 91342**
0.008 mi.
44 ft. **Site 2 of 3 in cluster C**

Relative:
Lower

Actual:
1425 ft.

HIST UST:

Region:	STATE
Facility ID:	00000020636
Facility Type:	Other
Other Type:	FIRE ST
Contact Name:	L.A. COUNTY MECHANICAL DEPARTM
Telephone:	2132672242
Owner Name:	LOS ANGELES COUNTY MECHANICAL
Owner Address:	1100 N. EASTERN AVE.
Owner City,St,Zip:	LOS ANGELES, CA 90063
Total Tanks:	0001
Tank Num:	001
Container Num:	#1
Year Installed:	Not reported
Tank Capacity:	00001000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor

C20 **LA CO FD FIRE STATION #04** **LUST** **S102062935**
South **14425 OLIVE VIEW** **HIST CORTESE** **N/A**
< 1/8 **SYLMAR, CA 91342** **LOS ANGELES CO. HMS**
0.008 mi.
44 ft. **Site 3 of 3 in cluster C**

Relative:
Lower

Actual:
1425 ft.

LUST REG 4:

Region:	4	
Regional Board:	04	
County:	Los Angeles	
Facility Id:	R-12544	
Status:	Leak being confirmed	
Substance:	1	
Substance Quantity:	Not reported	
Local Case No:	Not reported	
Case Type:	Soil	
Abatement Method Used at the Site:		Not reported
Global ID:	T0603705142	
W Global ID:	Not reported	
Staff:	UNK	
Local Agency:	19050	
Cross Street:	COBALT ST	
Enforcement Type:	Not reported	
Date Leak Discovered:	Not reported	
Date Leak First Reported:		11/7/1995
Date Leak Record Entered:	5/3/1996	
Date Confirmation Began:	11/7/1995	
Date Leak Stopped:	Not reported	
Date Case Last Changed on Database:		11/7/1995
Date the Case was Closed:		Not reported
How Leak Discovered:	Not reported	
How Leak Stopped:	Not reported	
Cause of Leak:	Not reported	

LA CO FD FIRE STATION #04 (Continued) **S102062935**

Leak Source:	Not reported
Operator:	Not reported
Water System:	Not reported
Well Name:	Not reported
Approx. Dist To Production Well (ft):	5455.878386044710485729756046 5
Source of Cleanup Funding:	Not reported
Preliminary Site Assessment Workplan Submitted:	Not reported
Preliminary Site Assessment Began:	Not reported
Pollution Characterization Began:	Not reported
Remediation Plan Submitted:	Not reported
Remedial Action Underway:	Not reported
Post Remedial Action Monitoring Began:	Not reported
Enforcement Action Date:	Not reported
Historical Max MTBE Date:	Not reported
Hist Max MTBE Conc in Groundwater:	Not reported
Hist Max MTBE Conc in Soil:	Not reported
Significant Interim Remedial Action Taken:	Not reported
GW Qualifier:	Not reported
Soil Qualifier:	Not reported
Organization:	Not reported
Owner Contact:	Not reported
Responsible Party:	BLANK RP
RP Address:	Not reported
Program:	LUST
Lat/Long:	34.324158 / -1
Local Agency Staff:	PEJ
Beneficial Use:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Suspended:	Not reported
Assigned Name:	Not reported
Summary:	Not reported

HIST CORTESE:

Region:	CORTESE
Facility County Code:	19
Reg By:	LTNKA
Reg Id:	R-12544

LOS ANGELES CO. HMS:

Region:	LA
Facility Id:	012413-012544
Facility Type:	T0
Facility Status:	Removed
Area:	5F
Permit Number:	00004300T
Permit Status:	Removed

21
WSW
< 1/8
0.079 mi.
419 ft.

15000 OLIVE VIEW DR
SYLMAR, CA 91342

EDR Hist Auto **1015237704**
N/A

Relative:
Lower

Actual:
1432 ft.

EDR Historical Auto Stations:

Name:	JIFFY LUBE
Year:	2010
Address:	15000 OLIVE VIEW DR
Name:	JIFFY LUBE
Year:	2012
Address:	15000 OLIVE VIEW DR

22
SSW
< 1/8
0.113 mi.
595 ft.

14682 COBALT ST
SYLMAR, CA 91342

EDR Hist Auto **1015232307**
N/A

Relative:
Lower

Actual:
1395 ft.

EDR Historical Auto Stations:

Name:	DR PINKERTONS AUTO CLINIC
Year:	2002
Address:	14682 COBALT ST
Name:	DR PNKRTNS MBL AUTO & RV RPR
Year:	2004
Address:	14682 COBALT ST
Name:	DR PINKERTONS AUTO CLINIC
Year:	2005
Address:	14682 COBALT ST
Name:	DR PINKERTONS AUTO CLINIC
Year:	2006
Address:	14682 COBALT ST
Name:	DR PINKERTONS AUTO CLINIC
Year:	2007
Address:	14682 COBALT ST
Name:	DR PINKERTONS AUTO & RV RPR
Year:	2010
Address:	14682 COBALT ST

23
SE
1/8-1/4
0.164 mi.
867 ft.

VACANT LOT
13780 GLADSTONE
SYLMAR, CA 91801

SWEEPS UST **S101584823**
CA FID UST **N/A**

Relative:
Lower

Actual:
1408 ft.

SWEEPS UST:

Status:	Not reported
Comp Number:	7651
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported

VACANT LOT (Continued) **S101584823**

Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	Not reported
Tank Status:	Not reported
Capacity:	Not reported
Active Date:	Not reported
Tank Use:	Not reported
STG:	Not reported
Content:	Not reported
Number Of Tanks:	Not reported

CA FID UST:

Facility ID:	19015946
Regulated By:	UTNKI
Regulated ID:	Not reported
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	8183625106
Mail To:	Not reported
Mailing Address:	P O BOX
Mailing Address 2:	Not reported
Mailing City,St,Zip:	SYLMAR 918010000
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Inactive

Count: 4 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
LOS ANGELES COUNTY	S107530249		190TH ST E, EAST AVE I		CDL
LOS ANGELES COUNTY	S107531547		240TH ST & AVE J EAST		CDL
SANTA CLARITA	S107540283		PLACERITA CANYON RD (1 MILE EA	91321	CDL
SYLMAR	S108974347	VALLEY REGION SPAN K-8 #1	DRONFIELD AVENUE/BLEDSOE STREE	91342	ENVIROSTOR, SCH

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 10/30/2015
Date Data Arrived at EDR: 11/07/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 58

Source: EPA
Telephone: N/A
Last EDR Contact: 01/08/2016
Next Scheduled EDR Contact: 04/18/2016
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 10/30/2015
Date Data Arrived at EDR: 11/07/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 58

Source: EPA
Telephone: N/A
Last EDR Contact: 01/08/2016
Next Scheduled EDR Contact: 04/18/2016
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 10/30/2015
Date Data Arrived at EDR: 11/07/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 58

Source: EPA
Telephone: N/A
Last EDR Contact: 01/08/2016
Next Scheduled EDR Contact: 04/18/2016
Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 03/26/2015
Date Data Arrived at EDR: 04/08/2015
Date Made Active in Reports: 06/11/2015
Number of Days to Update: 64

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 01/06/2016
Next Scheduled EDR Contact: 04/18/2016
Data Release Frequency: Varies

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 10/25/2013
Date Data Arrived at EDR: 11/11/2013
Date Made Active in Reports: 02/13/2014
Number of Days to Update: 94

Source: EPA
Telephone: 703-412-9810
Last EDR Contact: 11/23/2015
Next Scheduled EDR Contact: 03/07/2016
Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 10/25/2013
Date Data Arrived at EDR: 11/11/2013
Date Made Active in Reports: 02/13/2014
Number of Days to Update: 94

Source: EPA
Telephone: 703-412-9810
Last EDR Contact: 11/23/2015
Next Scheduled EDR Contact: 03/07/2016
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 06/09/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 09/16/2015
Number of Days to Update: 82

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 12/18/2015
Next Scheduled EDR Contact: 04/11/2016
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 06/09/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 09/16/2015
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/18/2015
Next Scheduled EDR Contact: 04/11/2016
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/09/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 09/16/2015
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/18/2015
Next Scheduled EDR Contact: 04/11/2016
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 06/09/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 09/16/2015
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/18/2015
Next Scheduled EDR Contact: 04/11/2016
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/09/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 09/16/2015
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/18/2015
Next Scheduled EDR Contact: 04/11/2016
Data Release Frequency: Varies

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 05/28/2015
Date Data Arrived at EDR: 05/29/2015
Date Made Active in Reports: 06/11/2015
Number of Days to Update: 13

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 11/13/2015
Next Scheduled EDR Contact: 02/29/2016
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 09/10/2015
Date Data Arrived at EDR: 09/11/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 53

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 11/24/2015
Next Scheduled EDR Contact: 03/14/2016
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 09/10/2015
Date Data Arrived at EDR: 09/11/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 53

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 11/24/2015
Next Scheduled EDR Contact: 03/14/2016
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 06/22/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 09/16/2015
Number of Days to Update: 82

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 12/29/2015
Next Scheduled EDR Contact: 04/11/2016
Data Release Frequency: Annually

State- and tribal - equivalent NPL

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 11/07/2015
Date Data Arrived at EDR: 11/07/2015
Date Made Active in Reports: 12/17/2015
Number of Days to Update: 40

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 11/07/2015
Next Scheduled EDR Contact: 02/15/2016
Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 11/07/2015
Date Data Arrived at EDR: 11/07/2015
Date Made Active in Reports: 12/17/2015
Number of Days to Update: 40

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 11/07/2015
Next Scheduled EDR Contact: 02/15/2016
Data Release Frequency: Quarterly

State and tribal landfill and/or solid waste disposal site lists

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 11/16/2015
Date Data Arrived at EDR: 11/18/2015
Date Made Active in Reports: 01/21/2016
Number of Days to Update: 64

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 11/18/2015
Next Scheduled EDR Contact: 02/29/2016
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST REG 6V: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 3: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Varies

LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST: Geotracker's Leaking Underground Fuel Tank Report

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state. For more information on a particular leaking underground storage tank sites, please contact the appropriate regulatory agency.

Date of Government Version: 10/21/2015
Date Data Arrived at EDR: 10/22/2015
Date Made Active in Reports: 11/05/2015
Number of Days to Update: 14

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 12/14/2015
Next Scheduled EDR Contact: 03/28/2016
Data Release Frequency: Quarterly

LUST REG 5: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing

For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 7: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27
Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List
Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30
Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 11/04/2015
Date Data Arrived at EDR: 11/13/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 52
Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 10/26/2015
Next Scheduled EDR Contact: 02/08/2016
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 04/30/2015
Date Data Arrived at EDR: 05/05/2015
Date Made Active in Reports: 06/22/2015
Number of Days to Update: 48
Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 10/08/2015
Next Scheduled EDR Contact: 02/08/2016
Data Release Frequency: Quarterly

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 07/21/2015
Date Data Arrived at EDR: 07/29/2015
Date Made Active in Reports: 10/13/2015
Number of Days to Update: 76
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/07/2016
Next Scheduled EDR Contact: 02/08/2016
Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 01/08/2015
Date Data Arrived at EDR: 01/08/2015
Date Made Active in Reports: 02/09/2015
Number of Days to Update: 32
Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 10/30/2015
Next Scheduled EDR Contact: 02/08/2016
Data Release Frequency: Quarterly

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 03/30/2015
Date Data Arrived at EDR: 04/28/2015
Date Made Active in Reports: 06/22/2015
Number of Days to Update: 55
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 10/08/2015
Next Scheduled EDR Contact: 02/08/2016
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 05/13/2015
Date Data Arrived at EDR: 08/03/2015
Date Made Active in Reports: 10/13/2015
Number of Days to Update: 71

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 10/26/2015
Next Scheduled EDR Contact: 02/08/2016
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 11/24/2015
Date Data Arrived at EDR: 12/01/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 34

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 10/26/2015
Next Scheduled EDR Contact: 02/08/2016
Data Release Frequency: Semi-Annually

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/27/2015
Date Data Arrived at EDR: 10/29/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 67

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 10/27/2015
Next Scheduled EDR Contact: 02/08/2016
Data Release Frequency: Varies

SLIC: Statewide SLIC Cases
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 10/21/2015
Date Data Arrived at EDR: 10/22/2015
Date Made Active in Reports: 11/06/2015
Number of Days to Update: 15

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/14/2015
Next Scheduled EDR Contact: 03/28/2016
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: Semi-Annually

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Varies

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Semi-Annually

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: Annually

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010
Date Data Arrived at EDR: 02/16/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 55

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 01/08/2016
Next Scheduled EDR Contact: 04/25/2016
Data Release Frequency: Varies

UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 10/21/2015
Date Data Arrived at EDR: 10/22/2015
Date Made Active in Reports: 11/19/2015
Number of Days to Update: 28

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 12/14/2015
Next Scheduled EDR Contact: 03/28/2016
Data Release Frequency: Semi-Annually

AST: Aboveground Petroleum Storage Tank Facilities

A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 08/01/2009
Date Data Arrived at EDR: 09/10/2009
Date Made Active in Reports: 10/01/2009
Number of Days to Update: 21

Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 12/23/2015
Next Scheduled EDR Contact: 04/11/2016
Data Release Frequency: Quarterly

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 07/21/2015
Date Data Arrived at EDR: 07/29/2015
Date Made Active in Reports: 10/13/2015
Number of Days to Update: 76

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/07/2016
Next Scheduled EDR Contact: 02/08/2016
Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 12/14/2014
Date Data Arrived at EDR: 02/13/2015
Date Made Active in Reports: 03/13/2015
Number of Days to Update: 28
Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 10/30/2015
Next Scheduled EDR Contact: 02/09/2016
Data Release Frequency: Quarterly

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 07/28/2015
Date Data Arrived at EDR: 08/14/2015
Date Made Active in Reports: 10/13/2015
Number of Days to Update: 60
Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 07/22/2015
Next Scheduled EDR Contact: 02/08/2016
Data Release Frequency: Quarterly

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 05/13/2015
Date Data Arrived at EDR: 08/03/2015
Date Made Active in Reports: 10/13/2015
Number of Days to Update: 71
Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 10/26/2015
Next Scheduled EDR Contact: 02/08/2016
Data Release Frequency: Semi-Annually

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 09/23/2014
Date Data Arrived at EDR: 11/25/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 65
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 10/26/2015
Next Scheduled EDR Contact: 02/08/2016
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 11/05/2015
Date Data Arrived at EDR: 11/13/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 52
Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 10/26/2015
Next Scheduled EDR Contact: 02/08/2016
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 11/24/2015
Date Data Arrived at EDR: 12/01/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 34
Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 10/26/2015
Next Scheduled EDR Contact: 02/08/2016
Data Release Frequency: Semi-Annually

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/20/2015
Date Data Arrived at EDR: 10/29/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 67

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 10/27/2015
Next Scheduled EDR Contact: 02/08/2016
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Properties
Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 11/07/2015
Date Data Arrived at EDR: 11/07/2015
Date Made Active in Reports: 12/17/2015
Number of Days to Update: 40

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 11/07/2015
Next Scheduled EDR Contact: 02/15/2016
Data Release Frequency: Quarterly

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 09/29/2014
Date Data Arrived at EDR: 10/01/2014
Date Made Active in Reports: 11/06/2014
Number of Days to Update: 36

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 12/28/2015
Next Scheduled EDR Contact: 04/11/2016
Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Considered Brownfieds Sites Listing
A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 12/04/2015
Date Data Arrived at EDR: 12/08/2015
Date Made Active in Reports: 01/21/2016
Number of Days to Update: 44

Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 12/04/2015
Next Scheduled EDR Contact: 03/21/2016
Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 09/21/2015
Date Data Arrived at EDR: 09/23/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 103

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 12/21/2015
Next Scheduled EDR Contact: 04/04/2016
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT: Waste Management Unit Database

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 11/09/2015
Next Scheduled EDR Contact: 02/22/2016
Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 09/14/2015
Date Data Arrived at EDR: 09/15/2015
Date Made Active in Reports: 10/14/2015
Number of Days to Update: 29

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 12/17/2015
Next Scheduled EDR Contact: 03/28/2016
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing

A listing of registered waste tire haulers.

Date of Government Version: 11/23/2015
Date Data Arrived at EDR: 11/24/2015
Date Made Active in Reports: 01/21/2016
Number of Days to Update: 58

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 11/13/2015
Next Scheduled EDR Contact: 02/29/2016
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 11/06/2015
Next Scheduled EDR Contact: 02/15/2016
Data Release Frequency: Varies

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 10/26/2015
Next Scheduled EDR Contact: 02/08/2016
Data Release Frequency: No Update Planned

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39
Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register
A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 08/12/2015
Date Data Arrived at EDR: 09/04/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 60
Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 08/31/2015
Next Scheduled EDR Contact: 12/14/2015
Data Release Frequency: No Update Planned

HIST CAL-SITES: Calsites Database
The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21
Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program
This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 11/07/2015
Date Data Arrived at EDR: 11/07/2015
Date Made Active in Reports: 12/17/2015
Number of Days to Update: 40
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 11/07/2015
Next Scheduled EDR Contact: 02/15/2016
Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs
A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 03/10/2015
Date Made Active in Reports: 03/18/2015
Number of Days to Update: 8
Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 01/11/2016
Next Scheduled EDR Contact: 04/25/2016
Data Release Frequency: Varies

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 08/12/2015
Date Data Arrived at EDR: 09/04/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 60

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 11/25/2015
Next Scheduled EDR Contact: 03/14/2016
Data Release Frequency: Quarterly

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

UST MENDOCINO: Mendocino County UST Database

A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 11/25/2015
Date Data Arrived at EDR: 12/01/2015
Date Made Active in Reports: 12/17/2015
Number of Days to Update: 16

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 11/23/2015
Next Scheduled EDR Contact: 03/14/2016
Data Release Frequency: Annually

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Local Land Records

LIENS: Environmental Liens Listing

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 09/08/2015
Date Data Arrived at EDR: 09/10/2015
Date Made Active in Reports: 10/12/2015
Number of Days to Update: 32

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 12/04/2015
Next Scheduled EDR Contact: 03/21/2016
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/18/2014
Date Data Arrived at EDR: 03/18/2014
Date Made Active in Reports: 04/24/2014
Number of Days to Update: 37

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 10/30/2015
Next Scheduled EDR Contact: 02/08/2016
Data Release Frequency: Varies

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 12/07/2015
Date Data Arrived at EDR: 12/08/2015
Date Made Active in Reports: 01/21/2016
Number of Days to Update: 44

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 12/08/2015
Next Scheduled EDR Contact: 12/21/2015
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 06/24/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 09/02/2015
Number of Days to Update: 68

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 12/30/2015
Next Scheduled EDR Contact: 04/11/2016
Data Release Frequency: Annually

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 09/25/2015
Date Data Arrived at EDR: 10/27/2015
Date Made Active in Reports: 11/16/2015
Number of Days to Update: 20
Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 10/27/2015
Next Scheduled EDR Contact: 11/09/2015
Data Release Frequency: Varies

LDS: Land Disposal Sites Listing

The Land Disposal program regulates of waste discharge to land for treatment, storage and disposal in waste management units.

Date of Government Version: 10/21/2015
Date Data Arrived at EDR: 10/22/2015
Date Made Active in Reports: 11/05/2015
Number of Days to Update: 14
Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/14/2015
Next Scheduled EDR Contact: 03/28/2016
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing

The State Water Resources Control Board and nine Regional Water Quality Control Boards partner with the Department of Defense (DoD) through the Defense and State Memorandum of Agreement (DSMOA) to oversee the investigation and remediation of water quality issues at military facilities.

Date of Government Version: 10/21/2015
Date Data Arrived at EDR: 10/22/2015
Date Made Active in Reports: 11/05/2015
Number of Days to Update: 14
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/14/2015
Next Scheduled EDR Contact: 03/28/2016
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50
Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 06/09/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 09/16/2015
Number of Days to Update: 82
Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/18/2015
Next Scheduled EDR Contact: 04/11/2016
Data Release Frequency: Varies

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 01/31/2015
Date Data Arrived at EDR: 07/08/2015
Date Made Active in Reports: 10/13/2015
Number of Days to Update: 97
Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 12/11/2015
Next Scheduled EDR Contact: 03/21/2016
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 01/15/2016
Next Scheduled EDR Contact: 04/25/2016
Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 01/15/2016
Next Scheduled EDR Contact: 04/25/2016
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011
Date Data Arrived at EDR: 03/09/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 54

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 11/19/2015
Next Scheduled EDR Contact: 02/29/2016
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 09/01/2015
Date Data Arrived at EDR: 09/03/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 61

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 11/13/2015
Next Scheduled EDR Contact: 02/29/2016
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 11/10/2015
Next Scheduled EDR Contact: 02/22/2016
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 04/22/2013
Date Data Arrived at EDR: 03/03/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 11/13/2015
Next Scheduled EDR Contact: 02/22/2016
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 01/15/2015
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 14

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 12/23/2015
Next Scheduled EDR Contact: 04/04/2016
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 02/12/2015
Date Made Active in Reports: 06/02/2015
Number of Days to Update: 110

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 11/24/2015
Next Scheduled EDR Contact: 03/07/2016
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 10/26/2015
Next Scheduled EDR Contact: 02/08/2016
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 11/25/2013
Date Data Arrived at EDR: 12/12/2013
Date Made Active in Reports: 02/24/2014
Number of Days to Update: 74

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 12/11/2015
Next Scheduled EDR Contact: 03/21/2016
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 08/01/2015
Date Data Arrived at EDR: 08/26/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 69

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 10/26/2015
Next Scheduled EDR Contact: 02/08/2016
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013
Date Data Arrived at EDR: 10/17/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 3

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 11/13/2015
Next Scheduled EDR Contact: 02/22/2016
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 10/15/2014
Date Made Active in Reports: 11/17/2014
Number of Days to Update: 33

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 01/12/2016
Next Scheduled EDR Contact: 04/25/2016
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 01/23/2015
Date Data Arrived at EDR: 02/06/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 31

Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 01/08/2016
Next Scheduled EDR Contact: 04/25/2016
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 11/18/2015
Next Scheduled EDR Contact: 03/07/2016
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 11/18/2015
Next Scheduled EDR Contact: 03/07/2016
Data Release Frequency: Quarterly

MLTS: Material Licensing Tracking System
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 06/26/2015
Date Data Arrived at EDR: 07/10/2015
Date Made Active in Reports: 10/13/2015
Number of Days to Update: 95
Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 12/07/2015
Next Scheduled EDR Contact: 03/21/2016
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76
Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 01/13/2016
Next Scheduled EDR Contact: 04/25/2016
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 09/10/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 12/11/2015
Next Scheduled EDR Contact: 03/21/2016
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011
Date Data Arrived at EDR: 10/19/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 83
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 10/29/2015
Next Scheduled EDR Contact: 02/08/2016
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/07/2015
Date Data Arrived at EDR: 07/09/2015
Date Made Active in Reports: 09/16/2015
Number of Days to Update: 69

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 01/07/2016
Next Scheduled EDR Contact: 04/18/2016
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 11/07/2015
Next Scheduled EDR Contact: 02/15/2016
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 04/17/2015
Date Made Active in Reports: 06/02/2015
Number of Days to Update: 46

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 12/23/2015
Next Scheduled EDR Contact: 04/11/2016
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 02/24/2015
Date Made Active in Reports: 09/30/2015
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 11/24/2015
Next Scheduled EDR Contact: 03/07/2016
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 12/08/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 34

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 01/15/2016
Next Scheduled EDR Contact: 04/25/2016
Data Release Frequency: Semi-Annually

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010
Date Data Arrived at EDR: 10/07/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 146

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 11/19/2015
Next Scheduled EDR Contact: 03/07/2016
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 11/25/2014
Date Data Arrived at EDR: 11/26/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 64

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 01/08/2016
Next Scheduled EDR Contact: 04/18/2016
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/20/2015
Date Data Arrived at EDR: 10/27/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 69

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 12/22/2015
Next Scheduled EDR Contact: 04/11/2016
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/20/2015
Date Data Arrived at EDR: 10/27/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 69

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 12/22/2015
Next Scheduled EDR Contact: 04/11/2016
Data Release Frequency: Annually

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/18/2015
Date Data Arrived at EDR: 09/01/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 125

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 12/03/2015
Next Scheduled EDR Contact: 03/14/2016
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005
Date Data Arrived at EDR: 02/29/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 49

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 12/04/2015
Next Scheduled EDR Contact: 03/14/2016
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 12/04/2015
Next Scheduled EDR Contact: 03/14/2016
Data Release Frequency: Varies

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 07/20/2015
Date Data Arrived at EDR: 09/09/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 55

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 12/10/2015
Next Scheduled EDR Contact: 03/21/2016
Data Release Frequency: Quarterly

CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6

Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CORTESE: "Cortese" Hazardous Waste & Substances Sites List

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 12/28/2015
Date Data Arrived at EDR: 12/29/2015
Date Made Active in Reports: 01/21/2016
Number of Days to Update: 23

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 12/29/2015
Next Scheduled EDR Contact: 04/11/2016
Data Release Frequency: Quarterly

DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 08/10/2015
Date Data Arrived at EDR: 08/27/2015
Date Made Active in Reports: 10/01/2015
Number of Days to Update: 35

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 01/19/2016
Next Scheduled EDR Contact: 03/21/2016
Data Release Frequency: Annually

EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 09/25/2015
Date Made Active in Reports: 11/05/2015
Number of Days to Update: 41

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 12/23/2015
Next Scheduled EDR Contact: 04/04/2016
Data Release Frequency: Varies

ENF: Enforcement Action Listing

A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 11/18/2015
Date Data Arrived at EDR: 11/23/2015
Date Made Active in Reports: 01/21/2016
Number of Days to Update: 59

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 11/18/2015
Next Scheduled EDR Contact: 02/08/2016
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information

Date of Government Version: 11/02/2015
Date Data Arrived at EDR: 11/07/2015
Date Made Active in Reports: 12/17/2015
Number of Days to Update: 40

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 10/26/2015
Next Scheduled EDR Contact: 02/08/2016
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 11/18/2015
Date Data Arrived at EDR: 11/23/2015
Date Made Active in Reports: 01/21/2016
Number of Days to Update: 59

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 11/13/2015
Next Scheduled EDR Contact: 02/29/2016
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 10/14/2015
Date Made Active in Reports: 12/11/2015
Number of Days to Update: 58

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 01/11/2016
Next Scheduled EDR Contact: 04/25/2016
Data Release Frequency: Annually

HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 11/23/2015
Date Data Arrived at EDR: 11/24/2015
Date Made Active in Reports: 01/21/2016
Number of Days to Update: 58

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 11/24/2015
Next Scheduled EDR Contact: 03/07/2016
Data Release Frequency: Quarterly

HWT: Registered Hazardous Waste Transporter Database

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 10/14/2015
Date Made Active in Reports: 11/19/2015
Number of Days to Update: 36

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 01/13/2016
Next Scheduled EDR Contact: 04/25/2016
Data Release Frequency: Quarterly

MINES: Mines Site Location Listing

A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 09/14/2015
Date Data Arrived at EDR: 09/15/2015
Date Made Active in Reports: 10/14/2015
Number of Days to Update: 29

Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 12/17/2015
Next Scheduled EDR Contact: 03/28/2016
Data Release Frequency: Varies

MWMP: Medical Waste Management Program Listing

The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 11/10/2015
Date Data Arrived at EDR: 12/08/2015
Date Made Active in Reports: 01/21/2016
Number of Days to Update: 44

Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 12/08/2015
Next Scheduled EDR Contact: 03/21/2016
Data Release Frequency: Varies

NPDES: NPDES Permits Listing

A listing of NPDES permits, including stormwater.

Date of Government Version: 11/16/2015
Date Data Arrived at EDR: 11/18/2015
Date Made Active in Reports: 01/21/2016
Number of Days to Update: 64

Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 11/18/2015
Next Scheduled EDR Contact: 02/29/2016
Data Release Frequency: Quarterly

PEST LIC: Pesticide Regulation Licenses Listing

A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 12/07/2015
Date Data Arrived at EDR: 12/08/2015
Date Made Active in Reports: 01/21/2016
Number of Days to Update: 44

Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 12/08/2015
Next Scheduled EDR Contact: 03/21/2016
Data Release Frequency: Quarterly

PROC: Certified Processors Database

A listing of certified processors.

Date of Government Version: 09/14/2015
Date Data Arrived at EDR: 09/15/2015
Date Made Active in Reports: 10/14/2015
Number of Days to Update: 29

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 12/17/2015
Next Scheduled EDR Contact: 03/28/2016
Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records

Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 08/04/2015
Date Data Arrived at EDR: 08/25/2015
Date Made Active in Reports: 10/05/2015
Number of Days to Update: 41

Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 12/17/2015
Next Scheduled EDR Contact: 04/04/2016
Data Release Frequency: No Update Planned

UIC: UIC Listing

A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 07/23/2015
Date Data Arrived at EDR: 09/15/2015
Date Made Active in Reports: 10/13/2015
Number of Days to Update: 28

Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 12/18/2015
Next Scheduled EDR Contact: 03/28/2016
Data Release Frequency: Varies

WASTEWATER PITS: Oil Wastewater Pits Listing

Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water board?s review found that more than one-third of the region?s active disposal pits are operating without permission.

Date of Government Version: 04/15/2015
Date Data Arrived at EDR: 04/17/2015
Date Made Active in Reports: 06/23/2015
Number of Days to Update: 67

Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 01/15/2016
Next Scheduled EDR Contact: 04/25/2016
Data Release Frequency: Varies

WDS: Waste Discharge System

Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9

Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 11/18/2015
Next Scheduled EDR Contact: 03/07/2016
Data Release Frequency: Quarterly

WIP: Well Investigation Program Case List
Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13

Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 12/23/2015
Next Scheduled EDR Contact: 04/11/2016
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants
The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historic Gas Stations
EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historic Dry Cleaners
EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 10/09/2015
Date Data Arrived at EDR: 10/13/2015
Date Made Active in Reports: 11/16/2015
Number of Days to Update: 34

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 01/11/2016
Next Scheduled EDR Contact: 04/25/2016
Data Release Frequency: Semi-Annually

Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 10/09/2015
Date Data Arrived at EDR: 10/13/2015
Date Made Active in Reports: 11/19/2015
Number of Days to Update: 37

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 01/11/2016
Next Scheduled EDR Contact: 04/25/2016
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA Facility List
Cupa Facility List

Date of Government Version: 11/16/2015
Date Data Arrived at EDR: 12/10/2015
Date Made Active in Reports: 01/21/2016
Number of Days to Update: 42

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 12/04/2015
Next Scheduled EDR Contact: 03/21/2016
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA Facility Listing
Cupa facility list.

Date of Government Version: 11/20/2014
Date Data Arrived at EDR: 11/24/2014
Date Made Active in Reports: 01/07/2015
Number of Days to Update: 44

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 01/15/2016
Next Scheduled EDR Contact: 04/25/2016
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 10/22/2015
Date Data Arrived at EDR: 10/23/2015
Date Made Active in Reports: 11/16/2015
Number of Days to Update: 24

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 12/28/2015
Next Scheduled EDR Contact: 04/11/2016
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 06/08/2015
Date Data Arrived at EDR: 09/22/2015
Date Made Active in Reports: 10/14/2015
Number of Days to Update: 22

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 11/09/2015
Next Scheduled EDR Contact: 02/22/2016
Data Release Frequency: Varies

CONTRA COSTA COUNTY:

Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 12/01/2015
Date Data Arrived at EDR: 12/04/2015
Date Made Active in Reports: 01/21/2016
Number of Days to Update: 48

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 11/07/2015
Next Scheduled EDR Contact: 02/15/2016
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA Facility List
Cupa Facility list

Date of Government Version: 11/16/2015
Date Data Arrived at EDR: 11/17/2015
Date Made Active in Reports: 12/11/2015
Number of Days to Update: 24

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 11/13/2015
Next Scheduled EDR Contact: 02/15/2016
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 11/30/2015
Date Data Arrived at EDR: 12/03/2015
Date Made Active in Reports: 01/21/2016
Number of Days to Update: 49

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 11/07/2015
Next Scheduled EDR Contact: 02/15/2016
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA Resources List
Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 10/15/2015
Date Data Arrived at EDR: 10/15/2015
Date Made Active in Reports: 11/16/2015
Number of Days to Update: 32

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 01/04/2016
Next Scheduled EDR Contact: 04/18/2016
Data Release Frequency: Semi-Annually

HUMBOLDT COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 12/02/2015
Date Data Arrived at EDR: 12/04/2015
Date Made Active in Reports: 01/21/2016
Number of Days to Update: 48

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 11/12/2015
Next Scheduled EDR Contact: 12/07/2015
Data Release Frequency: Varies

IMPERIAL COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 10/30/2015
Date Data Arrived at EDR: 11/07/2015
Date Made Active in Reports: 12/11/2015
Number of Days to Update: 34

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 10/26/2015
Next Scheduled EDR Contact: 02/08/2016
Data Release Frequency: Varies

INYO COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 09/10/2013
Date Data Arrived at EDR: 09/11/2013
Date Made Active in Reports: 10/14/2013
Number of Days to Update: 33

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 11/18/2015
Next Scheduled EDR Contact: 03/07/2016
Data Release Frequency: Varies

KERN COUNTY:

Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 05/19/2015
Date Data Arrived at EDR: 06/18/2015
Date Made Active in Reports: 07/22/2015
Number of Days to Update: 34

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 11/18/2015
Next Scheduled EDR Contact: 02/22/2016
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 11/19/2015
Date Data Arrived at EDR: 11/23/2015
Date Made Active in Reports: 12/11/2015
Number of Days to Update: 18

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 11/18/2015
Next Scheduled EDR Contact: 03/07/2016
Data Release Frequency: Varies

LAKE COUNTY:

CUPA Facility List
Cupa facility list

Date of Government Version: 08/11/2015
Date Data Arrived at EDR: 08/14/2015
Date Made Active in Reports: 09/03/2015
Number of Days to Update: 20

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 01/19/2016
Next Scheduled EDR Contact: 05/02/2016
Data Release Frequency: Varies

LOS ANGELES COUNTY:

San Gabriel Valley Areas of Concern
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: EPA Region 9
Telephone: 415-972-3178
Last EDR Contact: 12/17/2015
Next Scheduled EDR Contact: 04/04/2016
Data Release Frequency: No Update Planned

HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 11/24/2014
Date Data Arrived at EDR: 01/30/2015
Date Made Active in Reports: 03/04/2015
Number of Days to Update: 33

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 01/08/2016
Next Scheduled EDR Contact: 04/25/2016
Data Release Frequency: Semi-Annually

List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 10/19/2015
Date Data Arrived at EDR: 10/20/2015
Date Made Active in Reports: 11/19/2015
Number of Days to Update: 30

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 01/20/2016
Next Scheduled EDR Contact: 05/02/2016
Data Release Frequency: Varies

City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2015
Date Data Arrived at EDR: 07/27/2015
Date Made Active in Reports: 08/10/2015
Number of Days to Update: 14

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 01/19/2016
Next Scheduled EDR Contact: 05/02/2016
Data Release Frequency: Varies

Site Mitigation List
Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 01/15/2015
Date Data Arrived at EDR: 01/29/2015
Date Made Active in Reports: 03/10/2015
Number of Days to Update: 40

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 01/19/2016
Next Scheduled EDR Contact: 05/02/2016
Data Release Frequency: Annually

City of El Segundo Underground Storage Tank
Underground storage tank sites located in El Segundo city.

Date of Government Version: 03/30/2015
Date Data Arrived at EDR: 04/02/2015
Date Made Active in Reports: 04/13/2015
Number of Days to Update: 11

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 01/19/2016
Next Scheduled EDR Contact: 05/02/2016
Data Release Frequency: Semi-Annually

City of Long Beach Underground Storage Tank
Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 11/04/2015
Date Data Arrived at EDR: 11/13/2015
Date Made Active in Reports: 12/17/2015
Number of Days to Update: 34

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 10/26/2015
Next Scheduled EDR Contact: 02/08/2016
Data Release Frequency: Annually

City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 10/13/2015
Date Data Arrived at EDR: 10/14/2015
Date Made Active in Reports: 12/01/2015
Number of Days to Update: 48

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 01/11/2016
Next Scheduled EDR Contact: 04/25/2016
Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA Facility List

A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 09/15/2015
Date Data Arrived at EDR: 09/17/2015
Date Made Active in Reports: 10/14/2015
Number of Days to Update: 27

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 11/18/2015
Next Scheduled EDR Contact: 03/07/2016
Data Release Frequency: Varies

MARIN COUNTY:

Underground Storage Tank Sites

Currently permitted USTs in Marin County.

Date of Government Version: 10/05/2015
Date Data Arrived at EDR: 10/08/2015
Date Made Active in Reports: 10/15/2015
Number of Days to Update: 7

Source: Public Works Department Waste Management
Telephone: 415-499-6647
Last EDR Contact: 01/19/2016
Next Scheduled EDR Contact: 04/18/2016
Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA Facility List

CUPA facility list.

Date of Government Version: 12/14/2015
Date Data Arrived at EDR: 12/18/2015
Date Made Active in Reports: 01/21/2016
Number of Days to Update: 34

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 12/10/2015
Next Scheduled EDR Contact: 03/07/2016
Data Release Frequency: Varies

MONO COUNTY:

CUPA Facility List

CUPA Facility List

Date of Government Version: 11/24/2015
Date Data Arrived at EDR: 12/01/2015
Date Made Active in Reports: 01/21/2016
Number of Days to Update: 51

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 11/23/2015
Next Scheduled EDR Contact: 03/14/2016
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA Facility Listing

CUPA Program listing from the Environmental Health Division.

Date of Government Version: 10/01/2015
Date Data Arrived at EDR: 10/06/2015
Date Made Active in Reports: 12/11/2015
Number of Days to Update: 66

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 11/18/2015
Next Scheduled EDR Contact: 03/07/2016
Data Release Frequency: Varies

NAPA COUNTY:

Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 12/05/2011
Date Data Arrived at EDR: 12/06/2011
Date Made Active in Reports: 02/07/2012
Number of Days to Update: 63
Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 11/23/2015
Next Scheduled EDR Contact: 03/14/2016
Data Release Frequency: No Update Planned

Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 01/15/2008
Date Data Arrived at EDR: 01/16/2008
Date Made Active in Reports: 02/08/2008
Number of Days to Update: 23
Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 11/23/2015
Next Scheduled EDR Contact: 03/14/2016
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 11/16/2015
Date Data Arrived at EDR: 11/17/2015
Date Made Active in Reports: 12/11/2015
Number of Days to Update: 24
Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 11/06/2015
Next Scheduled EDR Contact: 02/15/2016
Data Release Frequency: Varies

ORANGE COUNTY:

List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 11/01/2015
Date Data Arrived at EDR: 11/17/2015
Date Made Active in Reports: 01/21/2016
Number of Days to Update: 65
Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 11/10/2015
Next Scheduled EDR Contact: 02/22/2016
Data Release Frequency: Annually

List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 08/03/2015
Date Data Arrived at EDR: 08/10/2015
Date Made Active in Reports: 09/11/2015
Number of Days to Update: 32
Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 11/10/2015
Next Scheduled EDR Contact: 02/22/2016
Data Release Frequency: Quarterly

List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 11/01/2015
Date Data Arrived at EDR: 11/11/2015
Date Made Active in Reports: 12/17/2015
Number of Days to Update: 36
Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 11/11/2015
Next Scheduled EDR Contact: 02/22/2016
Data Release Frequency: Quarterly

PLACER COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 12/09/2015
Date Data Arrived at EDR: 12/11/2015
Date Made Active in Reports: 01/21/2016
Number of Days to Update: 41

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 12/04/2015
Next Scheduled EDR Contact: 03/21/2016
Data Release Frequency: Semi-Annually

RIVERSIDE COUNTY:

Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 10/26/2015
Date Data Arrived at EDR: 10/28/2015
Date Made Active in Reports: 11/19/2015
Number of Days to Update: 22

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 12/17/2015
Next Scheduled EDR Contact: 04/04/2016
Data Release Frequency: Quarterly

Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 10/26/2015
Date Data Arrived at EDR: 10/28/2015
Date Made Active in Reports: 11/19/2015
Number of Days to Update: 22

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 12/17/2015
Next Scheduled EDR Contact: 04/04/2016
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 08/03/2015
Date Data Arrived at EDR: 10/06/2015
Date Made Active in Reports: 11/16/2015
Number of Days to Update: 41

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 01/05/2016
Next Scheduled EDR Contact: 04/18/2016
Data Release Frequency: Quarterly

Master Hazardous Materials Facility List
Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 08/03/2015
Date Data Arrived at EDR: 10/06/2015
Date Made Active in Reports: 11/06/2015
Number of Days to Update: 31

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 01/05/2016
Next Scheduled EDR Contact: 04/18/2016
Data Release Frequency: Quarterly

SAN BERNARDINO COUNTY:

Hazardous Material Permits
This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 06/30/2015
Date Data Arrived at EDR: 07/07/2015
Date Made Active in Reports: 07/14/2015
Number of Days to Update: 7

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 11/09/2015
Next Scheduled EDR Contact: 02/22/2016
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 09/23/2013
Date Data Arrived at EDR: 09/24/2013
Date Made Active in Reports: 10/17/2013
Number of Days to Update: 23

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 12/04/2015
Next Scheduled EDR Contact: 03/21/2016
Data Release Frequency: Quarterly

Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 10/31/2015
Date Data Arrived at EDR: 11/07/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 58

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 10/26/2015
Next Scheduled EDR Contact: 02/08/2016
Data Release Frequency: Varies

Environmental Case Listing

The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24

Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 12/04/2015
Next Scheduled EDR Contact: 03/21/2016
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

Local Oversite Facilities

A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 11/09/2015
Next Scheduled EDR Contact: 02/22/2016
Data Release Frequency: Quarterly

Underground Storage Tank Information

Underground storage tank sites located in San Francisco county.

Date of Government Version: 11/29/2010
Date Data Arrived at EDR: 03/10/2011
Date Made Active in Reports: 03/15/2011
Number of Days to Update: 5

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 11/09/2015
Next Scheduled EDR Contact: 02/22/2016
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 09/23/2015
Date Data Arrived at EDR: 09/25/2015
Date Made Active in Reports: 10/15/2015
Number of Days to Update: 20

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 12/17/2015
Next Scheduled EDR Contact: 04/04/2016
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA Facility List
Cupa Facility List.

Date of Government Version: 12/07/2015
Date Data Arrived at EDR: 12/10/2015
Date Made Active in Reports: 01/21/2016
Number of Days to Update: 42

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 12/04/2015
Next Scheduled EDR Contact: 03/07/2016
Data Release Frequency: Varies

SAN MATEO COUNTY:

Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 10/14/2015
Date Data Arrived at EDR: 10/15/2015
Date Made Active in Reports: 11/16/2015
Number of Days to Update: 32

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 12/14/2015
Next Scheduled EDR Contact: 03/28/2016
Data Release Frequency: Annually

Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 09/16/2015
Date Data Arrived at EDR: 09/17/2015
Date Made Active in Reports: 11/05/2015
Number of Days to Update: 49

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 12/10/2015
Next Scheduled EDR Contact: 03/28/2016
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28

Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 11/18/2015
Next Scheduled EDR Contact: 03/07/2016
Data Release Frequency: Varies

SANTA CLARA COUNTY:

Cupa Facility List
Cupa facility list

Date of Government Version: 11/18/2015
Date Data Arrived at EDR: 11/24/2015
Date Made Active in Reports: 12/11/2015
Number of Days to Update: 17

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 11/18/2015
Next Scheduled EDR Contact: 03/07/2016
Data Release Frequency: Varies

HIST LUST - Fuel Leak Site Activity Report
A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LOP Listing
A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 11/23/2015
Next Scheduled EDR Contact: 03/14/2016
Data Release Frequency: Annually

Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 11/17/2015
Date Data Arrived at EDR: 11/23/2015
Date Made Active in Reports: 01/21/2016
Number of Days to Update: 59

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 11/18/2015
Next Scheduled EDR Contact: 02/22/2016
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA Facility List
CUPA facility listing.

Date of Government Version: 11/18/2015
Date Data Arrived at EDR: 11/23/2015
Date Made Active in Reports: 12/11/2015
Number of Days to Update: 18

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 11/18/2015
Next Scheduled EDR Contact: 03/07/2016
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA Facility List
Cupa Facility List.

Date of Government Version: 12/09/2015
Date Data Arrived at EDR: 12/10/2015
Date Made Active in Reports: 01/21/2016
Number of Days to Update: 42

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 11/18/2015
Next Scheduled EDR Contact: 03/07/2016
Data Release Frequency: Varies

SOLANO COUNTY:

Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 09/02/2015
Date Data Arrived at EDR: 09/17/2015
Date Made Active in Reports: 11/05/2015
Number of Days to Update: 49

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 09/10/2015
Next Scheduled EDR Contact: 12/28/2015
Data Release Frequency: Quarterly

Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 09/02/2015
Date Data Arrived at EDR: 09/18/2015
Date Made Active in Reports: 10/15/2015
Number of Days to Update: 27

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 12/10/2015
Next Scheduled EDR Contact: 03/28/2016
Data Release Frequency: Quarterly

SONOMA COUNTY:

Cupa Facility List
Cupa Facility list

Date of Government Version: 09/28/2015
Date Data Arrived at EDR: 09/30/2015
Date Made Active in Reports: 11/05/2015
Number of Days to Update: 36

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 01/11/2016
Next Scheduled EDR Contact: 04/11/2016
Data Release Frequency: Varies

Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 10/01/2015
Date Data Arrived at EDR: 10/02/2015
Date Made Active in Reports: 11/05/2015
Number of Days to Update: 34

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 12/23/2015
Next Scheduled EDR Contact: 04/11/2016
Data Release Frequency: Quarterly

SUTTER COUNTY:

Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 12/07/2015
Date Data Arrived at EDR: 12/08/2015
Date Made Active in Reports: 12/17/2015
Number of Days to Update: 9

Source: Sutter County Department of Agriculture
Telephone: 530-822-7500
Last EDR Contact: 12/04/2015
Next Scheduled EDR Contact: 03/21/2016
Data Release Frequency: Semi-Annually

TUOLUMNE COUNTY:

CUPA Facility List
Cupa facility list

Date of Government Version: 10/29/2015
Date Data Arrived at EDR: 10/30/2015
Date Made Active in Reports: 12/11/2015
Number of Days to Update: 42

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 10/26/2015
Next Scheduled EDR Contact: 02/08/2016
Data Release Frequency: Varies

VENTURA COUNTY:

Business Plan, Hazardous Waste Producers, and Operating Underground Tanks

The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 08/17/2015
Date Made Active in Reports: 09/03/2015
Number of Days to Update: 17

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 08/12/2015
Next Scheduled EDR Contact: 11/30/2015
Data Release Frequency: Quarterly

Inventory of Illegal Abandoned and Inactive Sites

Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 12/30/2015
Next Scheduled EDR Contact: 04/18/2016
Data Release Frequency: Annually

Listing of Underground Tank Cleanup Sites

Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 11/13/2015
Next Scheduled EDR Contact: 02/29/2016
Data Release Frequency: Quarterly

Medical Waste Program List

To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 09/28/2015
Date Data Arrived at EDR: 10/28/2015
Date Made Active in Reports: 11/19/2015
Number of Days to Update: 22

Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 10/26/2015
Next Scheduled EDR Contact: 02/08/2016
Data Release Frequency: Quarterly

Underground Tank Closed Sites List

Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 08/26/2015
Date Data Arrived at EDR: 09/15/2015
Date Made Active in Reports: 10/15/2015
Number of Days to Update: 30

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 12/17/2015
Next Scheduled EDR Contact: 03/28/2016
Data Release Frequency: Quarterly

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report

Underground storage tank sites located in Yolo county.

Date of Government Version: 10/19/2015
Date Data Arrived at EDR: 10/27/2015
Date Made Active in Reports: 11/19/2015
Number of Days to Update: 23

Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 01/19/2016
Next Scheduled EDR Contact: 04/18/2016
Data Release Frequency: Annually

YUBA COUNTY:

CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 11/13/2015
Date Data Arrived at EDR: 11/17/2015
Date Made Active in Reports: 12/11/2015
Number of Days to Update: 24

Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 11/13/2015
Next Scheduled EDR Contact: 02/15/2016
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 07/30/2013
Date Data Arrived at EDR: 08/19/2013
Date Made Active in Reports: 10/03/2013
Number of Days to Update: 45

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 11/16/2015
Next Scheduled EDR Contact: 02/29/2016
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 07/17/2015
Date Made Active in Reports: 08/12/2015
Number of Days to Update: 26

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 01/15/2016
Next Scheduled EDR Contact: 04/25/2016
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 11/02/2015
Date Data Arrived at EDR: 11/08/2015
Date Made Active in Reports: 12/09/2015
Number of Days to Update: 31

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 11/08/2015
Next Scheduled EDR Contact: 02/15/2016
Data Release Frequency: Annually

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/24/2015
Date Made Active in Reports: 08/18/2015
Number of Days to Update: 25

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 01/19/2016
Next Scheduled EDR Contact: 05/02/2016
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 06/19/2015
Date Made Active in Reports: 07/15/2015
Number of Days to Update: 26

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 11/19/2015
Next Scheduled EDR Contact: 03/07/2016
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 03/19/2015
Date Made Active in Reports: 04/07/2015
Number of Days to Update: 19

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 12/09/2015
Next Scheduled EDR Contact: 03/28/2016
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: PennWell Corporation
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data
Source: PennWell Corporation
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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish & Game
Telephone: 916-445-0411

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

OLIVE VIEW-UCLA MED CENTER
14445 OLIVE VIEW DRIVE
SYLMAR, CA 91342

TARGET PROPERTY COORDINATES

Latitude (North):	34.326893 - 34° 19' 36.81''
Longitude (West):	118.449283 - 118° 26' 57.42''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	366668.5
UTM Y (Meters):	3799157.8
Elevation:	1482 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5636833 SAN FERNANDO, CA
Version Date:	2012

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

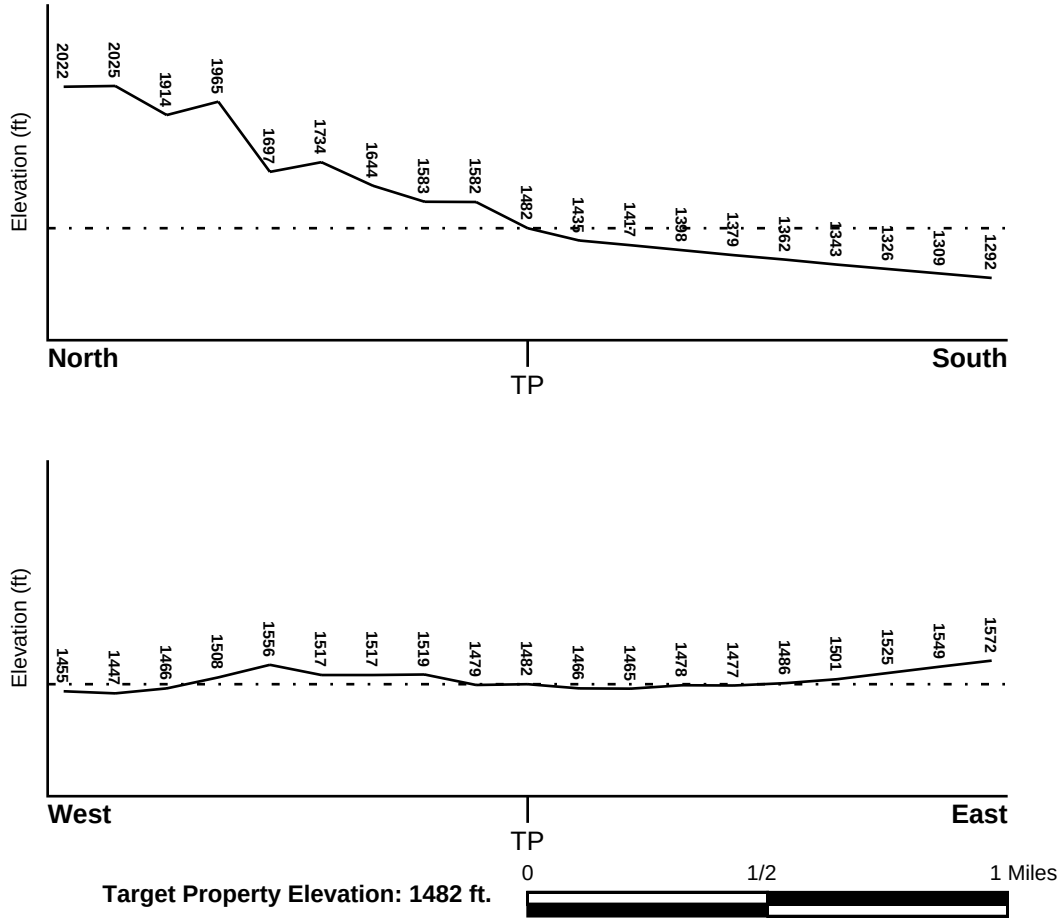
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General SSE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Target Property Elevation: 1482 ft.

Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Target Property County	FEMA Flood Electronic Data
LOS ANGELES, CA	YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: 06037C - FEMA DFIRM Flood data

Additional Panels in search area: Not Reported

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
NOT AVAILABLE	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

* ©1996 Site−specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

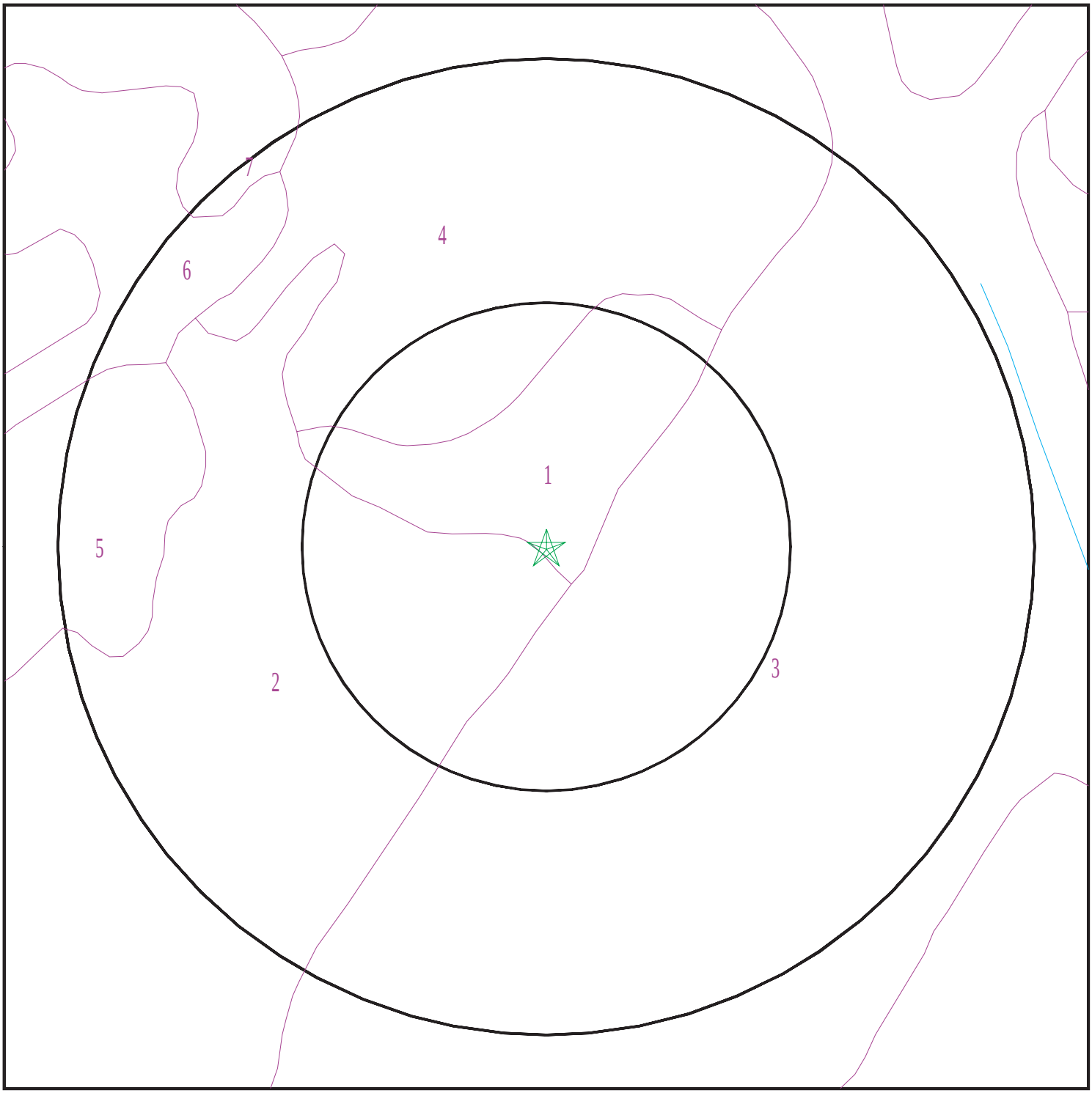
Era:	Mesozoic
System:	Cretaceous
Series:	Cretaceous granitic rocks
Code:	Kg *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Plutonic and Intrusive Rocks

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 4518850.2s



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	Olive View-UCLA Med Center	CLIENT:	Ninyo & Moore
ADDRESS:	14445 Olive View Drive Sylmar CA 91342	CONTACT:	Patrick Cullip
LAT/LONG:	34.326893 / 118.449283	INQUIRY #:	4518850.2s
		DATE:	January 22, 2016 11:31 am

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: Soper

Soil Surface Texture: gravelly sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	11 inches	gravelly sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 7.3 Min: 6.1
2	11 inches	31 inches	cobbly sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 7.3 Min: 6.1
3	31 inches	35 inches	weathered bedrock	Not reported	Not reported	Max: Min:	Max: Min:

Soil Map ID: 2

Soil Component Name: Capistrano

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class:
Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information

	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	40 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 6.1
2	40 inches	72 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 8.4 Min: 6.6

Soil Map ID: 3

Soil Component Name: Soboba

Soil Surface Texture: gravelly loamy sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Excessively drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	9 inches	gravelly loamy sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 141	Max: 7.8 Min: 6.1
2	9 inches	59 inches	very gravelly sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Gravels, Clean gravels, Poorly Graded Gravel.	Max: 141 Min: 141	Max: 7.8 Min: 6.1

Soil Map ID: 4

Soil Component Name: Saugus

Soil Surface Texture: loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	18 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 7.8 Min: 6.1
2	18 inches	44 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 7.8 Min: 6.1
3	44 inches	48 inches	weathered bedrock	Not reported	Not reported	Max: Min:	Max: Min:

Soil Map ID: 5

Soil Component Name: Saugus

Soil Surface Texture: loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	18 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 7.8 Min: 6.1
2	18 inches	44 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 7.8 Min: 6.1
3	44 inches	48 inches	weathered bedrock	Not reported	Not reported	Max: Min:	Max: Min:

Soil Map ID: 6

Soil Component Name: Badland

Soil Surface Texture: weathered bedrock

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class:
Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	59 inches	weathered bedrock	Not reported	Not reported	Max: Min:	Max: Min:

Soil Map ID: 7

Soil Component Name: Vista

Soil Surface Texture: coarse sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	20 inches	coarse sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.3 Min: 6.1
2	20 inches	35 inches	coarse sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.3 Min: 6.1

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
3	35 inches	40 inches	weathered bedrock	Not reported	Not reported	Max: Min:	Max: Min:

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

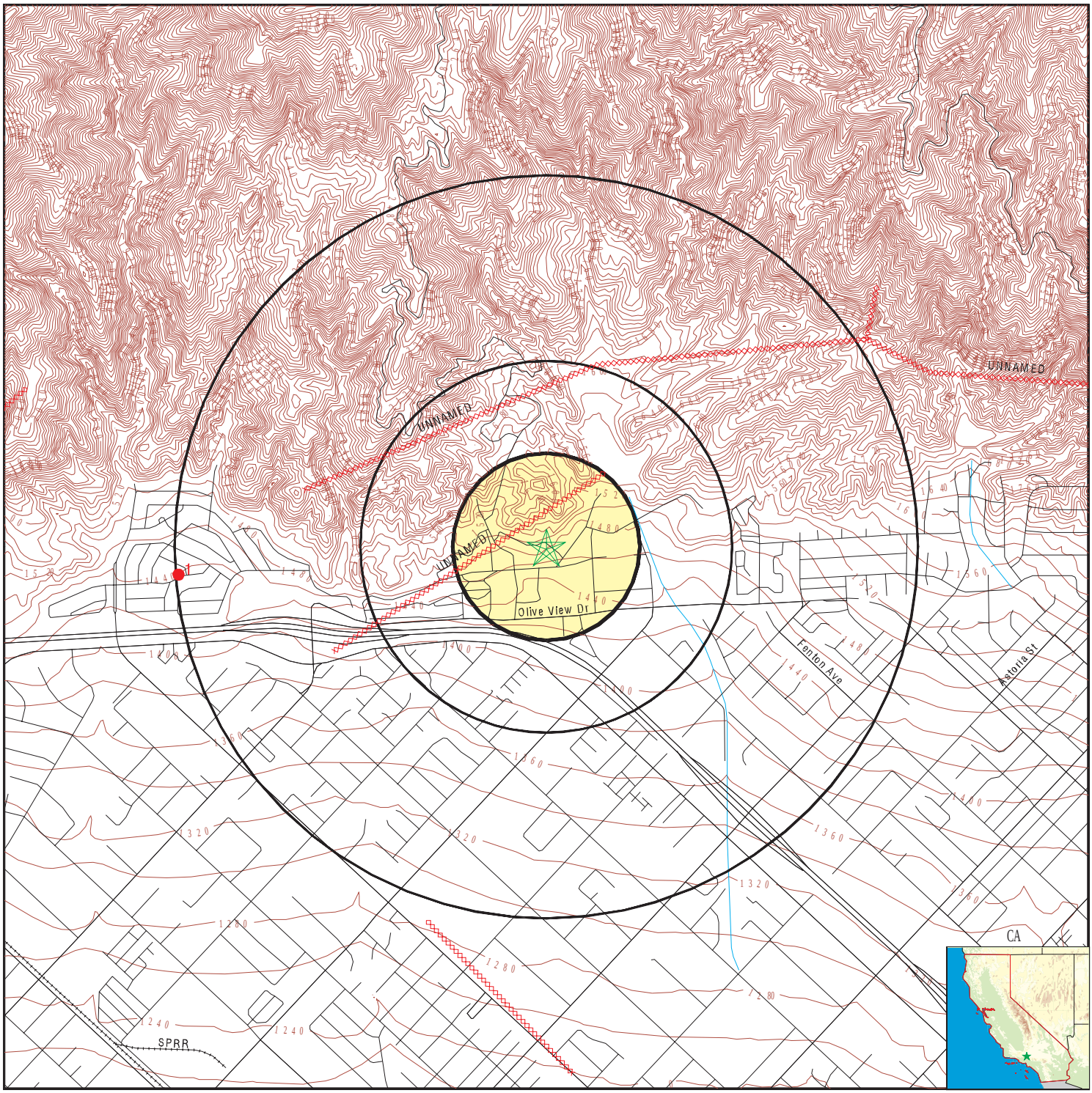
MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

OTHER STATE DATABASE INFORMATION

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	CAOG11000280918	1/2 - 1 Mile West

PHYSICAL SETTING SOURCE MAP - 4518850.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location
- HD Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME:	Olive View-UCLA Med Center	CLIENT:	Ninyo & Moore
ADDRESS:	14445 Olive View Drive Sylmar CA 91342	CONTACT:	Patrick Cullip
		INQUIRY #:	4518850.2s
LAT/LONG:	34.326893 / 118.449283	DATE:	January 22, 2016 11:31 am

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

1
West
1/2 - 1 Mile

OIL_GAS **CAOG11000280918**

District nun:	2	Api number:	03706034
Blm well:	N	Redrill can:	No
Dryhole:	Y	Well status:	P
Operator name:	Oryx Energy Company		
County name:	Los Angeles	Fieldname:	Any Field
Area name:	Any Area	Section:	21
Township:	03N	Range:	15W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Stetson-Sombrero	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Not Directionally drilled	Gissymbol:	PDH
Site id:	CAOG11000280918		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
91342	68	14

Federal EPA Radon Zone for LOS ANGELES County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 91342

Number of sites tested: 1

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.300 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish & Game
Telephone: 916-445-0411

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Water Well Database
Source: Department of Water Resources
Telephone: 916-651-9648

California Drinking Water Quality Database
Source: Department of Public Health
Telephone: 916-324-2319
The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

OTHER STATE DATABASE INFORMATION

California Oil and Gas Well Locations
Source: Department of Conservation
Telephone: 916-323-1779
Oil and Gas well locations in the state.

RADON

State Database: CA Radon
Source: Department of Health Services
Telephone: 916-324-2208
Radon Database for California

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

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Appendix H

Hydrology Report

Appendix H1

Hydrology Technical Memorandum

Watearth™
Water Resources + Green Infrastructure

HYDROLOGY TECHNICAL MEMORANDUM

Project: **Los Angeles County Olive View - UCLA Medical Center EIR**
Client: ICF International/Los Angeles County
Prepared By: Jennifer J. Walker, P.E., D.WRE, CFM, QSD
Date: 5-6-2019
Purpose: Memorandum of Hydrology and Water Quality Results

Note: Draft memorandum released under the authority of Jennifer J. Walker, P.E. (C77079), D.WRE, CFM on 5/06/2019 and should not be used for design or construction.

INTRODUCTION

This memorandum documents hydrologic and Low Impact Development (LID) modeling results for the build-out of Tier 1 of the Olive View - UCLA Medical Center project as described in the August 2015 *Olive View-UCLA Medical Center Master Plan.* The project is anticipated to include post-construction stormwater Best Management Practices (BMPs) and Low Impact Development (LID) features. Hydrologic and LID analyses are based on the Tier 1 development concept and layout described in the *Master Plan. Tier 2 development is addressed at a conceptual, less detailed level without calculations as development plans are less solidified and will occur over a longer time-frame.*

Development in Tier 1 of the project focuses on a new Ambulatory Care Center, expanded Inpatient Services in the existing hospital, a new Community Center, construction of new UCLA offices and research facilities, Central Utility Expansion, and a new Materials Management Building. Additionally, Tier 1 development contains plans for a new Administration building along with Community Open Space and Landscaping throughout the campus. This new development will include additional parking lots/structures and pedestrian walkways. Finally, Tier 1 development will require upgraded utility infrastructure, including sewer, water, storm drains, and telecommunication.

As shown on Exhibit 1, the project site is located within Los Angeles County's San Fernando Valley Cluster/Valley Care region. The site located near Sylmar, California and is bounded by the Angeles National Forest on the North, Olive View Drive on the South, Wilson Canyon Channel on the East, and Bucher Avenue to the West. The project site is mostly developed and land cover consists largely of buildings and pavement with an existing impervious cover of approximately 65% in Tier 1. There are currently large tracts of open space in and around the campus consisting of various types of vegetation (trees, shrubs, turf grass, bare soil, etc.) in Tier 2.

In accordance with the County of Los Angeles *Low Impact Development Standards Manual*, published February 2014 (*LID Manual*), stormwater Best Management Practices (BMPs) are proposed and analyzed as a post-construction water quality and hydrologic treatment measure for development of the campus. The Low Impact Development Plan from the *Master Plan* illustrates the location of the following LID features at the site:

- Bioretention
- Permeable Pavement

- Dry Wells (planned as a potential parking lot LID feature per County staff).

The goals established for this project include:

- ✓ Meet Los Angeles County Low Impact Development (LID) and stormwater treatment criteria;
- ✓ Use LID to reduce proposed conditions peak flows and runoff volumes to below existing conditions;
- ✓ Simulate undeveloped conditions through use of infiltration and groundwater recharge across the project site.

EXISTING CONDITIONS

Existing conditions for the project are described based on evaluation of prior reports, available data, and results of the site reconnaissance. As shown in Exhibit 1, the proposed Olive View site is located on the existing University of California Los Angeles (UCLA) Olive View Medical Center. The Center is located in Sylmar, is bounded by the Angeles National Forest to the north and Olive View Drive to the south and is located west of single-family housing, north of residential and commercial-industrial land use, and east of the Santa Susana Mountains. The location of site is considered part of the San Fernando Valley, within the City of Los Angeles.

The Olive View project site is an institutional space with elevations ranging from 1,415 feet (ft) at the southern edge of the campus up to 1,540 ft. This range is due to the mountain landscape within the Angeles National Forest just north of and adjacent to the campus. The impervious cover is approximately 65% in Tier 1 (Exhibits 2, 7A and 7B). Land use of the area surrounding the campus is largely open space with a few single-family homes in the vicinity.

Existing conditions are discussed in the sections below for the following categories:

- Surface Water Quality
- Groundwater
- Hydrology
- Hydraulics
- Flooding and Hazards

Surface Water Quality

The project site is currently developed and land cover consists of medical and administrative buildings, paved roadways and parking lots, and tracts of vegetated open space throughout, with an existing impervious cover of 65-percent (Exhibit 2). Photos from the site reconnaissance are included in Appendix I. Land use around the site is varied (Exhibits 7A and 7B). To the north of the site is mostly vacant/undifferentiated open space containing flood waterways and electrical power facilities-powerlines. Directly to the east and west of the site is also vacant/undifferentiated open space. South of the campus is made up of low-rise apartments, low-

density single-family homes, and freeways/major roads and is considered retail/commercial land use for the water quality analysis.

The existing site does not include water quality or stormwater controls, such as stormwater BMPs, LID features, or hydromodification management facilities. Additionally, stormwater detention and other flood control features are not present on-site. Instead, the existing site manages rainfall and stormwater runoff by overland sheet flow towards Wilson Canyon and primarily toward a series of on-site catch basins and discharges to the City of Los Angeles storm drain line at Olive View Drive.

Typical Pollutants from Project Site

Stormwater runoff from the existing site is typical of developed areas, which include moderate amounts of pollutants. TSS and Trash are common in single-family residential areas and commercial areas. Additionally, nutrients from fertilizers as well as herbicides and pesticides associated with landscape maintenance are also likely to be present in stormwater runoff from the vicinity into Wilson Canyon, as a photo shows from the site reconnaissance on Appendix I. Also, as shown in the photos included in Appendix I, many of the drainage inlets in roadways adjacent to the site include grates or screens to prevent or limit trash from entering the storm drain system and discharging to the receiving water (Wilson Canyon). The site drains to Wilson Canyon Drain, Schoolhouse Drain, and most of it to the Olive View Drive storm drain system. Urban runoff and human activities may generate bacteria and other pollutants around Wilson Canyon and Schoolhouse Canyon.

Table 1 summarizes typical pollutants of concern based on land use. The majority of the pollutants are from the City of Los Angeles Department of Public Works *Low Impact Development Standards Manual.* Also included in this table are other pollutants that the U.S. EPA recognizes to be typically associated with land use present on the project site.

TABLE 1: POLLUTANTS OF CONCERN BY LAND USE

Land Use	Pollutants of Concern													
	Suspended Solids[2]	Total Phosphorus[2]	Total Nitrogen[2]	Total Kjedahl Nitrogen[2]	Cadmium, Total[2]	Chromium, Total[2]	Copper Total[2]	Lead Total[2]	Zinc, Total[2]	Biological Oxygen Demand	Chemical Oxygen Demand	Fecal Coliform[5]	Hydrocarbons[5]	Trash[5]
Commercial	x	x	x	x	[4]	[4]	x	x	x					
Industrial		x	x	x	[4]	[4]	x	x	x					
Transportation (streets, roads)	x	x	x	x	[4]	[4]	x	x	x					
Institutional (educational facilities)	x				[4]	[4]	x		x					
Vacant/Undeveloped[5]	x	x	x	x				x	x					
Project Site	x	x	x	x	x	x	x	x	x	x	x	x	x	x

[1] Adapted from Table A-3 of the *Technical Manual for Stormwater Best Management Practices in the County of Los Angeles* (February 2004) and the Southern California Coastal Water Research Project Land Use Specific Storm Water Monitoring Data. X= exceedance of "standard" by observed median/average concentration; blank = no exceedance of "standard" by observed median/average concentration.
[2] Derived from Table 11 of the 2012 Los Angeles County MS4 Permit (page 104).
[3] Critical facilities include automobile dismantling (SIC 50xx), automobile repair (SIC 75xx), metal fabrication (SIC 34xx), motor freight (SIC 42xx), automobile dealerships (SIC 55xx), chemical manufacturing (SIC 28xx), and machinery manufacturing (SIC 35xx).
[4] No available date to determine if these pollutants of concern originate from this land use. Pollutant is assumed to be produced by this land use unless otherwise proven by the project applicant.
[5] Based on 2006 U.S. EPA *Guide to Stormwater Pollutant Concentrations*.

Pollutants of Concern Based on Receiving Water Impairment

The Clean Water Act (CWA) requires that states adopt water quality standards for receiving waters. Water quality standards designate beneficial uses for the receiving water and include criteria required to support those beneficial uses. Water quality criteria are either narrative statements related to the quality of water to support a particular use or maximum concentrations of levels of pollutants (i.e., bacteria, etc.). As part of the CWA, when monitoring data indicates that a pollutant is exceeded, the receiving water is classified as impaired and placed on the *CWA Section 303(d) List of Water Quality Limited Segments Requiring TMDLs* (303(d) List). A Total Maximum Daily Load (TMDL) is then developed for the pollutant(s) causing the impairment. The purpose of the TMDL is to limit the amount of pollutant(s) discharged to the receiving water from all sources (i.e., stormwater runoff, wastewater, agriculture).

There are several pollutants of concern related to the receiving body of water and include those pollutants with a developed TMDL requirement, other pollutants listed on the 303(d) List, and pollutants of concern for the Sylmar watershed management area based on the *Water Quality Compliance Master Plan for Urban Runoff, 2009.* The project is located adjacent to Wilson Canyon just upstream of the confluence with Schoolhouse Canyon. Table 2 incudes data from the State Water Resources Control Board (SWRCB), based on the combined California 2010 303(d) List and includes pollutants that have a completed TMDL, pollutants that require development of a TMDL, and pollutants that are being addressed by actions other than a TMDL. The project area is located within the Lower Pacoima watershed (Exhibit 5), which was not listed in the 303(d) List. It is, however, within the Tujunga Wash Watershed shown in Figure 2-6 of the Water Quality Compliance Master Plan for Urban Runoff (Appendix F). The table specifically addresses the Tujunga Watershed and Reach 4 of the Los Angeles River into which runoff from the Lower Pacoima Watershed eventually discharges.

TABLE 2: LOS ANGELES RIVER IMPAIRED WATERS 303(d) List[1]

WATER BODY NAME	POLLUTANT	POLLUTANT CATEGORY	TMDL STATUS	USEPA TMDL APPROVED DATE
Los Angeles River Reach 4 (Sepulveda Dr. to Sepulveda Dam)	Copper	Metals/Metalloids	TMDL completed	29-Oct-08
Los Angeles River Reach 4 (Sepulveda Dr. to Sepulveda Dam)	Lead	Metals/Metalloids	TMDL completed	29-Oct-08

WATER BODY NAME	POLLUTANT	POLLUTANT CATEGORY	TMDL STATUS	USEPA TMDL APPROVED DATE
Los Angeles River Reach 4 (Sepulveda Dr. to Sepulveda Dam)	Ammonia	Nutrients	TMDL completed	18-Mar-04
Los Angeles River Reach 4 (Sepulveda Dr. to Sepulveda Dam)	Nutrients (Algae)	Nutrients	TMDL completed	18-Mar-04
Los Angeles River Reach 4 (Sepulveda Dr. to Sepulveda Dam)	Coliform Bacteria	Pathogens	TMDL completed	23-Mar-12
Los Angeles River Reach 4 (Sepulveda Dr. to Sepulveda Dam)	Trash	Trash	TMDL completed	24-Jul-08
Tujunga Wash (LA River to Hansen Dam)	Copper	Metals/Metalloids	TMDL completed	29-Oct-08
Tujunga Wash (LA River to Hansen Dam)	Ammonia	Nutrients	TMDL completed	18-Mar-04
Tujunga Wash (LA River to Hansen Dam)	Coliform Bacteria	Pathogens	TMDL completed	23-Mar-12
Tujunga Wash (LA River to Hansen Dam)	Trash	Trash	TMDL completed	24-Jul-08

[1] 2010 EPA approved 303(d) Final List

Table 3a shows pollutant and other constituent concentrations as measured at the Los Angeles mass emissions site. Pollutants and concentrations are courtesy of Section 5 of the Los Angeles River Watershed Report, 2005 (Appendix E). The project site is located within the Tujunga

Water Management Area, according to Figure 2-6 of the County of LA LID Handbook (Appendix F). Multiple TMDLs are in effect for the Tujunga Watershed Management Area for the following pollutants:

- Metals (Copper and Lead)
- Nutrients (Algae and Ammonia)
- Trash
- Coliform Bacteria

TABLE 3A: ANNUAL MEAN CONCENTRATION FOR CONSTITUENTS MEASURED AT THE LOS ANGELES RIVER MASS EMISSION SITE, 2004-2005.

Constituent	Units	Annual Mean Concentration	Pollutant Category
Alkalinity	ug/l	78.4	Metals/Metalloids
Bicarbonate	ug/l	93.3	Other Organics
BOD	ug/l	29.6	Other Organics
Calcium	ug/l	25.2	Other Organics
Chloride	ug/l	31	Other Organics
COD	ug/l	50.39	Other Organics
Cyanide	ug/l	0.26	Other Inorganics
Dissolved Oxygen	ug/l	7.8	Other Organics
Fluoride	ug/l	0.24	Other Organics
Hardness	ug/l	85	Hardness
Magnesium	ug/l	5.43	Metals/Metalloids
MBAS	ug/l	0.18	Other Organics
Oil and Grease	ug/l	2.1	Other Inorganics
pH	ug/l	7.16	pH
Potassium	ug/l	5.69	Metals/Metalloids
Sodium	ug/l	30.34	Other Organics
Specific Conductivity	ug/l	300	Conductivity
Sulfate	ug/l	39.38	Other Organics
Total Dissolved Solids	ug/l	199	Other Organics
Total Organic Carbon	ug/l	14.49	Other Organics
Total Phenols	ug/l	1.96	Other Inorganics
Total Suspended Solids	ug/l	376	Other Organics
Turbidity	ug/l	52	Turbidity
Ammonia	ug/l	1.26	Other Organics

Constituent	Units	Annual Mean Concentration	Pollutant Category
Dissolved Phosphorus	ug/l	0.23	Other Organics
NH3-N	ug/l	1.03	Other Organics
Nitrate	ug/l	5.83	Other Organics
Total Phosphorus	ug/l	0.42	Other Organics
Fecal Coliform	ug/l	190,034	Bacteria
Enterococcus	ug/l	248,100	Bacteria
Total Coliform	ug/l	1,600,260	Bacteria
Total Aluminum	ug/l	2,378	Metals/Metalloids
Total Arsenic	ug/l	2.27	Metals/Metalloids
Total Cadmium	ug/l	0.64	Metals/Metalloids
Total Copper	ug/l	36.8	Metals/Metalloids
Total Lead	ug/l	29.9	Metals/Metalloids
Total Selenium	ug/l	2.57	Metals/Metalloids
Total Zinc	ug/l	127	Metals/Metalloids

Table 3b and Appendix K of the County of LA LID Handbook list the pollutants of concern for the Los Angeles River Watershed Management Area in which the project site occurs.

TABLE 3B: TIER 3 POLLUTANTS OF CONCERN FOR THE LOS ANGELES RIVER WATERSHED MANAGEMENT AREA

Parameter	Parameter
pH	Total Dissolved Solids
E. *coli* Bacteria	Turbidity
Total Coliform Bacteria [1]	Aluminum, Total Recoverable
Fecal Coliform Bacteria[1]	Cyanide, Total Recoverable
Enterococcus Bacteria [1]	Copper, Total Recoverable
Chloride	Mercury, Total Recoverable
Nitrite Nitrogen, Total (as N)	Selenium, Total Recoverable
Sulfate	

[1] Apply only to discharges to the estuary and the ocean

Total Maximum Daily Loads

A TMDL is a regulatory term in the U.S. CWA, describing the value of the maximum amount of a pollutant that may enter a water body while still meeting water quality standards. There are several listed TMDLs for the Los Angeles River area in Table 4 below from the Los Angeles Region's *Basin Plan* (Appendix M) and from the 2010 US EPA approved 303d list. Among those listed are: trash, cadmium, copper, lead, selenium, zinc, chlordane, dichlorodiphenyltrichloroethane (DDTs), Total PCBs, E. coli bacteria, fecal coliform, Enterococcus, and total coliform. The loading capacities for each pollutant are:

TABLE 4: TMDLS FOR LOS ANGELES RIVER

Pollutant	Loading Capacity (ug/L)
Trash	0
Total Recoverable Metals	
Copper	18
Lead	55
Selenium	5
Zinc	119
Toxic Pollutants (Sediment)	
Cadmium	1.2
Copper	34
Lead	46.7
Silver	1
Chlordane	0.5
DDT	1.58
Total PCBs	22.7
Total PAH	4,022
E. Coli (MPN)	126
Fecal Coliform (MPN)	200

Summary

Table 5 summarizes potential pollutants from the site based on land use along with pollutants of concern from the various sources described above and Table 6 summarizes pollutants of concern specific to the Los Angeles River (Appendix E). Tables 7A and 7B summarizes pollutant influent based on the land use areas in Tier 1 of the Olive View - UCLA Medical Center project.

TABLE 5: SUMMARY OF POTENTIAL POLLUTANTS AND POLLUTANTS[1] OF CONCERN

Nutrients	Metals	Organics	Other	Pathogens	Sediment/Solids
Kjedahl Nitrogen	Cadmium	BOD	Chlordane	Coliform Bacteria	Suspended Solids
Total Nitrogen	Chromium	COD	pH	Viruses	Total Dissolved Solids
Total Phosphorous	Copper	DDT	Sulfate	E. coli Bacteria	Turbidity
Ammonium	Lead	DO	Trash		
Magnesium	Selenium	Hydrocarbons	Chlordane		
Nitrate	Silver	TOC	Calcium Bicarbonate		
Nitrite	Zinc	PAH	Chloride		
Algae	Aluminum	PCB	Cyanide		
Potassium	Arsenic	Phenols	Fluoride		
	Mercury		Hardness		
			MBAS		
			Sodium		

[1] Pollutants from the 2010 U.S. EPA approved 303(d) list.

TABLE 6: POLLUTANTS OF CONCERN FOR LOS ANGELES RIVER

Constituent	Constituent of Concern	Comparison to 303(d) List
Cyanide	•	
Enterococcus	•	•
Fecal Coliform	•	•
Total Coliform	•	•
Algae		•
Ammonia		•
Oil and Grease		•
Total Aluminum	•	•
Total Copper	•	
Total Lead	•	•
Total Zinc	•	
Dissolved Cadmium		•
Dissolved Copper	•	•
Dissolved Lead	•	•
Dissolved Zinc	•	•
Chlordane		•
Dichloroethylene		•
Tetrachloroethylene		•
Trichloroethylene		•
Alkalinity		•
Bicarbonate		•

TMDL Information courtesy of Section 5 of the *Los Angeles River Watershed Final Report*, August 2005 (Appendix E).

TABLE 7A: TIER 1 VACANT/OPEN AREA POLLUTANT LOADS

Pollutant	Concentration (lbs/acre-yr)	Annual Load (lbs/yr)
TSS	3.0	199
TP	0.0	2
TKN	1.5	100
NH_3-N	NA	-
NO_2+NO_3-N	0.3	20

Pollutant	Concentration (lbs/acre-yr)	Annual Load (lbs/yr)
BOD	NA	-
COD	2.0	133
Pb	0.0	0
Zn	NA	-
Cu	NA	-

[1]Annual loads are courtesy of EPA *Guide to Urban Stormwater Pollutant Concentrations*, 2006.
[2] While Selenium is listed as a pollutant of concern in the 303(d) list, the rate is expected to have similar performance rates during modeling as the other heavy metals and was therefore omitted from the pollutant levels.

TABLE 7B: TIER 1 RETAIL/COMMERCIAL POLLUTANT LOADS

Pollutant	Concentration (lbs/acre-yr)	Annual Load (lbs/yr)
TSS	1000	66,400
TP	1.5	100
TKN	6.7	445
NH_3-N	1.9	126
NO_2+NO_3-N	3.1	206
BOD	62	4,117
COD	420	27,888
Pb	2.7	179
Zn	2.1	139
Cu	0.4	27

[1]Annual loads are courtesy of EPA Guide to Urban Stormwater Pollutant Concentrations, 2006.
[2] While Selenium is listed as a pollutant of concern in the 303(d) list, the rate is expected to have similar performance rates during modeling as the other heavy metals and was therefore omitted from the pollutant levels.

Groundwater

As indicated on the groundwater basin exhibit (Exhibit 6), the project is located along the northeastern edge of the Sylmar water basin, which is a sub-basin of the Upper Los Angeles River Area basins. It is located a significant distance from existing stormwater spreading grounds shown in Exhibit 9. As such, stormwater runoff from the site will not provide recharge into existing stormwater spreading grounds or introduce pollutants into these spreading grounds.

The Olive View -UCLA Medical Center is within the geographic boundaries of the Sylmar Groundwater Basin (Sylmar Basin) of the Upper Los Angeles River Area (ULARA) basins. According to the ULARA Watermaster website the Sylmar Basin, located in the northern portion of ULARA, consists of 5,600 acres of land with a storage capacity of 310,000 acre-feet, making up 4.6 percent of the ULARA valley fill. The basin contains flows generally towards to the southeast, with levels ranging from 15 to100 ft below ground surface. Water levels in this basin have been fairly stable over about the past 20 years, since adjudication of the basin. There are no significant contaminant plumes in the local Sylmar basin (City of Los Angeles *Granada Hills-Knollwood & Sylmar Community Plans Draft EIR*, Oct 2012).

According to the *Groundwater Assessment Study* by The Metropolitan Water District of Southern California, the Sylmar Groundwater Basin is recharged through the Lopez, Pacoima, and Branford spreading grounds along Pacoima Wash and Hansen and Tujunga spreading grounds along Tujunga Wash. The spreading grounds are all located South of the site. Exhibit 10 notes their locations.

Water Supply

Based on preliminary utility research presented in the *Master Plan*, water service for Olive View - UCLA Medical Center is provided by the City of Los Angeles Department of Water and Power (LADWP). Existing water use is approximately 99,706 units/year based on the Los Angeles County Utility System Billing summary from March 2015 through February 2016, where each unit equals 100 cubic feet (748 gallons). Total use is approximate 74.58 million gallons (MG).

According to the Water Quality section of the LADWP's website, approximately 15% of the water is obtained from local groundwater wells. Remaining water supply sources includes approximately 60% from the Eastern Sierra via the Los Angeles Aqueduct system and from the Metropolitan Water District's Colorado and Feather River supplies. Approximately 80% of the groundwater utilized is from the San Fernando basin, which is partially shown on Exhibit 9.

The LADWP is allotted 3,570 ac-ft of water per year for safe yield from the Sylmar Groundwater Basin (ULARA Watermaster). Water pumped from the Sylmar Groundwater Basin accounted for approximately four-percent of the groundwater utilized for drinking, and approximately 0.5-percent of all drinking water sources in 2001 (City of Los Angeles *Granada Hills-Knollwood & Sylmar Community Plans Draft EIR*, Oct 2012).

Depth to Groundwater

According to the *Preliminary Geotechnical Evaluation* prepared by Ninyo & Moore the groundwater at the site has an historic high of 120 ft below ground surface, with levels ranging on average from 120 to 200 ft below ground surface. The evaluation also stated "Groundwater levels may be influenced by seasonal variations, precipitation, irrigation, soil/rock types, groundwater pumping, and other factors and are subject to fluctuations. On- site infiltration of storm water related to LID guidelines may have an impact on existing and planned site improvements and should be evaluated during the detailed design phase of the project."

Due to its depth, groundwater is not expected to have a significant impact on excavation or other construction activities. However, the *Preliminary Geotechnical Evaluation* suggested that portions of the site located in the northeast region of the project area near the mouth of Wilson Canyon are potentially susceptible to liquefaction due to sections of shallow groundwater. Potentially liquefiable areas are noted in Exhibit 12.

Recharge

Soils within the project site are Ramona Loam, Hanford Gravelly Sandy Loam, and Hanford Fine Sandy Loam (Exhibit 8). On the northern portion of the site there exists Los Angeles River soil which consist mainly of recent alluvial deposits. The *Preliminary Geotechnical Evaluation* categorized the northern and western portions of the site as being "underlain by Pacoima Formation and older alluvium comprised of weakly consolidated sand and gravel." The evaluation also notes that the southern region of the site, the location of existing improvements, and the area at the base of Wilson Canyon in the east as being "underlain by young (Holocene) alluvial deposits generally comprised of gravel, sand and clay sediments." These soil types have a relatively high conductivity and based on the continuous simulation modeling results discussed in the Hydrologic Analysis section, approximately 3.8 inches or 33-percent of the annual rainfall on the Tier 1 area infiltrates in existing conditions. As such, recharge is expected to occur into the Sylmar basin.

Due to soils with poor cohesion, pre-existing undeveloped areas and steep slopes present at the site, the *Preliminary Geotechnical Evaluation* (Ninyo and Moore 2106) concluded there is a potential for erosion, especially along the northern edge of the campus where steeper slopes are found. The evaluation also suggested the creation of a Storm Water Pollution Prevention Program (SWPPP) incorporating BMPs to mitigate soil erosion.

Contamination

Based on the *Phase 1 Hazardous Materials Assessment* prepared by Ninyo & Moore (March 11, 2016) there were no reports of Groundwater Contamination in the Sylmar Basin.

HYDROLOGY

Elevations within the Olive View - UCLA Medical Center campus range from a low of approximately 1,415 feet (ft) in the southwestern portion of the campus to a high of approximately 1,540 ft in the northwestern portion (Exhibit 4). Overland flow within the site is generally from north to south. The Santa Monica Mountains run along the northern extent of the campus, surrounding the site in trees and understory vegetation.

The Wilson Canyon Drainage Channel runs parallel to the western site boundary and overland flow in this vicinity is generally South-Southwest towards Olive View Drive and ultimately into the Wilson Canyon Channel. Wilson Canyon Channel joins the underground storm drain system at the intersection of Astoria Street and Dronfield Avenue. Wilson Canyon Channel is a concrete structure that serves as a major flood control facility for the site and surrounding areas.

There are currently two watersheds north of project site, the Wilson Canyon Channel watershed and the Mansfield Channel watershed, with an average 50-year storm event of 4,690 cubic feet per second (cfs) (*Master Plan*). The runoff from these areas is conveyed through the Schoolhouse Canyon Diversion to the Pacoima Wash located at the southeast corner of the Pacoima Canyon and May Canyon. The Wilson Canyon Channel watershed is 1,959 acres and has a 3,758 cfs 50-yr storm event discharge (*Master Plan*). The Mansfield Channel watershed is 455 acres and has a 932 cfs 50-yr storm event discharge (*Master Plan*).

As discussed, the existing site does not appear to include water quality or stormwater controls, such as stormwater BMPs, LID features, or hydromodification management facilities. Additionally, stormwater detention and other flood control features were not observed on-site. Instead, the existing site manages rainfall and stormwater runoff with vertical roof drains, catch basins and drain inlets, underground storm drain systems, curbs, gutters, overland sheet flow, driveways, and other means of conveyance into the on-site and off-site storm drain system.

Impervious cover at the site is 65% in Tier 1, thus LID techniques will employ tactics that utilize the availability of undeveloped land. Additionally, stormwater management and runoff is typical of urbanized runoff from other sites with a similar period of construction. According to the preliminary geotechnical survey “Storm water catch basins and drains were observed throughout the site during the site reconnaissance. Storm water channels trending north-south were observed at the western and eastern ends of the site.”

Stormwater runoff for proposed undeveloped conditions from Wilson Canyon drainage area and the Olive View Drive storm drainage area in Tier 1 is estimated at 37.2 inches (in), or 1.0 in/year, based on continuous simulation analysis of the period of record from 1970 – 2006 (37 years). For existing conditions, stormwater runoff is 184.5 in (5.0 in/yr) for the same time-frame due to the high percentage of impervious area (65%) in Tier 1. Details on the hydrologic modeling performed for this project are included in the Hydrologic Analysis section below.

Due to the high percentage of undeveloped land at the Olive View site there is a high probability of erosion and sedimentation coming from the northern portion of the site where the campus meets the Angeles Forest. Visual observation at the site noted prior attempts to mitigate erosion and direct flows through the use of dirt mounds and k-rails.

HYDRAULICS

From the *Master Plan* and visual observations during site reconnaissance, the existing storm drain system for the Olive View - UCLA Medical Center campus utilizes vertical roof drains, underground storm drain pipes, overland sheet flow, curbs, gutters, catch basins, and driveways to convey stormwater runoff to the existing public system owned and operated by Los Angeles County Flood Control District (LACFCD).

As observed by the *Master Plan,* the City of Los Angeles owns and maintains the Olive View Drive storm drain that ranges in size from 30-inches to 60-inches and discharges to a Los Angeles County Flood Control District's Foothill Freeway 5.0' x 5.0' Reinforced Concrete Box. There are currently two (2) storm drain laterals to the site. One ties into the catch basin downstream of Mansfield Channel and the other ties into an existing 36-inch reinforced concrete pipe from the hospital site. The Olive View Drive storm drain system is estimated to have a minimum existing capacity of 26 cfs. The Olive View Drive storm drain system is assumed to have adequate capacity for existing peak discharges from the site. The Schoolhouse Debris Basin, tied into the Mansfield Channel is designed to store 19 acre-feet of debris and drain an area of 0.28 square miles. The Wilson Debris Basin is designed to store 84 acre-feet (ac-ft) of debris and drain an area of 2.6 square miles.

Since hydrology and hydraulics models for the open channel systems were not provided by the County, the existing capacity of these systems is not known from available data. However, the 100-year, 24-hour design storm event is mapped in an approximate Zone A as being contained within the Wilson Canyon drain. The Schoolhouse Canyon drain is not a FEMA-studied stream and information on capacity is not available. The open channel systems are assumed to have adequate capacity for existing peak discharges from the site.

In the event that sheet flow leaves the project site, inlets are regularly spaced within the public roadways bordering the campus. As shown in the photos included in Appendix I, some of these inlets include the benefits provided by grates that help prevent trash from entering the storm drain system and the Los Angeles River watershed.

Flooding and Hazards

Flood Plain

The project site is located within Zone X on the FEMA Flood Insurance Rate Map. The site is located on Panel 1075F, updated September 28, 2008. The area is located between the Wilson Canyon and Schoolhouse drainage channels which have a 1% annual chance of flood discharge.

However, the area due north of the site is labeled as Zone D, meaning there are possible but undetermined flood hazards due to lack of analysis of the area.

There is no flood plain or flood fill proposed as part of this project and no houses, buildings, or structures will be placed within the 100-year flood plain as a result of this project. The 100-year flood plain is shown in Exhibit 13. A hydraulic model was not developed for this project.

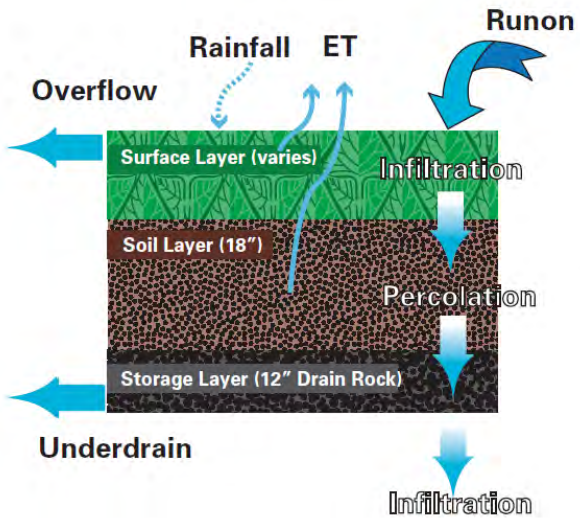
Dam Failure and Other Hazards

As shown in the Dam Hazard Inundation map included in Appendix J from the City of Los Angeles *Hazard Mitigation Plan*, dated January, 2011 and adopted July, 2011, the project site is not located within a potential inundation area for dam failure. The nearest dam is the Pacoima Dam, and possible inundation area is located east of the Olive View site, as noted in Figure M-1 of Appendix I. Similarly, the project site is not located within a potential tsunami inundation area or seiche (Figure O-1). However, due to its foothill location, the site is potentially subject to liquefaction/landslides (Exhibit 12).

HYDROLOGIC ANALYSIS

The U.S. Environmental Protection Agency's (EPA)'s Storm Water Management Model (SWMM) 5.1 was utilized for the LID design storm and continuous simulation modeling in this project. The current version of SWMM includes LID controls and detailed analysis options not previously included in SWMM5. The SWMM model is also a publicly-available model. The SWMM model accounts for infiltration through various LID layers, evapotranspiration, infiltration into the native soil, and overflows and discharge from the LID facilities as illustrated in Figure 1.

Figure 1: LID Components and Processes Modeled in SWMM



Recent studies by the EPA cited in the report entitled *SUSTAIN – A Framework for Placement of Best Management Practices in Urban Watersheds to Protect Water Quality* found similar results for analysis of aggregated (lumped) LID controls in drainage sub-areas of 100 ac or more as compared to micro-drainage sub-areas for each lot and LID control (distributed approach). For a 128-acre drainage sub-area, the difference in peak flows between the aggregated and distributed approaches computed in the EPA study is four-percent. Similar positive findings with regards to the aggregated approach were also reported by the City of Portland's Bureau of Environmental Services in a paper entitled *Modeling Non-Directly Connected Impervious Areas in Dense Neighborhoods.*

Recent studies by the EPA cited in the report entitled *SUSTAIN – A Framework for Placement of Best Management Practices in Urban Watersheds to Protect Water Quality* found similar results for analysis of aggregated (lumped) LID controls in drainage sub-areas of 100 ac or more as compared to micro-drainage sub-areas for each lot and LID control (distributed approach). For a 128-acre drainage sub-area, the difference in peak flows between the aggregated and distributed approaches computed in the EPA study is four-percent. Similar positive findings with regards to the aggregated approach were also reported by the City of Portland's Bureau of Environmental Services in a paper entitled *Modeling Non-Directly Connected Impervious Areas in Dense Neighborhoods*.

Since the area of the Olive View - UCLA Medical Center EIR Tier 1 boundary is approximately 72.6 ac with DA1 encompassing 31.1 ac and DA2 encompassing 41.5 ac and well under the threshold for using the aggregated method, the aggregated modeling approach was used for this project to increase modeling efficiencies. Peak flow rates are expected to be within three-percent of those computed using the distributed approach and volumes are expected to be within approximately four-percent (EPA *Sustain* Report Table 3-18). As indicated previously, only Tier 1 is modeled for this study due to the longer time-frame and uncertainty around the extent of future Tier 2 development.

Table 1 in Appendix B lists hydrologic parameters associated with the site. Proposed conditions parameters are based on the LID layout included in the *Master Plan* (Appendix G). Existing and conditions parameters area estimated and may not precisely reflect conditions as soils, topographic, and other detailed data is not available.

According to Ninyo and Moore's *Preliminary Geotechnical Report* dated March 18, 2016, the medical center has varying geology. The upper, elevated northwestern portion of the site is underlain by Tertiary-age Towsley Formation generally comprised of cobble conglomerate and coarse-grained sandstone, and Cretaceous-age metamorphic rocks. Other elevated hillside areas in the western, northern and eastern portions of the site are mapped as being underlain by Pacoima Formation and older alluvium comprised of weakly consolidated sand and gravel. The lower southern portion of the site, where the existing improvements are located, and the eastern portions of the site at the base of Wilson Canyon are mapped as being underlain by young (Holocene) alluvial deposits generally comprised of gravel, sand and clay sediments. A regional geologic map including soil types of the site vicinity is shown on Exhibit 8.

The Green & Ampt method, which is based on physically-measurable soil parameters and has been used successfully on other LID projects in the region, is used to estimate losses due to infiltration. Based on Exhibit 8, native underlying soils at the sites are assumed to be sandy loam with saturated hydraulic conductivity rates of approximately 0.43 inches/hour. The suction head and initial deficit parameters shown in Table 2 are estimated for sandy loam type soil from standard soils texture tables. Since details on the area treated by each LID feature are not included in the *Master Plan* (Appendix G), it was assumed that permeable pavement treats permeable pavement only with no off-site contributing area and that bioretention treats the remainder of each drainage area.

The Olive View - UCLA Medical Center project site is located in the Lower Pacoima wash (Exhibit 5) and within the Sylmar groundwater Basin (Exhibit 9). Exhibit 6A illustrates the existing and proposed drainage areas within the site for the 2 outfall locations. The land use of the area to the North, East and West of the site is vacant/undifferentiated. Land use South of the site consists of freeways/major roads, low-rise apartments, and low-density single family residential (Exhibit 7). The land use of the site itself is classified as Major Medical Health Care Facilities with a roughly 65% impervious cover.

Rainfall hyetographs are developed using the rainfall data downloaded from the Los Angeles County Department of Public Works Hydrology website as shown in Exhibits 12 through 14, and adjusted using the Design Storm Unit Hyetograph table from Appendix A in the Los Angeles County Department of Public Works Hydrology Manual (*Hydrology Manual*), dated January 2006 (Appendix B). Table 1 in Appendix C lists hydrologic parameters associated with the site. Proposed conditions parameters are based on the *Olive View – UCLA Medical Center Campus Master Plan* by SmithGroup (Appendix G) and the assumed LID size and configuration complies with the County of Los Angeles *LID Manual*. Existing conditions parameters are estimated from available data.

The suction head and initial deficit parameters shown in Table 2 of Appendix C are estimated for a sandy loam from standard soils texture tables and further details on data sources are included in this table. Soil types for the project area and watershed drainage areas were determined by using the soil types found in Exhibit 8 (Soil Map) and classifying the predominant soil type as sandy loam. The three types of soil used from the map were Hanford Fine Sandy Loam as sandy loam, Hanford gravelly sandy loam as sandy loam, and Upper Los Angeles River as sandy loam. Green & Ampt parameters for these soils types were also estimated from standard *Sustain* tables in the EPA *Sustain User's Manual*.

Design Storm Results

The two-year, ten-year, and 100-year, 24-hour design storm events are modeled to assess runoff during an event similar to the water quality event, an event representative of storm drain sizing, and an extreme flood control event, respectively. As shown in Table 1 of Appendix C, the two-year, 24-hour, ten-year, 24-hour and 100-year, 24-hour rainfall depths at the site are 2.83, 5.23 and 8.21 in, respectively. Exhibits 12, 13, and 14 each detail the rainfall depths for the respective events. As indicated above, the design storm rainfall data is derived from the Los Angeles County *Hydrology Manual* dated January 2006 (Appendix B). The rainfall hyetographs are used by SWMM to compute the design storm runoff hydrographs from the site.

As shown in Tables 5A and 5B of Appendix C, proposed conditions peak flows in drainage area 1 (DA1) with the bioretention features are 12-percent less than existing flows from the site for the two-year, 24-hour event and 13-percent and 16-percent less than existing for the ten-year, 24-hour and 100-year, 24-hour events, respectively. Specifically, the existing two-year peak flow is 10 cubic feet per second (cfs) and the proposed two-year peak flow is 9 cfs, the ten-year existing peak flow is 20 cfs and the proposed peak flow is 17 cfs, and the 100-year existing peak flow is 36 cfs and the proposed peak flow is 30 cfs.

Proposed conditions peak flows in drainage area 2 (DA2) with the bioretention features are 100-percent less than existing flows from the site for the two-year, 24-hour event and 94-percent and 41-percent less than existing for the ten-year, 24-hour and 100-year, 24-hour events, respectively. Specifically, the existing two-year peak flow is 16 cubic feet per second (cfs) and the proposed two-year peak flow is zero cfs, the ten-year existing peak flow is 32 cfs and the proposed peak flow is 2 cfs, and the 100-year existing peak flow is 57 cfs and the proposed peak flow is 34 cfs.

Figures 2A through 4B depict runoff hydrographs from the site for the 2-year, 24-hour, 10-year, 24-hour and 100-year, 24-hour design storm events, respectively, for DA1 and DA2. As described, the proposed LID conditions peak flows and runoff volumes are illustrated by the maximum value of the runoff hydrographs and the area under the hydrograph curves, respectively. Additionally, the shapes of the proposed LID conditions runoff hydrographs generally match the shapes of the existing conditions runoff hydrographs or fall within the existing conditions runoff hydrographs. As such, the proposed Tier 1 project contributes less excess urban runoff volume that can lead to stream hydromodification than does the existing Tier 1 project area. Note that final modeling and sizing may result in additional hydrograph lagging.

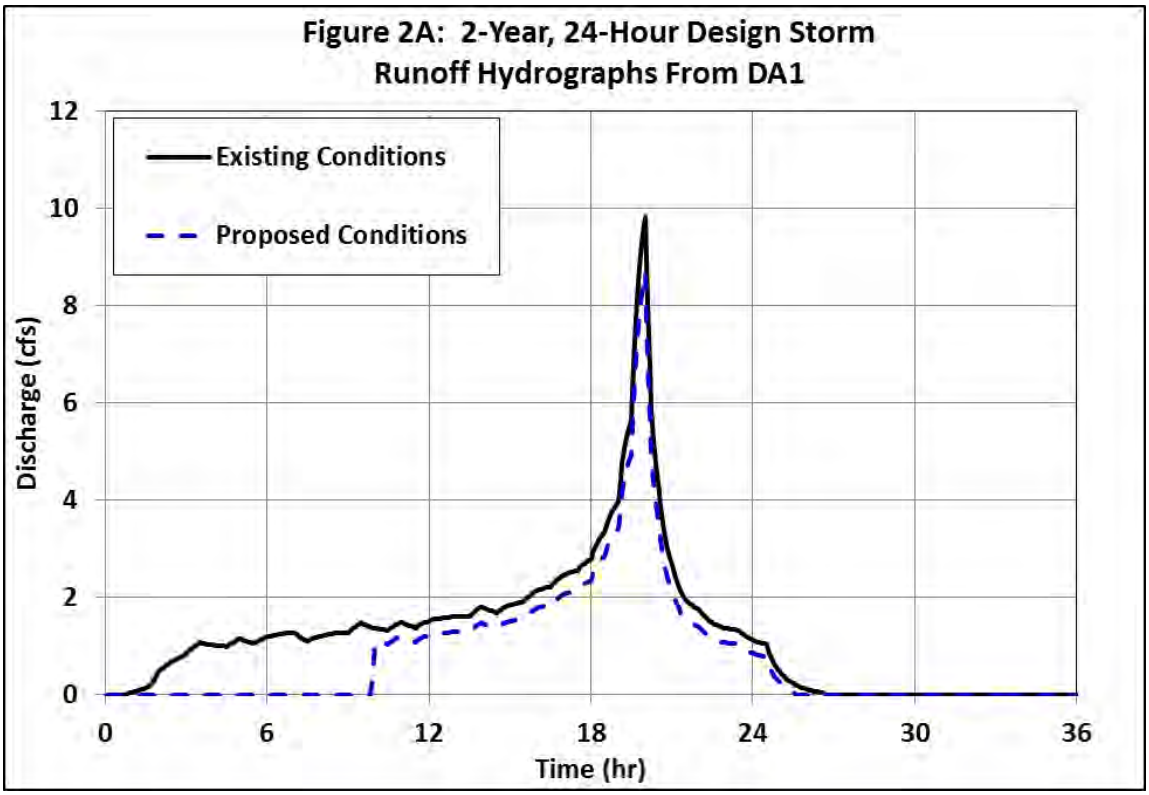


Figure 2A: 2-Year, 24-Hour Design Storm
Runoff Hydrographs From DA1
Existing Conditions
Proposed Conditions
Discharge (cfs)
Time (hr)
0
2
4
6
8
10
12
0
6
12
18
24
30
36

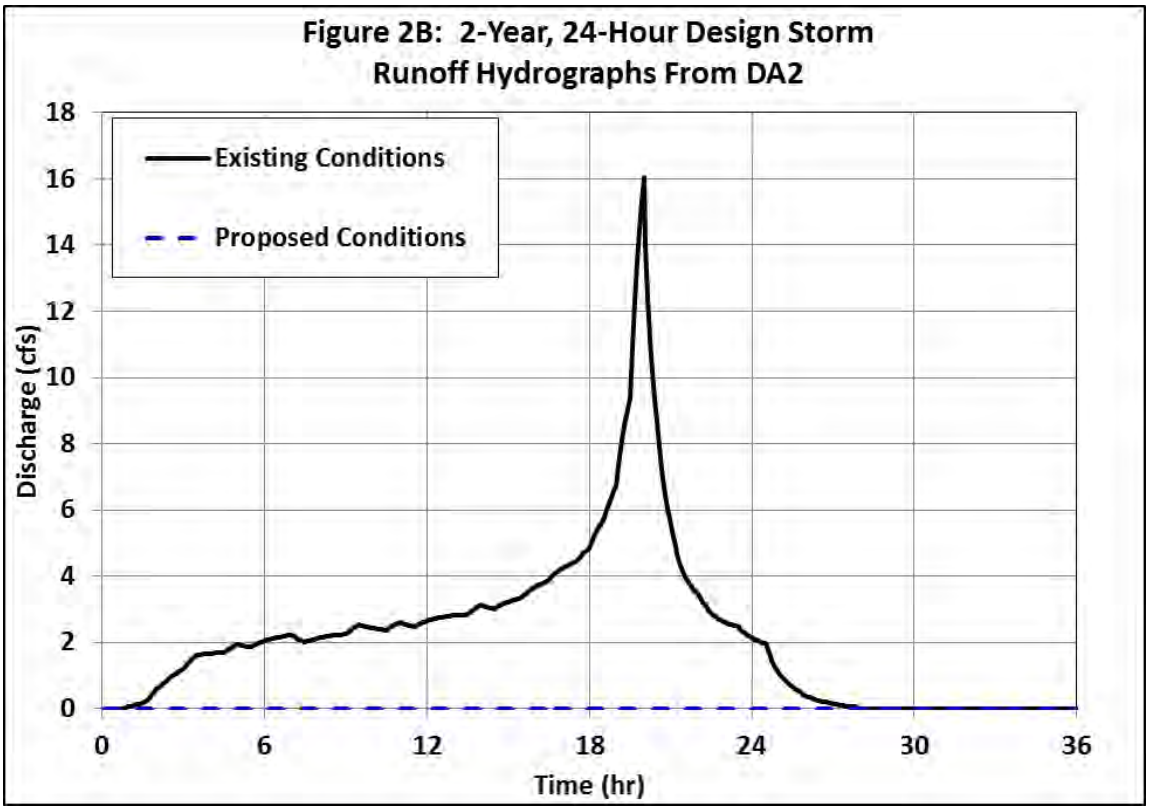


Figure 2B: 2-Year, 24-Hour Design Storm
Runoff Hydrographs From DA2
Existing Conditions
Proposed Conditions
Discharge (cfs)
Time (hr)
0
2
4
6
8
10
12
14
16
18
0
6
12
18
24
30
36

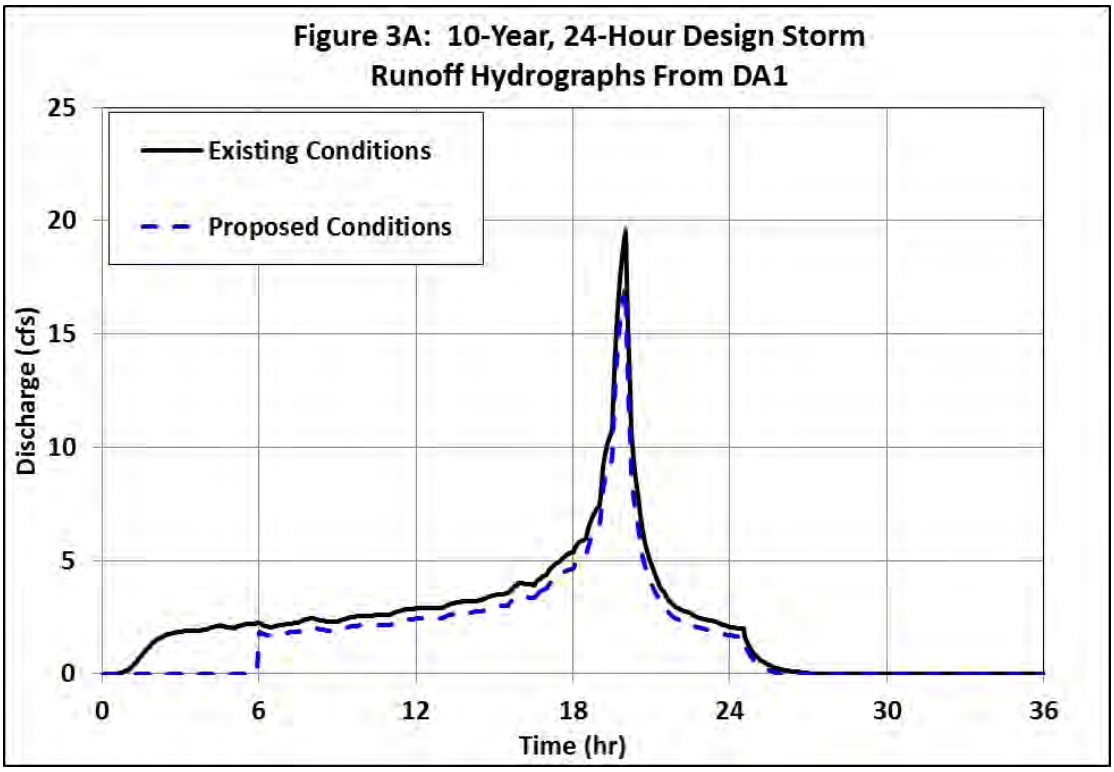


Figure 3A: 10-Year, 24-Hour Design Storm
Runoff Hydrographs From DA1
Existing Conditions
Proposed Conditions
Discharge (cfs)
Time (hr)
0
5
10
15
20
25
0
6
12
18
24
30
36

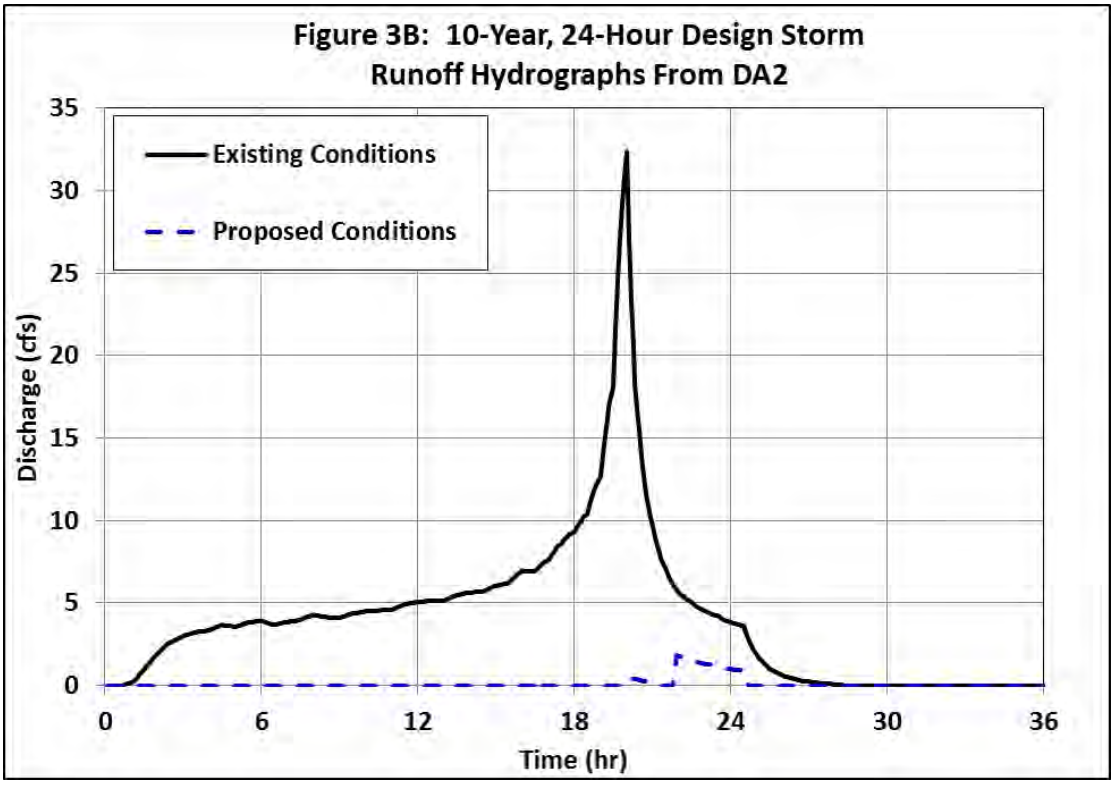


Figure 3B: 10-Year, 24-Hour Design Storm
Runoff Hydrographs From DA2
Existing Conditions
Proposed Conditions
Discharge (cfs)
Time (hr)
0
5
10
15
20
25
30
35
0
6
12
18
24
30
36

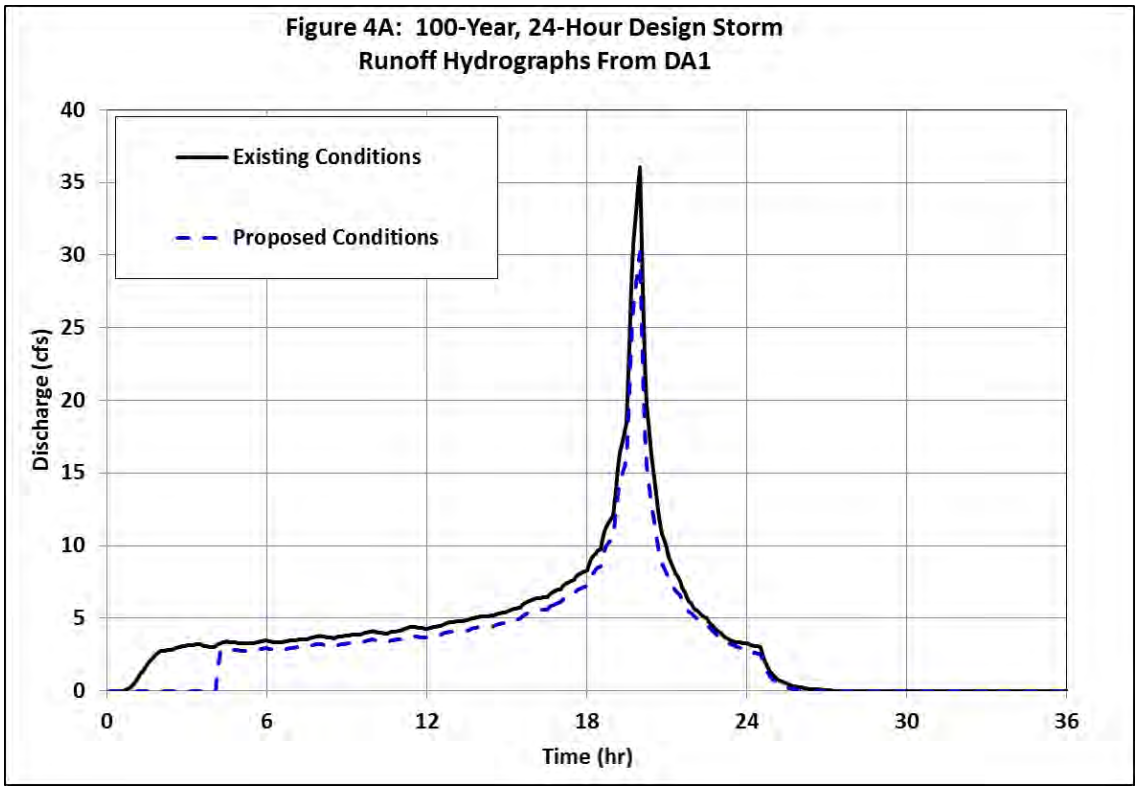


Figure 4A: 100-Year, 24-Hour Design Storm
Runoff Hydrographs From DA1
Existing Conditions
Proposed Conditions
Discharge (cfs)
Time (hr)
0
5
10
15
20
25
30
35
40
0
6
12
18
24
30
36

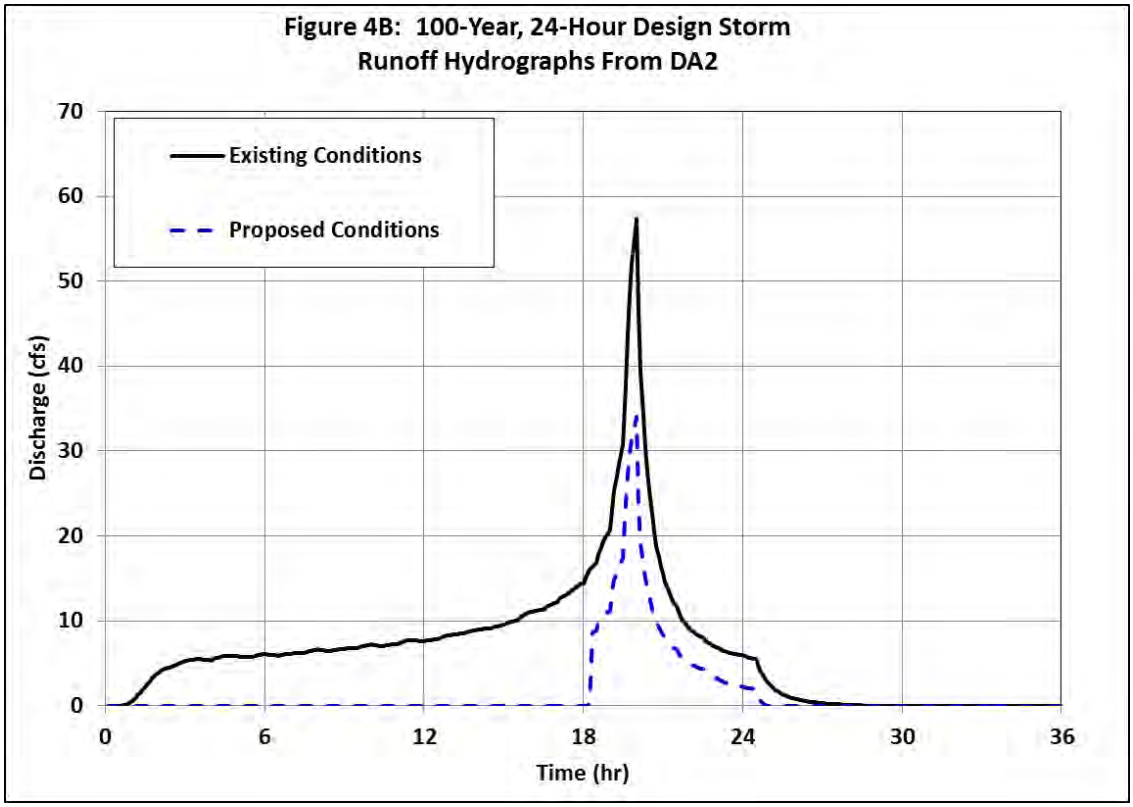


Figure 4B: 100-Year, 24-Hour Design Storm
Runoff Hydrographs From DA2
Existing Conditions
Proposed Conditions
Discharge (cfs)
Time (hr)
0
10
20
30
40
50
60
70
0
6
12
18
24
30
36

Figures 5 through 8 illustrate storage depths within the following layers of the LID feature alternatives at the site:

- 18-inch surface storage layer of bioretention
- 24-inch growing media layer of bioretention (not included in graphs)
- 24-inch gravel (storage reservoir) layer of permeable pavement

While not modeled, dry wells may be substituted for permeable pavement or bioretention in parking lots and is assumed to provide similar performance to meet minimum LID and water quality requirements.

Note that typical assumptions were made regarding the geometric configuration of the LID features (Table 4 of Appendix C). Additionally, assumptions on impervious area treated by the LID feature are listed in Table 3 of Appendix C. During the final design and modeling, it is possible that the hydrologic performance can be improved through changes in geometric configuration of the bioretention and permeable pavement or incorporation of additional LID features. Additionally, the LID features within Tier 1 cover only 2.3-percent of the Tier 1 surface area. Increases in the extent of coverage within Tier 1 will improve the hydrologic and water quality performance of the LID features.

For DA1, the permeable pavement water surface in the drain rock layer reaches a maximum of approximately 8 in in the 2-year event, 10 in in the 10-year event, and about 24 in in the 100-year design storm events. The bioretention surface depth for DA1 is at 18 in with a drain down time of about 41 hours for the 2-year, 10-year event, and 100-year events. Initial storage depths in the permeable pavement gravel storage layer is due to the assumed saturation of 30-percent for the design storm events.

For DA2, the permeable pavement water surface in the drain rock layer also reaches a maximum of approximately 8 in in the 2-year event, 8 in in the 10-year event, and also about 24 in in the 100-year design storm events. The bioretention surface depth for DA2 is about 7 in with a drain down time of about 15 hours for the 2-year, and at 18 in with a drain down time of about 42 hours for the 10-year and 100-year events.

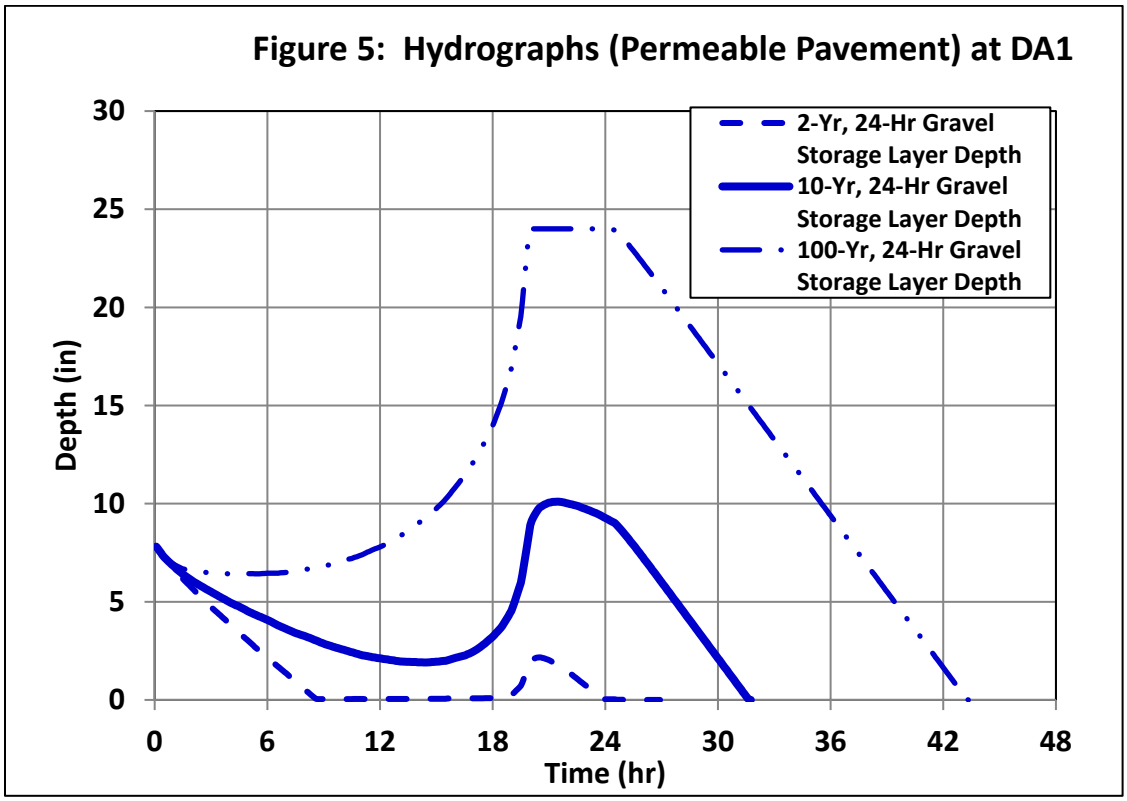


Figure 5: Hydrographs (Permeable Pavement) at DA1
Depth (in)
Time (hr)
2-Yr, 24-Hr Gravel Storage Layer Depth
10-Yr, 24-Hr Gravel Storage Layer Depth
100-Yr, 24-Hr Gravel Storage Layer Depth
0
5
10
15
20
25
30
0
6
12
18
24
30
36
42
48

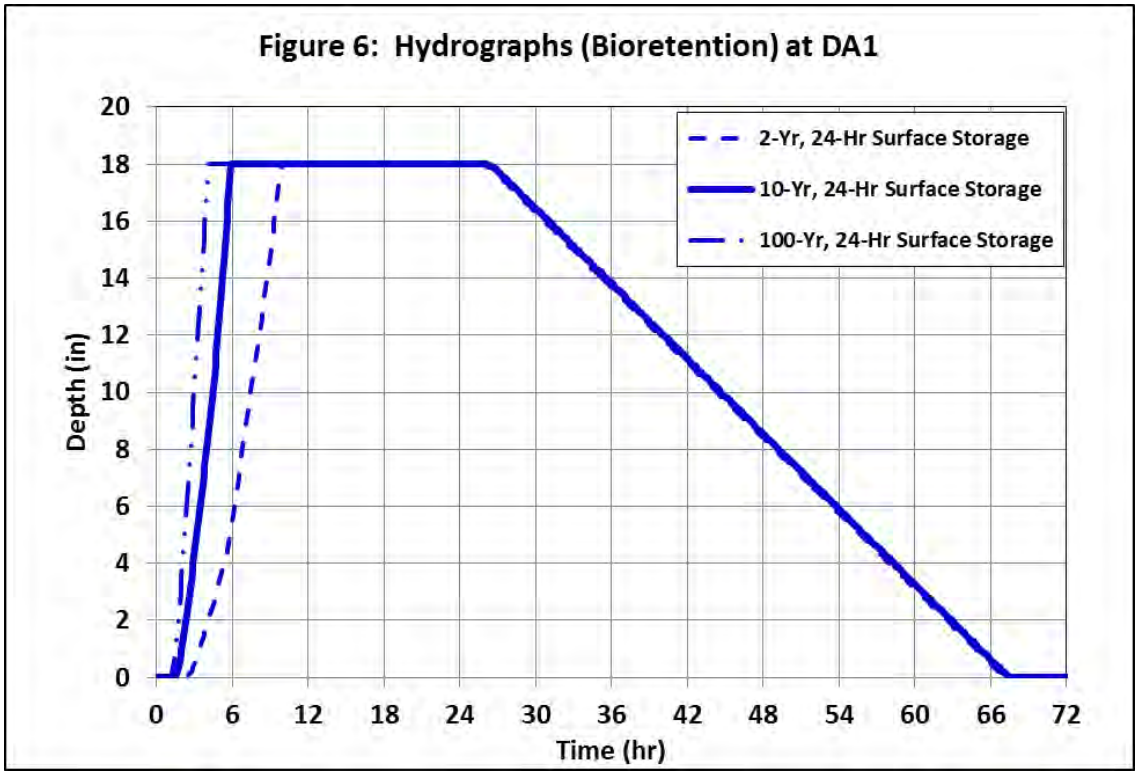


Figure 6: Hydrographs (Bioretention) at DA1
Depth (in)
Time (hr)
2-Yr, 24-Hr Surface Storage
10-Yr, 24-Hr Surface Storage
100-Yr, 24-Hr Surface Storage
0
2
4
6
8
10
12
14
16
18
20
0
6
12
18
24
30
36
42
48
54
60
66
72

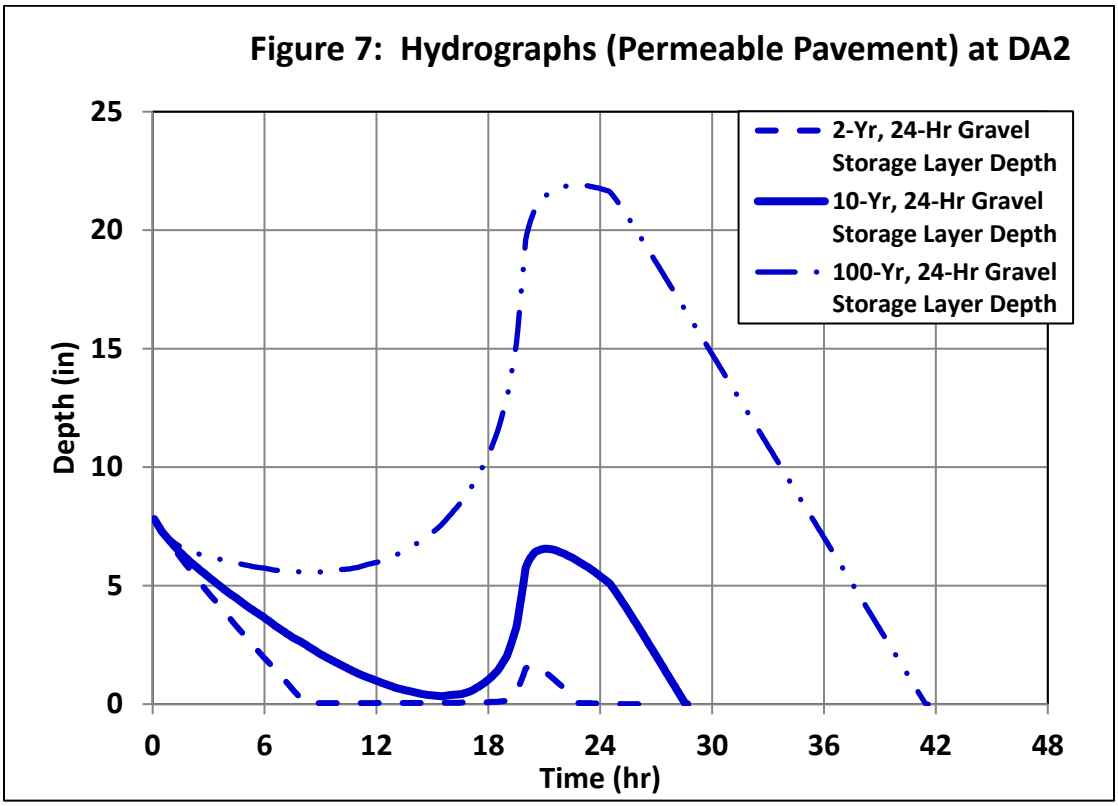


Figure 7: Hydrographs (Permeable Pavement) at DA2
Depth (in)
Time (hr)
2-Yr, 24-Hr Gravel Storage Layer Depth
10-Yr, 24-Hr Gravel Storage Layer Depth
100-Yr, 24-Hr Gravel Storage Layer Depth
0
5
10
15
20
25
0
6
12
18
24
30
36
42
48

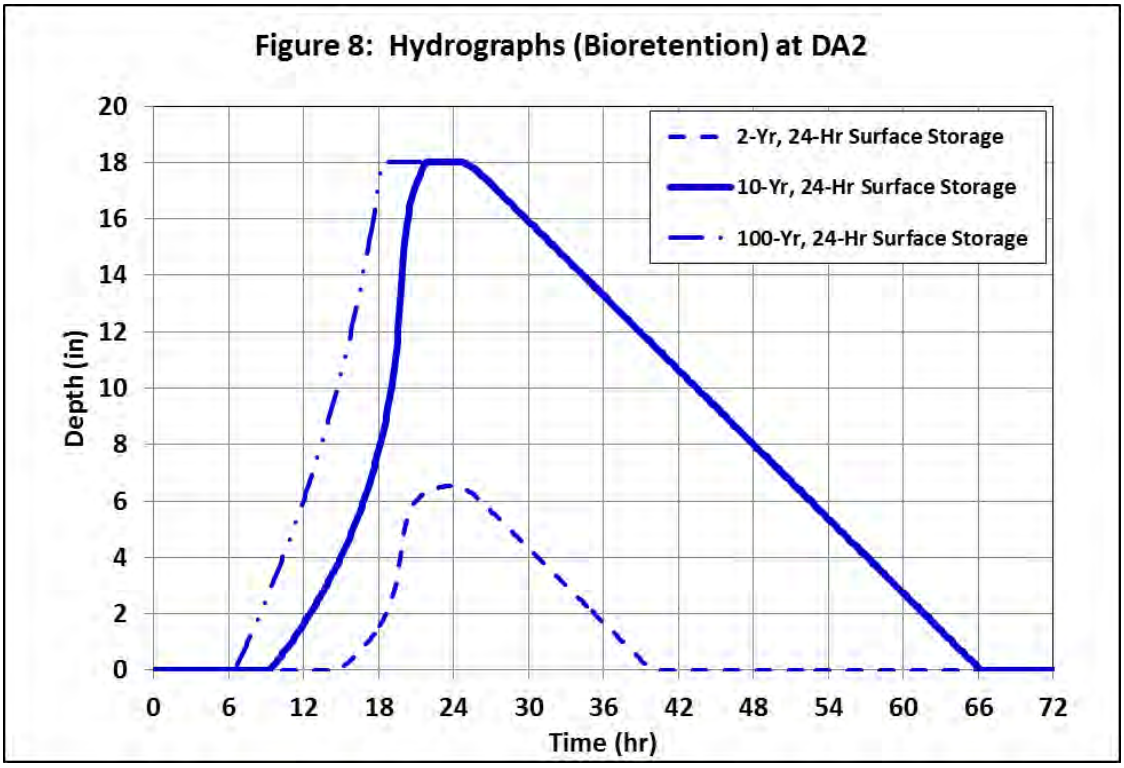
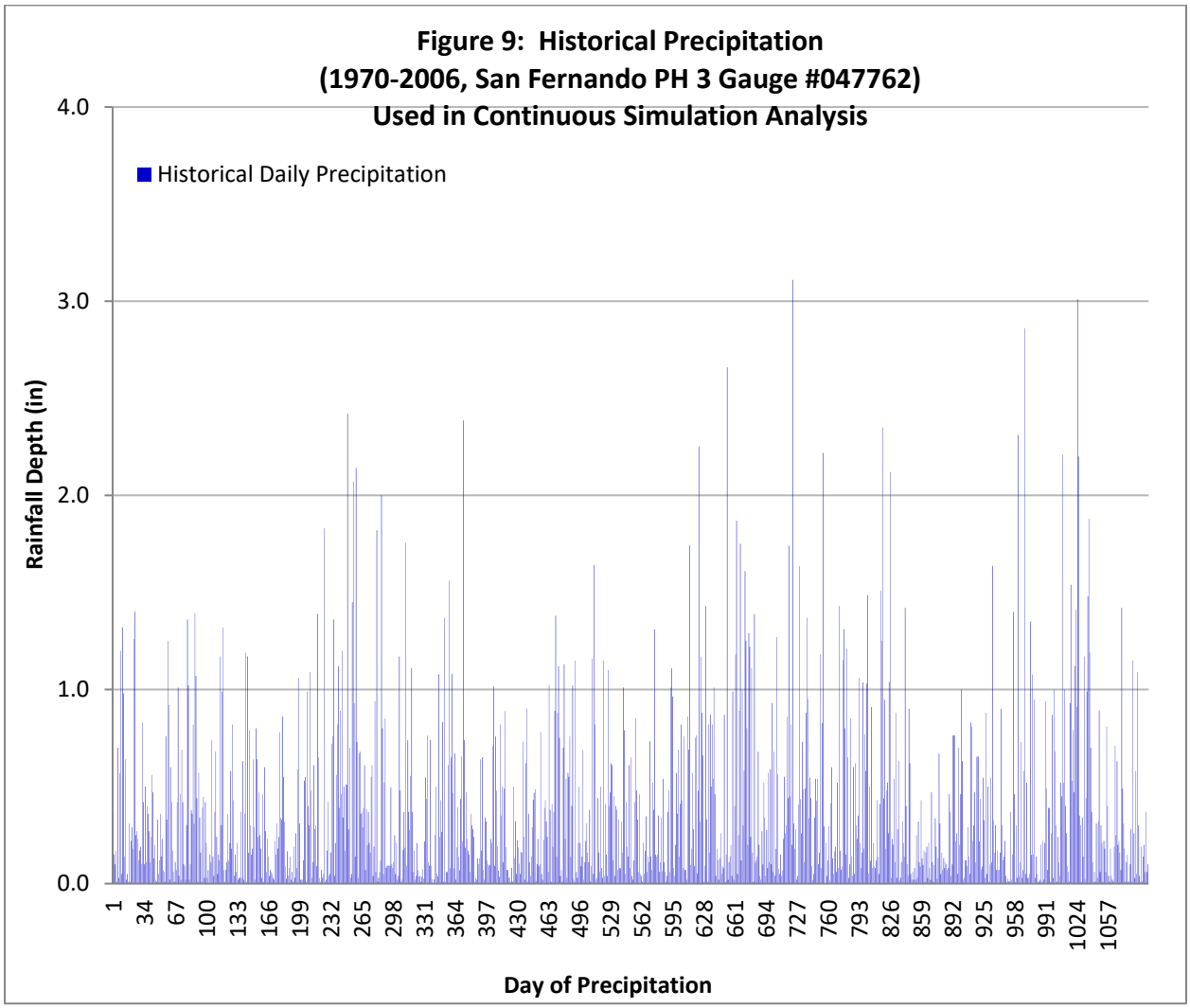


Figure 8: Hydrographs (Bioretention) at DA2
Depth (in)
Time (hr)
2-Yr, 24-Hr Surface Storage
10-Yr, 24-Hr Surface Storage
100-Yr, 24-Hr Surface Storage
0
2
4
6
8
10
12
14
16
18
20
0
6
12
18
24
30
36
42
48
54
60
66
72

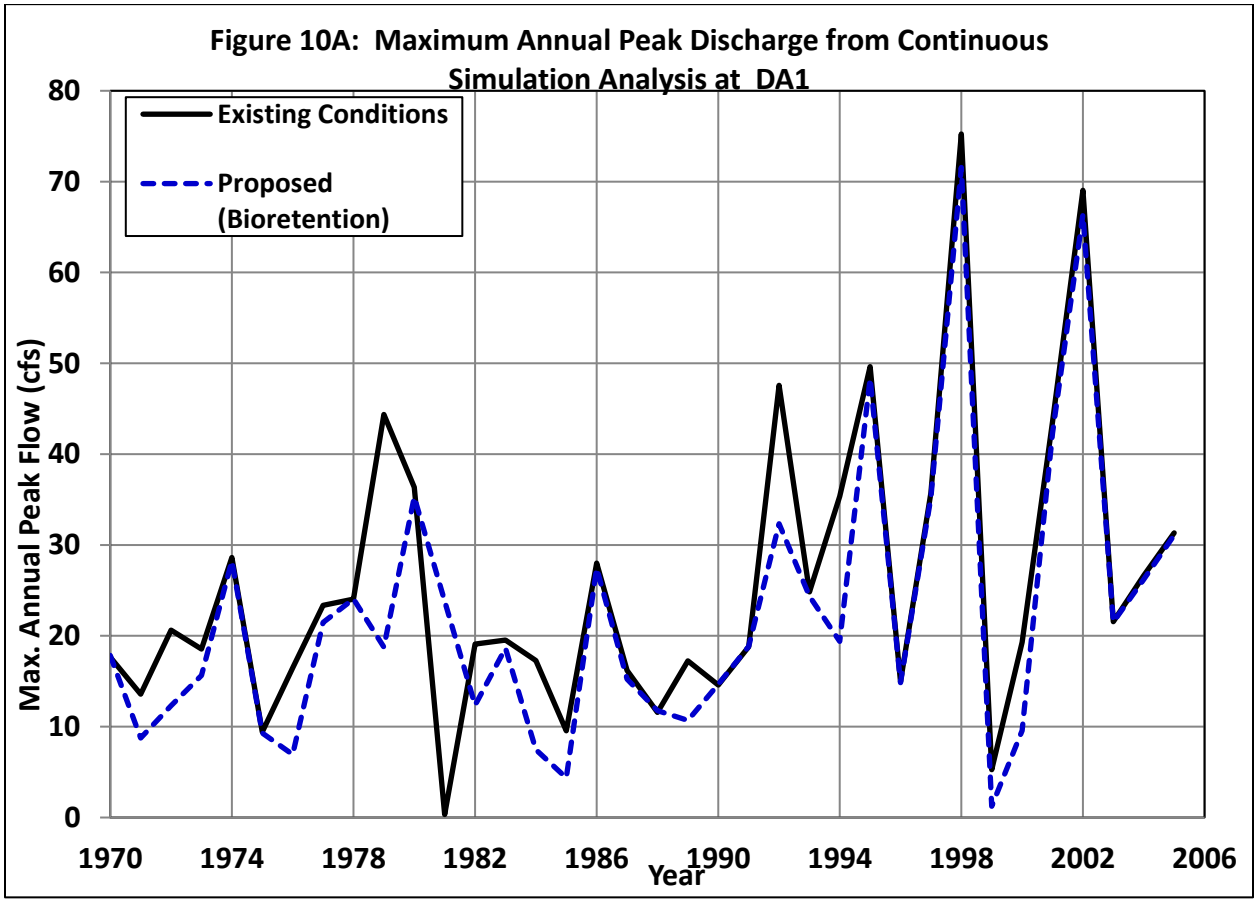
Continuous Simulation Results

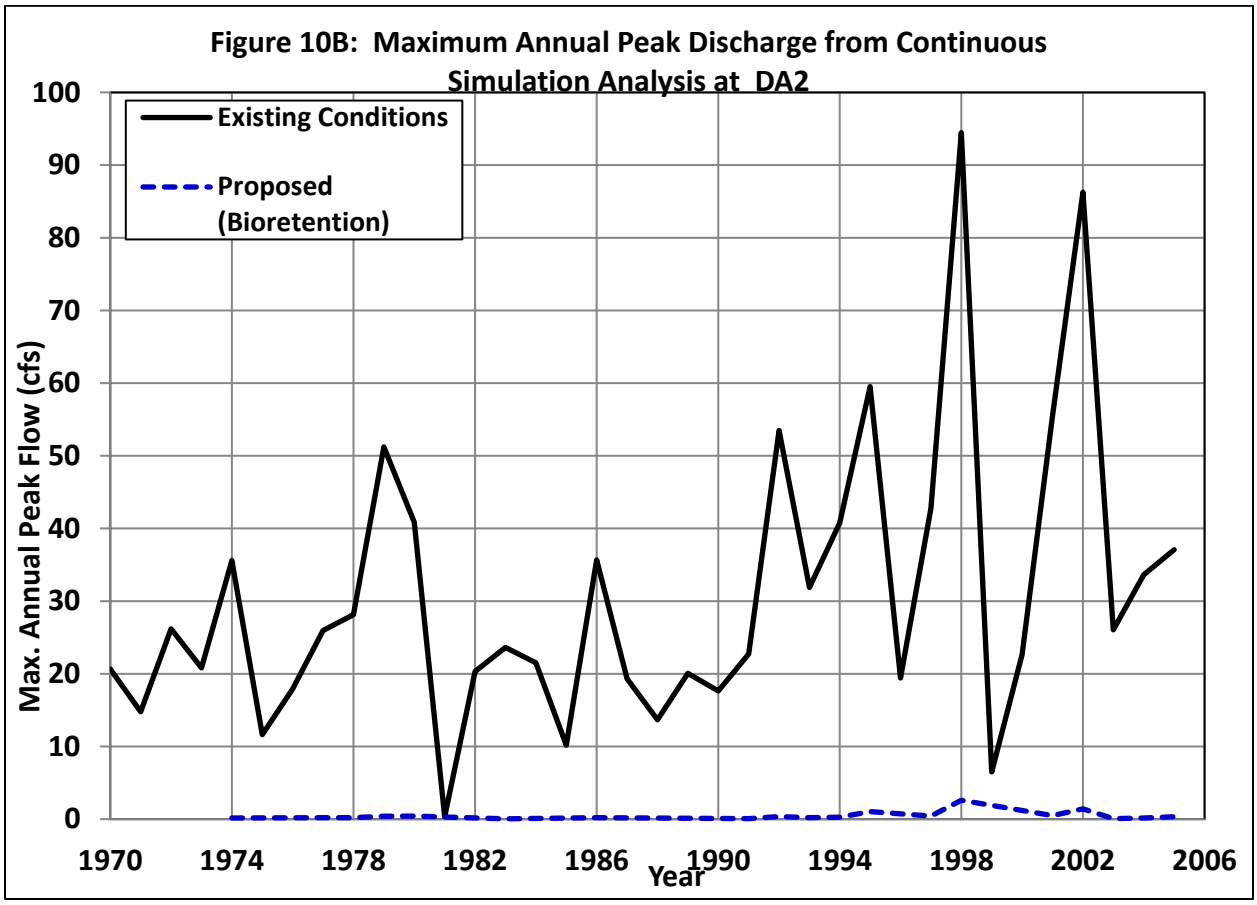
A continuous simulation modeling analysis was performed based on 1970 – 2006 rainfall data obtained from the U.S. EPA's National Stormwater Calculator for the San Fernando Ph 3 gauge, which is located in closest proximity to the site. Average monthly evaporation data is used from Northridge California State gauge. Figure 9 illustrates historical daily rainfall depths during the period of record from 1970 – 2006 recorded at the San Fernando Ph 3 gauge. Days without rain are not shown on this graph and an anomaly of 9.148 on 2/28/1983 23:00 was deleted, as the value is assumed to be an error. Based on a comparison with other regional gauges, it was assumed that rainfall did not occur at this time. While hourly data is used in the continuous simulation modeling analysis, daily events are summarized in this figure.



Tables 6A and 6B in Appendix C includes water balance results for the continuous simulation analysis and summarizes infiltration, runoff, evapotranspiration, and precipitation for DA1 and DA2. During the simulated time-period, 422.25 in of rain occurred. Proposed LID conditions runoff at the site is reduced by 5% as compared to existing conditions for DA1 and reduced 97% for DA2.

Annual maximum peak discharges from the Olive View – UCLA Tier 1 site are depicted in Figure 10A and 10B for the DA1 and DA2 drainage areas. For the entire period of analysis, maximum annual discharges from the site are less than or equal to existing discharges from the site during the period of record between 1970 and 2006. Note that the actual results may change somewhat during final design and modeling depending on the final extent and configuration of LID features and impervious cover within the site.





Figures 11A and 11B graphically illustrates runoff in existing and proposed conditions for Tier 1 within the in DA1 and DA2 drainage areas. Note that the day of runoff (x-axis) is for each event and that the days do not correlate for each event. While, there are additional days of runoff from the proposed alternatives, this is due to the delayed discharge from the various layers of the LID features. The general pattern is that proposed LID peak discharges are less than existing peak discharges.

Figure 11A: Peak Discharge from Continuous Simulation Analysis at DA1

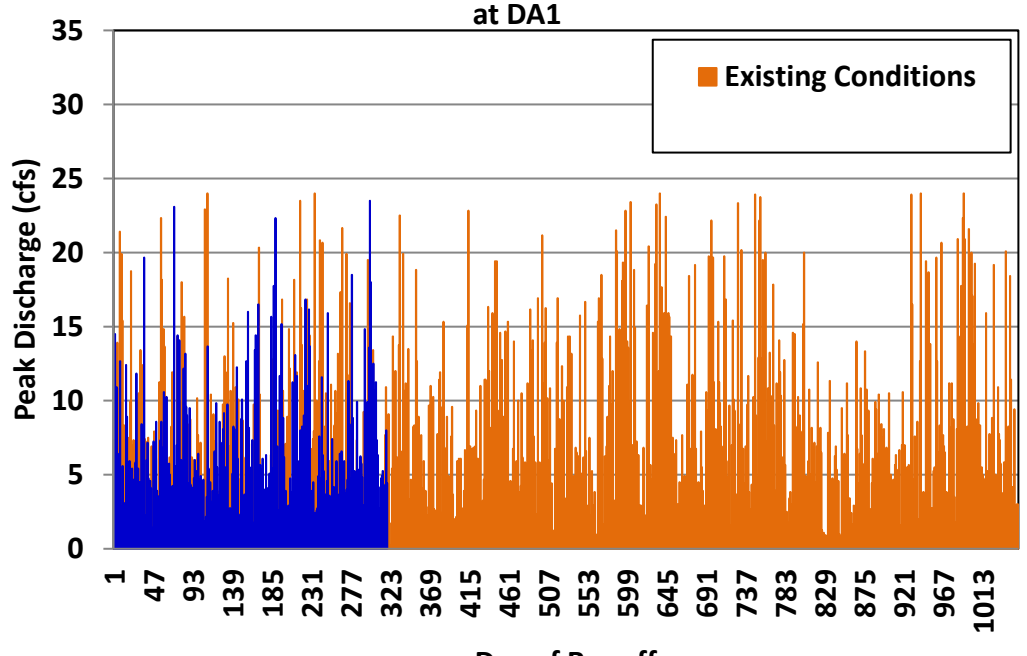
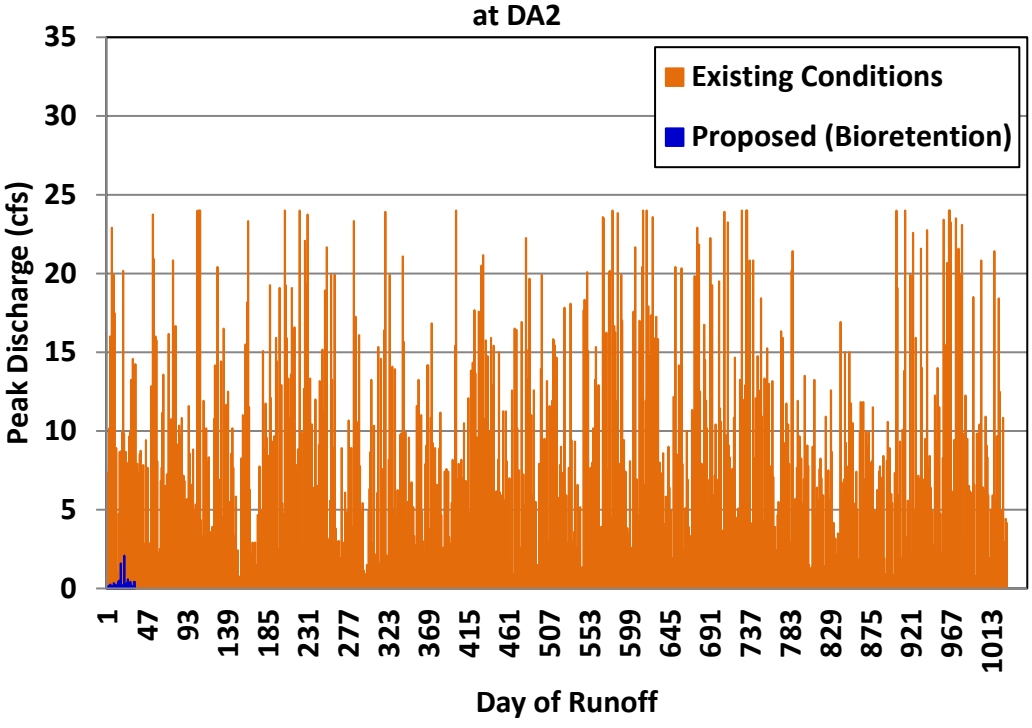
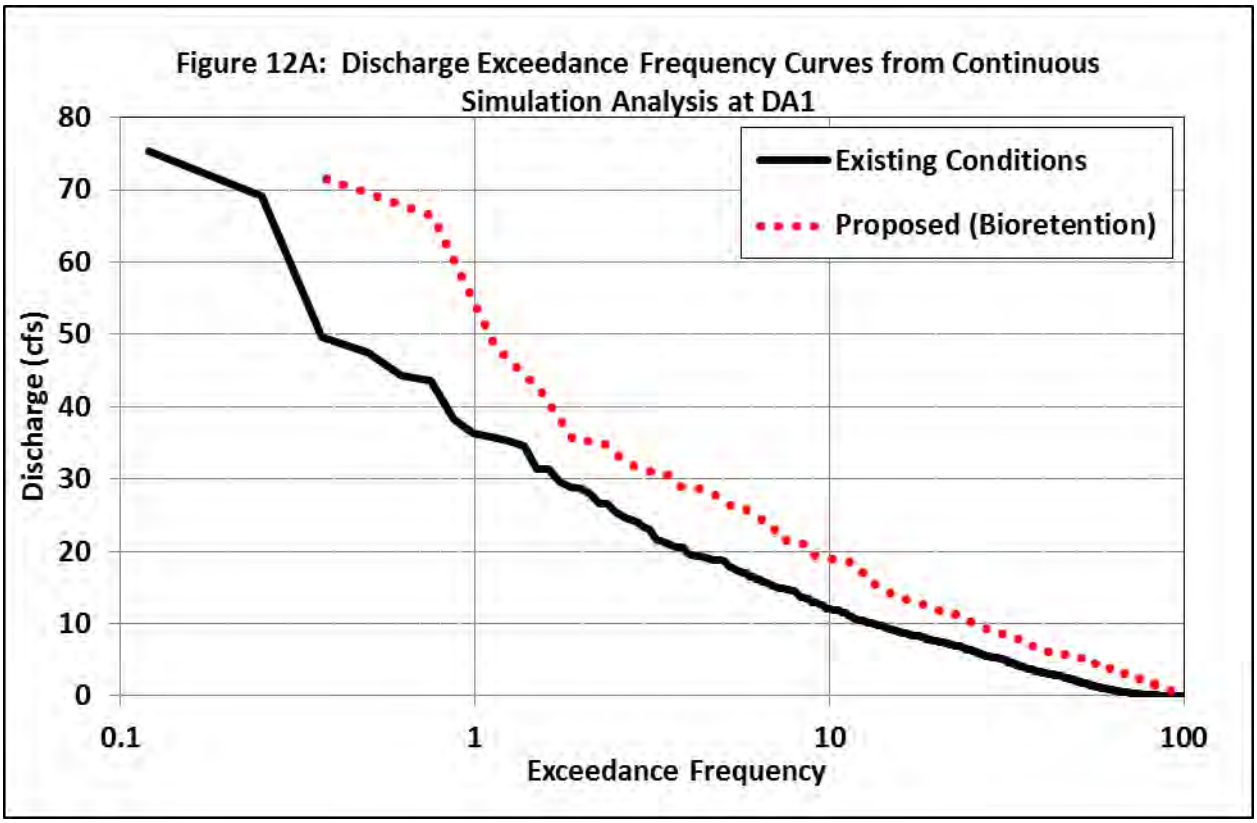


Figure 11B: Peak Discharge from Continuous Simulation Analysis at DA2



While a full hydromodification hydrology and hydraulics (HEC-RAS) frequency analysis is beyond the scope of this study, peak discharge impacts in the two-, ten-, and 100-year events are evaluated in the design storm section and continuous simulation modeling results are evaluated for maximum annual peak discharges and exceedance frequency curves. Additionally, the final design is required to comply with hydromodification hydrology and hydraulics (HEC-RAS) analyses for multiple design storm events (two-, five-, ten-, 25-, and 50-year) as specified in the City's *LID Handbook*.

Discharge exceedance frequency curves and flow duration graphs are provided in Figures 12A and 13A for DA1, and 12B and 13B for DA2. As illustrated in the discharge exceedance frequency curves, proposed LID conditions flows from the site are equal or less than existing conditions for the range of events contained within the historical 1970 – 2006 rainfall data from the San Fernando Ph 3 gauge for DA2. For DA1, the range of flows exceed the existing conditions discharge rates. However, the receiving system (Wilson Canyon Drain) is concrete-lined and hydromodification is not anticipated within that system. For the flow duration curves, the proposed LID conditions flow durations are generally less than existing conditions except for extreme events in excess of the 100-year event for DA1 due to the increased infiltration provided in the Tier 1 development in proposed conditions.



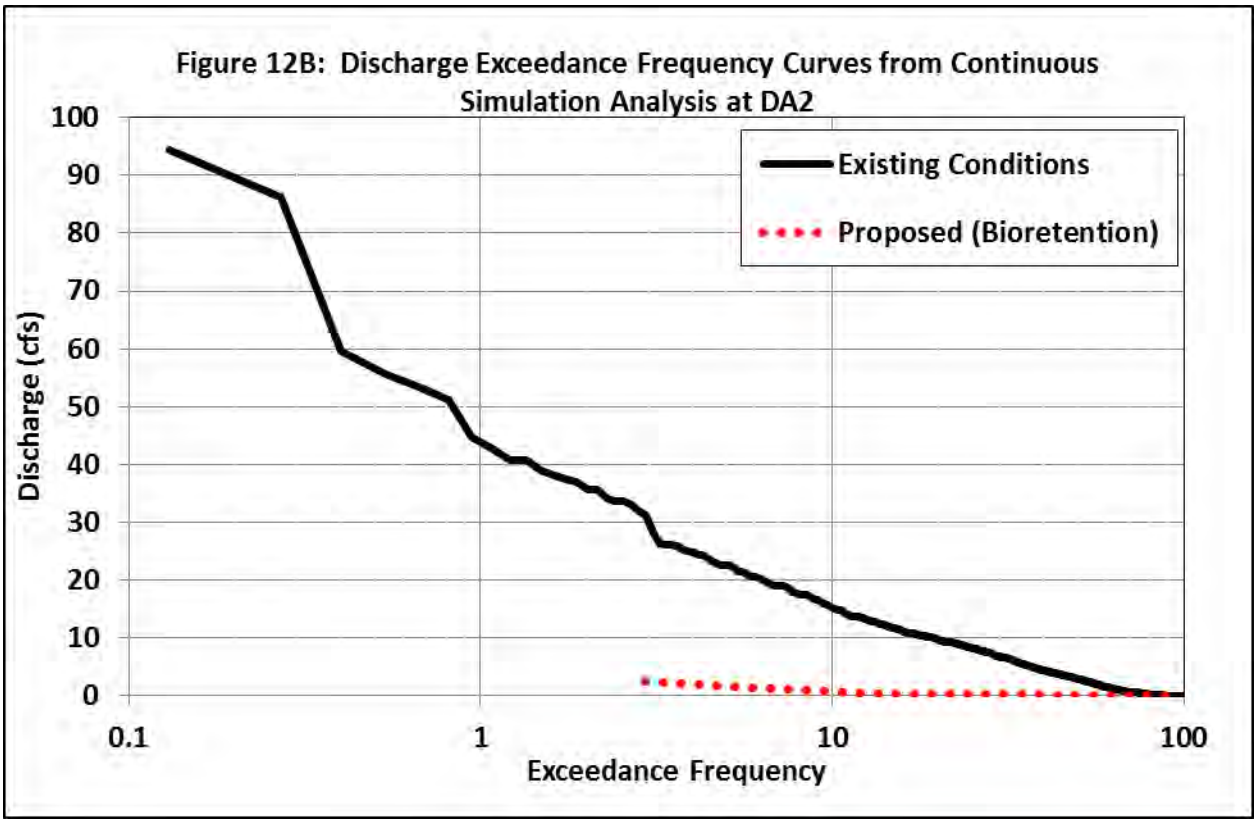


Figure 12B: Discharge Exceedance Frequency Curves from Continuous Simulation Analysis at DA2
Existing Conditions
Proposed (Bioretention)
Discharge (cfs)
100
90
80
70
60
50
40
30
20
10
0
0.1
1
10
100
Exceedance Frequency

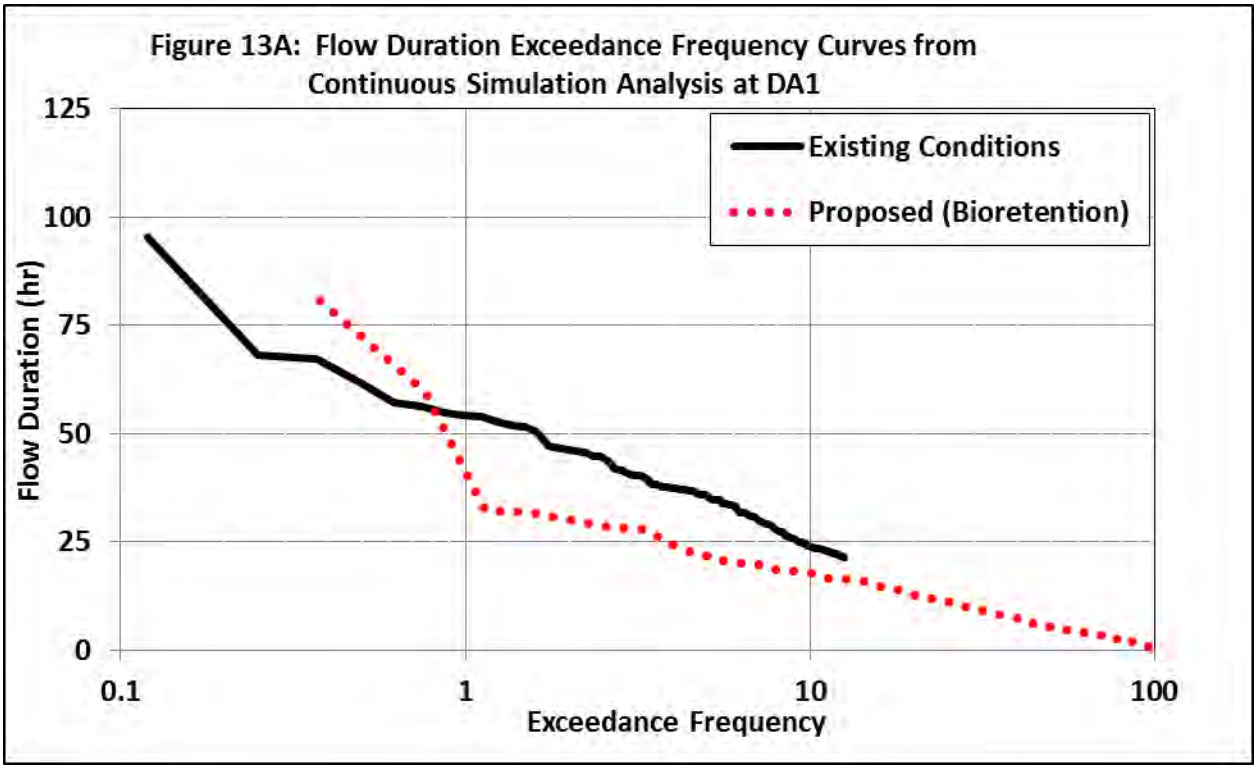
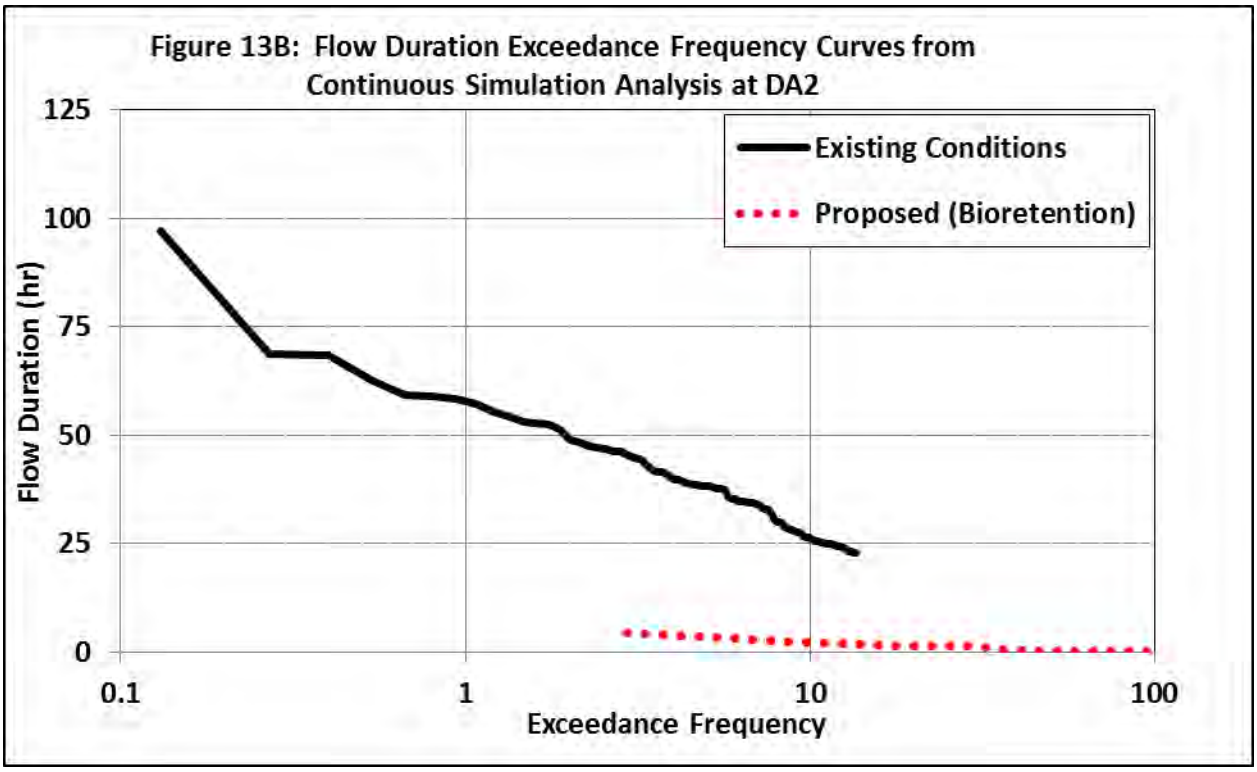


Figure 13A: Flow Duration Exceedance Frequency Curves from Continuous Simulation Analysis at DA1
Existing Conditions
Proposed (Bioretention)
Flow Duration (hr)
125
100
75
50
25
0
0.1
1
10
100
Exceedance Frequency



WATER QUALITY ANALYSIS

Development of the Olive View – UCLA site is anticipated to change the pollutant loading from the site into the receiving waters and mitigation is needed to maintain pollutant loads from the site at or below existing conditions and to meet County of Los Angeles water quality requirements. As described above, LID features are planned to mitigate hydrologic and water quality impacts from the site. This section includes discussions on pollutant removal performance of LID, water quality methodology, and water quality modeling results.

Pollutant Removal Performance of LID

The most significant water quality benefit of LID is removal of stormwater runoff from the storm drain system or receiving waters. The first flush of stormwater runoff during a rainfall event typically contains higher concentrations of pollutants than later rainfall. By directing this runoff through LID features and providing retention, infiltration into the various layers of the LID feature and/or the native soils below the LID, and evapotranspiration, the pollutants do not reach the receiving body of water.

Other pollutant removal processes achieved through LID include physical, chemical, and biological processes. Physical processes include filtering of sediment and pollutants, such as metals absorbed to the sediment. Degradation of fecal coliform bacteria also occurs by drying out and exposure to ultraviolet (UV) light from sun exposure. Biological processes include bioremediation and biodegradation. For example, hydrocarbons may be broken down by soil microorganisms through the process of bioremediation.

Phytoremediation, or pollutant removal by plants, includes pollutant uptake into and bioaccumulation within the plants, release of some pollutants from plants into the atmosphere, and breakdown of pollutants at the soil-plant root interface. For the latter process, mycorrhizal fungi play an important role by attaching to the roots and extending microfilaments into the soil, which significantly increases the functional surface area of plant roots. Because native, or indigenous, plants have evolved to the unique microclimate of an area and typically have deeper roots and greater levels of mycorrhizal fungi, incorporating these elements into LID may represent an increased opportunity for carbon sequestration in mitigating climate change.

The water quality benefits of LID are well documented with regards to TSS, fecal coliform bacteria, metals, hydrocarbons, and other pollutants. LID is also effective at removing nutrients (N and P) provided that background levels in the native soil and growing media are not excessive. Nitrate (NO_3) removal through LID requires specific design modifications to create anaerobic conditions and an energy source (Carbon) required for denitrification.

While the actual pollutant removal performance of LID features varies with pollutant loading, contributing drainage area, magnitude of rainfall event, antecedent moisture conditions, and specific design, typical pollutant removal rates are listed in Table 8 below. Table 7 in Appendix C includes event mean concentration (EMC) values for modeled pollutants for pre-project and post-project land use at the Olive View – UCLA site. The specific pollutant removal rates for the various proposed LID features used in the SWMM modeling are in Table 8 in Appendix C. Additionally, nutrient removal rates may vary substantially due to potential for leaching from growing media and/or underlying soil as well as specific anaerobic conditions required for denitrification required to remove nitrate (NO_3). See Appendix C for all tables of hydrology and water quality modeling data and results.

TABLE 8: TYPICAL POLLUTANT REMOVAL RATES[1] FOR LID FEATURES

LID Features	Pollutant Percent Removal				
	TSS	Nitrogen	Phosphorus	Bacteria	Heavy Metals
Detention Basin (dry)[4]	30-65	13-45	15-45	<30	15-45
Retention Basin[4]	50-80	30-65	30-65	<30	50-80
Constructed Wetlands[4]	50-80	<30	15-45	<30	50-80

LID Features	Pollutant Percent Removal				
	TSS	Nitrogen	Phosphorus	Bacteria	Heavy Metals
Infiltration Basin[4]	50-80	50-80	50-80	65-100	50-80
Infiltration Trench/Dry Wells[4]	50-80	50-80	15-45	65-100	50-80
Permeable Pavement[4]	65-100	65-100	30-65	65-100	65-100
Swales[4]	30-65	15-45	15-45	<30	15-45
Vegetated Filter Strips[4]	50-80	50-80	50-80	<30	30-65
Bioretention[3,5]	85[5]	32-99[3]	72[5]	70-92[3]	54-99[3]

[1]Ranges varying with particle size, pollutant loading and site conditions.
[2]Bioretention rates anticipated to be applicable for Rain Gardens as well.
[3]From selected field and laboratory studies summarized in *Bioretention Technology: Overview of Current Practice and Future Needs* by Davis, Hunt, Traver, and Clar in March, 2009 Journal of Environmental Engineering.
[4]LID percent removal numbers were obtained from the U.S. EPA *Handbook Urban Runoff and Pollution Prevention Planning.*
[5]National Pollutant Removal Database/Other Sources Summarized by *Cost and Pollutant Removal of Storm-water Treatment Practices by* Weiss, Gulliver, and Erickson in May/June, 2007 *ASCE Journal of Water Resources Planning and Management*,

Los Angeles County Water Quality Requirements

The proposed LID features are also planned to meet requirements in the County of Los Angeles Department of Public Works, *Low Impact Development Standards Manual.* The goal of the LID features is to provide stormwater quality benefits and more closely mimic undeveloped site hydrology. LID features are required to retain 100-percent of the stormwater quality design volume (SWQDv) on-site through a combination of infiltration, evapotranspiration, and stormwater harvest and use unless it is demonstrated that it is technically infeasible to do so.

The proposed LID features are infiltration systems. If possible, the Tier 1 LID features should be located outside of the area of liquefaction or mitigation measures should be included within the structural design of the LID features. Additionally, infiltration testing is needed prior to the final design to determine the saturated hydraulic conductivity rate at the site in the areas LID features are proposed as the values used in this study are estimated from standard soils tables.

For this project, the SWQDv is approximately 0.75 in which is the 85th percentile, 24-hour event obtained from the County of Los Angeles Department of Public Works *LID Handbook* for the project site location. Based on the LID features illustrated in the *Master Plan* (Appendix G) and

assumed configurations documented in Table 4 in Appendix C, the proposed Tier 1 LID features seem adequate to meet SWQDv (Table 4A, Appendix C). The total storage provided within bioretention is estimated at 4.3 acre-feet (ac-ft), while the required SWQDv is calculated at 2.1 ac-ft. With the addition of the permeable pavement gravel storage layer, there is an additional 2.8 ac-ft of storage, or 7.1 ac-ft total.

Additional LID features are not needed to meet requirements. Additionally, note that retention, harvest and use on-site, or infiltration must be provided for the total SWQDv and the size and configuration of the LID features may need to be modified to meet this requirement. Regardless, the proposed site will be required to meet SWQDv requirements and the LID extent may be revised as needed during the Tier 1 and Tier 2 phases of development.

Water Quality Modeling Methodology

Pollutants selected and modeled for this report were based on the EPA's 303(d) list of pollutants of concern, those pollutants requiring a TMDL and pollutants of concern that were measured in previous Los Angeles River watershed studies. The most common of the pollutants with available data for pollutant loads from commercial/retail and open space/vacant land use as well as available LID pollutant removal rates were selected for modeling. The following pollutants were modeled in the EPA SWMM model of the UCLA-Olive site:

- total suspended solids (TSS);
- total nitrogen;
- total copper;
- total lead;
- total zinc;
- fecal coliform.

While selenium was listed as a pollutant of concern for the Los Angeles River, it was assumed that it would be similar to other metals modeled in this report as data was not readily available on removal rates. While trash is also a pollutant of concern with a TMDL for the Los Angeles River, changes in trash generation are not expected between pre- and post-construction. Additionally, data is not readily available on trash removal rates and generation rates.

Table 9 below lists the Event Mean Concentration (EMC) and Table 10 lists the pollutant percent removal values for each pollutant modeled included in the water quality analysis. Both the two-year design storm event and the 37-year continuous simulation modeling runs were used for the water quality analysis. While representative, the two-year event is larger than the "water quality" event, and may overestimate pollutant loading that would occur in the "water quality" event. The two-year rainfall event is 2.83 in in the project area at the Olive View – UCLA site, which is significantly larger than the 0.75-inch depth water quality event indicated in the June, 2011 County of Los Angeles *LID Manual.*

TABLE 9: PRE-PROJECT AND POST-PROJECTEVENT MEAN CONCENTRATION VALUES

Pollutant	Retail/ Commercial	Open/Non-Urban
Total Suspended Solids (TSS) (mg/L)	67.4 [1]	70 [2]
Total Nitrogen (µg/l)	3.4 [1]	0.97 [2]
Total Copper (µg/l)	34.8 [1]	9.1 [1]
Total Lead (µg/l)	11.5 [2]	30 [2]
Total Zinc (µg/l)	238.5 [1]	195 [2]
Fecal Coliform (MPN/L)	10,716,565 [1]	21,748 [1]

[1]Event Mean Concentration (EMC) values are from Table 7, *The Green Visions Plan* for 21st Century Southern California, 2006.
[2]EMC values are from Table 4-1, the EPA Guide to Urban Stormwater Pollutant Concentrations, 2006.
[3]Modeled washoff exponent = 1.0 for all pollutants

TABLE 10: POLLUTANT REMOVAL BY TIER 1 LID FEATURES

Pollutant	% Removal	
	Bioretention[1]	Permeable Pavement[1,2]
Total Suspended Solids (TSS)	85	91
Total Nitrogen	40	27
Total Copper	66	42
Total Lead	63	74
Total Zinc	68	81
Fecal Coliform	81	82.5

[1]Removal rates for bioretention and permeable pavement, except for fecal coliform for permeable pavement, are based on The Green Visions Plan for 21st Century Southern California prepared by the University of Southern California, dated April, 2006.
[2]Fecal coliform removal rates for permeable pavement were obtained from the average value included the U.S. EPA Handbook Urban Runoff and Pollution Prevention Planning.

Water Quality Modeling Results

Tables 9A and 9B in Appendix C shows the pollutant effluent concentrations from the site with proposed conditions compared to the concentrations associated with existing conditions for the two modeled drainage areas. For DA1, TSS decreases are 92-percent lower in the two-year event and 96-percent less in the continuous simulation. Nitrogen is 57-percent less in the two-year event and 76-percent less annually. Copper is 69-percent less in the two-year event and 82-percent less annually. Lead is 78-percent less in the two-year event and 87-percent less annually. Zinc is 85-percent less in the two-year event and 91-percent less annually. Fecal Coliform has a 7-percent decrease in proposed conditions for the two-year event, and decreases 8-percent annually

For DA2, TSS, Nitrogen, Copper, Lead, and Zinc decreases 100-percent in both the two-year and annual events. Fecal Coliform has a 130-percent decrease in proposed conditions for the two-year event, and decreases 28-percent annually

IMPACTS ANALYSIS

Methods

The following analysis evaluates potential hydrology and water quality impacts that could result from implementation of the proposed project. It assesses impacts as compared to existing conditions and determines whether they would exceed any of the thresholds listed below. The potential for Tier 1 impacts is evaluated in detail and the potential for Tier 2 impacts is evaluated on a conceptual level due to the longer time-frame for Tier 2 improvements.

Thresholds of Significance

For the purposes of the analysis in this EIR, and in accordance with Appendix G of the State California Environmental Quality Act (CEQA) Guidelines, the proposed project would have a significant environmental impact if it would:

HYD-1 Violate any water quality standards or waste discharge requirements.

HYD-2 Substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level (e.g., the production rate of pre-existing nearby wells would drop to a level that would not support existing land uses or planned uses for which permits have been granted).

HYD-3 Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, in a manner that would result in substantial erosion or siltation on- or off-site.

HYD-4 Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner that would result in flooding on- or off-site.

HYD-5 Create or contribute runoff water that would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff.
HYD-6 Otherwise substantially degrade water quality.
HYD-7 Contribute to inundation by seiche, tsunami, or mudflow.
HYD-8 Expose people or structures to a significant risk of loss, injury, or death involving flooding, including flooding as a result of the failure of a levee or dam.
HYD-9 Place housing within a 100-year flood hazard area, as mapped on a Federal Flood Hazard Boundary Map or Flood Insurance Rate Map or other flood hazard delineation map.
HYD-10 Place within a 100-year flood hazard area structures that would impede or redirect flood flows.

IMPACTS AND MITIGATION MEASURES

Impact HYD-1: Would the Proposed Project Violate Any Water Quality Standards or Waste Discharge Requirements?

Construction

The Tier 1 proposed project site soil is predominantly Hanford fine sandy loam with a zone of Hanford gravelly sandy loam in the eastern corner (Exhibit 8). The soil is underlain by poorly consolidated alluvium (Ninyo and Moore Prelim Geotech). Both the soils and the underlying geology are susceptible to erosion. Slopes along the northern edge of the proposed Tier 1 project site range from approximately 5 to 13%, further increasing the site susceptibility to erosion (Exhibit 4). The Tier 2 proposed project site has similar slopes and soils as Tier 1.

During construction, site grading activities and exposed surfaces could cause erosion, temporarily increasing the amount of suspended solids in sheet flow or runoff, which would enter the storm drain system. However, the proposed project would be required to obtain and comply with the Construction General Permit from the SWRCB. This permit and associated NPDES requirements include development and implementation of a SWPPP, with associated monitoring and reporting. Stormwater BMPs are required to limit erosion, minimize sedimentation, and control stormwater runoff water quality during construction activities. Additional source-control BMPs would also be required to prevent runoff contamination by potentially hazardous materials and eliminate non-stormwater discharges.

Compliance with the Construction General Permit, SWPPP, NPDES requirements, and local regulations that require construction-phase BMPs would ensure that construction activities would not degrade the surface water quality of receiving waters to levels below standards considered acceptable by the Los Angeles RWQCB or other regulatory agencies or impair the beneficial uses of the receiving waters.

Construction-related activities could include the use of materials such as fuels, lubricating fluids, solvents, and other materials that could result in polluted runoff. However, the potential consequences of any spill or release of these types of materials would generally be small because of the localized, short-term nature of the releases. Furthermore, the NPDES Construction General Permit and SWPPP require measures regarding the handling of these types of materials and protocols for actions taken if a spill or release does occur (see mitigation measure MM-HYD-1). Therefore, impacts associated with these types of pollutants would be less than significant with mitigation incorporated for both Tier 1 and Tier 2.

Operation

Similar to existing conditions, stormwater runoff from the site after project implementation would be typical of urbanized areas and would include pollutants such as sediment, hydrocarbons, oil, grease, heavy metals, nutrients, herbicides, pesticides, fecal coliform bacteria, and trash. The *Master Plan* incorporates the use of bioretention and permeable pavement LID features. The features would meet the requirements found in the County of Los Angeles *LID Manual*.

Tier 1 of the proposed project contains two drainage areas (Exhibit 6). The eastern half of Tier 1 drains to Wilson Canyon open channel. The western half drains into Olive View Drive storm drain system, which Tier 2 also drains into, and ends in the Mansfield channel. Tier 1 pollutant effluent concentrations were modeled for both drainage areas. Total suspended solids (TSS), total nitrogen, copper, lead, zinc and fecal coliform were modeled for 2-yr, 24-hour design storm event and a 37-year continuous simulation model to represent average annual conditions. The results for Wilson Canyon drainage (DA1) and Olive View Drive storm drainage (DA2) are in Tables 9a and 9b in Appendix C. All pollutants concentrations decreased under both model scenarios and in certain cases, such as nitrogen and lead in DA2, were completely removed. According to the County of Los Angeles *LID Manual, t*he minimum storage required for bioretention is 2.1 acre-ft. Tier 1 had 4.3 acre-ft of bioretention storage. Thus, it is less than significant that the proposed Tier 1 project post-construction will impact water quality.

Drainage area discharge model results for 2-year, 10-year and 100-year, 24-hour storm events are in Tables 5a and 5b in Appendix C. Discharge model results for continuous simulation runs are in Tables 6a and 6b. The Wilson Canyon drainage peak discharge flow rates decrease between 12% and 20% with the greatest decrease occurring in the 100-year, 24-hour design storm event. The Olive View Drive storm drain system Tier 1 drainage peak discharge flow decreases between 40% and 100% with the greatest decrease from the 2-year, 24-hour design storm event. No models resulted in an increase in discharge. Impacts on discharge from Tier 1 post-construction are less than significant.

Tier 2 also plans for bioretention and permeable pavement. Based on the performance of Tier 1 water quality and discharge results, it is likely Tier 2 will also have less than significant impacts on water quality and discharge. However, Tier 2 will also drain into the Olive View Drive storm drain system. Further analyses are needed prior to Tier 2 development to ensure effluent and discharge from Tier 2 is not compounded by drainage from the western half of Tier 1.

Once the project is operational, materials such as fuels or solvents may be stored on-site, similar to existing conditions. This is not anticipated to be a source of polluted stormwater runoff or dry-weather runoff. As under existing conditions, the medical center would continue to adhere to all applicable regulations. Consequently, impacts would be less than significant.

Mitigation Measures

The following measures are proposed to mitigate Impact HYD-1, above.

MM-HYD-1: Construction activity (clearing, grading, excavation, stockpiling, and reconstruction of existing facilities involving removal and replacement) resulting in a land disturbance of one or more acre, or less than one-acre but part of the larger Master Plan for the campus must obtain the Construction Activities Storm Water General Permit. Prior to beginning any construction activity, the County shall require the contractor(s) to develop the SWPPP, Construction Activities Storm Water General Permit, erosion/sediment control plan, and submit these plans for approval by the governing regulatory agency. The contractor(s) shall then perform all construction activity in accordance with the recommendations in the SWPPP, the Construction Activities Storm Water General Permit, and erosion/sediment control plan. The contractor's erosion control plan must comply with the California Stormwater Best Management Practices Handbook and meet the requirements of the statewide Construction General Permit.

Level of Significance after Mitigation

Less than significant.

Impact HYD-2: Would the Proposed Project Substantially Deplete Groundwater Supplies or Interfere Substantially with Groundwater Recharge?

Construction

The groundwater table 1.5 miles south of the project site ranged from 125 to 200 ft over a 20-year period (Ninyo and Moore Preliminary Geotechnical Report, 2016). The Olive View - UCLA Medical Center is located at the base of the San Gabriel foothills where the valley alluvium meets the mountains. It is possible the groundwater is shallower than 125 ft within the Tier 1 project boundary. The northeastern section of Tier 1 is identified in the *Preliminary Geotechnical Report* by Ninyo and Moore (2016) as a zone that may have groundwater within 50 ft. This area of the project is mapped as potentially liquefiable (Exhibit 11), and coincides with the Sylmar groundwater basin (Exhibit 9). This suggests the groundwater may be significantly shallower at this location.

The Sylmar groundwater basin is restricted to the southern edge in the proposed Tier 2 project boundary. It is located in an area that will be primarily landscaping. Impacts on groundwater supplies or groundwater recharge are not expected to occur during the construction phase of Tier 2.

Any discharges into groundwater during construction would be in compliance with applicable NPDES permit requirements. The project would also comply with all applicable federal, state, and local requirements concerning the handling, storage, and disposal of hazardous materials to reduce the potential for a release of contaminants into the groundwater as a result of project construction. Thus, construction activities would not degrade groundwater quality or interfere with recharge. Water use may temporarily increase to a limited extent during the construction phase. Therefore, construction-phase impacts would be less than significant.

Operation

Although greater than 50% of the Tier 1 proposed project area is within the Sylmar groundwater basin (Exhibit 9), much of the north/northwestern portions of the Tier 2 project area do not fall within a groundwater basin. Water supply from groundwater ranges from 15% to as high as 30% in drought years (LADWP 2013); however, the Sylmar Groundwater Basin accounts for less than five-percent of the LADWP's potable water supply. After Tier 1 completion, impermeable surfaces will decrease from 65% to 50%. Landscaped areas (including LID bioretention) in Tier 1 will increase by 50%. Infiltration from Tier 1 will increase by 3.7 in across the 72.6-acre Tier 1 area or by 23 ac-ft.

According to the *Master Plan*, drought-tolerant and California native plants would be used at the site. The use of plant species with high to moderate water needs would be limited. Furthermore, low-maintenance vegetation would be used. In the *Master Plan* use of drip irrigation is specified to further reduce irrigation needs. Even with water conservation efforts, due to the large increase in irrigated landscape in Tier 1, water demands for irrigation in Tier 1 are expected to increase by approximately 34 ac-ft per year. The increase in Tier 1 irrigation demands will exceed the increase in infiltration by approximately 11 ac-ft per year.

The updated and new buildings will increase the number of people on-site, increasing water demand. The *Master Plan* calls for low-flow indoor plumbing features, water metering, graywater use, and cooling tower optimization are also in the master plan. Additionally, indoor fixtures would comply with Los Angeles Municipal Code requirements related to reducing indoor water consumption. The City of Los Angeles Plumbing Code (Chapter IX, Article 4, of the Los Angeles Municipal Code) references the California Plumbing Code, which establishes maximum flow rates for indoor water fixtures. City Ordinance No. 180,822 further establishes water efficiency requirements for renovation, redevelopment, and new development and mandates the installation of high-efficiency plumbing fixtures in residential and commercial buildings (Los Angeles Municipal Code, April 2012). These requirements would limit potential increases in indoor water usage at the project site.

Further, the County of Los Angeles requires achievement of Leadership in Energy and Environmental Design (LEED) Silver on all new construction. To meet LEED standards, new construction and renovations will reduce water at minimum 35% from baseline (*Master Plan*). Due to the increase in development, indoor water demand after Tier 1 completion is expected to increase by approximately 51 ac-ft/year. The indoor water demand after Tier 2 completed (including Tier 1) is expected to increase by approximately 70 ac-ft/year. Completion of Tier 1

would increase the water demand from the Sylmar Groundwater Basin by approximately less than 0.1% and increase the demand from the LAWDP water supply by approximately less than 0.01%. Completion through Tier 2 would increase the water demand from the Sylmar Groundwater Basin by approximately less than 0.1% and increase the demand from the LAWDP water supply by approximately less than 0.01%. Thus, the project would not lead to significant increase in the demand for potable water for indoor use in the region.

The decrease in impermeable surfaces will mitigate interference with groundwater discharge. However, the increase in water demand for irrigation in Tier 1 coupled with the increase in indoor water use for Tier 1 and 2 may impact groundwater depletion. By incorporating reclaimed water, gray water, and harvested rainwater for irrigation, the increased demand for groundwater for irrigation could be reduced. For these reasons, water demand associated with the proposed project would not deplete groundwater supplies substantially. The project would increase groundwater recharge and would not interfere substantially with recharge. Therefore, the impacts on groundwater supplies or recharge during operation would be less than significant. Additionally, to further reduce potential impacts, irrigation water demand above existing irrigation demands would be met by alternative supply sources to the maximum extent possible as included in MM HYD-3.

Mitigation Measures

The following measures are proposed to minimize potential groundwater impacts identified in Impact HYD-2, above.

MM-HYD-2: Where groundwater seepage could occur, permanent monitoring wells shall be installed during construction within and around the perimeter of each building to monitor the groundwater level and evaluate the performance of the dewatering system. Before starting dewatering operations, a baseline conditions survey shall be made of all adjacent foundations and structures to assess the impact of deep excavation dewatering on adjacent structures. All signs of existing distress shall be recorded.

MM-HYD-3: Irrigation water demands above existing irrigation demands shall be met by alternative supply sources to the maximum extent technically feasible. The use of alternative water supply sources for irrigation shall be maximized to reduce the use of potable water for irrigation and approximate existing irrigation demands. Alternative water supply sources include, but are not limited to, gray water and harvested rainwater (stormwater).

Level of Significance after Mitigation

Less than significant.

HYD-3: Would the Proposed Project Substantially Alter the Existing Drainage Pattern of the Site or Area, Including through the Alteration of the Course of a Stream or River, in a Manner that Would Result in Substantial Erosion or Siltation On- or Off-Site?

Construction

The Olive View site sits between the Schoolhouse and Wilson Canyon Debris Dams and Basins. Minor alterations of the existing drainage patterns on the project site may occur related to the implementation of the campus-wide stormwater management system and due to construction of new facilities and improvements, but no change to the course of a stream or river would occur. Grading and excavation would be required for building foundations, which could affect drainage on the project site. However, careful design would prevent substantial alterations to drainage patterns and/or erosion within the project site.

The project would not substantially alter the existing drainage pattern of the site or result in substantial erosion or siltation on- or off-site. Standard construction-phase BMPs would decrease the potential for any significant erosion or sedimentation from soil disturbance associated with construction of the project. In addition, standard construction practices related to erosion and sediment control would be required as part of the permitting process.

Potential impacts on water quality arising from erosion and sedimentation are expected to be localized and temporary (i.e., during construction). The project applicant would implement measures to minimize and contain erosion and sedimentation and be required to submit a grading plan to the County for approval prior to the commencement of any construction activities. In addition, because the project would disturb more than one-acre, the project proponent would be required to obtain and comply with the NPDES Construction General Permit. As required by this permit, the project proponent would develop a SWPPP and comply with regional requirements to meet state water quality objectives. Pending revisions, the NPDES permitting process may require development of a rain-event action plan prior to permit approval. Construction-related erosion and sedimentation impacts resulting from soil disturbance would be less than significant after implementation of the SWPPP (see mitigation measure MM-HYD-1) and the BMPs required to control erosion and sedimentation.

Operation

The proposed project would increase and improve storm drainage pipes and install LID features (bioretention and permeable pavement) across Tier 1 and Tier 2 to accommodate the new development. In Tier 1, TSS loads (lbs/year) into the Wilson Canyon drainage are expected to decrease by 92% based on a 2-yr 24-hr storm event and 96% based on 37-yr continuous simulation run. TSS loads (lbs/year) into the Olive View Drive storm drain system are expected to decrease by 100% based on a 2-yr 24-hr storm event and a 37-yr continuous simulation run. Tier 2 will also have a similar proportion of LID features and is expected to also decrease TSS loads.

As discussed in HYD-1, discharge rates would also decrease in Tier 1 and are likely to decrease in Tier 2. Thus, long-term impacts on drainage patterns from increased erosion or increased sedimentation on or off-site are less than significant.

Mitigation Measures

Mitigation measure MM-HYD-1, above, is proposed to mitigate Impact HYD-3.

Level of Significance after Mitigation

Less than significant.

HYD-4: Would the Proposed Project Substantially Alter the Existing Drainage Pattern of the Site or Area, Including through the Alteration of the Course of a Stream or River, or Substantially Increase the Rate or Amount of Surface Runoff in a Manner that Would Result in Flooding On- or Off-Site?

Construction

Although grading would occur throughout the site, the resultant ground disturbance would be spread over the site and would not alter the overall topography. Water would be used during the temporary construction phase of the project (e.g., for dust suppression). However, this water would be mechanically and precisely applied and would, in general, infiltrate or evaporate. Therefore, the rate or amount of surface runoff resulting from project construction activities would be similar to the amount under existing conditions. During construction, the pervious nature of the project site would not be significantly altered. As such, the project would not result in a substantial increase in the rate or amount of surface runoff or flooding on- or off-site. Impacts would be less than significant.

Operation

In Tier 1, the proposed plan will decrease peak discharge to the Wilson Canyon drainage and the Olive View Drive storm drainage. Three storm events were modeled for the Tier 1 drainages: 2-year, 10-year and 100-year, 24-hour design storms. The peak discharge to the Wilson Canyon drainage would decrease from 9.8 to 8.7 cfs, 19.6 to 17.1 cfs, and 36.1 to 30.2 cfs, for the 2-year, 10-year and 100-year, 24-hour design storm events, respectively. The peak discharge to the Olive View Drive storm drainage would decrease from 16.0 to 0 cfs, 32.4 to 1.8 cfs, and 57.3 to 34.0 cfs for the 2-year, 10-year and 100-year, 24-hour storm events, respectively. Tier 2 was not modeled. However, due to the planned decrease in impervious surfaces and the planned LID features, Tier 2 will also likely have reduced peak discharge. Thus, the proposed project would not result in flooding on or off-site due to increased surface run-off.

The storm drainage system on-site will undergo improved storm drainage modifications. The modifications will be primarily adding new storm drain pipes in order to accommodate the increased infrastructure. Some of the existing storm drain pipes will be demolished. However,

the outfall locations discharging the storm water into the public systems will not be changed according to the *Master Plan*. In Tier 1 impervious cover will decrease from 67% to 50%. The improved storm drainage system, LID features, and decreased impervious cover in Tier 1 will not cause substantial alterations to the existing drainage pattern of Tier 1. Tier 2 will also receive storm drainage improvements, LIDs and will likely decrease in impervious cover.

The proposed project would improve stormwater drainage on the site and reduce peak discharges from the site due to the decrease in impervious cover and use of LID features. Water quality of discharges from the site is improved over existing conditions. Additionally, the proposed discharge locations will remain unchanged from the existing discharge locations. As such, the proposed project would not create or contribute runoff water that would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff.

Mitigation Measures

Impacts would be less than significant. No mitigation measures are required.

HYD-5: Would the Proposed Project Create or Contribute Runoff Water that Would Exceed the Capacity of Existing or Planned Stormwater Drainage Systems or Provide Substantial Additional Sources of Polluted Runoff?

Construction

During construction, erosion of surface materials could increase TSS and other pollutants, as mentioned in HYD-1. Sedimentation and siltation of runoff during the construction period would be addressed through the implementation of standard construction-phase BMPs. The amount of impervious cover would not increase during construction, and at various stages of construction, it would even be less than the existing amount. This would be considered a less-than-significant impact.

Operation

Impervious surfaces are proposed to decrease in the Wilson Canyon drainage from 50.7% to 52.3% during Tier 1. Impervious surfaces in the Olive View Drive storm drainage in Tier 1 are proposed to decrease from 74.9% to 46.2%. Peak flow rates to the Wilson Canyon drainage would be reduced from existing conditions by 12%, 16%, and 20%, for the 2-year, 10-year and 100-year, 24-hour storm events, respectively. Peak flow rates to the Olive View Drive storm drainage from Tier 1 would be reduced from existing conditions by 100%, 94%, and 40% for the 2-year, 10-year and 100-year, 24-hour storm events, respectively. Tier 2 peak flows were not modeled. However, Tier 2 proposed peak flows are expected to be equivalent or reduced from existing conditions.

Pollutant loads into Wilson Canyon drainage and Olive View Drive storm drainage from proposed conditions in Tier 1 would not increase, as discussed in HYD-1 and seen in Tables 9a

and 9b in Exhibit C. Modeled pollutant loads for a 2-yr 24-hr storm event into the Wilson Canyon drainage would decrease for TSS, nitrogen, copper, lead and zinc would decrease by 92%, 57%, 69% and 78%, respectively. Modeled pollutant loads for a 2-yr 24-hr storm event into the Olive View Drive storm drainage from Tier 1 would decrease by 100% during a 2-year, 24-hour modeled storm event for TSS, nitrogen, copper, lead and zinc. Fecal coliform would decrease by 7.4% and 130% for a 2-year, 24-hour modeled storm event into Wilson Canyon drainage and Olive View Drive storm drainage, respectively. Annual pollutant loads were based on a 37-yr continuous simulation model. Annual pollutant loads into the Wilson Canyon drainage would decrease by 96%, 76%, 82%, 87%, 91% and 8% for TSS, nitrogen, copper, lead, zinc and fecal coliform, respectively. Annual pollutant loads into the Olive View Drive storm drainage would decrease by 100% for TSS, nitrogen, copper, lead, and zinc. Fecal coliform would decrease by 28%. Tier 2 pollutant loadings were not modeled, but are expected to remain at existing levels or to decrease below existing levels.

In addition to the decreased peak discharge and pollutant loadings, drainage from proposed site improvements would be conveyed through a new storm drain system that would be sized for proposed stormwater runoff from the site. The proposed project would not significantly affect the capacity or hydraulic integrity of the proposed on-site storm drain system, the existing Olive View Drive storm drain system, or the Wilson Canyon or Schoolhouse Canyon Drain open channel systems or provide substantial additional sources of pollution to these receiving systems.

Mitigation Measures

Impacts would be less than significant. No mitigation measures are required.

HYD-6: Would the Proposed Project Otherwise Substantially Degrade Water Quality?

Construction

As discussed above, the proposed project would include improvements to stormwater quality through the implementation of a campus-wide stormwater management system. Furthermore, construction-phase BMPs would be implemented in accordance with the County of Los Angeles Department of Public Works *Construction Site BMPs Manual* (2007) and the SWPPP that would be prepared in accordance with the requirements of the NPDES Stormwater General Permit. Construction-phase BMPs for the proposed project may involve scheduling, silt fencing, street sweeping and vacuuming, storm drain protection, stabilized construction entrances/exits, water conservation practices, paving and grinding operations, as well as procedures and practices pertaining to vehicle equipment cleaning, vehicle equipment fueling, and vehicle equipment maintenance.

Operation

Impacts HYD-1 to HYD-5 discusses potential impacts associated with the degradation of water quality during operation. Prior to the commencement of construction activities, the project proponent would be required to prepare and submit drainage plans to the city or County, which

would include post-construction structural and nonstructural BMPs. Routine structural BMPs are intended to address water quality impacts related to drainage, which are inherent in development.

As discussed previously, the LID features will mitigate pollutant loadings into the storm drainage system. However, maintenance will be required to sustain the effectiveness and extend the life-cycle of the LID features. For most LID features, sediment removal is one of the most important and significant maintenance activities. Once LID features clog or reach the end of their life-cycle, major rehabilitation or reconstruction may be needed. Regular inspection of LID features is also a key component of a successful Operations and Maintenance (O&M) Plan.

Bioretention maintenance requirements include removing sediment, trash, and debris to maintain the infiltration capacity. Additionally, shredded hardwood mulch should be removed and replaced annually to remove sediment and any accumulated metals captured by the mulch. Vegetation may require pruning as well as replanting of dead vegetation. Additionally, irrigation is typically required during the summer months. Because bioretention provides stormwater quality benefits, weeding should be done by hand and fertilizers, pesticides, and herbicides should not be used. Additionally, mulch and compost should not contain any manure or other animal products that may contribute nutrients to the stormwater runoff.

The maintenance activities associated with permeable pavement are geared towards removal of sediment and debris that may clog the pavement. Sweeping of leaf litter, debris, and sediment is needed to prevent organic materials from decomposing and clogging the pavement. For minor clogging, pressure washing may be used, while vacuum sweeping is recommended twice annually or more for areas with high sediment loads. Any weeds within the permeable pavement should be removed manually and herbicides should not be used.

While it is preferable to avoid constructing LID features in areas of potential liquefaction, some Tier 1 LID features could fall within a liquefaction risk area. Any LID features within or adjacent to liquefaction zones should include structural design modifications to ensure continued hydrologic and water quality performance after a liquefaction event. In the event, the LID features are damaged by a liquefaction event, repair, maintenance, and/or reconstruction may be needed based on the results of a field inspection of the LID features.

There are no other methods by which water quality could be degraded as a result of operations on the project site. Therefore, with implementation of mitigation measures MM-HYD-1 through MM-HYD-5, impacts associated with degrading water quality during operation would be less than significant.

Mitigation Measures

In addition to mitigation measures HYD-1 and HYD-2 as they pertain to water quality, the following measures are proposed to mitigate Impact HYD-6, above.

MM-HYD-4: An O&M Plan shall be developed for LID features at the site during the design of the initial development projects and expanded as development progresses and different LID features are added. The plan shall consider impacts on water quality and address issues related to

Integrated Pest Management (IPM) or organic maintenance practices, including those for hand weeding.

MM-HYD-5: For any proposed LID features located within an area of potential liquefaction, structural design modifications should be included to mitigate the potential impacts of liquefaction on the performance and operation of the LID features and to maintain the water quality performance as originally design. The O&M Plan should include provision for inspection, repair, maintenance, and/or reconstruction after liquefaction events for any LID features located within an area of potential liquefaction

Level of Significance after Mitigation

Less than significant.

HYD-7: Would the Proposed Project Contribute to Inundation by Seiche, Tsunami, or Mudflow?

Construction and Operation

The project site is located approximately 28 miles from the Pacific Ocean, so there is negligible risk to the site from tsunamis. The Pacoima Reservoir, located 4.5 miles east of campus, is unlikely to produce seiches that would affect the project site. The site is nestled against the San Gabriel Mountains. Several areas at the northern border of the project site are landslide hazard areas, as seen in Exhibit 11. The Wilson Canyon drainage, which transects the Tier 1 proposed project site, is mapped as containing liquefaction hazards within the project area and landslide hazards directly upstream of the Tier 1 project border. Areas susceptible to liquefaction in Tier 1 are primarily landscaped regions, tree-lined streets and parking lots. The eastern corner of the proposed administration building and portions of the Restorative Care Village facilities fall within the mapped liquefaction hazard area. This makes mudflows a potential hazard to the site. Mitigation of mudflows upstream of the project is already in place via the Wilson Canyon Debris Dam and Basin upstream of the project site.

The landslide hazard areas immediately to the north of the project site could potentially produce mudflows. New construction along the northern edge could result in further landslide, and thus mudflow, hazards. In the *Master Plan*, retaining walls (eight-foot maximum) and grade breaks are proposed along the northern project border, which would both protect the site from mudflow and make contributions to mudflow generation less than significant. Further, proposed landscaping and site stabilization within the site is likely to decrease erosion potential and may reduce contributions to mudflow as compared to existing conditions.

Mitigation Measures

No mitigation measures are required.

Level of Significance after Mitigation

Less than significant.

HYD-8: Expose people or structures to a significant risk of loss, injury, or death involving flooding, including flooding as a result of the failure of a levee or dam?

Construction and Operation

Given that the area in which the proposed project would be located is outside the 100-year flood plain, the proposed project would not result in increased exposure to loss, injury, or death involving flooding. The nearest large body of water is the Pacoima Reservoir, nestled in the San Gabriel Mountains approximately three miles to the east. The Olive View – UCLA project site is located outside of the Pacoima Dam inundation area (Appendix J).

There may be risk of exposing people and structures to flooding in the Tier 1 proposed project area if the Wilson Debris Dam and Basin failed. The dam outflow transects the eastern half of Tier 1. The primary proposed areas that would be affected are landscaping and parking, which are present in existing conditions as well.

The outflow from the Schoolhouse Debris Dam and Basin borders the western side of the Tier 2 proposed project site. The area within the project site that could be affected by dam failure of the Schoolhouse Debris Dam would be a woodland preserve and trailhead view deck landscape areas. The existing site on the western edge is landscaped and vacant.

The project region at greatest risk from debris dam failure is Tier 1. The proposed Tier 1 would not add significant structures to the areas that would be affected by debris dam failure. In addition, peak flows and impervious surfaces will be decreased, as previously discussed. Thus Tier 1 would not add to discharge in the Wilson Canyon, were flooding due to debris dam failure would occur. Due to the limited land use change in the regions that would be impacted by a debris flow, and the decreased peak flow and impervious areas within the proposed project site, there is less than a significant risk from flooding due to debris dam failure. Additionally, the risk of loss, injury, or death involving flooding is not increased as compared to existing conditions at the site.

Mitigation Measures

No mitigation measures are required.

Level of Significance after Mitigation

Less than significant.

HYD-9: Place housing within a 100-year flood hazard area, as mapped on a Federal Flood Hazard Boundary Map or Flood Insurance Rate Map or other flood hazard delineation map.

Construction and Operation

In eastern side of Tier 1, the Wilson Canyon drainage runs north to south. The southern half of the drainage within Tier 1 is mapped as having a 100-year floodplain (Exhibit 3). Parking lots will be within 100 feet of the drainage. The 100-year floodplain it is contained within the channel. The entire Olive View – UCLA project site (Tier 1 and Tier 2) is delineated as an X (unshaded) flood zone by FEMA, which is defined as minimal risk of flood hazard. Housing is not proposed within a mapped flood hazard zone or the 100-year floodplain.

Mitigation Measures

No mitigation measures are required.

Level of Significance after Mitigation

Less than significant.

HYD-10: Place within a 100-year flood hazard area structures that would impede or redirect flood flows.

Construction and Operation

As discussed in HYD-9, there are parking lots to the west and east of the Wilson Canyon drainage 100-year floodplain, located in Tier 1. The floodplain is contained within the channel. There are no mapped 100-year floodplains within Tier 2. No structures are proposed within the 100-year floodplain during Tier 1 or Tier 2 development and no impediment or redirection of flood flows is expected.

Mitigation Measures

No mitigation measures are required.

Level of Significance after Mitigation

Less than significant.

Cumulative Impacts

The geographic scope for cumulative impacts related to water quality and hydrology encompasses the project site and the land uses within a one-mile radius of the project site. There

are no other known projects currently planned near the Olive View - UCLA Medical Center project site.

CONCLUSIONS

Compliance with the Construction General Permit, SWPPP, NPDES requirements, and local regulations that require construction-phase BMPs would ensure that construction activities would not degrade the surface water quality of receiving waters to levels below standards considered acceptable by the Los Angeles RWQCB or other regulatory agencies or impair the beneficial uses of the receiving waters. Construction would not result in a violation of any water quality standards or waste discharge requirements, would not provide substantial additional sources of polluted runoff, and would not substantially degrade water quality. In Tier 1, pollutant loadings from the proposed site into the Wilson Canyon drainage and the Olive View Drive storm drainage would decrease as modeled for a 2-year, 24-hour storm event and annual continuous simulation. Pollutant loadings from the proposed Tier 2 project site are also expected to decrease.

Groundwater recharge is likely to increase based on the decrease of impervious surfaces in both Tier 1 drainage areas. A significant portion of Tier 2 falls outside of the Sylmar groundwater basin. In addition, the Tier 2 proposed impervious cover will decrease as compared to existing conditions. Groundwater contamination would not be a factor during construction or during operation. The project would be required to comply with all applicable federal, state, and local requirements concerning the handling, storage, and disposal of hazardous materials to reduce the potential for the release contaminants into groundwater because of project construction. Thus, construction activities would not degrade groundwater quality or interfere with recharge. During operation, groundwater contamination is not expected to occur based on the LID features and decrease in impervious surfaces allowing for more infiltration into native soil and thus filtration.

Indoor water usage for the project site is proposed to increase by approximately 51 ac-ft/year after Tier 1 completion and by 70 ac-ft/year after Tier 2 completion, including the implementation of water conservation features. Outdoor water use in Tier 1 is expected to increase by 51 ac-ft/year. Outdoor water use in Tier 2 is expected to increase by 70 ac-ft/year, including Tier 1 outdoor water use.

During construction, surface run-off would not increase discharges. Water applications would be precise and the fill material and native soil exposed during construction are very permeable, allowing for infiltration during construction. Localized erosion and sedimentation may occur during construction activities. Standard construction-phase BMPs would decrease the potential for any significant erosion or sedimentation from soil disturbance associated with construction of the project. In addition, standard construction practices related to erosion and sediment control would be required as part of the permitting process. Discharge from both drainages would decrease in Tier 1 and would be expected to decrease in Tier 2. TSS would decrease in Tier 1 due to the decrease in impervious surfaces and the implementation of bioretention and permeable pavement LID features and is expected to decrease during Tier 2

The *Master Plan* proposes new and additional storm drain pipes within Tier 1 and Tier 2. The storm drainage outflow locations in Tier 1 and Tier 2 would not change. The updated storm drainage system would be appropriately sized to handle proposed stormwater discharge generated within Tier 1 and Tier 2. However, due to the decrease in peak discharge in Tier 1 and the expected decrease in peak discharge in Tier 2, impacts to storm drainage discharge from the project into the receiving systems are not expected.

The Wilson Canyon 100-year floodplain within Tier 1 is confined to the drainage channels and does not pose a flooding risk to existing or proposed structures. No drainage structural changes or increases in peak discharge will occur with the proposed project that would affect the Wilson Canyon 100-yr floodplain extent. There are no floodplains present in Tier 2. Flooding due to reservoir dam failure will also not occur at the project site as it is outside of the dam failure hazard zone for Pacoima Reservoir, the nearest dammed body of water. There are two debris basins, Wilson Canyon Debris Basin upslope from Tier 1 and Schoolhouse Drainage Debris Basin upslope from the western border of Tier 2. Failure of the debris basin dams could result in flooding and sediment loading, affecting primarily the Tier 1 Wilson Canyon drainage. The debris basin dams will not be structurally influenced by the proposed construction or operation.

The project site is well outside of the tsunami inundation areas for the Los Angeles region (Appendix J) and there is no risk of sieche in the existing or proposed site. In the Tier 1 Wilson Canyon drainage area, there are areas mapped as susceptible to liquefaction (Exhibit 11). There are also several areas immediately upslope of Tier 1 and Tier 2 mapped as susceptible to landslides (Exhibit 11). Development within the liquefaction zones and adjacent to the landslide zones may contribute to potential mudflows. Appropriate structural design and BMPs techniques would be utilized to reduce the potential impacts of mudflows.

The Olive View - UCLA Medical Center project meets established project goals:

- ✓ Meet County of Los Angeles LID and stormwater treatment criteria;
- ✓ Use LID to reduce proposed conditions peak flows and runoff volumes to below existing conditions;
- ✓ Simulate undeveloped conditions through use of infiltration and groundwater recharge across the project site.

Detailed water budget modeling results from EPA SWMM are included in Appendix C. To ensure the long-term functionality of the LID features and performance of the site, development of and compliance with an Operations & Maintenance (O&M) Plan is critical. Additionally, proper construction sequencing is critical to avoid premature sedimentation of the facilities.

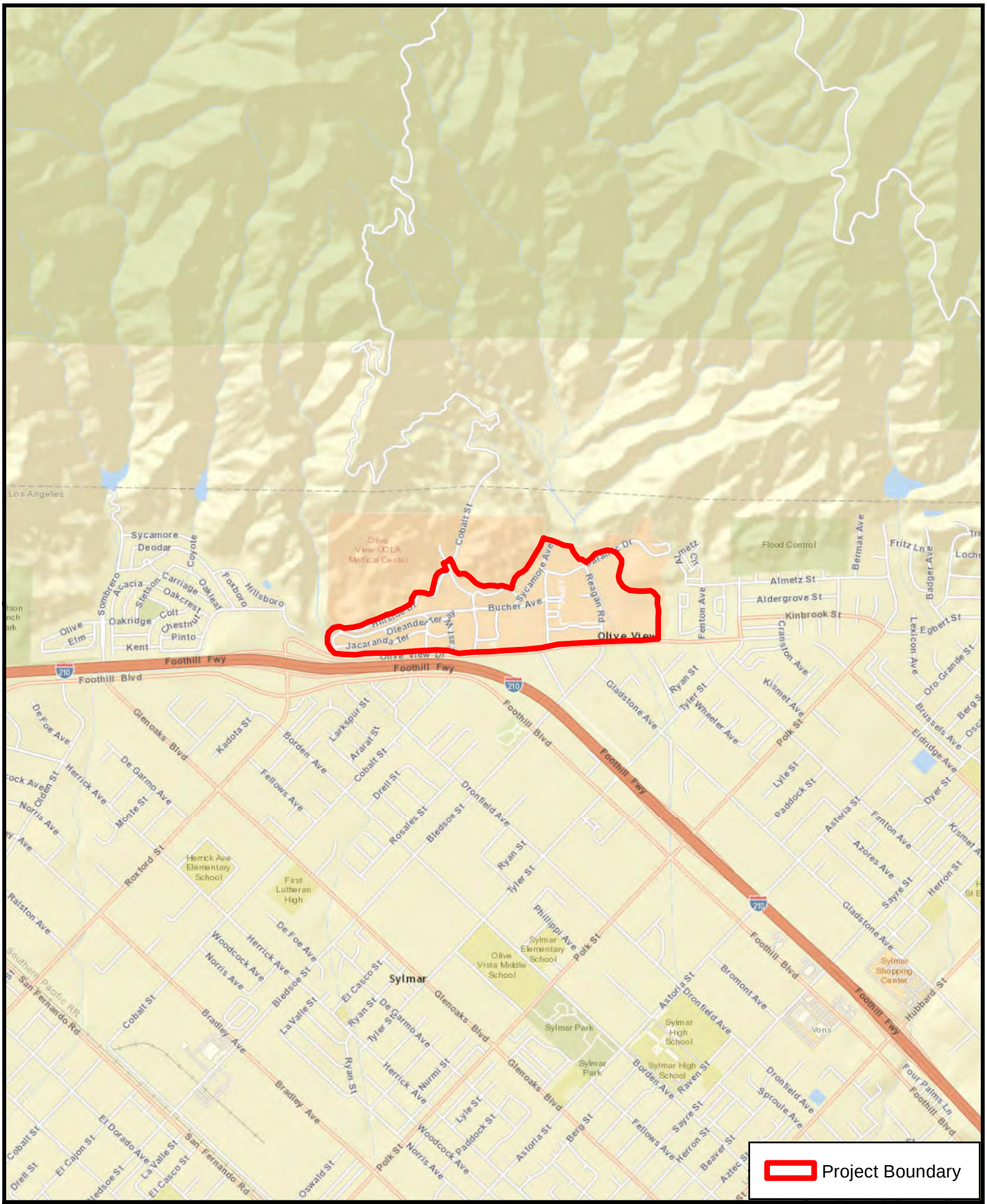
Redevelopment of the UCLA Medical Center-Olive View site represents a significant opportunity for sustainability and LID retrofits within a densely urbanized area and for implementation of Green Infrastructure and LID for Los Angeles County. Thank-you for the opportunity to collaborate on this visionary project.

EXHIBITS

Exhibit 1 – Vicinity Map
Exhibit 2 – Aerial Photograph
Exhibit 3 – FIRM
Exhibit 4 – Topographic Map
Exhibit 5 – Subwatershed Map
Exhibit 6 – Drainage Area Map
Exhibit 7A – Land Use
Exhibit 7B – Existing Landscape
Exhibit 7C – Proposed Landscape
Exhibit 8 – Soil Map
Exhibit 9 – Groundwater Basins Map
Exhibit 10 – Spreading Grounds
Exhibit 11 – Liquefaction Map
Exhibit 12 – 2-Year Rainfall
Exhibit 13 – 10-Year Rainfall
Exhibit 14 – 100-Year Rainfall

APPENDICES

Appendix A-References
Appendix B-Design Storm Unit Hyetograph
Appendix C-Tables of Hydrology Modeling Data and Results
Appendix D-EPA SWMM Water Budget Results
Appendix E-Section 5 of the Los Angeles County 1994-2005 Integrated Receiving Water Impacts Report [Cover]
Appendix F-Water Quality Compliance Master Plan for Urban Runoff
Appendix G-Olive View Campus Master Plan LID Layout/Water quality sheets
Appendix H – EPA Guide to Urban Stormwater Pollutant Concentrations (Tables 4-1 and 4-3)
Appendix I-Site Reconnaissance Photographs
Appendix J-City of Los Angeles Hazard Mitigation Plan (Dam Failure and Tsunami Inundation)
Appendix K – County of Los Angeles Low Impact Development Handbook TMDL Data
Appendix L – Preliminary Geotechnical Evaluation
Appendix M – Los Angeles RWQCB Basin Plan (Chapter 7) [Cover]
Appendix N – The Green Visions Plan for 21st Century Southern California (Table 7)


Project Boundary
Olive View-UCLA Medical Center
Olive View
Sylmar
Foothill Fwy
Foothill Blvd
Glenoaks Blvd
Herrick Ave Elementary School
First Lutheran High
Olive Vista Middle School
Sylmar Elementary School
Sylmar Park
Sylmar High School
Sylmar Shopping Center
Vons
Flood Control
Cobalt St
Sycamore Ave
Bucher Ave
Reagan Rd
Almetz St
Aldergrove St
Kinbrook St
Fenton Ave
Polk St
Lyle St
Paddock St
Dronfield Ave
Bromont Ave
Hubbard St
Bradley Ave
San Fernando Rd
Norris Ave
Woodcock Ave
Bledsoe St
La Valle St
Ryan St
Tyler St
Rosales St
Drell St
Borden Ave
Fellows Ave
Roxford St
Monte St
De Garmo Ave
De Foe Ave
Herrick Ave
Ralston Ave
Southern Pacific RR
Sycamore
Deodar
Olive
Elm
Oakridge
Kent
Colt
Chestnut
Pinto
Oleander Ter
Jacaranda Ter
Olive View Dr
Gladstone Ave
Kismet Ave
Eldridge Ave
Brussels Ave
Oro Grande St
Dyer St
Asteria St
Azores Ave
Sayre St
Herron St
Four Palms Ln
Sproule Ave
Beaver St
Aztec St
Oswald St
El Dorado Ave
El Cajon St
Drell St
Cobalt St
Bermax Ave
Fritz Ln
Badger Ave
Lexicon Ave
Egbert St
Cranston Ave
Phillippi Ave
Raven St
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Nurmi St
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Drell St
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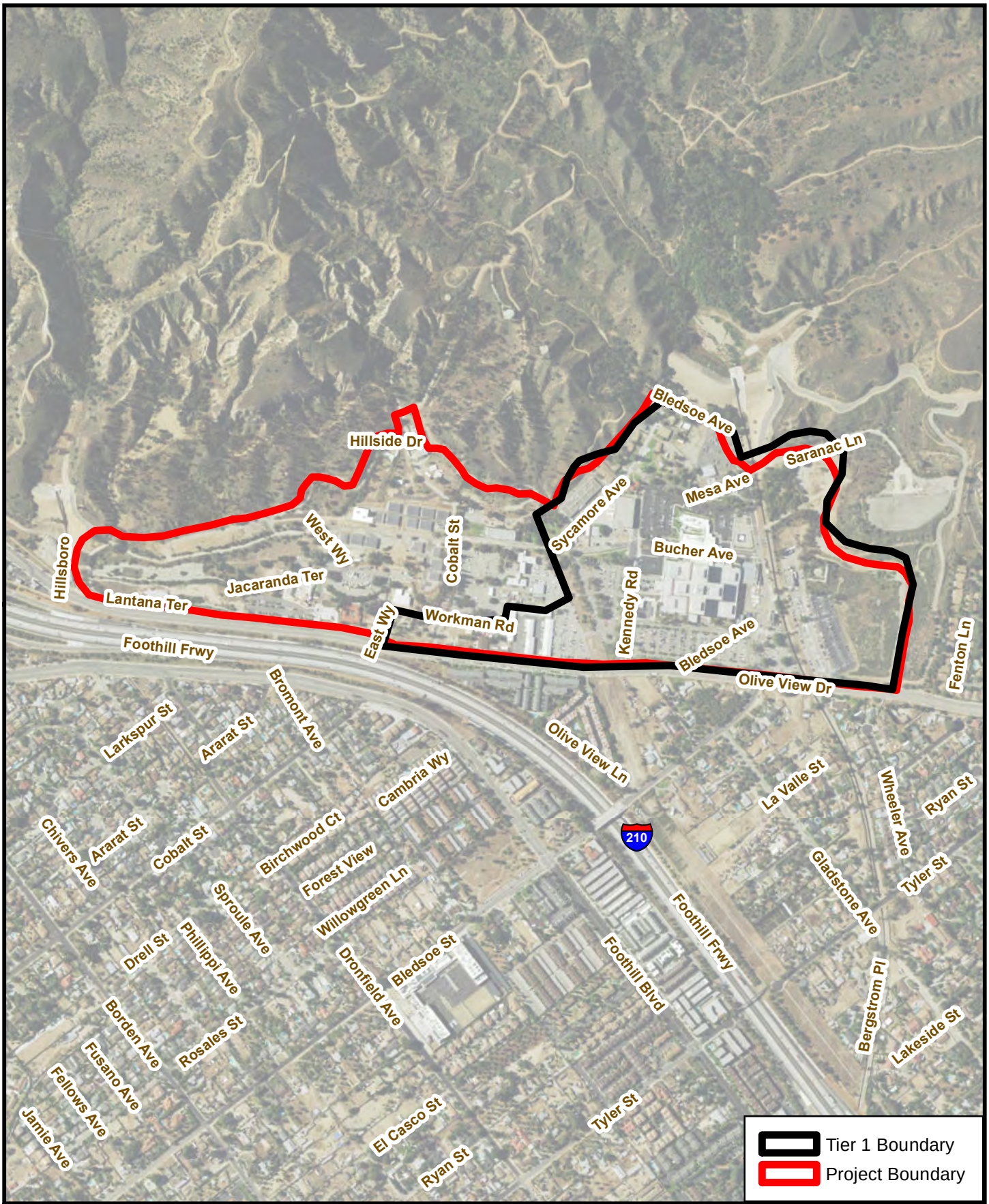

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Units: US Feet

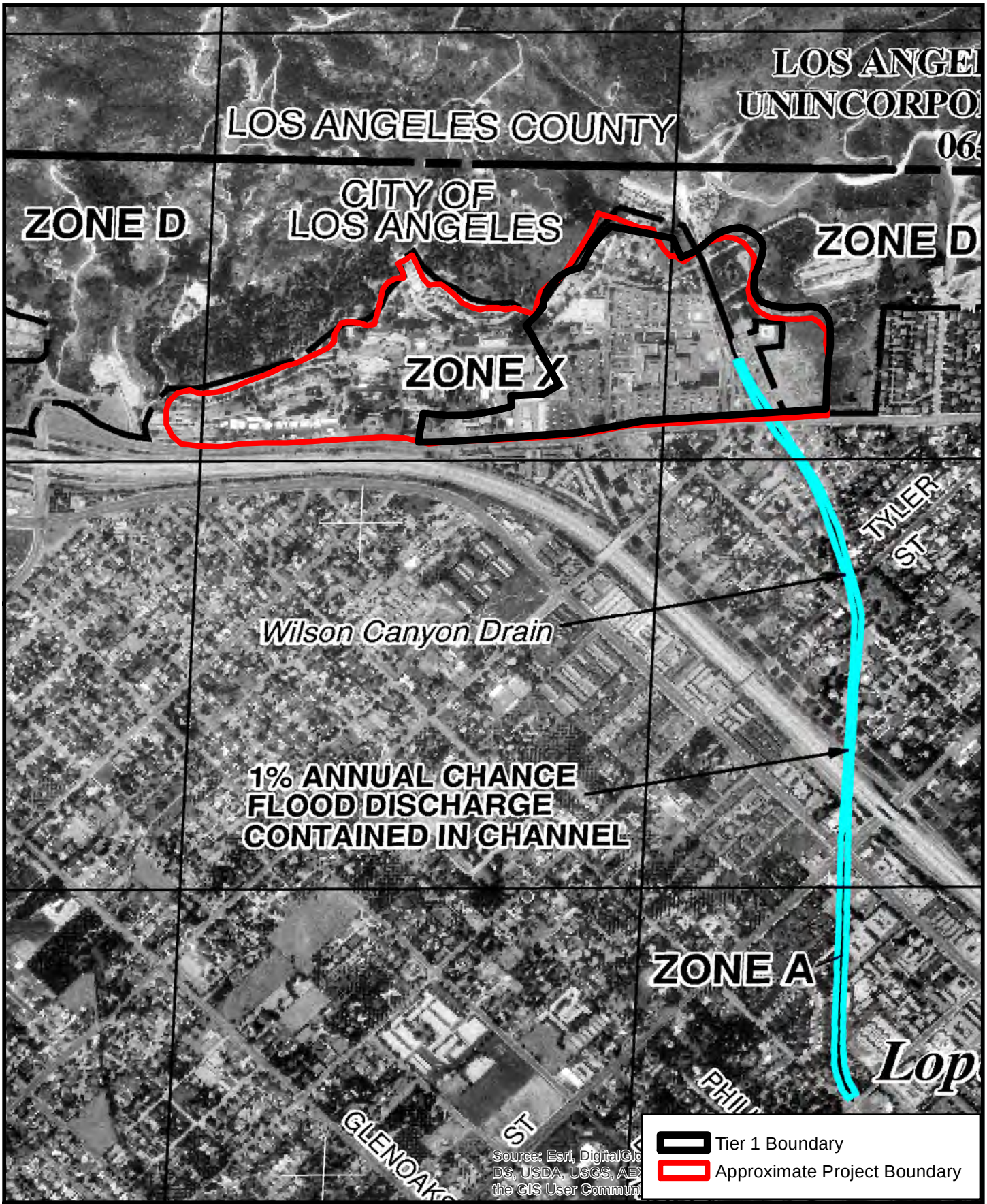
SITE

OLIVE VIEW MASTER PLAN
UCLA-LOS ANGELES
CALIFORNIA
AERIAL MAP

Watearth
Water Resources + Green Infrastructure

Date: Jun 26, 2016

Exhibit 2


LOS ANGELES COUNTY
CITY OF LOS ANGELES
ZONE D
ZONE D
ZONE X
TYLER ST
Wilson Canyon Drain
1% ANNUAL CHANCE FLOOD DISCHARGE CONTAINED IN CHANNEL
ZONE A
GLENOAK
ST
Source: Esri, DigitalGlo
DS, USDA, USGS, AE
the GIS User Commun
Tier 1 Boundary
Approximate Project Boundary
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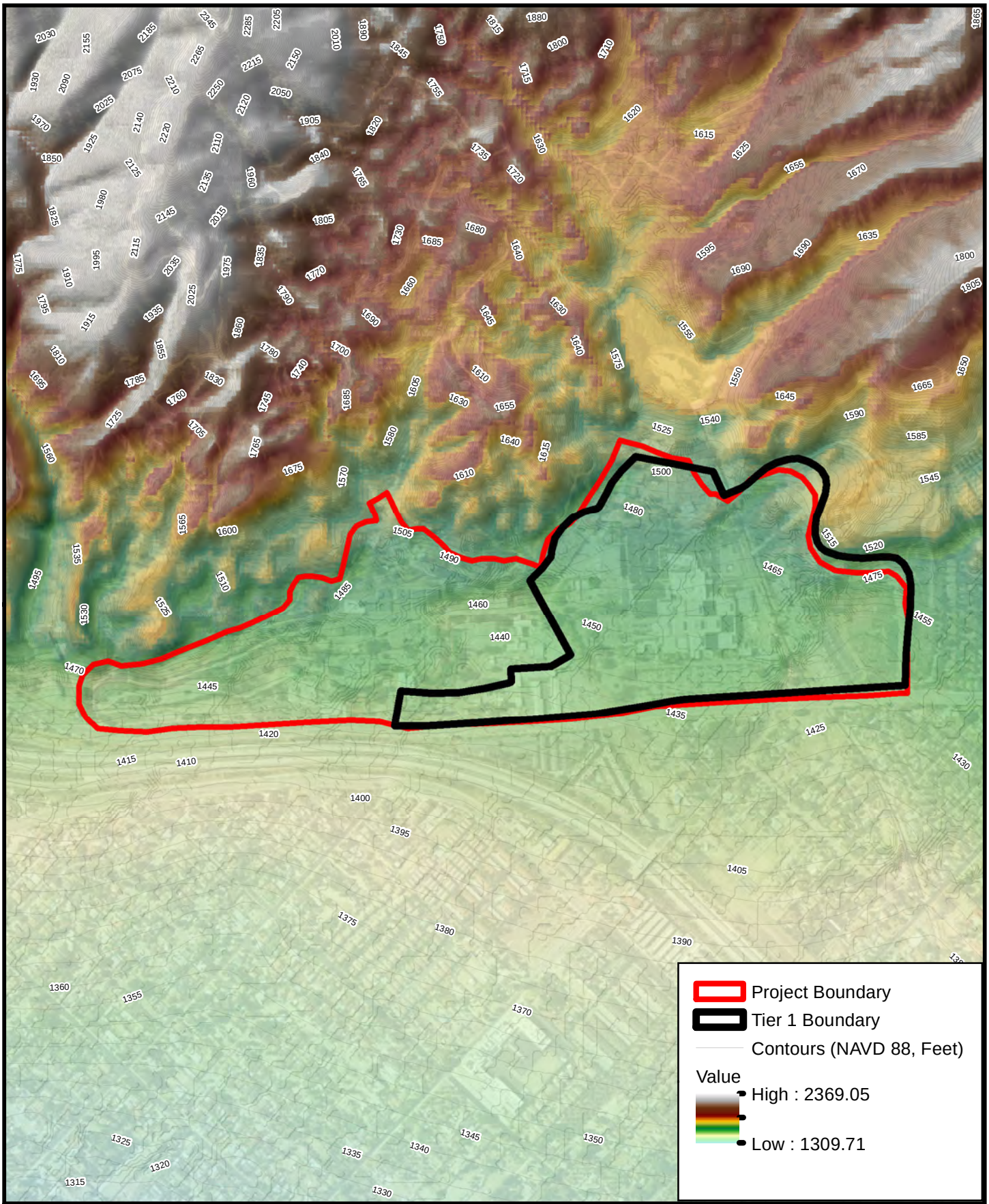
OLIVE VIEW-UCLA MEDICAL CENTER CAMPUS MASTER PLAN EIR
FEMA FIRM MAP
PANEL NO. 06037C1075F
(EFFECTIVE SEPTEMBER 26, 2008)
Watearth
Water Resources + Green Infrastructure
Date: Jul 01, 2016
Exhibit 3



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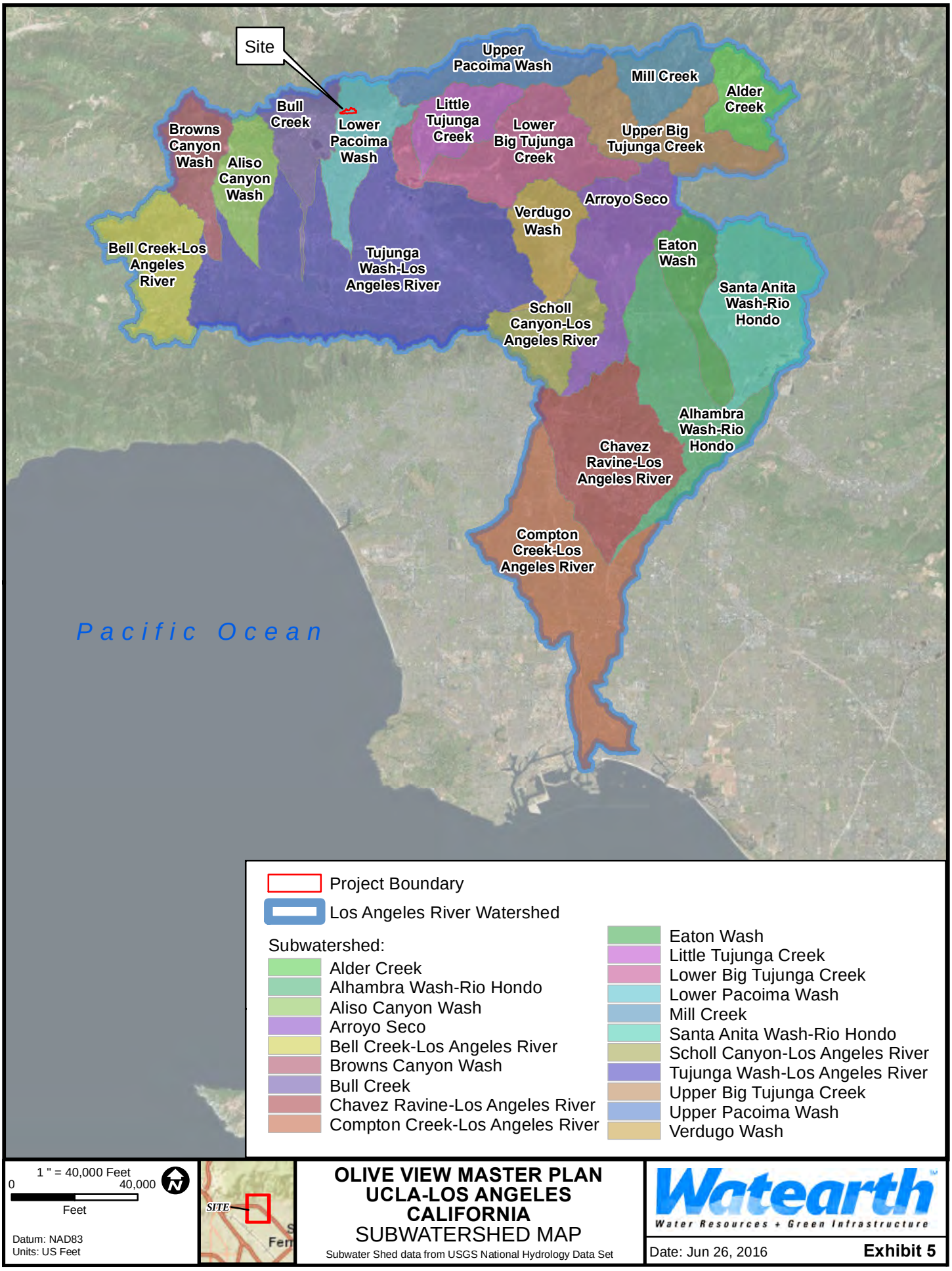
OLIVE VIEW MASTER PLAN
UCLA-LOS ANGELES
CALIFORNIA
TOPOGRAPHIC MAP

Elevation data from USGS National Elevation data set

Watearth
Water Resources + Green Infrastructure

Date: Jun 26, 2016

Exhibit 4



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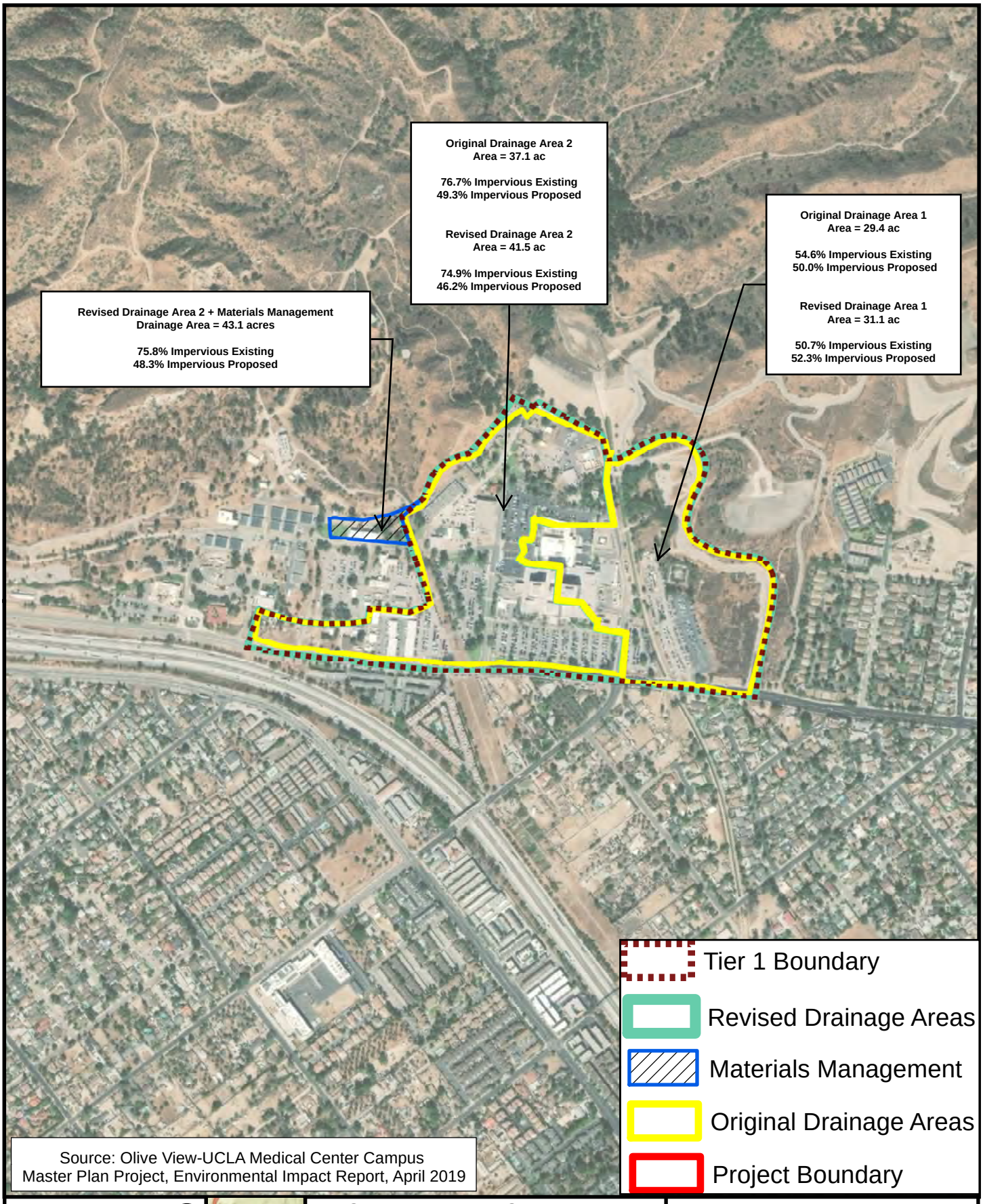
OLIVE VIEW MASTER PLAN
UCLA-LOS ANGELES
CALIFORNIA
SUBWATERSHED MAP

Subwater Shed data from USGS National Hydrology Data Set

Watearth
Water Resources + Green Infrastructure

Date: Jun 26, 2016

Exhibit 5



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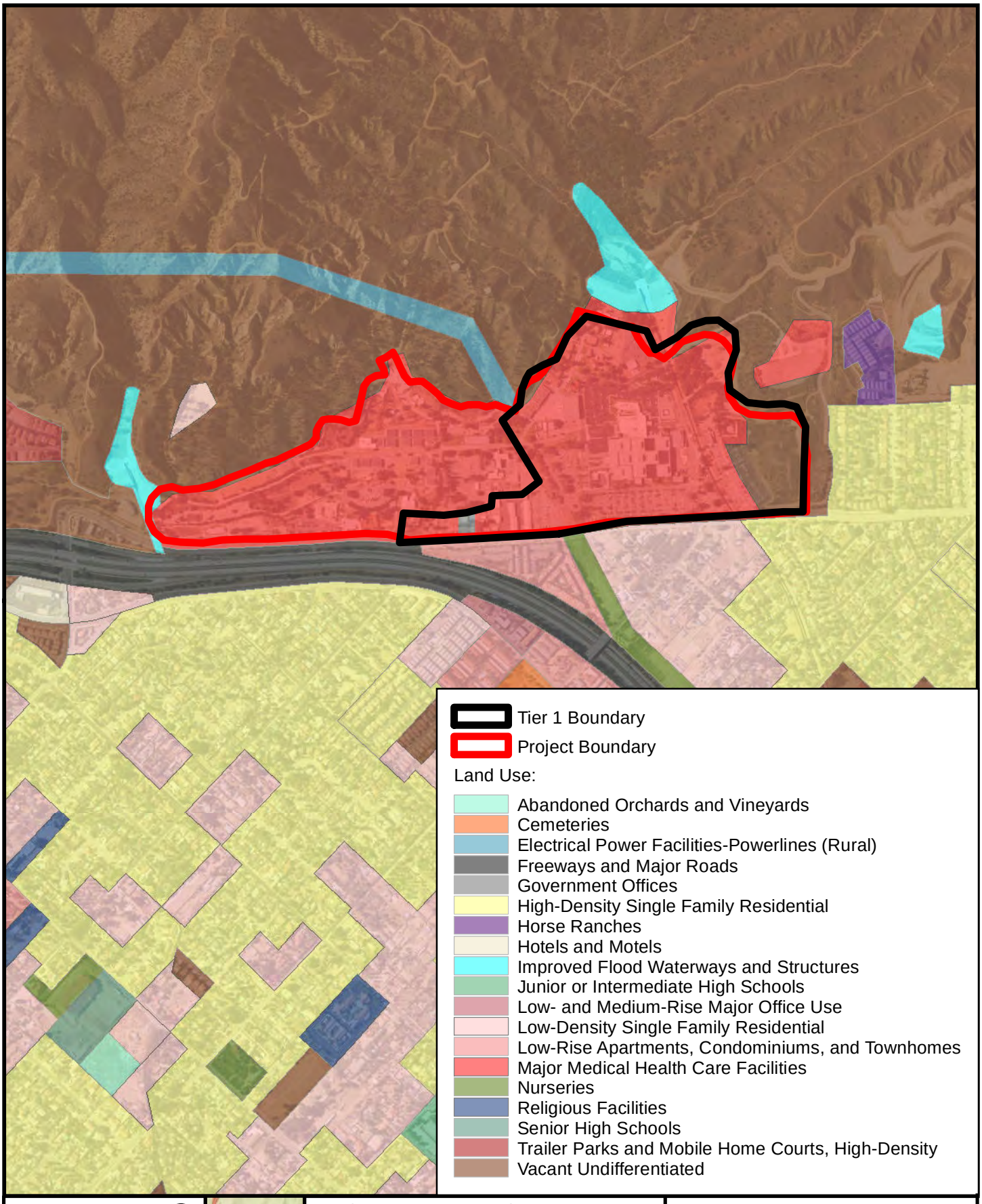
OLIVE VIEW MASTER PLAN
UCLA-LOS ANGELES
CALIFORNIA

DRAINAGE AREA MAP

Watearth
Water Resources + Green Infrastructure

Date: Apr 26, 2019

Exhibit 6



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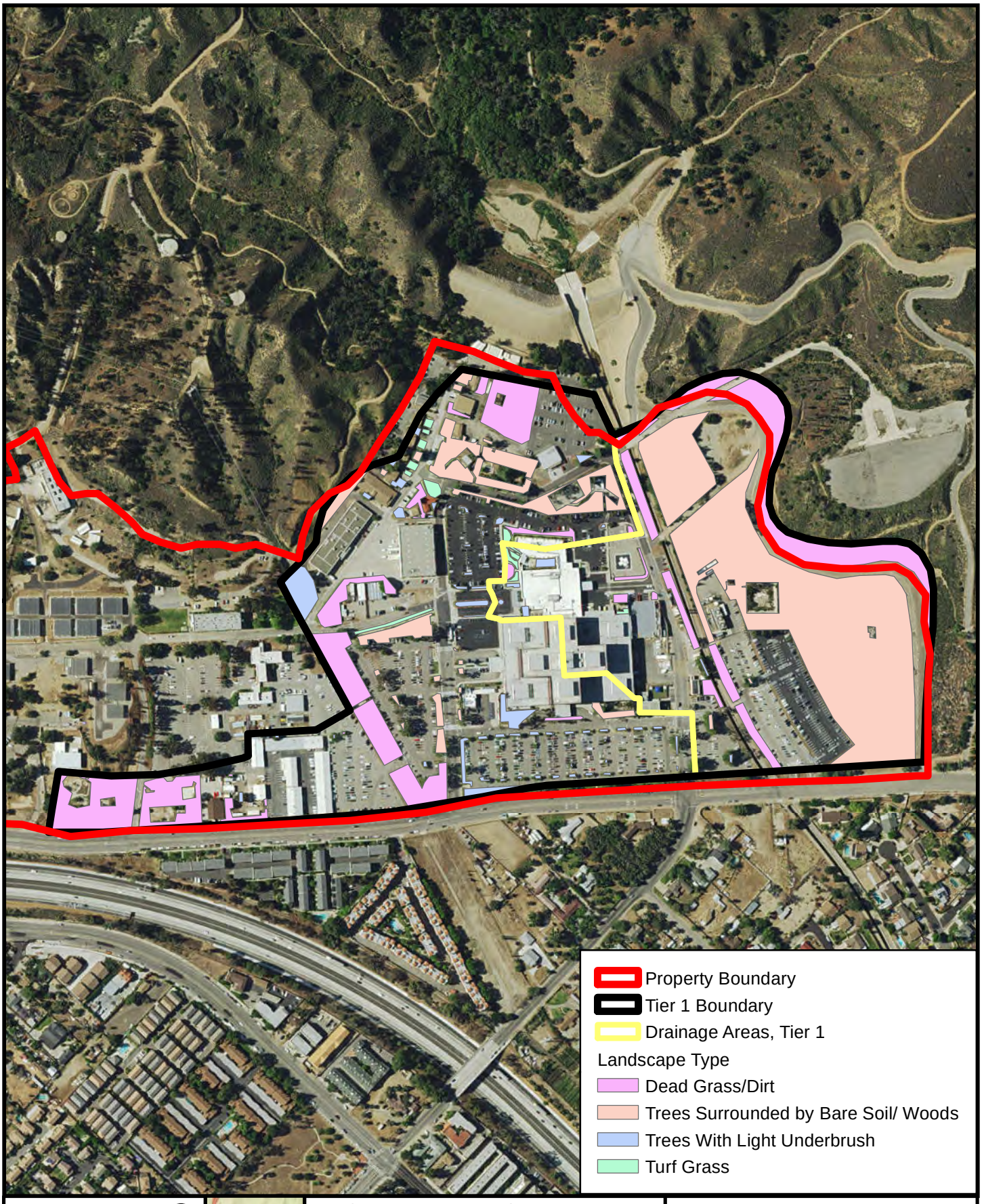
OLIVE VIEW MASTER PLAN
UCLA-LOS ANGELES
CALIFORNIA
LAND USE MAP

Land Use data from Los Angeles County Department of Public Works

Watearth
Water Resources + Green Infrastructure

Date: Jun 26, 2016

Exhibit 7



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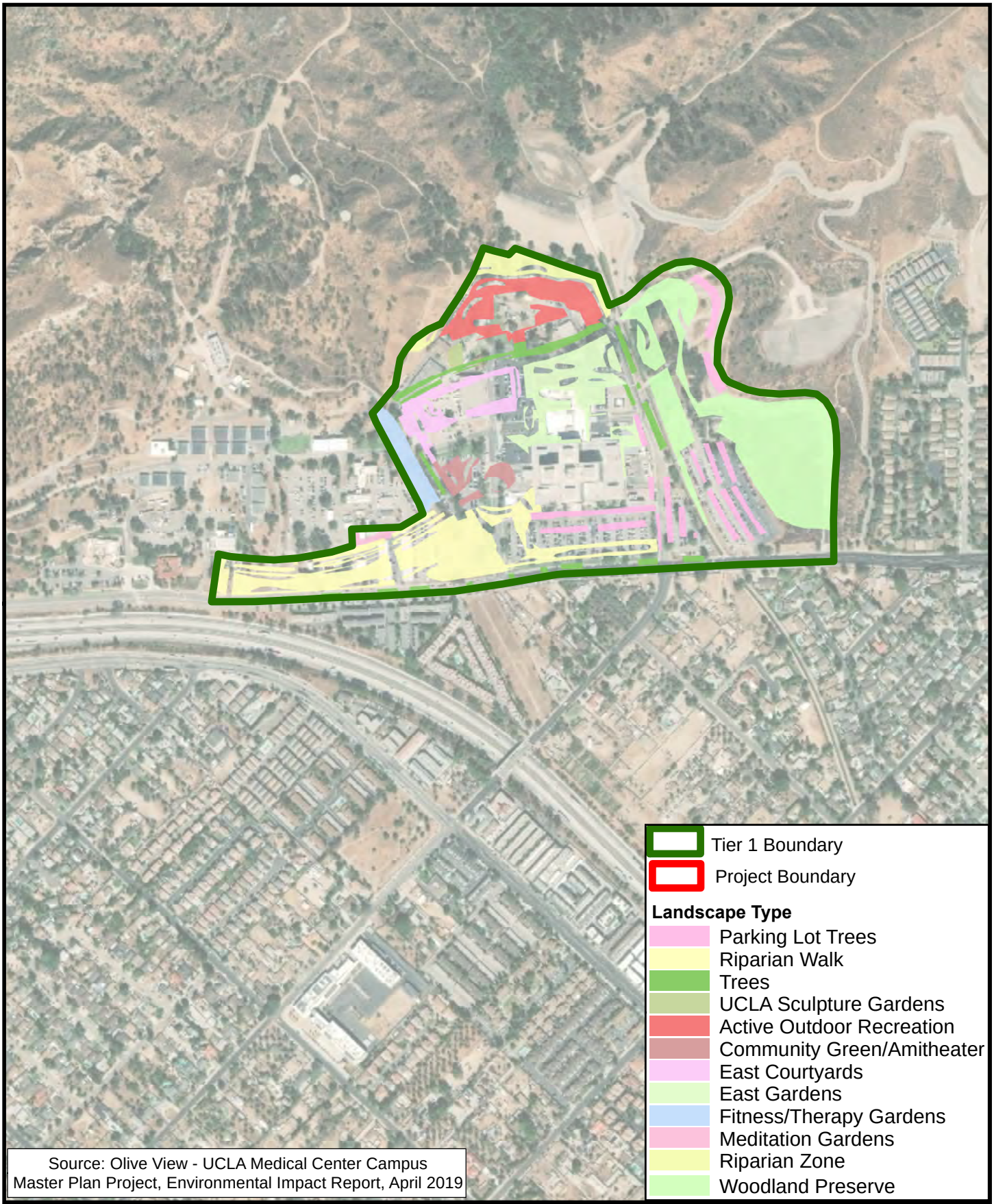
OLIVE VIEW MASTER PLAN
UCLA-LOS ANGELES
CALIFORNIA
EXISTING LANDSCAPE

Watearth
Water Resources + Green Infrastructure

Date: Jul 01, 2016

Exhibit 7B



Source: Olive View - UCLA Medical Center Campus Master Plan Project, Environmental Impact Report, April 2019

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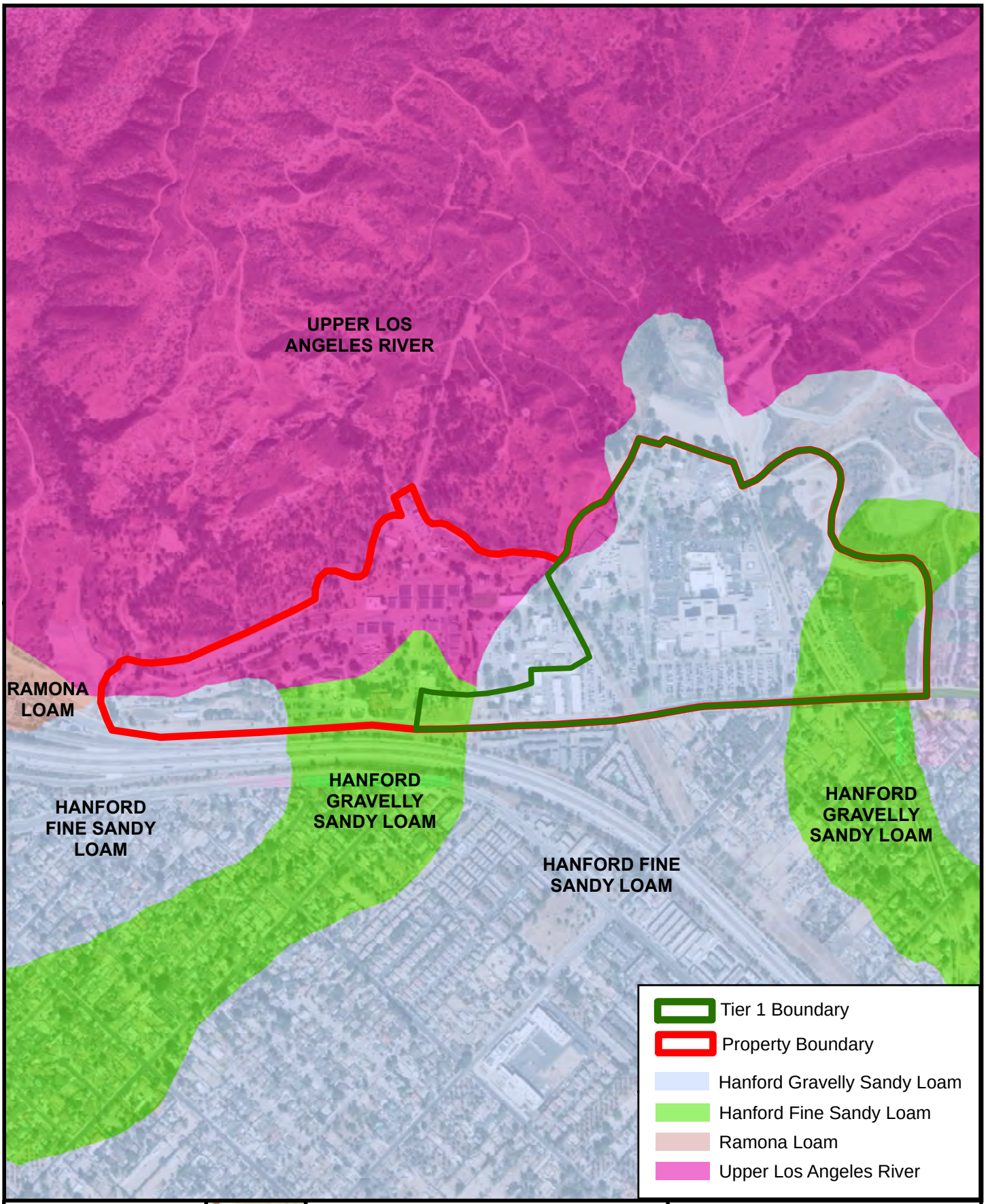
Units: US Feet

OLIVE VIEW MASTER PLAN
UCLA-LOS ANGELES
CALIFORNIA
PROPOSED LANDSCAPE

Watearth
Water Resources + Green Infrastructure

Date: May 7, 2019

Exhibit 7C



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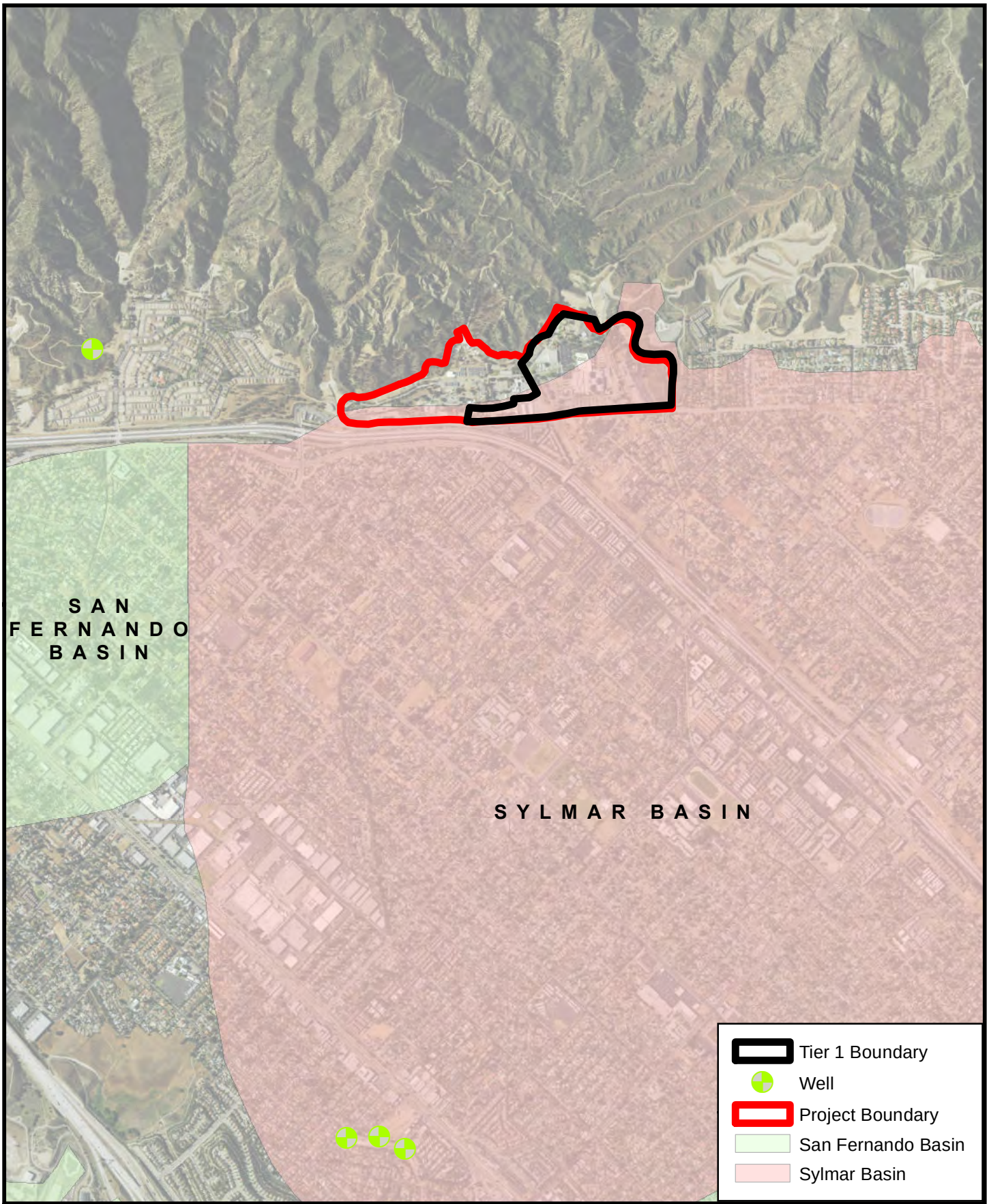
OLIVE VIEW
UCLA - LOS ANGELES
CALIFORNIA
SOIL MAP

Soil types data from Los Angeles County Department of Public Works

Watearth
Water Resources + Green Infrastructure

Date: Apr 26, 2019

Exhibit 8



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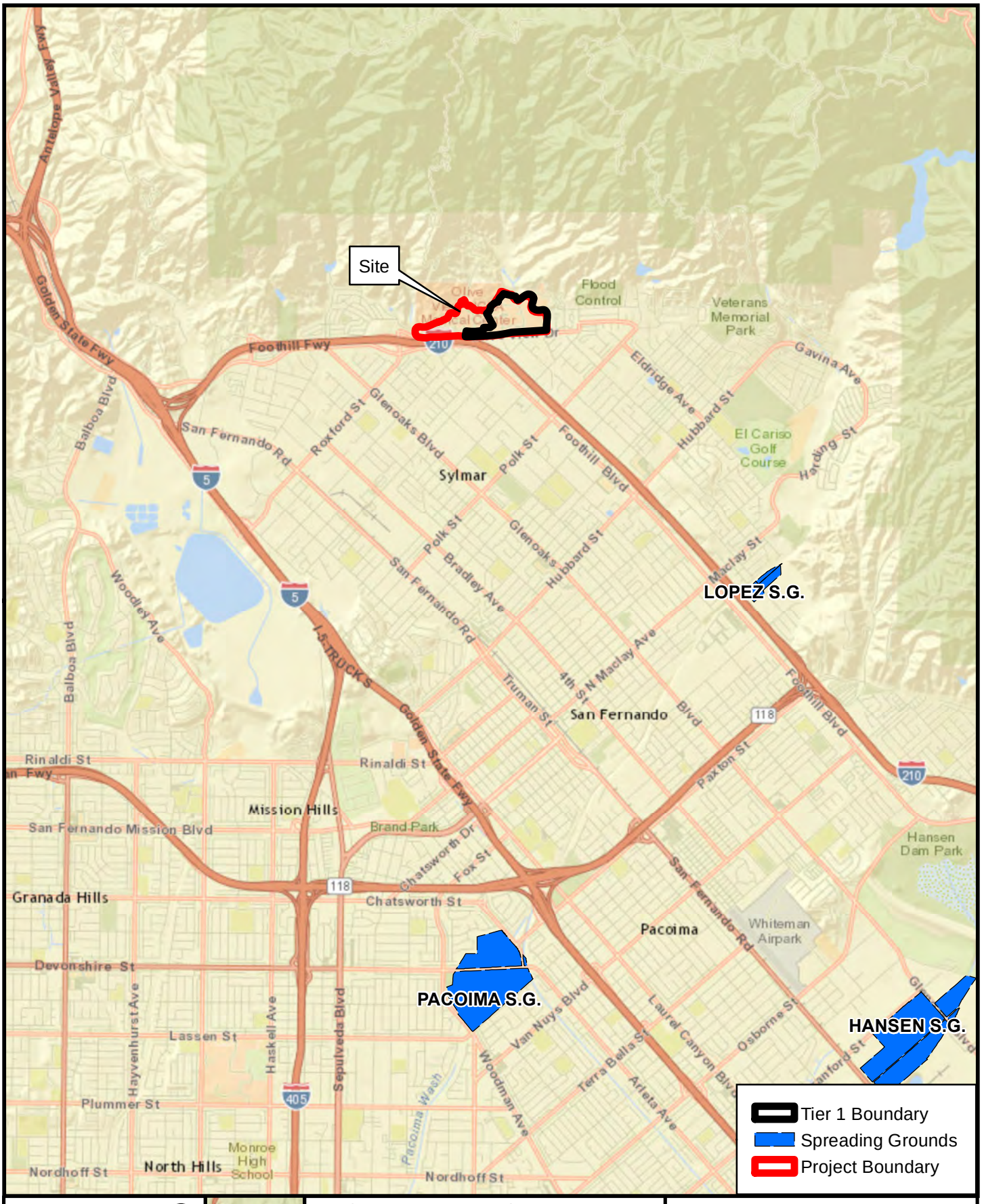
OLIVE VIEW MASTER PLAN
UCLA-LOS ANGELES
CALIFORNIA
GROUNDWATER MAP

Groundwater data from Los Angeles County Department of Public Works

Watearth
Water Resources + Green Infrastructure

Date: Jun 26, 2016

Exhibit 9



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OLIVE VIEW MASTER PLAN
UCLA-LOS ANGELES
CALIFORNIA
STORMWATER SPREADING GROUNDS

Spreading Grounds data from Los Angeles Co. Department of Public Works

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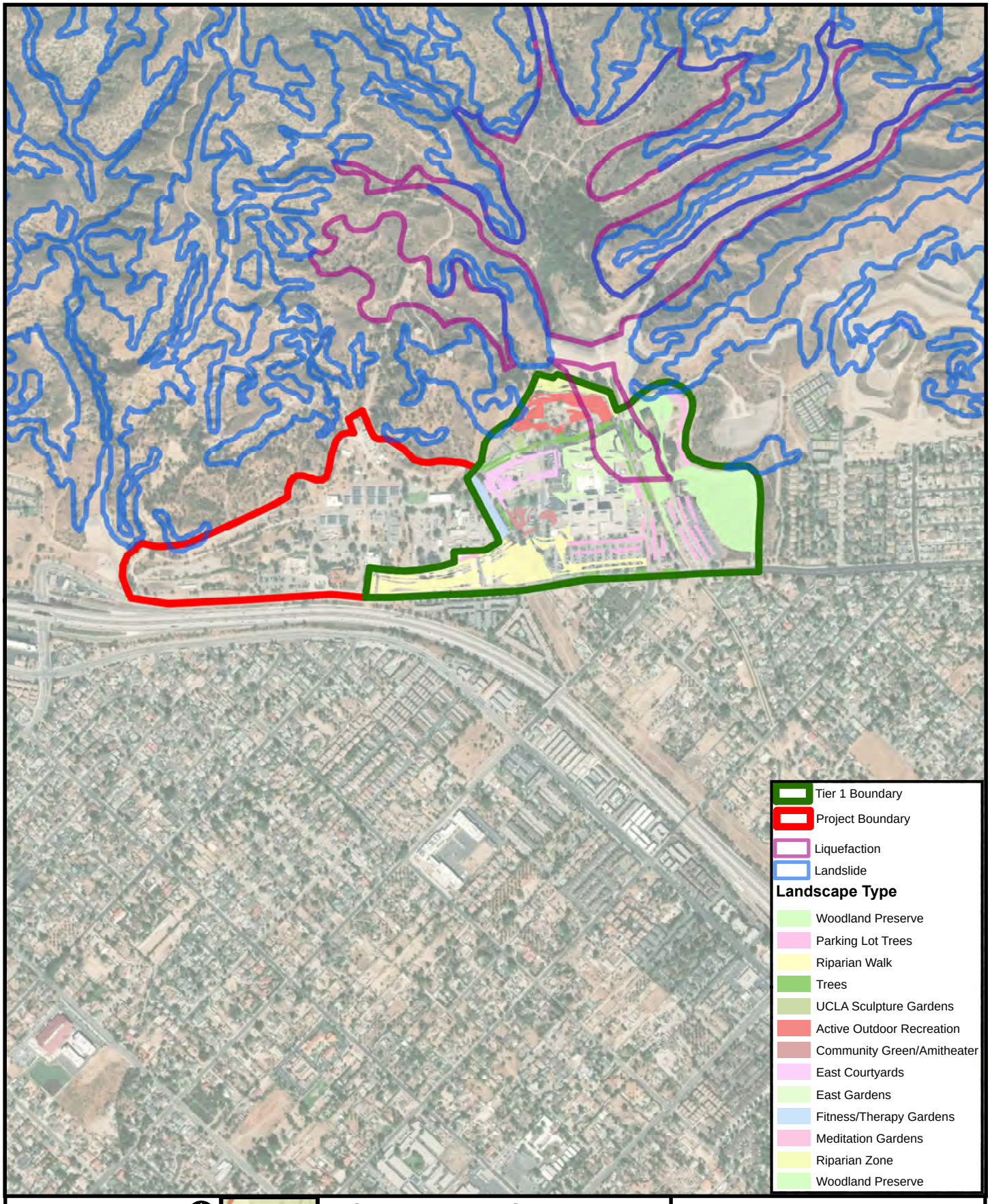
Water Resources + Green Infrastructure

Date: Jun 26, 2016

Exhibit 5



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OLIVE VIEW MASTER PLAN
UCLA-LOS ANGELES
CALIFORNIA

LIQUEFACTION MAP

Liquefaction data from California State Department of Conservation

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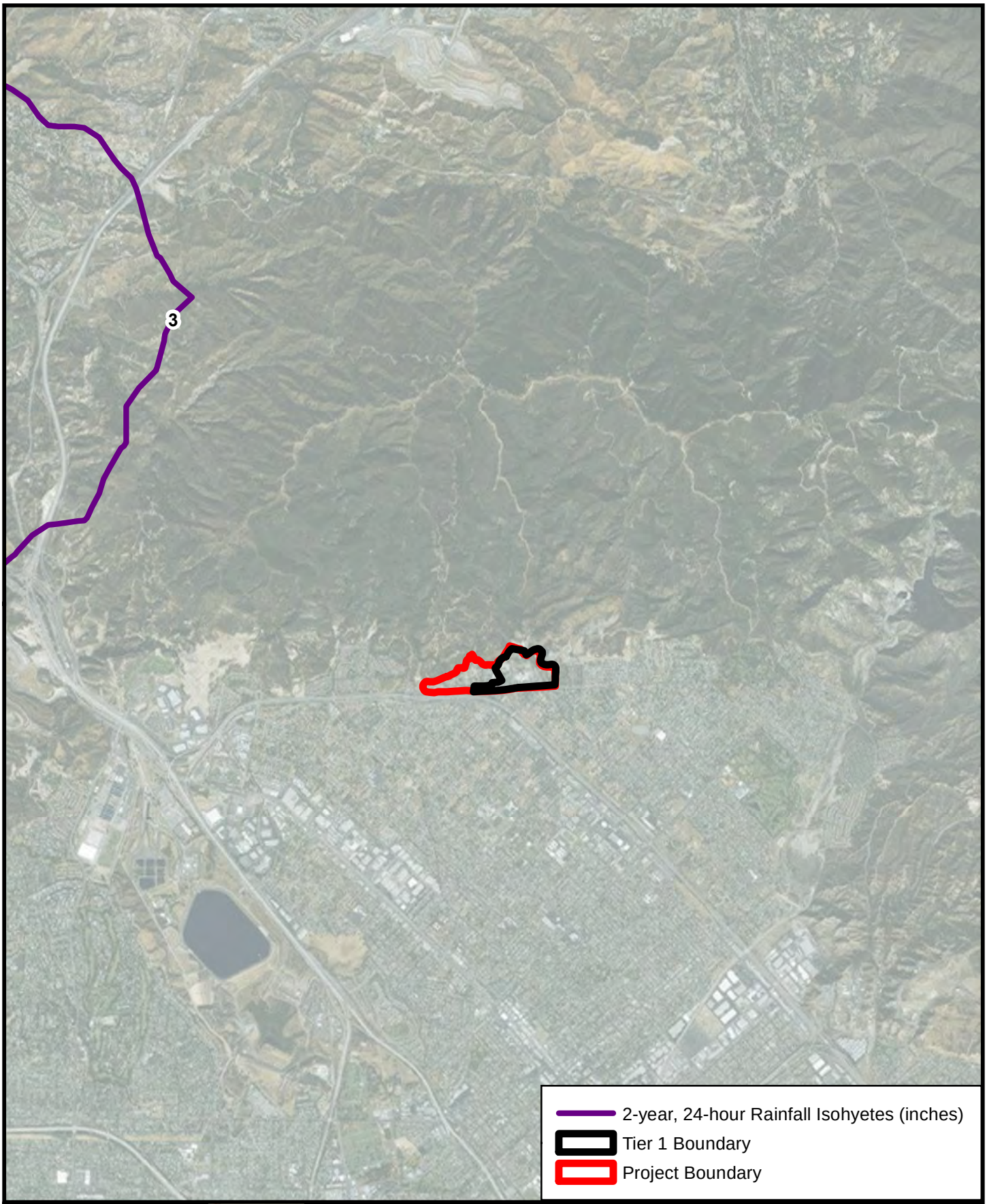
Water Resources + Green Infrastructure

Date: May 07, 2019

Exhibit 11



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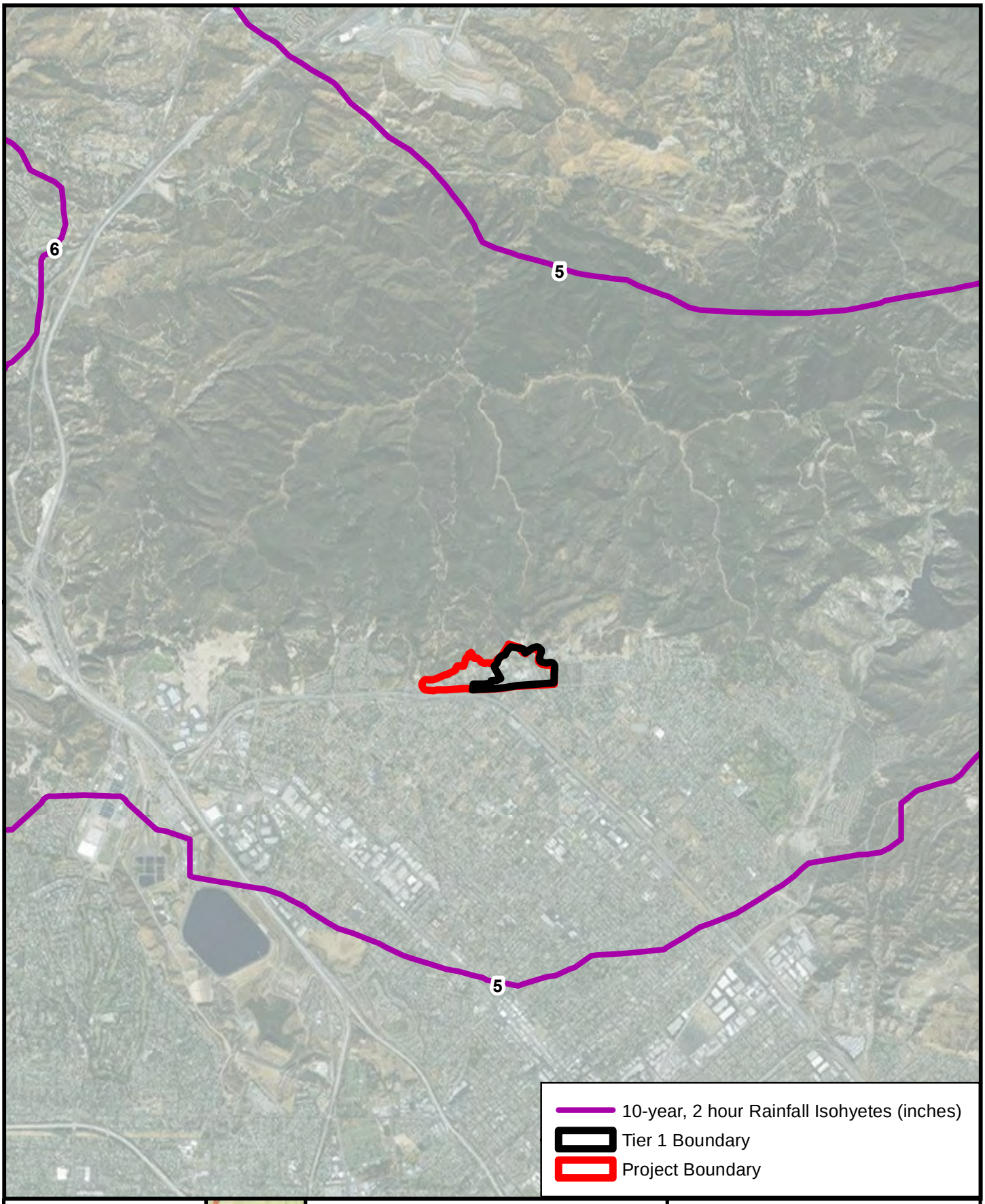
OLIVE VIEW MASTER PLAN
UCLA-LOS ANGELES
CALIFORNIA
RAINFALL 2-YEAR

Rainfall data from Los Angeles County Department of Public Works

Watearth
Water Resources + Green Infrastructure

Date: Jun 26, 2016

Exhibit 13



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Datum: NAD83
Units: US Feet

OLIVE VIEW MASTER PLAN
UCLA-LOS ANGELES
CALIFORNIA

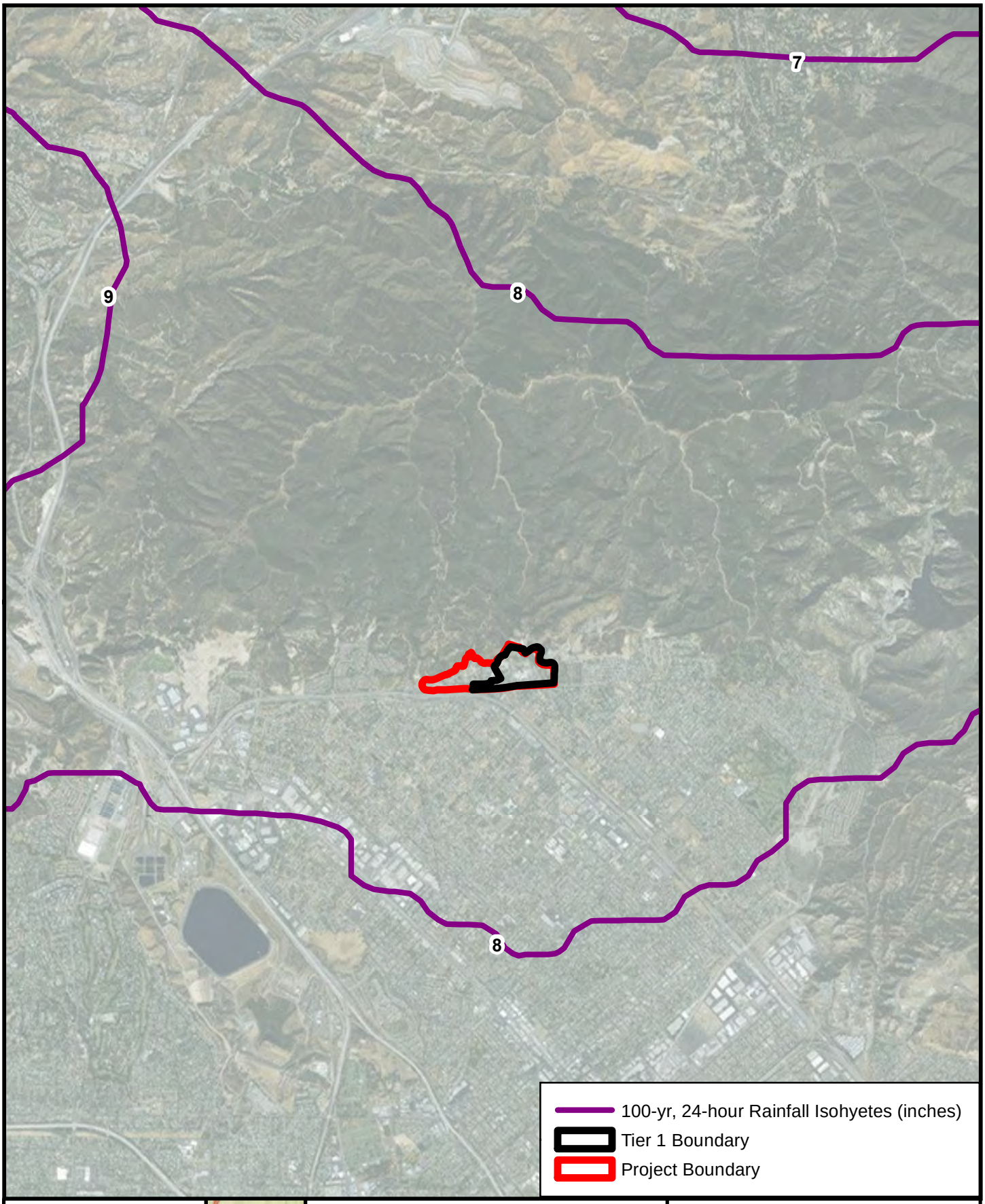
RAINFALL 10-YEAR

Rainfall data from Los Angeles County Department of Public Works

Watearth
Water Resources + Green Infrastructure

Date: Jun 26, 2016

Exhibit 13



1 " = 5,000 Feet
0 5,000
Feet

Datum: NAD83
Units: US Feet

SITE

OLIVE VIEW MASTER PLAN
UCLA-LOS ANGELES
CALIFORNIA

RAINFALL 100-YEAR

Rainfall data from Los Angeles County Department of Public Works

Watearth
Water Resources + Green Infrastructure

Date: Jun 26, 2016

Exhibit 13

APPENDIX A-REFERENCES

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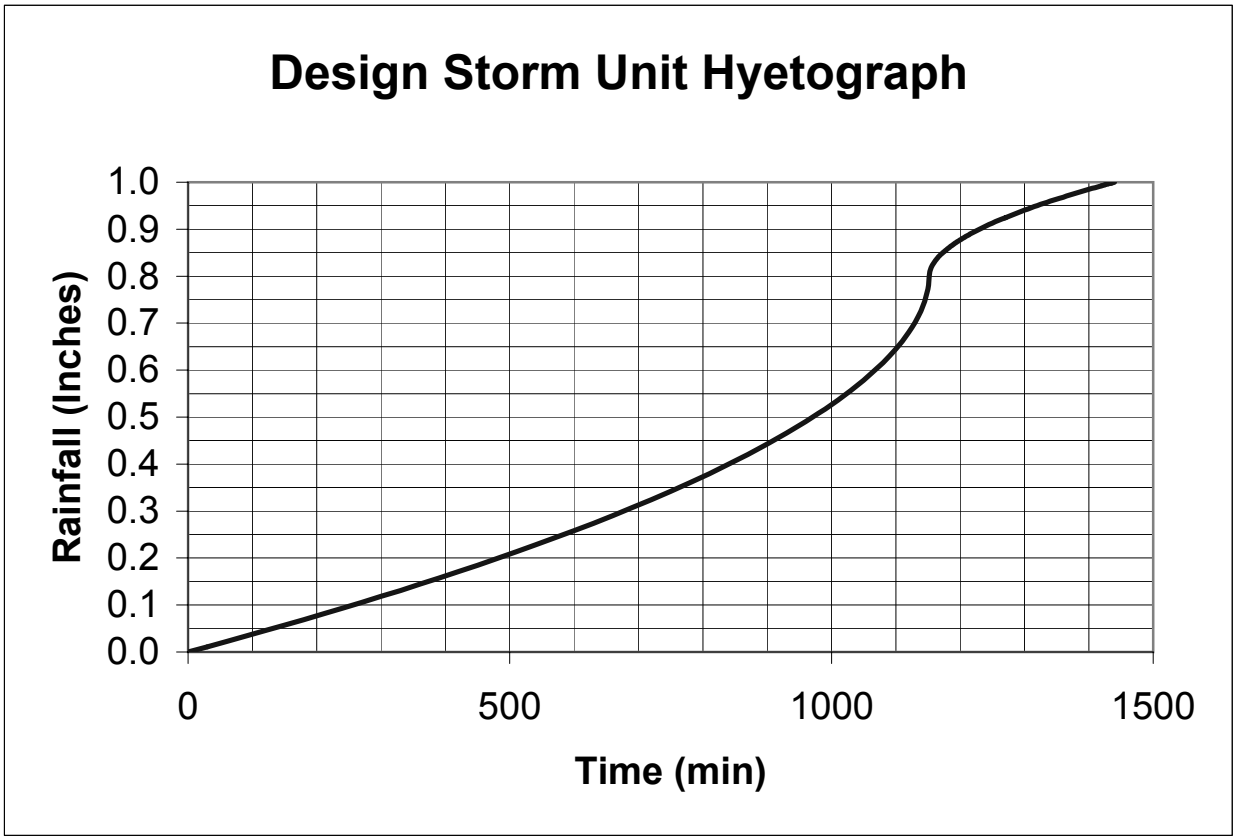
APPENDIX B-DESIGN STORM UNIT HYETOGRAPH

Temporal Distribution of Unit Hyetograph

(Time in minutes, Depth in inches)

Time	Depth	Time	Depth	Time	Depth	Time	Depth
0	0.000000	1110	0.661694	1185	0.863440	1232	0.901435
30	0.011110	1115	0.670680	1186	0.864452	1233	0.902105
60	0.022361	1120	0.680257	1187	0.865450	1234	0.902772
90	0.033758	1125	0.690568	1188	0.866434	1235	0.903434
120	0.045307	1130	0.701824	1189	0.867406	1240	0.906691
150	0.057015	1135	0.714364	1190	0.868366	1245	0.909862
180	0.068889	1136	0.717072	1191	0.869313	1250	0.912954
210	0.080937	1137	0.719860	1192	0.870250	1255	0.915973
240	0.093166	1138	0.722738	1193	0.871175	1260	0.918923
270	0.105586	1139	0.725713	1194	0.872090	1265	0.921810
300	0.118206	1140	0.728799	1195	0.872995	1270	0.924638
330	0.131037	1145	0.746492	1196	0.873889	1275	0.927409
360	0.144090	1150	0.772454	1197	0.874775	1280	0.930129
390	0.157377	1151	0.780923	1198	0.875651	1285	0.932799
420	0.170913	1152	0.800000	1199	0.876518	1290	0.935422
450	0.184711	1153	0.809944	1200	0.877377	1295	0.938000
480	0.198790	1154	0.814358	1201	0.878227	1300	0.940537
510	0.213168	1155	0.817800	1202	0.879069	1305	0.943034
540	0.227865	1156	0.820732	1203	0.879903	1310	0.945492
570	0.242905	1157	0.823335	1204	0.880730	1315	0.947915
600	0.258314	1158	0.825702	1205	0.881549	1320	0.950302
630	0.274121	1159	0.827890	1206	0.882361	1325	0.952657
660	0.290362	1160	0.829936	1207	0.883166	1330	0.954980
690	0.307075	1161	0.831864	1208	0.883964	1335	0.957272
720	0.324307	1162	0.833694	1209	0.884755	1340	0.959535
750	0.342111	1163	0.835440	1210	0.885540	1345	0.961770
780	0.360552	1164	0.837112	1211	0.886318	1350	0.963978
810	0.379705	1165	0.838721	1212	0.887091	1355	0.966159
840	0.399666	1166	0.840272	1213	0.887857	1360	0.968316
870	0.420552	1167	0.841772	1214	0.888618	1365	0.970448
900	0.442511	1168	0.843225	1215	0.889372	1370	0.972558
930	0.465738	1169	0.844636	1216	0.890121	1375	0.974644
960	0.490493	1170	0.846009	1217	0.890865	1380	0.976709
970	0.499144	1171	0.847347	1218	0.891603	1385	0.978752
980	0.508022	1172	0.848652	1219	0.892336	1390	0.980775
990	0.517145	1173	0.849926	1220	0.893064	1395	0.982778
1000	0.526538	1174	0.851172	1221	0.893787	1400	0.984761
1010	0.536225	1175	0.852392	1222	0.894505	1405	0.986726
1020	0.546239	1176	0.853588	1223	0.895218	1410	0.988673
1030	0.556617	1177	0.854760	1224	0.895926	1415	0.990602
1040	0.567402	1178	0.855910	1225	0.896630	1420	0.992514
1050	0.578651	1179	0.857039	1226	0.897330	1425	0.994410
1060	0.590431	1180	0.858149	1227	0.898024	1430	0.996289
1070	0.602830	1181	0.859241	1228	0.898715	1435	0.998152
1080	0.615962	1182	0.860315	1229	0.899401	1440	1.000000
1090	0.629985	1183	0.861372	1230	0.900083		
1100	0.645118	1184	0.862414	1231	0.900761		


Design Storm Unit Hyetograph
Rainfall (Inches)
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
0
500
1000
1500
Time (min)

APPENDIX C-TABLES OF HYDROLOGY MODELS AND RESULTS

TABLE 1: SUMMARY OF HYDROLOGIC PARAMETERS FOR SITE

Hydrologic Parameters																	
Drainage Area	Area (ac)	24-hr Rainfall Data (in.)			Impervious Cover (%)		Overland Flow Length (ft)		Width (A/L) (ft)		Slope		Depression Storage (in)		Manning's n-value Impervious	Manning's n-value Pervious	
		2-yr	10-yr	100-yr	Exist	Prop	Exist	Prop	Exist	Prop	Exist	Prop	Impervious	Pervious		Exist	Prop
DA1	31.1	2.83	5.23	8.21	50.7	52.3	1500	1500	200	200	5%	5%	0.06	0.25	0.012	0.186	0.361
DA2	41.5	2.83	5.23	8.21	74.9	46.2	1000	1000	200	200	5%	5%	0.06	0.25	0.012	0.163	0.310

Notes:

1. Hydrologic modeling performed in EPA SWMM 5.1.
2. Site assumed to route to outlet in existing and proposed conditions with 0% disconnected impervious cover.
3. Evaporation data based on the EPA National Storwater Calculator, Northridge Cal State Station Gauge.
4. Existing Site's Manning's n-value for pervious assumed based on ground cover from aerial. Proposed Site's Manning's n-value for pervious assumed based on Master Plan.
5. Continuous simulation model based on 1970 - 2006 data from Gauge San Fernando Ph 3 Station ID 047762 obtained from the EPA National Stormwater Calculator.
6. 24-hour rainfall data and hyetograph obtained from LA County.

TABLE 2: GREEN & AMPT SOILS PARAMETERS

Site	Native Soil Green & Ampt Parameters			Growing Media Green & Ampt Parameters							
	Suction Head (in)	Conductivity (in/hr)	Initial Deficit	Media Depth (in)	Suction Head (in)	Conductivity (in/hr)	Initial Deficit	Field Capacity	Effective Porosity	Wilting Point	Conductivity Slope
Site	4.330	0.430	0.358	18	2.4	1.18	0.312	0.105	0.437	0.047	8.0

Notes:

1. Native soil based on underlying soil type data from Los Angeles County Department of Public Works.
2. The soil is a combination of Handford Fine Sandy Loam, Hanford Gravelly Sandy Loam, and Upper Los Angeles River. Sandy loam soil type is used as the predominant soil group.
3. Saturated hydraulic conductivity and suction head for native soil based on sandy clay values from EPA *SUSTAIN User's Manual* .
4. Initial moisture deficit for Western U.S. assumed from www.water-research.net.
5. Suction head values assumed for growing media from EPA *SUSTAIN User's Manual* . The conductivity value was selected to simulate long-term saturated hydraulic conductivity in the event of loss of capacity over time.
6. Loamy sand classification assumed for growing media.
7. Conductivity slope assumed from standard tables in SWMM5.0.021 User's Manual based on sandy loam growing media.

TABLE 3: LID FEATURES AREAS AND CONTRIBUTING AREAS FOR SITE

Drainage Area	LID Feature	LID Area (sq. ft.[1])	LID % of Site	Drainage Area (sq. ft.)	Initially Saturated %[2]	% Impervious Area Treated[3]	Outflow to Pervious
DA1	Bioretention	13,282	1.0%	623,057	0/30	97%	No
DA1	Permeable Pavement	16,856	1.3%	16,856	0/33	3%	No
DA2	Bioretention	112,470	7.0%	691,368	0/30	87%	No
DA2	Permeable Pavement	104,576	6.5%	104,576	0/33	13%	No

Notes:

1. The total surface area of the LID features are used in SWMM modeling. The BMPs exceed the minimum surface area requirements of 6,000 sq. ft. for Drainage Area 1 and 125,715 sq. ft. for Drainage Area 2 (including Bioretention and Permeable Pavement), and based on the water quality requirements in the City of Los Angeles Development Best Management Practices Handbook, Low Impact Development Manual, June 2011.
2. The % initially saturated for the LID growing media is 0% for the continuous simulation and 30%/33% for the design storm
3. % impervious area treated for bioretention is percent of entire impervious area minus the permeable pavement in the project drainage areas The Permeable Pavement is treating its own area only.

TABLE 4: LID CONFIGURATIONS FOR SITE

Drainage Area	LID Feature	Avg. Surface Depth (in)	Surface Slope (%)	Average Top Width (ft)	Side Slope (H:V)	Surface Veg. Volume Fraction	Manning's n-value	Depth Soil Media (in)	Initial Media Saturation (%)	Storage/Drain Rock (in)	Void Ratio	Underdrain?	Drain Coefficent
DA1	Bioretention	18	0.00%	25	---	0	0.40	24	30	0.0001	0.5	No	---
DA1	Permeable Pavement	---	2.00%	100	---	---	0.011	---	33	24	0.5	No	---
DA2	Bioretention	18	0.00%	25	---	0	0.40	24	30	0.0001	0.5	No	---
DA2	Permeable Pavement	---	2.00%	100	---	---	0.011	---	33	24	0.5	No	---

Notes:

1. Green & Ampt hydraulic parameters for growing media (amended soil) based on sandy loam with a hydraulic conductivity of 1.18 in/hr (see Table 2 for details).
2. For the lined bioretention and planter box alte

Notes:

2. For the lined bioretention and planter box alternatives, the saturated hydraulic conductivity of 0.00 in/hr assumed for underlying (native) soil (see Table 2 for details).
3. Initial media saturation used for design storm
3. Initial media saturation used for design storm events only and not continuous simulation model.
4. Bioretention modeled with 0% slope due to SW
4. Bioretention modeled with 0% slope due to SWMM model requirements.
5. There is no storage/drain rock for bioretention; however, SWMM requires a value greater than zero to run, so a value of 0.0001 is used to mimic a near zero value

TABLE 5A: DESIGN STORM EVENTS RESULTS FOR DRAINAGE AREA 1 (DA1)

	2-yr, 24-hr Design Storm			10-yr, 24-hr Design Storm			100-yr, 24-hr Design Storm		
System Results	Exist.	Prop.	Prop. vs Exist.	Exist.	Prop.	Prop. vs Exist.	Exist.	Prop.	Prop. vs Exist.
Precipitation (in)	2.83	2.83	0%	5.23	5.23	0%	8.21	8.21	0%
Surface Runoff (in)	1.50	0.99	-34%	2.83	2.16	-24%	4.75	3.82	-20%
Infiltration (in)	1.28	1.77	38%	2.35	3.00	28%	3.41	4.29	26%
Evaporation (in)	0.04	0.04	0%	0.04	0.04	0%	0.04	0.05	25%
Peak Flows (cfs)	9.81	8.68	-12%	19.59	17.11	-13%	36.07	30.17	-16%

TABLE 5B: DESIGN STORM EVENTS RESULTS FOR DRAINAGE AREA 2 (DA2)

	2-yr, 24-hr Design Storm			10-yr, 24-hr Design Storm			100-yr, 24-hr Design Storm		
System Results	Exist.	Prop.	Prop. vs Exist.	Exist.	Prop.	Prop. vs Exist.	Exist.	Prop.	Prop. vs Exist.
Precipitation (in)	2.83	2.83	0%	5.23	5.23	0%	8.21	8.21	0%
Surface Runoff (in)	2.10	0.00	-100%	3.96	0.11	-97%	6.42	1.55	-76%
Infiltration (in)	0.66	2.51	280%	1.20	4.78	298%	1.72	6.32	267%
Evaporation (in)	0.07	0.07	0%	0.07	0.07	0%	0.07	0.07	0%
Peak Flows (cfs)	16.04	0.00	-100%	32.38	1.84	-94%	57.34	33.98	-41%

TABLE 6A: DRAINAGE AREA 1 (DA1)
CONTINUOUS SIMULATION WATER BALANCE OUTPUT

System Results	Analysis Period Results			
	Exist.	Prop.	Prop. vs Exist.	Prop. vs Exist. (%)
Precipitation (in)	422.25	422.25	0.00	0%
Surface Runoff (in)	182.20	69.04	-113.16	-62%
Infiltration (in)	191.29	296.63	105.34	55%
Evaporation (in)	51.85	59.61	7.76	15%
Maximum Peak Flow (cfs)	75.24	71.56	-3.68	-5%

Notes:

1. Water balance output is for full continuous simulation run.
2. Initial saturation of 0% (wilting point) used for growing media at start of continuous simulation run.
3. Rainfall data edited at hour 23:00 in yea r1983 to remove 9.148-inch depth as no rainfall was recorded at that time-step in nearby gauge.

TABLE 6B: DRAINAGE AREA 2 (DA2)
CONTINUOUS SIMULATION WATER BALANCE OUTPUT

System Results	Analysis Period Results			
	Exist.	Prop.	Prop. vs Exist.	Prop. vs Exist. (%)
Precipitation (in)	422.25	422.25	0.00	0%
Surface Runoff (in)	249.94	0.10	-249.84	-100%
Infiltration (in)	98.12	316.94	218.82	223%
Evaporation (in)	76.49	107.79	31.30	41%
Maximum Peak Flow (cfs)	94.46	2.60	-91.86	-97%

Notes:

1. Water balance output is for full continuous simulation run.
2. Initial saturation of 0% (wilting point) used for growing media at start of continuous simulation run.
3. Rainfall data edited at hour 23:00 in yea r1983 to remove 9.148-inch depth as no rainfall was recorded at that time-step in nearby gauge.

TABLE 7: PRE-PROJECT AND POST-PROJECT EVENT MEAN CONCENTRATION VALUES

Pollutant	Retail/ Commercial	Open/Non-Urban
Total Suspended Solids (TSS) (mg/L)	67.4 [1]	70 [2]
Total Nitrogen (µg/l)	3.4 [1]	0.97 [2]
Total Copper (µg/l)	34.8 [1]	9.1 [1]
Total Lead (µg/l)	11.5 [2]	30 [2]
Total Zinc (µg/l)	238.5 [1]	195 [2]
Fecal Coliform (MPN/L)	10,716,565 [1]	21,748 [1]

[1] Event Mean Concentration (EMC) values are from Table 7, The Green Visions Plan for 21st Century Southern California, 2006.

[2] EMC values are from Table 4-1, the EPA Guide to Urban Stormwater Pollutant Concentrations, 2006.

[3] Modeled washoff exponent = 1.0 for all pollutants

TABLE 8: POLLUTANT REMOVAL BY VARIOUS BIOFILTRATION PRACTICES

Pollutant	% Removal	
	Bioretention[1]	Permeable Pavement[1,2]
Total Suspended Solids (TSS)	85	91
Total Nitrogen	40	27
Total Copper	66	42
Total Lead	63	74
Total Zinc	68	81
Fecal Coliform	81	82.5

Notes

1. Removal rates for bioretention and permeable pavement, except for fecal coliform for permeable pavement, are based on The Green Visions Plan for 21st Century Southern California prepared by the University of Southern California, dated April, 2006.
2. Fecal coliform removal rates for permeable pavement were obtained from the U.S. EPA *Handbook Urban Runoff and Pollution Prevention Planning* .

TABLE 9A: WATER QUALITY RESULTS FOR DRAINAGE AREA 1 (DA1)

	Pollutant Effluent Concentration											
	TSS		Nitrogen		Copper		Lead		Zinc		Fecal Coliform	
	2-Year	Annual	2-Year	Annual	2-Year	Annual	2-Year	Annual	2-Year	Annual	2-Year	Annual
Model	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	LogN	LogN
Existing	686.9	2237.5	0.0	0.1	0.2	0.8	0.2	0.6	2.2	7.1	13.4	0.4
Proposed	52.1	98.8	0.0	0.0	0.1	0.1	0.0	0.1	0.3	0.6	12.4	0.4
Difference	-634.7	-2138.7	0.0	-0.1	-0.2	-0.6	-0.2	-0.6	-1.9	-6.5	-1.0	0.0
% Difference	-92.4	-95.6	-56.5	-75.7	-68.7	-81.7	-77.9	-87.0	-84.5	-91.0	-7.4	-8.0

Notes:

1. Water balance output is for 2-year, 24-hour design storm and annual continuous simulation run.
2. Continuous simulation model based on 1970 - 2006 data from San Fernando PH 3 Station ID 047762 obtained from the EPA National Stormwater Calculator
3. Proposed conditions includes bioretention and pervious pavement.

TABLE 9B: WATER QUALITY RESULTS FOR DRAINAGE AREA 2 (DA2)

	Pollutant Effluent Concentration											
	TSS		Nitrogen		Copper		Lead		Zinc		Fecal Coliform	
	2-Year	Annual	2-Year	Annual	2-Year	Annual	2-Year	Annual	2-Year	Annual	2-Year	Annual
Model	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	LogN	LogN
Existing	1202.0	3845.6	0.1	0.2	0.5	1.6	0.3	0.9	4.0	12.9	13.8	0.4
Proposed	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-4.1	0.3
Difference	-1202.0	-3845.4	-0.1	-0.2	-0.5	-1.6	-0.3	-0.9	-4.0	-12.9	-17.9	-0.1
% Difference	-100.0	-100.0	-100.0	-100.0	-100.0	-100.0	-100.0	-100.0	-100.0	-100.0	-129.6	-27.8

Notes:

1. Water balance output is for 2-year, 24-hour design storm and annual continuous simulation run.
2. Continuous simulation model based on 1970 - 2006 data from San Fernando PH 3 Station ID 047762 obtained from the EPA National Stormwater Calculator
3. Proposed conditions includes bioretention and pervious pavement.

APPENDIX D-EPA SWMM WATER BUDGET RESULTS

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.1 (Build 5.1.010)

****
NOTE: The summary statistics displayed in this report are
based on results found at every computational time step,
not just on results from each reporting time step.
****

****
Analysis Options
****
Flow Units ..... CFS
Process Models:
  Rainfall/Runoff ..... YES
  RDII ..... NO
  Snowmelt ..... NO
  Groundwater ..... NO
  Flow Routing ..... NO
  Water Quality ..... YES
Infiltration Method ..... GREEN_AMPT
Starting Date APR-13-2016 00:00:00
Ending Date APR-16-2016 06:00:00
Antecedent Dry Days 0.0
Report Time Step 00:05:00
Wet Time Step 00:05:00
Dry Time Step 00:05:00

********** Volume Depth
Runoff Quantity Continuity acre-feet inches

*************************	---------	-------
Total Precipitation	6.933	2.830
Evaporation Loss	0.099	0.040
Infiltration Loss	3.148	1.285
Surface Runoff	3.687	1.505
Final Storage	0.000	0.000
Continuity Error (%)	-0.007	

*************************	TSS	Nitrogen	Copper	Lead	Zinc
Runoff Quality Continuity	lbs	lbs	lbs	lbs	lbs
*************************	----------	----------	----------	----------	----------
Initial Buildup	0.000	0.000	0.000	0.000	0.000
Surface Buildup	686.851	0.023	0.233	0.199	2.193
Wet Deposition	0.000	0.000	0.000	0.000	0.000
Sweeping Removal	0.000	0.000	0.000	0.000	0.000
Infiltration Loss	0.000	0.000	0.000	0.000	0.000
BMP Removal	0.000	0.000	0.000	0.000	0.000
Surface Runoff	686.851	0.023	0.233	0.199	2.193
Remaining Buildup	0.000	0.000	0.000	0.000	0.000
Continuity Error (%)	0.000	0.000	0.000	0.000	0.000

*************************	FecalColiform
Runoff Quality Continuity	LogN
*************************	----------
Initial Buildup	0.000
Surface Buildup	13.429
Wet Deposition	0.000
Sweeping Removal	0.000
Infiltration Loss	0.000
BMP Removal	0.000
Surface Runoff	13.429

Remaining Buildup 0.000
Continuity Error (%) ..... -0.000

****
Subcatchment Runoff Summary
****

Subcatchment	Total Precip in	Total Runon in	Total Evap in	Total Infil in	Total Runoff in	Total Runoff 10^6 gal	Peak Runoff CFS	Runoff Coeff
DA1	2.83	0.00	0.04	1.28	1.50	1.20	9.81	0.532

****
Subcatchment Washoff Summary
****

Subcatchment	TSS lbs	Nitrogen lbs	Copper lbs	Lead lbs	Zinc lbs	FecalColiform LogN
DA1	686.851	0.023	0.233	0.199	2.193	13.429
System	686.851	0.023	0.233	0.199	2.193	13.429

Analysis begun on: Sat Jul 02 11:32:09 2016
Analysis ended on: Sat Jul 02 11:32:09 2016
Total elapsed time: < 1 sec

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.1 (Build 5.1.010)

****
NOTE: The summary statistics displayed in this report are
based on results found at every computational time step,
not just on results from each reporting time step.
****

****
Analysis Options
****
Flow Units ..... CFS
Process Models:
  Rainfall/Runoff ..... YES
  RDII ..... NO
  Snowmelt ..... NO
  Groundwater ..... NO
  Flow Routing ..... NO
  Water Quality ..... NO
Infiltration Method ..... GREEN_AMPT
Starting Date APR-13-2016 00:00:00
Ending Date APR-16-2016 06:00:00
Antecedent Dry Days 0.0
Report Time Step 00:05:00
Wet Time Step 00:05:00
Dry Time Step 00:05:00

********** Volume Depth
Runoff Quantity Continuity acre-feet inches

**************************	---------	-------
Total Precipitation	12.814	5.230
Evaporation Loss	0.103	0.042
Infiltration Loss	5.767	2.354
Surface Runoff	6.944	2.834
Final Storage	0.000	0.000
Continuity Error (%)	-0.010	

****
Subcatchment Runoff Summary
****

Subcatchment	Total Precip in	Total Runon in	Total Evap in	Total Infil in	Total Runoff in	Total Runoff 10^6 gal	Peak Runoff CFS	Runoff Coeff
DA1	5.23	0.00	0.04	2.35	2.83	2.26	19.59	0.542

Analysis begun on: Fri Jul 01 10:19:31 2016
Analysis ended on: Fri Jul 01 10:19:31 2016
Total elapsed time: < 1 sec

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.1 (Build 5.1.010)

****
NOTE: The summary statistics displayed in this report are
based on results found at every computational time step,
not just on results from each reporting time step.
****

****
Analysis Options
****
Flow Units ..... CFS
Process Models:
  Rainfall/Runoff ..... YES
  RDII ..... NO
  Snowmelt ..... NO
  Groundwater ..... NO
  Flow Routing ..... NO
  Water Quality ..... NO
Infiltration Method ..... GREEN_AMPT
Starting Date APR-13-2016 00:00:00
Ending Date APR-16-2016 06:00:00
Antecedent Dry Days 0.0
Report Time Step 00:05:00
Wet Time Step 00:05:00
Dry Time Step 00:05:00

********** Volume Depth
Runoff Quantity Continuity acre-feet inches

**************************	---------	-------
Total Precipitation	20.114	8.210
Evaporation Loss	0.108	0.044
Infiltration Loss	8.362	3.413
Surface Runoff	11.649	4.755
Final Storage	0.000	0.000
Continuity Error (%)	-0.017	

****
Subcatchment Runoff Summary
****

Subcatchment	Total Precip in	Total Runon in	Total Evap in	Total Infil in	Total Runoff in	Total Runoff 10^6 gal	Peak Runoff CFS	Runoff Coeff
DA1	8.21	0.00	0.04	3.41	4.75	3.80	36.07	0.579

Analysis begun on: Fri Jul 01 10:20:10 2016
Analysis ended on: Fri Jul 01 10:20:10 2016
Total elapsed time: < 1 sec

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.1 (Build 5.1.010)

****
Rainfall File Summary
****

Station ID	First Date	Last Date	Recording Frequency	Periods w/Precip	Periods Missing	Periods Malfunc.
047762	JAN-09-1970	DEC-27-2006	5 min	7665	0	0

****
NOTE: The summary statistics displayed in this report are
based on results found at every computational time step,
not just on results from each reporting time step.
****

****
Analysis Options
****
Flow Units ..... CFS
Process Models:
  Rainfall/Runoff ..... YES
  RDII ..... NO
  Snowmelt ..... NO
  Groundwater ..... NO
  Flow Routing ..... NO
  Water Quality ..... YES
Infiltration Method ..... GREEN_AMPT
Starting Date JAN-09-1970 00:00:00

Ending Date DEC-27-2006 06:00:00
Antecedent Dry Days 0.0
Report Time Step 00:05:00
Wet Time Step 00:05:00
Dry Time Step 00:05:00

********** Runoff Quantity Continuity **********	Volume acre-feet	Depth inches
Total Precipitation	1034.517	422.252
Evaporation Loss	127.023	51.846
Infiltration Loss	468.657	191.289
Surface Runoff	446.391	182.200
Final Storage	0.029	0.012
Continuity Error (%)	-0.733	

********** Runoff Quality Continuity **********	TSS lbs	Nitrogen lbs	Copper lbs	Lead lbs	Zinc lbs
Initial Buildup	0.000	0.000	0.000	0.000	0.000
Surface Buildup	82787.247	2.785	28.053	23.935	264.317
Wet Deposition	0.000	0.000	0.000	0.000	0.000
Sweeping Removal	0.000	0.000	0.000	0.000	0.000
Infiltration Loss	0.000	0.000	0.000	0.000	0.000
BMP Removal	0.000	0.000	0.000	0.000	0.000
Surface Runoff	82787.247	2.785	28.053	23.935	264.317
Remaining Buildup	0.000	0.000	0.000	0.000	0.000
Continuity Error (%)	0.000	0.000	0.000	0.000	0.000

********** FecalColiform

Runoff Quality Continuity LogN
********** ----------
Initial Buildup 0.000
Surface Buildup 15.510
Wet Deposition 0.000
Sweeping Removal 0.000
Infiltration Loss 0.000
BMP Removal 0.000
Surface Runoff 15.510
Remaining Buildup 0.000
Continuity Error (%) ..... -0.000

****
Subcatchment Runoff Summary
****

Subcatchment	Total Precip in	Total Runon in	Total Evap in	Total Infil in	Total Runoff in	Total Runoff 10^6 gal	Peak Runoff CFS	Runoff Coeff
DA1	422.25	0.00	51.85	191.29	182.20	145.45	75.24	0.431

****
Subcatchment Washoff Summary
****

Subcatchment	TSS lbs	Nitrogen lbs	Copper lbs	Lead lbs	Zinc lbs	FecalColiform LogN

DA1	82787.247	2.785	28.053	23.935	264.317	15.510
System	82787.247	2.785	28.053	23.935	264.317	15.510

Analysis begun on: Fri Jul 01 10:20:34 2016
Analysis ended on: Fri Jul 01 10:20:42 2016
Total elapsed time: 00:00:08

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.1 (Build 5.1.010)

****
NOTE: The summary statistics displayed in this report are
based on results found at every computational time step,
not just on results from each reporting time step.
****

****
Analysis Options
****
Flow Units ..... CFS
Process Models:
  Rainfall/Runoff ..... YES
  RDII ..... NO
  Snowmelt ..... NO
  Groundwater ..... NO
  Flow Routing ..... NO
  Water Quality ..... YES
Infiltration Method ..... GREEN_AMPT
Starting Date APR-13-2016 00:00:00
Ending Date APR-16-2016 06:00:00
Antecedent Dry Days 0.0
Report Time Step 00:05:00
Wet Time Step 00:05:00
Dry Time Step 00:05:00

********** Volume Depth
Runoff Quantity Continuity acre-feet inches

**************************	---------	-------
Initial LID Storage	0.185	0.076
Total Precipitation	6.933	2.830
Evaporation Loss	0.099	0.041
Infiltration Loss	4.332	1.768
Surface Runoff	2.425	0.990
Final Storage	0.263	0.107
Continuity Error (%)	-0.007	

**************************	TSS	Nitrogen	Copper	Lead	Zinc
Runoff Quality Continuity	lbs	lbs	lbs	lbs	lbs
**************************	----------	----------	----------	----------	----------
Initial Buildup	0.000	0.000	0.000	0.000	0.000
Surface Buildup	615.780	0.020	0.197	0.186	1.943
Wet Deposition	0.000	0.000	0.000	0.000	0.000
Sweeping Removal	0.000	0.000	0.000	0.000	0.000
Infiltration Loss	0.000	0.000	0.000	0.000	0.000
BMP Removal	563.672	0.010	0.124	0.142	1.604
Surface Runoff	52.108	0.010	0.073	0.044	0.339
Remaining Buildup	0.000	0.000	0.000	0.000	0.000
Continuity Error (%)	0.000	0.000	0.000	0.000	0.000

**************************	FecalColiform
Runoff Quality Continuity	LogN
**************************	----------
Initial Buildup	0.000
Surface Buildup	13.339
Wet Deposition	0.000
Sweeping Removal	0.000
Infiltration Loss	0.000
BMP Removal	13.282

Surface Runoff 12.429
Remaining Buildup 0.000
Continuity Error (%) 0.000

****
Subcatchment Runoff Summary
****

Subcatchment	Total Precip in	Total Runon in	Total Evap in	Total Infil in	Total Runoff in	Total Runoff 10^6 gal	Peak Runoff CFS	Runoff Coeff
DA1	2.83	0.00	0.04	1.77	0.99	0.79	8.68	0.350

****
LID Performance Summary
****

Subcatchment	LID Control	Total Inflow in	Evap Loss in	Infil Loss in	Surface Outflow in	Drain Outflow in	Initial Storage in	Final Storage in	Continuity Error %
DA1	PermeablePavement	5.90	0.00	8.54	0.00	0.00	2.64	0.00	-0.00
DA1	Bioretention	128.79	0.52	26.42	95.43	0.00	3.94	10.36	-0.00

****
Subcatchment Washoff Summary
****

Subcatchment	TSS lbs	Nitrogen lbs	Copper lbs	Lead lbs	Zinc lbs	FecalColiform LogN
DA1	52.108	0.010	0.073	0.044	0.339	12.429
System	52.108	0.010	0.073	0.044	0.339	12.429

Analysis begun on: Fri Jul 01 10:48:08 2016
Analysis ended on: Fri Jul 01 10:48:08 2016
Total elapsed time: < 1 sec

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.1 (Build 5.1.010)

****
NOTE: The summary statistics displayed in this report are
based on results found at every computational time step,
not just on results from each reporting time step.
****

****
Analysis Options
****
Flow Units ..... CFS
Process Models:
  Rainfall/Runoff ..... YES
  RDII ..... NO
  Snowmelt ..... NO
  Groundwater ..... NO
  Flow Routing ..... NO
  Water Quality ..... NO
Infiltration Method ..... GREEN_AMPT
Starting Date APR-13-2016 00:00:00
Ending Date APR-16-2016 06:00:00
Antecedent Dry Days 0.0
Report Time Step 00:05:00
Wet Time Step 00:05:00
Dry Time Step 00:05:00

********** Volume Depth
Runoff Quantity Continuity acre-feet inches

**************************	---------	-------
Initial LID Storage	0.185	0.076
Total Precipitation	12.814	5.230
Evaporation Loss	0.103	0.042
Infiltration Loss	7.353	3.001
Surface Runoff	5.281	2.155
Final Storage	0.263	0.107
Continuity Error (%)	-0.009	

****
Subcatchment Runoff Summary
****

Subcatchment	Total Precip in	Total Runon in	Total Evap in	Total Infil in	Total Runoff in	Total Runoff 10^6 gal	Peak Runoff CFS	Runoff Coeff
DA1	5.23	0.00	0.04	3.00	2.16	1.72	17.11	0.412

****
LID Performance Summary
****

Subcatchment	LID Control	Total Inflow in	Evap Loss in	Infil Loss in	Surface Outflow in	Drain Outflow in	Initial Storage in	Final Storage in	Continuity Error %
DA1	PermeablePavement	10.97	0.00	13.61	0.00	0.00	2.64	0.00	-0.00
DA1	Bioretention	240.67	0.52	27.02	206.71	0.00	3.94	10.35	-0.00

Analysis begun on: Fri Jul 01 10:49:13 2016
Analysis ended on: Fri Jul 01 10:49:13 2016
Total elapsed time: < 1 sec

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.1 (Build 5.1.010)

****
NOTE: The summary statistics displayed in this report are
based on results found at every computational time step,
not just on results from each reporting time step.
****

****
Analysis Options
****
Flow Units ..... CFS
Process Models:
  Rainfall/Runoff ..... YES
  RDII ..... NO
  Snowmelt ..... NO
  Groundwater ..... NO
  Flow Routing ..... NO
  Water Quality ..... NO
Infiltration Method ..... GREEN_AMPT
Starting Date APR-13-2016 00:00:00
Ending Date APR-16-2016 06:00:00
Antecedent Dry Days 0.0
Report Time Step 00:05:00
Wet Time Step 00:05:00
Dry Time Step 00:05:00

********** Volume Depth
Runoff Quantity Continuity acre-feet inches

**************************	---------	-------
Initial LID Storage	0.185	0.076
Total Precipitation	20.114	8.210
Evaporation Loss	0.112	0.046
Infiltration Loss	10.519	4.293
Surface Runoff	9.367	3.823
Final Storage	0.263	0.107
Continuity Error (%)	0.190	

****
Subcatchment Runoff Summary
****

Subcatchment	Total Precip in	Total Runon in	Total Evap in	Total Infil in	Total Runoff in	Total Runoff 10^6 gal	Peak Runoff CFS	Runoff Coeff
DA1	8.21	0.00	0.05	4.29	3.82	3.05	30.17	0.466

****
LID Performance Summary
****

Subcatchment	LID Control	Total Inflow in	Evap Loss in	Infil Loss in	Surface Outflow in	Drain Outflow in	Initial Storage in	Final Storage in	Continuity Error %
DA1	PermeablePavement	17.26	0.00	18.61	0.00	0.00	2.64	0.00	6.50
DA1	Bioretention	379.69	0.52	27.35	345.41	0.00	3.94	10.35	-0.00

Analysis begun on: Fri Jul 01 10:51:09 2016
Analysis ended on: Fri Jul 01 10:51:09 2016
Total elapsed time: < 1 sec

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.1 (Build 5.1.010)

****
Rainfall File Summary
****

Station ID	First Date	Last Date	Recording Frequency	Periods w/Precip	Periods Missing	Periods Malfunc.
047762	JAN-09-1970	DEC-27-2006	5 min	7665	0	0

****
NOTE: The summary statistics displayed in this report are
based on results found at every computational time step,
not just on results from each reporting time step.
****

****
Analysis Options
****
Flow Units ..... CFS
Process Models:
  Rainfall/Runoff ..... YES
  RDII ..... NO
  Snowmelt ..... NO
  Groundwater ..... NO
  Flow Routing ..... NO
  Water Quality ..... YES
Infiltration Method ..... GREEN_AMPT
Starting Date JAN-09-1970 00:00:00

Ending Date DEC-27-2006 06:00:00
Antecedent Dry Days 0.0
Report Time Step 00:05:00
Wet Time Step 00:05:00
Dry Time Step 00:05:00

Runoff Quantity Continuity	Volume acre-feet	Depth inches
Initial LID Storage	0.029	0.012
Total Precipitation	1034.517	422.252
Evaporation Loss	146.032	59.605
Infiltration Loss	726.753	296.634
Surface Runoff	169.149	69.040
Final Storage	0.264	0.108
Continuity Error (%)	-0.740	

Runoff Quality Continuity	TSS lbs	Nitrogen lbs	Copper lbs	Lead lbs	Zinc lbs
Initial Buildup	0.000	0.000	0.000	0.000	0.000
Surface Buildup	74438.493	2.368	23.783	22.483	234.855
Wet Deposition	0.000	0.000	0.000	0.000	0.000
Sweeping Removal	0.000	0.000	0.000	0.000	0.000
Infiltration Loss	0.000	0.000	0.000	0.000	0.000
BMP Removal	70783.008	1.691	18.647	19.374	211.086
Surface Runoff	3655.485	0.676	5.137	3.109	23.769
Remaining Buildup	0.000	0.000	0.000	0.000	0.000
Continuity Error (%)	0.000	0.000	0.000	0.000	0.000

********** FecalColiform
Runoff Quality Continuity LogN
********** ----------
Initial Buildup 0.000
Surface Buildup 15.422
Wet Deposition 0.000
Sweeping Removal 0.000
Infiltration Loss 0.000
BMP Removal 15.390
Surface Runoff 14.275
Remaining Buildup 0.000
Continuity Error (%) ..... -0.000

****
Subcatchment Runoff Summary
****

Subcatchment	Total Precip in	Total Runon in	Total Evap in	Total Infil in	Total Runoff in	Total Runoff 10^6 gal	Peak Runoff CFS	Runoff Coeff
DA1	422.25	0.00	59.61	296.63	69.04	55.12	71.56	0.164

****
LID Performance Summary
****

	Total Inflow	Evap Loss	Infil Loss	Surface Outflow	Drain Outflow	Initial Storage	Final Storage	Continuity Error

Subcatchment	LID Control	in	in	in	in	in	in	in	%
DA1	PermeablePavement	794.96	0.00	794.96	0.00	0.00	0.00	0.00	-0.00
DA1	Bioretention	15716.01	1310.61	7750.56	6647.34	0.00	1.13	9.38	-0.00

****
Subcatchment Washoff Summary
****

Subcatchment	TSS lbs	Nitrogen lbs	Copper lbs	Lead lbs	Zinc lbs	FecalColiform LogN
DA1	3655.485	0.676	5.137	3.109	23.769	14.275
System	3655.485	0.676	5.137	3.109	23.769	14.275

Analysis begun on: Fri Jul 01 10:52:10 2016
Analysis ended on: Fri Jul 01 10:53:12 2016
Total elapsed time: 00:01:02

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.1 (Build 5.1.010)

****
NOTE: The summary statistics displayed in this report are
based on results found at every computational time step,
not just on results from each reporting time step.
****

****
Analysis Options
****
Flow Units ..... CFS
Process Models:
  Rainfall/Runoff ..... YES
  RDII ..... NO
  Snowmelt ..... NO
  Groundwater ..... NO
  Flow Routing ..... NO
  Water Quality ..... YES
Infiltration Method ..... GREEN_AMPT
Starting Date APR-13-2016 00:00:00
Ending Date APR-16-2016 06:00:00
Antecedent Dry Days 0.0
Report Time Step 00:05:00
Wet Time Step 00:05:00
Dry Time Step 00:05:00

********** Volume Depth
Runoff Quantity Continuity acre-feet inches

**************************	---------	-------
Total Precipitation	8.749	2.830
Evaporation Loss	0.205	0.066
Infiltration Loss	2.039	0.659
Surface Runoff	6.506	2.104
Final Storage	0.000	0.000
Continuity Error (%)	-0.007	

**************************	TSS	Nitrogen	Copper	Lead	Zinc
Runoff Quality Continuity	lbs	lbs	lbs	lbs	lbs
**************************	----------	----------	----------	----------	----------
Initial Buildup	0.000	0.000	0.000	0.000	0.000
Surface Buildup	1201.991	0.050	0.511	0.278	4.039
Wet Deposition	0.000	0.000	0.000	0.000	0.000
Sweeping Removal	0.000	0.000	0.000	0.000	0.000
Infiltration Loss	0.000	0.000	0.000	0.000	0.000
BMP Removal	0.000	0.000	0.000	0.000	0.000
Surface Runoff	1201.991	0.050	0.511	0.278	4.039
Remaining Buildup	0.000	0.000	0.000	0.000	0.000
Continuity Error (%)	0.000	0.000	0.000	0.000	0.000

**************************	FecalColiform
Runoff Quality Continuity	LogN
**************************	----------
Initial Buildup	0.000
Surface Buildup	13.821
Wet Deposition	0.000
Sweeping Removal	0.000
Infiltration Loss	0.000
BMP Removal	0.000
Surface Runoff	13.821

Remaining Buildup 0.000
Continuity Error (%) ..... -0.000

****
Subcatchment Runoff Summary
****

Subcatchment	Total Precip in	Total Runon in	Total Evap in	Total Infil in	Total Runoff in	Total Runoff 10^6 gal	Peak Runoff CFS	Runoff Coeff
DA2	2.83	0.00	0.07	0.66	2.10	2.12	16.04	0.744

****
Subcatchment Washoff Summary
****

Subcatchment	TSS lbs	Nitrogen lbs	Copper lbs	Lead lbs	Zinc lbs	FecalColiform LogN
DA2	1201.991	0.050	0.511	0.278	4.039	13.821
System	1201.991	0.050	0.511	0.278	4.039	13.821

Analysis begun on: Fri Jul 01 10:59:58 2016
Analysis ended on: Fri Jul 01 10:59:58 2016
Total elapsed time: < 1 sec

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.1 (Build 5.1.010)

****
NOTE: The summary statistics displayed in this report are
based on results found at every computational time step,
not just on results from each reporting time step.
****

****
Analysis Options
****
Flow Units ..... CFS
Process Models:
  Rainfall/Runoff ..... YES
  RDII ..... NO
  Snowmelt ..... NO
  Groundwater ..... NO
  Flow Routing ..... NO
  Water Quality ..... NO
Infiltration Method ..... GREEN_AMPT
Starting Date APR-13-2016 00:00:00
Ending Date APR-16-2016 06:00:00
Antecedent Dry Days 0.0
Report Time Step 00:05:00
Wet Time Step 00:05:00
Dry Time Step 00:05:00

********** Volume Depth
Runoff Quantity Continuity acre-feet inches

**************************	---------	-------
Total Precipitation	16.169	5.230
Evaporation Loss	0.215	0.070
Infiltration Loss	3.714	1.201
Surface Runoff	12.242	3.960
Final Storage	0.000	0.000
Continuity Error (%)	-0.010	

****
Subcatchment Runoff Summary
****

Subcatchment	Total Precip in	Total Runon in	Total Evap in	Total Infil in	Total Runoff in	Total Runoff 10^6 gal	Peak Runoff CFS	Runoff Coeff
DA2	5.23	0.00	0.07	1.20	3.96	3.99	32.38	0.757

Analysis begun on: Fri Jul 01 11:00:46 2016
Analysis ended on: Fri Jul 01 11:00:46 2016
Total elapsed time: < 1 sec

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.1 (Build 5.1.010)

****
NOTE: The summary statistics displayed in this report are
based on results found at every computational time step,
not just on results from each reporting time step.
****

****
Analysis Options
****
Flow Units ..... CFS
Process Models:
  Rainfall/Runoff ..... YES
  RDII ..... NO
  Snowmelt ..... NO
  Groundwater ..... NO
  Flow Routing ..... NO
  Water Quality ..... NO
Infiltration Method ..... GREEN_AMPT
Starting Date APR-13-2016 00:00:00
Ending Date APR-16-2016 06:00:00
Antecedent Dry Days 0.0
Report Time Step 00:05:00
Wet Time Step 00:05:00
Dry Time Step 00:05:00

********** Volume Depth
Runoff Quantity Continuity acre-feet inches

**************************	---------	-------
Total Precipitation	25.383	8.210
Evaporation Loss	0.221	0.071
Infiltration Loss	5.304	1.716
Surface Runoff	19.861	6.424
Final Storage	0.000	0.000
Continuity Error (%)	-0.013	

****
Subcatchment Runoff Summary
****

Subcatchment	Total Precip in	Total Runon in	Total Evap in	Total Infil in	Total Runoff in	Total Runoff 10^6 gal	Peak Runoff CFS	Runoff Coeff
DA2	8.21	0.00	0.07	1.72	6.42	6.47	57.34	0.782

Analysis begun on: Fri Jul 01 11:01:11 2016
Analysis ended on: Fri Jul 01 11:01:11 2016
Total elapsed time: < 1 sec

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.1 (Build 5.1.010)

****
Rainfall File Summary
****

Station ID	First Date	Last Date	Recording Frequency	Periods w/Precip	Periods Missing	Periods Malfunc.
047762	JAN-09-1970	DEC-27-2006	5 min	7665	0	0

****
NOTE: The summary statistics displayed in this report are
based on results found at every computational time step,
not just on results from each reporting time step.
****

****
Analysis Options
****
Flow Units ..... CFS
Process Models:
  Rainfall/Runoff ..... YES
  RDII ..... NO
  Snowmelt ..... NO
  Groundwater ..... NO
  Flow Routing ..... NO
  Water Quality ..... YES
Infiltration Method ..... GREEN_AMPT
Starting Date JAN-09-1970 00:00:00

Ending Date DEC-27-2006 06:00:00
Antecedent Dry Days 0.0
Report Time Step 00:05:00
Wet Time Step 00:05:00
Dry Time Step 00:05:00

********** Runoff Quantity Continuity **********	Volume acre-feet	Depth inches
Total Precipitation	1305.462	422.252
Evaporation Loss	236.467	76.485
Infiltration Loss	303.358	98.121
Surface Runoff	772.737	249.942
Final Storage	0.053	0.017
Continuity Error (%)	-0.548	

********** Runoff Quality Continuity **********	TSS lbs	Nitrogen lbs	Copper lbs	Lead lbs	Zinc lbs
Initial Buildup	0.000	0.000	0.000	0.000	0.000
Surface Buildup	142286.698	5.945	60.451	32.968	478.129
Wet Deposition	0.000	0.000	0.000	0.000	0.000
Sweeping Removal	0.000	0.000	0.000	0.000	0.000
Infiltration Loss	0.000	0.000	0.000	0.000	0.000
BMP Removal	0.000	0.000	0.000	0.000	0.000
Surface Runoff	142286.698	5.945	60.451	32.968	478.129
Remaining Buildup	0.000	0.000	0.000	0.000	0.000
Continuity Error (%)	0.000	0.000	0.000	0.000	0.000

********** FecalColiform

Runoff Quality Continuity LogN
********** ----------
Initial Buildup 0.000
Surface Buildup 15.894
Wet Deposition 0.000
Sweeping Removal 0.000
Infiltration Loss 0.000
BMP Removal 0.000
Surface Runoff 15.894
Remaining Buildup 0.000
Continuity Error (%) 0.000

****
Subcatchment Runoff Summary
****

Subcatchment	Total Precip in	Total Runon in	Total Evap in	Total Infil in	Total Runoff in	Total Runoff 10^6 gal	Peak Runoff CFS	Runoff Coeff
DA2	422.25	0.00	76.49	98.12	249.94	251.79	94.46	0.592

****
Subcatchment Washoff Summary
****

Subcatchment	TSS lbs	Nitrogen lbs	Copper lbs	Lead lbs	Zinc lbs	FecalColiform LogN

DA2	142286.698	5.945	60.451	32.968	478.129	15.894
System	142286.698	5.945	60.451	32.968	478.129	15.894

Analysis begun on: Fri Jul 01 11:01:34 2016
Analysis ended on: Fri Jul 01 11:01:41 2016
Total elapsed time: 00:00:07

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.1 (Build 5.1.010)

****
NOTE: The summary statistics displayed in this report are
based on results found at every computational time step,
not just on results from each reporting time step.
****

****
Analysis Options
****
Flow Units ..... CFS
Process Models:
  Rainfall/Runoff ..... YES
  RDII ..... NO
  Snowmelt ..... NO
  Groundwater ..... NO
  Flow Routing ..... NO
  Water Quality ..... YES
Infiltration Method ..... GREEN_AMPT
Starting Date APR-13-2016 00:00:00
Ending Date APR-16-2016 06:00:00
Antecedent Dry Days 0.0
Report Time Step 00:05:00
Wet Time Step 00:05:00
Dry Time Step 00:05:00

********** Volume Depth
Runoff Quantity Continuity acre-feet inches

*************************	---------	-------
Initial LID Storage	1.375	0.445
Total Precipitation	8.749	2.830
Evaporation Loss	0.209	0.068
Infiltration Loss	7.748	2.506
Surface Runoff	0.000	0.000
Final Storage	2.169	0.701
Continuity Error (%)	-0.008	

*************************	TSS	Nitrogen	Copper	Lead	Zinc
Runoff Quality Continuity	lbs	lbs	lbs	lbs	lbs
*************************	----------	----------	----------	----------	----------
Initial Buildup	0.000	0.000	0.000	0.000	0.000
Surface Buildup	679.034	0.021	0.214	0.207	2.137
Wet Deposition	0.000	0.000	0.000	0.000	0.000
Sweeping Removal	0.000	0.000	0.000	0.000	0.000
Infiltration Loss	0.000	0.000	0.000	0.000	0.000
BMP Removal	679.034	0.021	0.214	0.207	2.137
Surface Runoff	0.000	0.000	0.000	0.000	0.000
Remaining Buildup	0.000	0.000	0.000	0.000	0.000
Continuity Error (%)	0.000	0.000	0.000	0.000	0.000

*************************	FecalColiform
Runoff Quality Continuity	LogN
*************************	----------
Initial Buildup	0.000
Surface Buildup	13.373
Wet Deposition	0.000
Sweeping Removal	0.000
Infiltration Loss	0.000
BMP Removal	13.373

Surface Runoff ..... -4.095
Remaining Buildup 0.000
Continuity Error (%) ..... -0.000

****
Subcatchment Runoff Summary
****

Subcatchment	Total Precip in	Total Runon in	Total Evap in	Total Infil in	Total Runoff in	Total Runoff 10^6 gal	Peak Runoff CFS	Runoff Coeff
DA2	2.83	0.00	0.07	2.51	0.00	0.00	0.00	0.000

****
LID Performance Summary
****

Subcatchment	LID Control	Total Inflow in	Evap Loss in	Infil Loss in	Surface Outflow in	Drain Outflow in	Initial Storage in	Final Storage in	Continuity Error %
DA2	PermeablePavement	5.19	0.00	7.83	0.00	0.00	2.64	0.00	-0.00
DA2	Bioretention	17.54	0.52	10.88	0.00	0.00	3.94	10.08	-0.01

****
Subcatchment Washoff Summary
****

Subcatchment	TSS lbs	Nitrogen lbs	Copper lbs	Lead lbs	Zinc lbs	FecalColiform LogN
DA2	0.000	0.000	0.000	0.000	0.000	-4.095
System	0.000	0.000	0.000	0.000	0.000	-4.095

Analysis begun on: Fri Jul 01 11:02:36 2016
Analysis ended on: Fri Jul 01 11:02:36 2016
Total elapsed time: < 1 sec

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.1 (Build 5.1.010)

****
NOTE: The summary statistics displayed in this report are
based on results found at every computational time step,
not just on results from each reporting time step.
****

****
Analysis Options
****
Flow Units ..... CFS
Process Models:
  Rainfall/Runoff ..... YES
  RDII ..... NO
  Snowmelt ..... NO
  Groundwater ..... NO
  Flow Routing ..... NO
  Water Quality ..... NO
Infiltration Method ..... GREEN_AMPT
Starting Date APR-13-2016 00:00:00
Ending Date APR-16-2016 06:00:00
Antecedent Dry Days 0.0
Report Time Step 00:05:00
Wet Time Step 00:05:00
Dry Time Step 00:05:00

********** Volume Depth
Runoff Quantity Continuity acre-feet inches

**************************	---------	-------
Initial LID Storage	1.375	0.445
Total Precipitation	16.169	5.230
Evaporation Loss	0.213	0.069
Infiltration Loss	14.780	4.781
Surface Runoff	0.325	0.105
Final Storage	2.228	0.721
Continuity Error (%)	-0.009	

****
Subcatchment Runoff Summary
****

Subcatchment	Total Precip in	Total Runon in	Total Evap in	Total Infil in	Total Runoff in	Total Runoff 10^6 gal	Peak Runoff CFS	Runoff Coeff
DA2	5.23	0.00	0.07	4.78	0.11	0.11	1.84	0.020

****
LID Performance Summary
****

Subcatchment	LID Control	Total Inflow in	Evap Loss in	Infil Loss in	Surface Outflow in	Drain Outflow in	Initial Storage in	Final Storage in	Continuity Error %
DA2	PermeablePavement	9.65	0.00	12.29	0.00	0.00	2.64	0.00	-0.00
DA2	Bioretention	32.73	0.52	24.45	1.35	0.00	3.94	10.35	-0.00

Analysis begun on: Fri Jul 01 11:03:49 2016
Analysis ended on: Fri Jul 01 11:03:49 2016
Total elapsed time: < 1 sec

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.1 (Build 5.1.010)

****
NOTE: The summary statistics displayed in this report are
based on results found at every computational time step,
not just on results from each reporting time step.
****

****
Analysis Options
****
Flow Units ..... CFS
Process Models:
  Rainfall/Runoff ..... YES
  RDII ..... NO
  Snowmelt ..... NO
  Groundwater ..... NO
  Flow Routing ..... NO
  Water Quality ..... NO
Infiltration Method ..... GREEN_AMPT
Starting Date APR-13-2016 00:00:00
Ending Date APR-16-2016 06:00:00
Antecedent Dry Days 0.0
Report Time Step 00:05:00
Wet Time Step 00:05:00
Dry Time Step 00:05:00

********** Volume Depth
Runoff Quantity Continuity acre-feet inches

**************************	---------	-------
Initial LID Storage	1.375	0.445
Total Precipitation	25.383	8.210
Evaporation Loss	0.222	0.072
Infiltration Loss	19.532	6.318
Surface Runoff	4.777	1.545
Final Storage	2.229	0.721
Continuity Error (%)	-0.013	

****
Subcatchment Runoff Summary
****

Subcatchment	Total Precip in	Total Runon in	Total Evap in	Total Infil in	Total Runoff in	Total Runoff 10^6 gal	Peak Runoff CFS	Runoff Coeff
DA2	8.21	0.00	0.07	6.32	1.55	1.56	33.98	0.188

****
LID Performance Summary
****

Subcatchment	LID Control	Total Inflow in	Evap Loss in	Infil Loss in	Surface Outflow in	Drain Outflow in	Initial Storage in	Final Storage in	Continuity Error %
DA2	PermeablePavement	15.18	0.00	17.82	0.00	0.00	2.64	0.00	-0.00
DA2	Bioretention	51.60	0.52	25.74	18.92	0.00	3.94	10.36	-0.00

Analysis begun on: Fri Jul 01 11:04:32 2016
Analysis ended on: Fri Jul 01 11:04:32 2016
Total elapsed time: < 1 sec

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.1 (Build 5.1.010)

****
Rainfall File Summary
****

Station ID	First Date	Last Date	Recording Frequency	Periods w/Precip	Periods Missing	Periods Malfunc.
047762	JAN-09-1970	DEC-27-2006	5 min	7665	0	0

****
NOTE: The summary statistics displayed in this report are
based on results found at every computational time step,
not just on results from each reporting time step.
****

****
Analysis Options
****
Flow Units ..... CFS
Process Models:
  Rainfall/Runoff ..... YES
  RDII ..... NO
  Snowmelt ..... NO
  Groundwater ..... NO
  Flow Routing ..... NO
  Water Quality ..... YES
Infiltration Method ..... GREEN_AMPT
Starting Date JAN-09-1970 00:00:00

Ending Date DEC-27-2006 06:00:00
Antecedent Dry Days 0.0
Report Time Step 00:05:00
Wet Time Step 00:05:00
Dry Time Step 00:05:00

Runoff Quantity Continuity	Volume acre-feet	Depth inches
Initial LID Storage	0.243	0.078
Total Precipitation	1305.462	422.252
Evaporation Loss	333.239	107.786
Infiltration Loss	979.880	316.942
Surface Runoff	0.309	0.100
Final Storage	0.375	0.121
Continuity Error (%)	-0.620	

Runoff Quality Continuity	TSS lbs	Nitrogen lbs	Copper lbs	Lead lbs	Zinc lbs
Initial Buildup	0.000	0.000	0.000	0.000	0.000
Surface Buildup	81722.055	2.569	25.795	24.894	257.220
Wet Deposition	0.000	0.000	0.000	0.000	0.000
Sweeping Removal	0.000	0.000	0.000	0.000	0.000
Infiltration Loss	0.000	0.000	0.000	0.000	0.000
BMP Removal	81716.202	2.568	25.787	24.889	257.182
Surface Runoff	5.853	0.001	0.008	0.005	0.038
Remaining Buildup	0.000	0.000	0.000	0.000	0.000
Continuity Error (%)	0.000	0.000	0.000	0.000	0.000

********** FecalColiform
Runoff Quality Continuity LogN
********** ----------
Initial Buildup 0.000
Surface Buildup 15.453
Wet Deposition 0.000
Sweeping Removal 0.000
Infiltration Loss 0.000
BMP Removal 15.453
Surface Runoff 11.468
Remaining Buildup 0.000
Continuity Error (%) 0.000

****
Subcatchment Runoff Summary
****

Subcatchment	Total Precip in	Total Runon in	Total Evap in	Total Infil in	Total Runoff in	Total Runoff 10^6 gal	Peak Runoff CFS	Runoff Coeff
DA2	422.25	0.00	107.79	316.94	0.10	0.10	2.60	0.000

****
LID Performance Summary
****

	Total Inflow	Evap Loss	Infil Loss	Surface Outflow	Drain Outflow	Initial Storage	Final Storage	Continuity Error

Subcatchment	LID Control	in	in	in	in	in	in	in	%
DA2	PermeablePavement	708.26	0.00	708.26	0.00	0.00	0.00	0.00	-0.00
DA2	Bioretention	2201.94	965.78	1237.47	0.00	0.00	1.13	1.61	-0.08

****
Subcatchment Washoff Summary
****

Subcatchment	TSS lbs	Nitrogen lbs	Copper lbs	Lead lbs	Zinc lbs	FecalColiform LogN
DA2	5.853	0.001	0.008	0.005	0.038	11.468
System	5.853	0.001	0.008	0.005	0.038	11.468

Analysis begun on: Fri Jul 01 11:05:13 2016
Analysis ended on: Fri Jul 01 11:06:11 2016
Total elapsed time: 00:00:58

APPENDIX E-SECTION 5 OF THE LOS ANGELES RIVER WATERSHED REPORT

Los Angeles County 1994-2005

Integrated Receiving Water Impacts Report

Final Report - August 2005

CD Contents

Table of Contents + Acronyms

Executive Summary

Section 1 - Introduction

Section 2 - Regional Study Area

Section 3 - Methods

Section 4 - San Gabriel River WMA

Section 5 - Los Angeles River WMA

Section 6 - Dominguez Channel WMA

Section 7 - Ballona Creek WMA

Section 8 - Malibu Creek WMA

Section 9 - Santa Clara River WMA

Section 10 - Regional Assessment

Section 11 - Regional Monitoring & Special Studies

Section 12 - Conclusions

Section 13 - Recommendations

Section 14 - References

APPENDICES

Appendix A

Appendix B

Appendix C

Appendix D

Appendix E

Appendix F

Appendix G

Appendix H

Appendix I

APPENDIX F-WATER QUALITY COMPLIANCE MASTER PLAN FOR URBAN RUNOFF

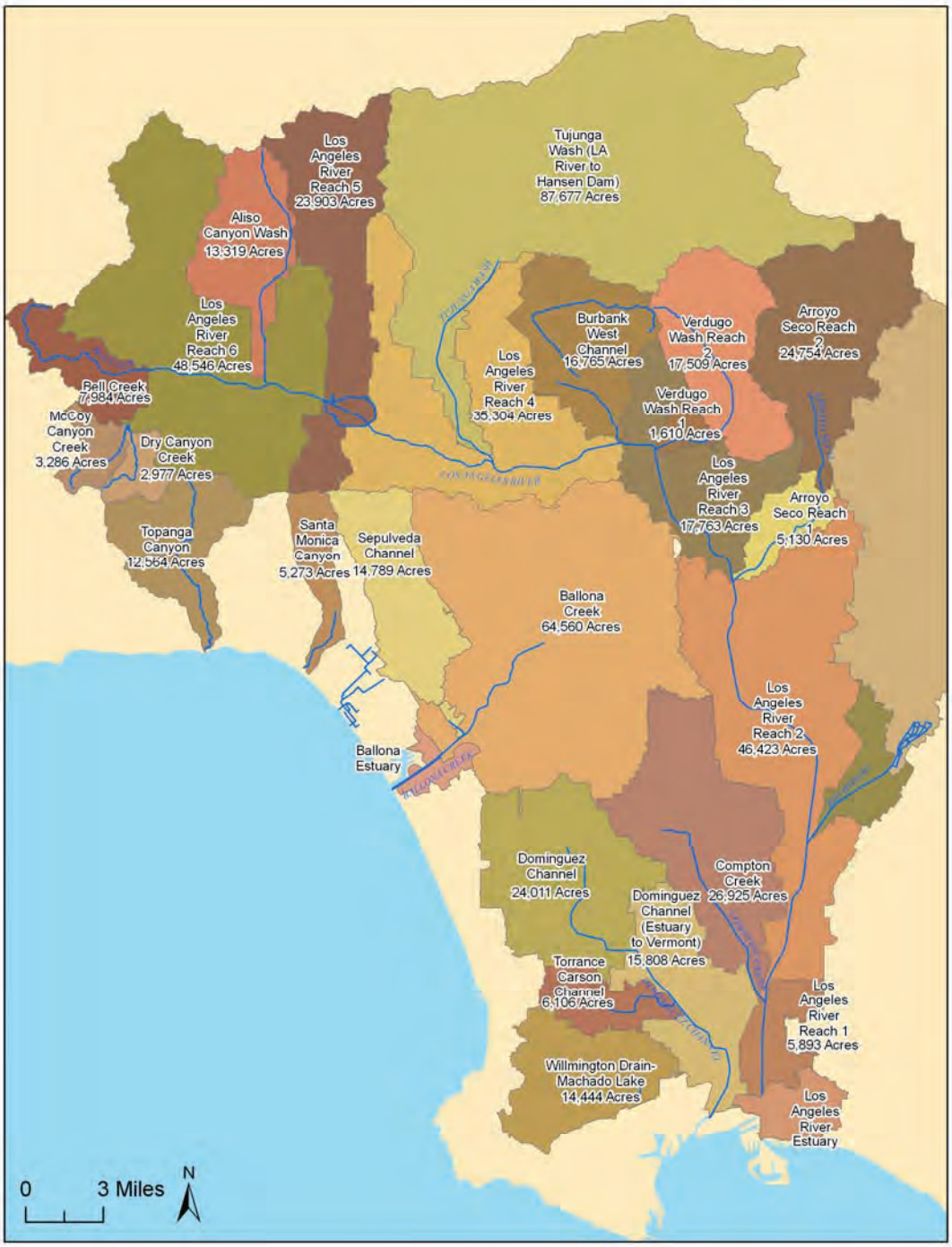


Figure 2-6
Los Angeles Area: 303(d) List-Impaired Subwatersheds and Reaches
Many of sub-watershed boundaries of the Los Angeles River, Dominguez Channel and Ballona Creek watersheds are illustrated above.

APPENDIX G-OLIVE VIEW MEDICAL CENTER CAMPUS MASTER PLAN

w Impact Development - Bioretention Plan

LOW IMPACT DEVELOPMENT

Being at such a key point in the greater Los An
Basin watershed, the management of runoff i
critical and should be slowed and treated at e
opportunity. Using Low Impact Development
strategies, wherever possible, the new design
helps water flow from the adjacent mountain
vegetated bioswales, allowing water to return
ground, filtered by plants and soil. Bioswales
mitigate runoff, improving groundwater qual
while taking advantage of the natural flow, u
shape of the land to direct water to the landsc
and reducing the need for irrigation. The reve
areas at the base of the mountains, allow wat
to slow and infiltrate the ground before it rea
the campus perimeter, also naturally stabilizi
slope, minimizing erosion.

Once geotechnical determinations are made a
should the soil be found suitable for infiltratio
LID methodology should be further establishe
applied. Methods may include use of permea
paving in parking and hardscape areas.

Vegetated Bioretention Swales

Drainage Tributary Swale Distributi

Permeable Paving

APPENDIX H-EPA GUIDE TO STORMWATER RUNOFF

Table 4-1. Median Event Mean Concentrations for Urban Land Uses

Pollutant	Units	Residential		Mixed		Commercial		Open/ Non-Urban	
		Median	COV	Median	COV	Median	COV	Median	COV
BOD	mg/l	10	0.41	7.8	0.52	9.3	0.31	--	--
COD	mg/l	73	0.55	65	0.58	57	0.39	40	0.78
TSS	mg/l	101	0.96	67	1.14	69	0.85	70	2.92
Total Lead	µg/l	144	0.75	114	1.35	104	0.68	30	1.52
Total Copper	µg/l	33	0.99	27	1.32	29	0.81	--	--
Total Zinc	µg/l	135	0.84	154	0.78	226	1.07	195	0.66
Total Kjeldahl Nitrogen	µg/l	1900	0.73	1288	0.50	1179	0.43	965	1.00
Nitrate + Nitrite	µg/l	736	0.83	558	0.67	572	0.48	543	0.91
Total Phosphorus	µg/l	383	0.69	263	0.75	201	0.67	121	1.66
Soluble Phosphorus	µg/l	143	0.46	56	0.75	80	0.71	26	2.11

COV: Coefficient of variation
Source: Nationwide Urban Runoff Program (US EPA 1983)

Results from NURP indicate that there is not a significant difference in pollutant concentrations in runoff from different urban land use categories. There is a significant difference, however, in pollutant concentrations in runoff from urban sources than that produced from non-urban areas.

The pollutants that are found in urban storm water runoff originate from a variety of sources. The major sources include contaminants from residential and commercial areas, industrial activities, construction, streets and parking lots, and atmospheric deposition. Contaminants commonly found in storm water runoff and their likely sources are summarized in Table 4-2.

Table 4-3. Typical Pollutant Loadings from Runoff by Urban Land Use (lbs/acre-yr)

Land Use	TSS	TP	TKN	NH_3-N	NO_2+NO_3-N	BOD	COD	Pb	Zn	Cu
Commercial	1000	1.5	6.7	1.9	3.1	62	420	2.7	2.1	0.4
Parking Lot	400	0.7	5.1	2	2.9	47	270	0.8	0.8	0.04
HDR	420	1	4.2	0.8	2	27	170	0.8	0.7	0.03
MDR	190	0.5	2.5	0.5	1.4	13	72	0.2	0.2	0.14
LDR	10	0.04	0.03	0.02	0.1	NA	NA	0.01	0.04	0.01
Freeway	880	0.9	7.9	1.5	4.2	NA	NA	4.5	2.1	0.37
Industrial	860	1.3	3.8	0.2	1.3	NA	NA	2.4	7.3	0.5
Park	3	0.03	1.5	NA	0.3	NA	2	0	NA	NA
Construction	6000	80	NA	NA	NA	NA	NA	NA	NA	NA

HDR: High Density Residential, MDR: Medium Density Residential, LDR: Low Density Residential
NA: Not available; insufficient data to characterize loadings
Source: Horner et al, 1994

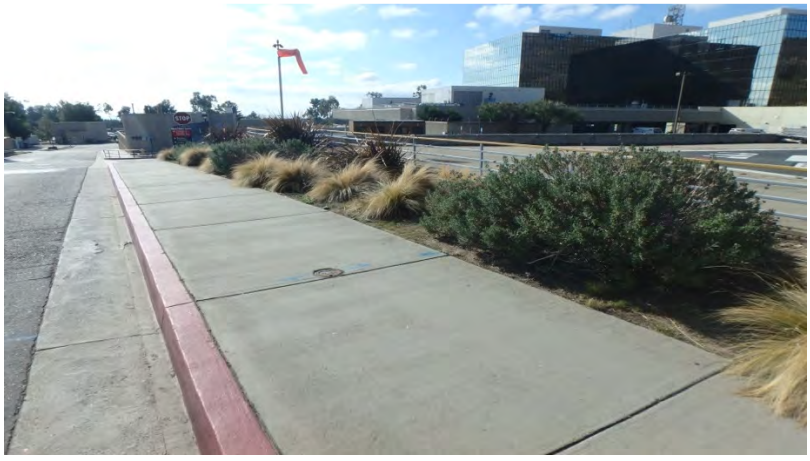
As indicated in Table 4-3, urban storm water runoff can contain significant concentrations of solids, nutrients, organics and metals. A comparison of the concentration of water quality parameters in urban runoff with the concentrations in domestic wastewater is shown in Table 4-4.

APPENDIX I-SITE RECONNAISSANCE PHOTOGRAPHS

Olive View Site Visit 1/20/2016

Curb drainage throughout site

Wilson Canyon drainage



Landscaping around campus

More Landscaping

Outlet for Wilson Canyon Debris Basin

Front of Wilson Canyon Debris Basin

Water and sediment in Wilson Canyon drain line, upstream

Parking lot, top of campus, adjacent to Wilson Canyon

Buildings and vegetation, walking top of property line

Embankment, moving west along northern extent of property

K-rails to control mud flow

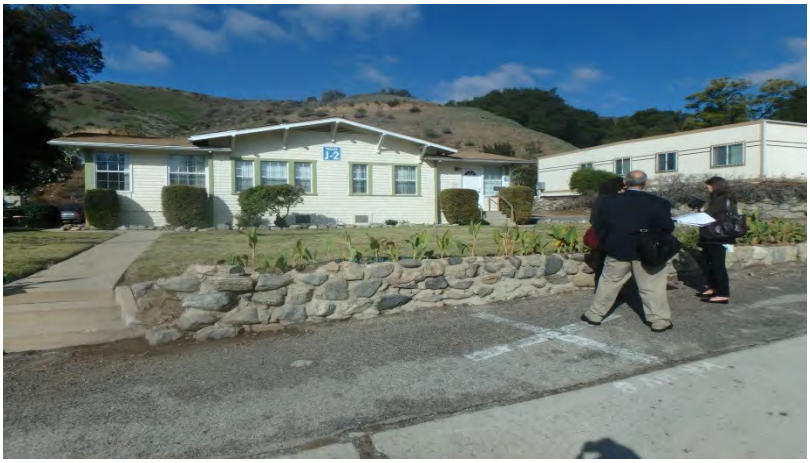
Vegetation at Northern edge of property

Mound constructed to control mud flows

Continuation of mound (roughly 5’x40’)

Backside of mound

Backside of mound (reinforced by concrete)



Vegetation, buildings fronting Sycamore Rd.

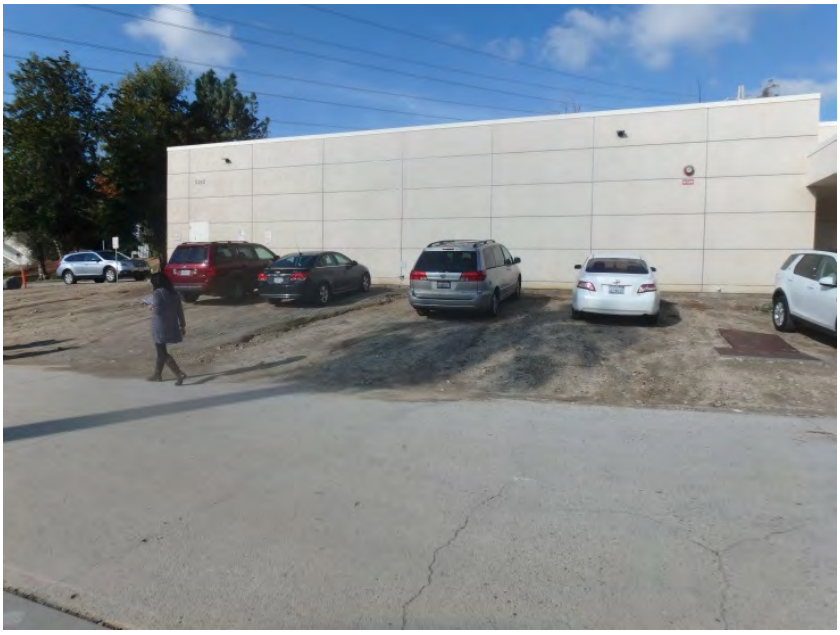
Close up of vegetation

Up Sycamore Rd.

Buildings fronting Sycamore Rd.

Ground Vegetation in planters on Sycamore Rd.

Soil erosion in dirt parking lot on Sycamore Rd.



Wide shot of soil erosion in parking lot

Drainage inlets around corner of Sycamore and Bucher Rd.

Corner of Sycamore and Bucher Ave.

Drainage inlets on corner of Sycamore and Bucher

Drainage and picnic area (Sycamore and Bucher)

Outlet on Bucher Ave.

Drain, moving west on Bucher Rd.

Open grass field along northwestern sector of campus

Sandbags used around drains to prevent excess runoff

North Campus bordering forest

Drains along walkways, west edge of campus

Alternate angle of drains

Soil erosion near northwest edge of campus

Road drain, unclear if leading anywhere

Newly constructed basin (post 2008 fires) Northwest campus

Alternate angle of basin

K-Rails used to control mud flow

Vacant parking lot, west edge of campus

Soil erosion affecting pavement

Pavement along west edge of campus

Connected Impervious Drainage

Protected oak tree

Low watering vegetation outside new Child Care Center

Example of new campus construction, Child Care Center

New vegetation adjacent to Child Care Center

Fire line, Olive View Drive

Ocean storm drain inlet along Olive View Drive

Entrance to parking long on Olive View Drive

Drain inlet to Wilson Creek Channel

Feed into Wilson Canyon Creek

More Wilson Canyon (from road)

Grated drain into Wilson Creek

Drainage feeding into Wilson Canyon Channel

Upstream, Wilson Channel

Soil erosion along Wilson Creek

Schoolhouse Debris Basin

Schoolhouse Debris runoff upstream

Downstream Schoolhouse drainage area

WILSON CANYON DEBRIS BASIN (5-25-2015)

Looking into basin

Wilson Canyon Debris Basin

Wilson Canyon Debris Basin

Wilson Canyon Debris Basin

Wilson Canyon Creek, from top of debris basin, downstream

County sign entering debris basin

APPENDIX J-CITY OF LOS ANGELES HAARD MITIGATION PLAN (DAM FAILURE AND TSUNAMI INNUNDATION)

City *of* Los Angeles

Hazard Mitigation Plan

REVISED
January 2011

ADOPTED
July 2011

These assets are included on Figure M-1 along with the Dam Inundation area. The replacement values of critical response facilities and their contents that fall in the hazard areas are in the following section, “Estimating Potential Losses”.

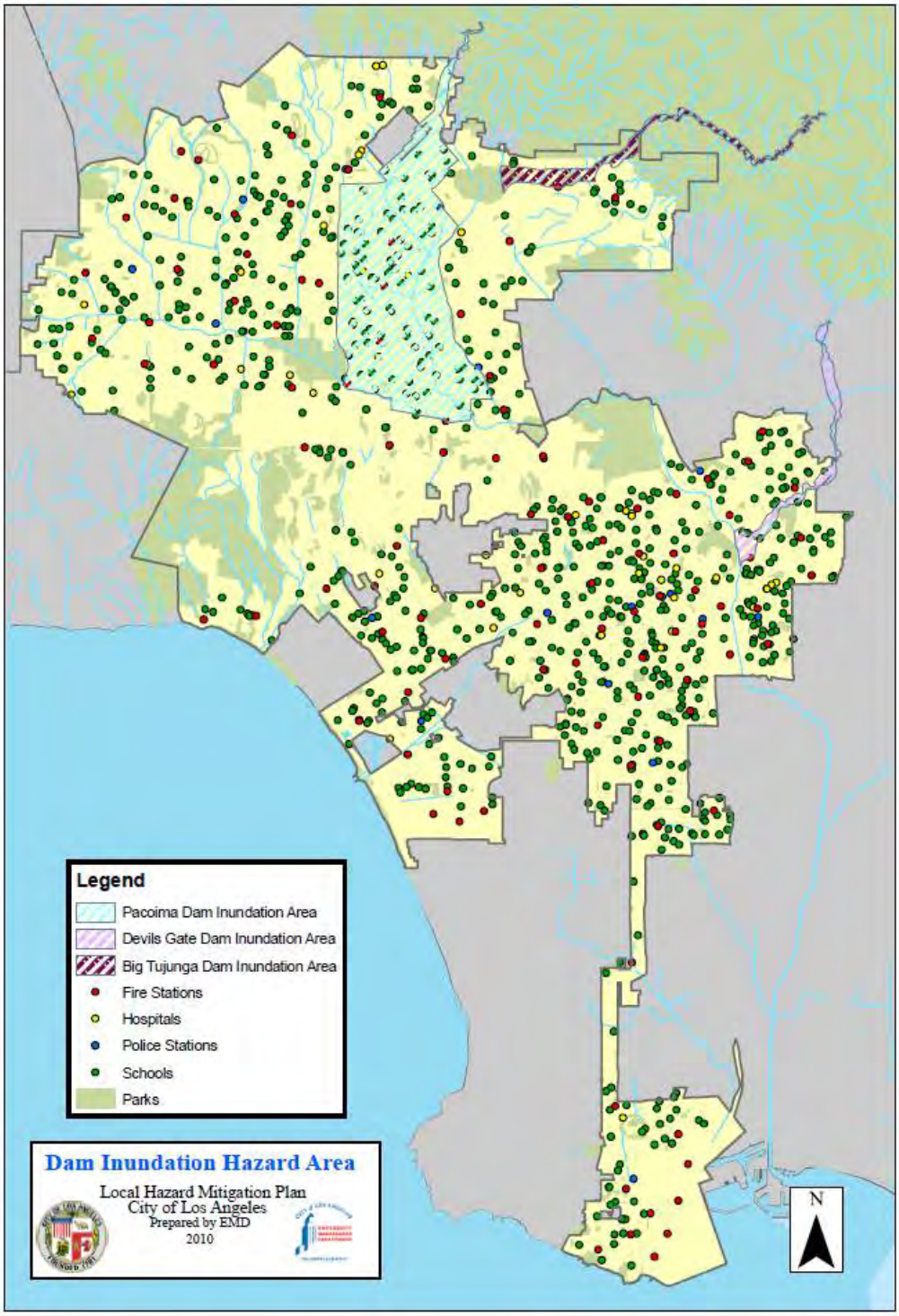


Figure M-1. Critical Response Facilities identified in the Dam Inundation Hazard area.

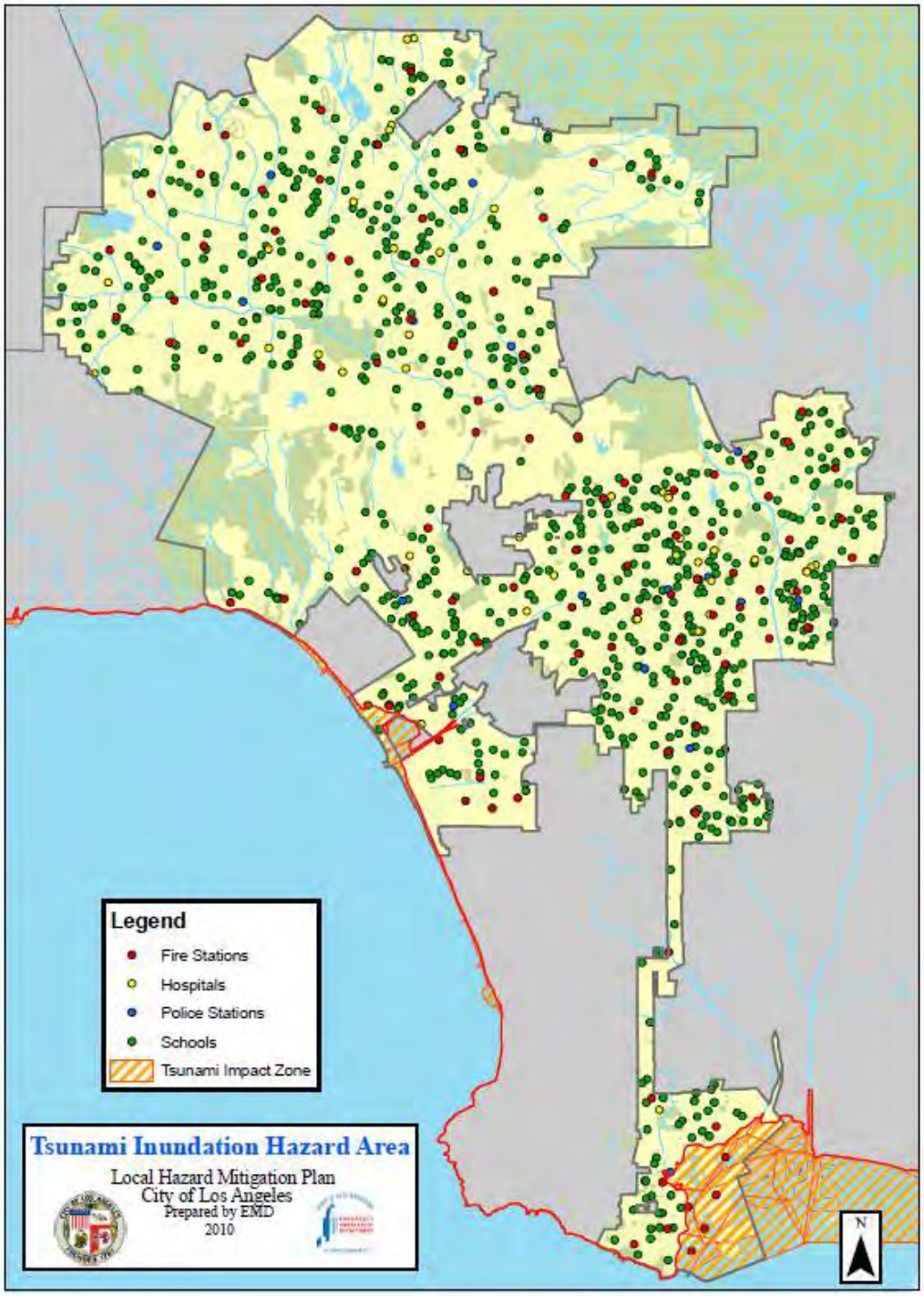


Figure O-1. Critical Response Facilities identified in the Tsunami Inundation Hazard area. Tsunami inundation data provided by the USGS.

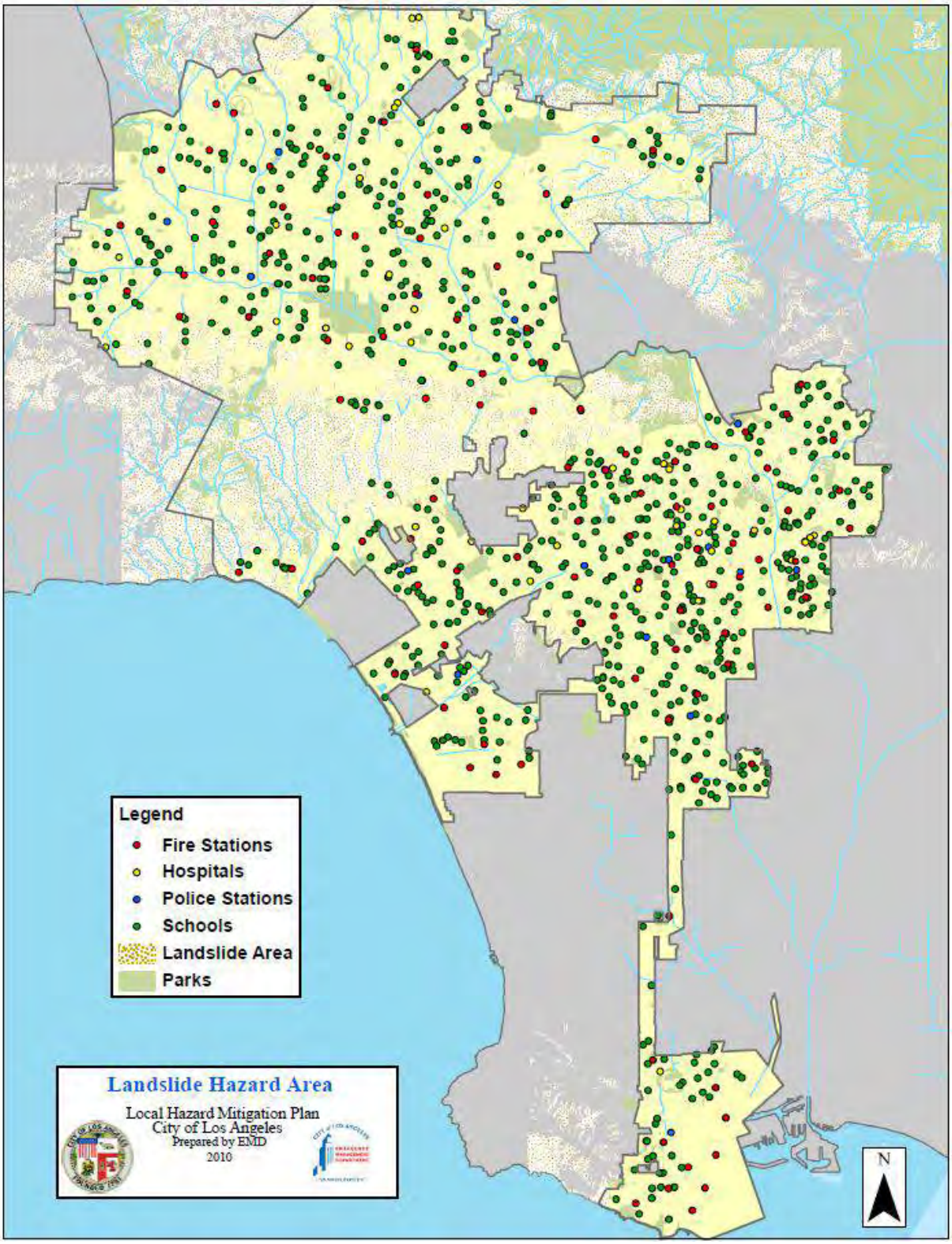


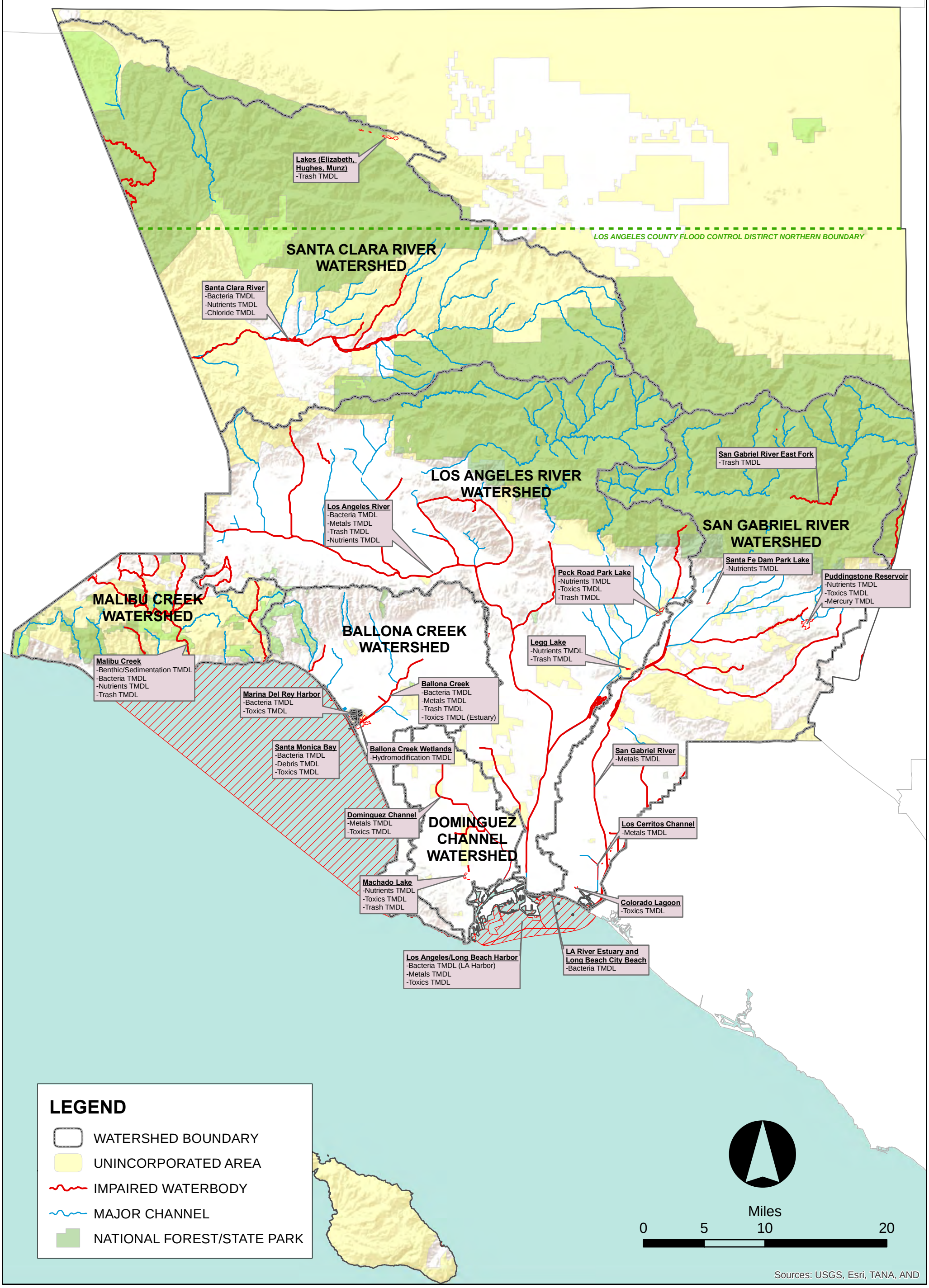
Figure P-1. Critical Response Facilities identified in the Landslide Hazard Area in the City of Los Angeles.

APPENDIX K-COUNTY OF LOS ANGELES LOW IMPACT DEVELOPMENT HANDBOOK TMDL DATA

COUNTY OF LOS ANGELES

MAJOR WATERSHEDS and EFFECTIVE TOTAL MAXIMUM DAILY LOADS

(as of October 2013)



APPENDIX B

Tier 3 Pollutants of Concern

BALLONA CREEK WATERSHED MANAGEMENT AREA

Parameter	Parameter
pH	Cyanide, Total Recoverable
E. coli Bacteria	Copper, Total Recoverable
Total Coliform Bacteria[1]	Lead, Total Recoverable
Fecal Coliform Bacteria[1]	Mercury, Total Recoverable
Enterococcus Bacteria[1]	Selenium, Total Recoverable

[1] Apply only to discharges to the estuary and the ocean

DOMINGUEZ CHANNEL WATERSHED MANAGEMENT AREA

Parameter	Parameter
pH	Cyanide, Total Recoverable
E. coli Bacteria	Copper, Total Recoverable
Total Coliform Bacteria[1]	Lead, Total Recoverable
Fecal Coliform Bacteria[1]	Mercury, Total Recoverable
Enterococcus Bacteria[1]	Selenium, Total Recoverable

[1] Apply only to discharges to the estuary and the ocean

LOS ANGELES RIVER WATERSHED MANAGEMENT AREA

Parameter	Parameter
pH	Total Dissolved Solids
E. coli Bacteria	Turbidity
Total Coliform Bacteria[1]	Aluminum, Total Recoverable
Fecal Coliform Bacteria[1]	Cyanide, Total Recoverable
Enterococcus Bacteria[1]	Copper, Total Recoverable
Chloride	Mercury, Total Recoverable
Nitrite Nitrogen, Total (as N)	Selenium, Total Recoverable
Sulfate	

[1] Apply only to discharges to the estuary and the ocean

MALIBU CREEK WATERSHED MANAGEMENT AREA

Parameter	Parameter
E. coli Bacteria	Total Dissolved Solids
Cyanide, Total Recoverable	
Mercury, Total Recoverable	
Selenium, Total Recoverable	
Sulfate	

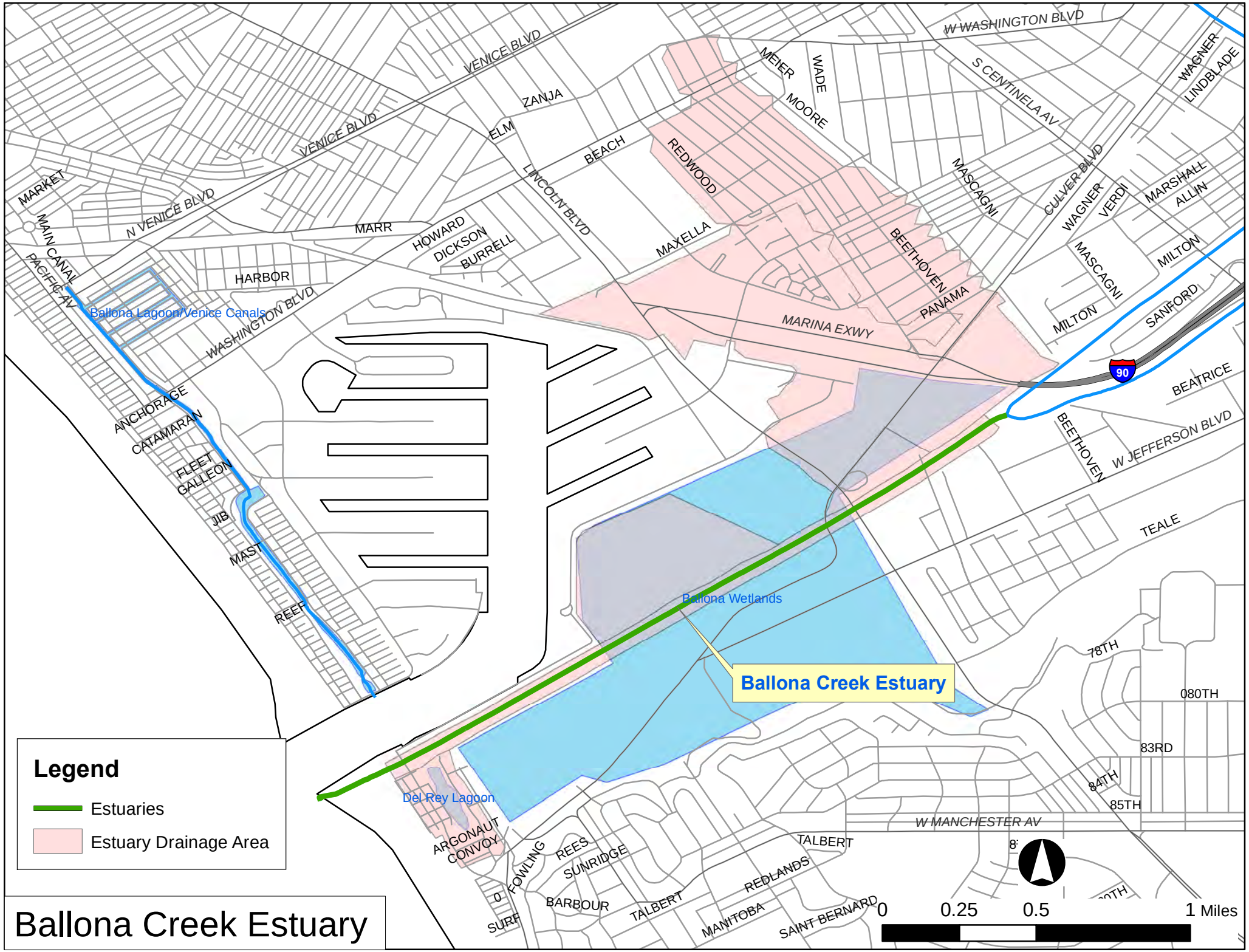
SAN GABRIEL RIVER WATERSHED MANAGEMENT AREA

Parameter	Parameter
pH	Cyanide, Total Recoverable
E. coli Bacteria	Cadmium, Total Recoverable
Total Coliform Bacteria[1]	Copper, Total Recoverable
Fecal Coliform Bacteria[1]	Lead, Total Recoverable
Enterococcus Bacteria[1]	Mercury, Total Recoverable
Chloride	Nickel, Total Recoverable
Nitrate Nitrogen, Total (as N)	Selenium, Total Recoverable
Sulfate	Silver, Total Recoverable
Total Dissolved Solids	Zinc, Total Recoverable
Aluminum, Total Recoverable	

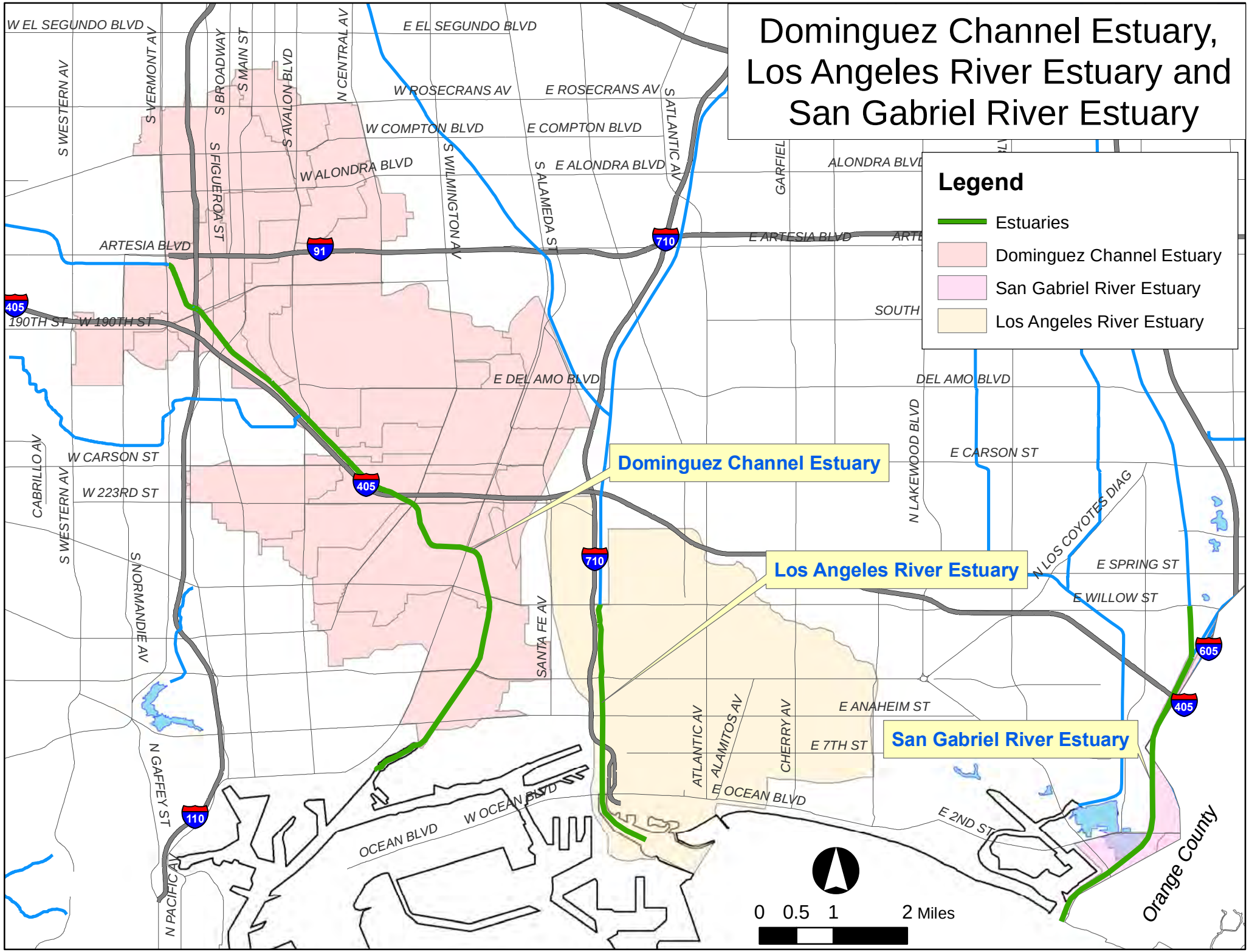
[1] Apply only to discharges to the estuary and the ocean

SANTA CLARA RIVER WATERSHED AREA (LA County portion only)

Parameter	Parameter
E. coli Bacteria	Aluminum, Total Recoverable
Chloride	Cyanide, Total Recoverable
Sulfate	Copper, Total Recoverable
Total Dissolved Solids	Mercury, Total Recoverable
Methylene Blue Active Substances	Selenium, Total Recoverable



Ballona Creek Estuary



Document Name: Basin Plan_LAR-DC

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APPENDIX L-PRELIMINARY GEOTECHNICAL EVALUATION

Ninyo & Moore
Geotechnical and Environmental Sciences Consultants

PRELIMINARY GEOTECHNICAL EVALUATION
OLIVE VIEW – UCLA MEDICAL CENTER MASTER PLAN
LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS
14445 OLIVE VIEW DRIVE
SYLMAR, CALIFORNIA

PREPARED FOR:
ICF International
601 W. Fifth Street, Suite 900
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March 18, 2016
Project No. 209600002

March 18, 2016
Project No. 209600002

Mr. Lee Lisecki
ICF International
601 W. Fifth Street, Suite 900
Los Angeles, California 90071

Subject: Preliminary Geotechnical Evaluation
Olive View – UCLA Medical Center Master Plan
Los Angeles County Department of Public Works
14445 Olive View Drive
Sylmar, California

Dear Mr. Lisecki:

In accordance with your request and authorization, Ninyo & Moore has performed a preliminary geotechnical evaluation for the Olive View – UCLA Medical Center Master Plan project located at 14445 Olive View Drive in Sylmar, California. Our evaluation was conducted in general accordance with the scope of services presented in our proposal dated February 2, 2015. This report presents our findings and conclusions regarding the subject site. We understand that the results of this evaluation will be utilized in the preparation of an Environmental Impact Report for the project.

We appreciate the opportunity to provide geotechnical consulting services for this project.

Sincerely,
NINYO & MOORE

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1. INTRODUCTION

In accordance with your request and authorization, we have performed a preliminary geotechnical evaluation for the Olive View – UCLA Medical Center Master Plan project (project) located at 14445 Olive View Drive in Sylmar, California (Figure 1). This Los Angeles County Department of Public Works (LACDPW) project involves development of a master plan that includes renovation of existing buildings and construction of a new hospital building, administrative building, central utility plant and other structures. We have performed a geotechnical evaluation of the site geologic conditions and the impacts associated with potential geologic and seismic hazards for inclusion in the Environmental Impact Report (EIR) for the project.

The purpose of our evaluation was to assess the geologic conditions at the site and develop preliminary conclusions regarding potential geologic and seismic impacts associated with the project in accordance with the California Environmental Quality Act (CEQA). Where appropriate, recommendations to mitigate potential geologic hazards, as noted in this report, have been provided. Our evaluation was based on review of readily available geologic and seismic data, geotechnical literature and reports, and site reconnaissance. Subsurface exploration was not conducted as part of our evaluation.

The Olive View – UCLA Medical Center site is located in a State of California (1979) Earthquake Fault Zone (EFZ, formerly Alquist-Priolo Special Studies Zone) related to surface ruptures caused by the 1971 San Fernando (Sylmar) Earthquake. Significant damage occurred to the buildings at the site in 1971 due to ground shaking from the San Fernando Earthquake. The potential for surface rupture to occur at the site due to future earthquakes is a potentially significant hazard to existing and planned structures. Fault trenching studies to evaluate the presence and relative activity of faulting at the site have been conducted by other geotechnical consultants. We understand that additional trenching studies will be needed in the future to evaluate buildable zones for the master planning scheme.

2. SCOPE OF SERVICES

Ninyo & Moore's scope of services has included review of geotechnical background materials, geologic reconnaissance of the project area, and geotechnical analysis. Specifically, we have performed the following tasks:

- Review of readily available topographic and geologic maps, published geotechnical literature, geologic and seismic data, groundwater data, and aerial photographs.
- Review of the referenced fault rupture hazard reports provided by ICF International that were obtained from the LACDPW.
- Review of the geotechnical aspects of LACDPW project planning documents, including a description of the master plan elements and brief overview of the fault rupture hazard investigations that have been conducted at the site.
- Geotechnical reconnaissance by a representative from Ninyo & Moore conducted on February 4, 2016, to observe and document the existing surface conditions at the project site.
- Compilation and analysis of existing geotechnical data pertaining to the site.
- Assessment of the general geologic conditions and seismic hazards affecting the area and evaluation of their potential impacts on the project.
- Preparation of this report presenting the results of our study, as well as our conclusions regarding the geologic and seismic impacts on the project, and preliminary recommendations to address the impacts to be included in the EIR.

3. PROJECT DESCRIPTION

Based on our review of the preliminary plans (SmithGroup JJR, 2015), we understand that the proposed project involves the development of a new long-term master plan to guide future medical campus development and delivery of health care services and health-related community programs. Future development under the master plan would include a new ambulatory care center, a replacement central utility plant, renovation of the existing inpatient hospital, outpatient clinics, research and development, education facilities, as well as community/public service areas. The master plan includes eventual replacement of the main hospital building. Other planned improvements include site utilities, hardscape, pavements, landscaping, and low impact development (LID) practices for on-site stormwater management/infiltration.

4. SITE DESCRIPTION

The Olive View – UCLA Medical Center is located north of Interstate 210 and east of Interstate 5 in the Sylmar community of the City of Los Angeles (Figure 1). The medical center campus is situated on the northern edge of the San Fernando Valley at the base of the San Gabriel Mountains (Figures 1 and 2). The campus is approximately 235 acres and is bounded by the Angeles National Forest and the Wilson Debris Basin to the north, Olive View Drive on the south, Wilson Canyon Channel on the east, and Bucher Avenue on the west (Figure 2). The project site is currently improved with an inpatient hospital, outpatient clinics, research/development and education facilities, and community/public service areas. The site is also improved with paved roads and parking areas, landscaped areas, retaining walls, developed pedestrian open space, and undeveloped hillside and canyon areas, unpaved roads and trails.

The project site includes both developed and undeveloped areas. The developed portion of the campus is located in the southern, low-lying portion of the site and west of the Wilson Canyon Channel. The undeveloped portion of the site is located in the elevated northern portion of the site and to the east of the Wilson Canyon Channel. Topography and surface gradients are variable across the site. The topography of the developed portion of the campus slopes gently down toward the west and south, varying from an approximate elevation of 1,500 feet above mean sea level (MSL) near the northeast part of the project area to an approximate elevation of 1,430 feet above MSL along the south part of the project area. The elevations in the hillside areas in the northern portion of the site range from approximately 1,850 feet above MSL to approximately 1,500 feet above MSL.

5. GEOLOGY

5.1. Regional Geology

The project site is located on the northern edge of the San Fernando Valley, a Tertiary-Quaternary period sediment-filled basin within the Transverse Ranges geomorphic province of southern California (Norris and Webb, 1990). Rock units in the province include older Precambrian-era and Jurassic-period metavolcanic, metasedimentary and igneous rocks.

Cretaceous-age marine and non-marine sedimentary and metasedimentary rocks and younger Tertiary-age rocks comprised of volcanic, marine, and non-marine sediments overlie the older rocks (Norris and Webb, 1990). More recent Quaternary sediments, primarily of alluvial origin, comprise the low-lying valley and drainage areas within the region, including the area where the Olive View – UCLA Medical Center Campus project site is located.

The rock formations in the province have been folded and uplifted due to compression and rotation associated with a restraining bend on the San Andreas Fault. The folding and uplifting of the region led to characteristic east-to-west trending structural troughs and mountain ranges. The San Fernando Valley formed as sediment infilled a subsiding basin between the San Gabriel Mountains to the north and the Santa Monica Mountains to the south (Norris and Webb, 1990).

5.2. Site Geology

The medical center is situated on a gently sloping alluvial fan and rock formations at the margin between the northern San Fernando Valley and western end of the San Gabriel Mountains. Regional geologic maps indicate that the upper, elevated northwestern portion of the site is underlain by Tertiary-age Towsley Formation generally comprised of cobble conglomerate and coarse-grained sandstone, and Cretaceous-age metamorphic rocks (Dibblee, 1991). Other elevated hillside areas in the western, northern and eastern portions of the site are mapped as being underlain by Pacoima Formation and older alluvium comprised of weakly consolidated sand and gravel. The lower southern portion of the site, where the existing improvements are located, and the eastern portions of the site at the base of Wilson Canyon are mapped as being underlain by young (Holocene) alluvial deposits generally comprised of gravel, sand and clay sediments. A regional geologic map of the site vicinity is shown on Figure 3.

5.3. Santa Susana (Olive View) Fault

Previous geologic mapping and references indicate the presence of a roughly east-west trending fault (the Olive View Fault) across the northwestern portion of the site (Figure 3).

Although not labeled on the referenced map (Dibblee, 1991) used for Figure 3, the fault has been named as the Olive View fault by others (California Department of Conservation, Division of Mines and Geology [CDMG], 1975; URS, 2010). The United States Geological Survey (USGS) has designated the fault as the eastern extension of the active Santa Susana Fault Zone (USGS, 2014a). This active fault was associated with surface ruptures at the project site caused by the 1971 San Fernando (Sylmar) Earthquake (CDMG, 1975; State of California, 1979).

5.4. Groundwater

The site is located within the San Fernando Valley Groundwater Basin (State of California, 2016). Historic groundwater monitoring well data from the State of California Water Resources Control Board's GeoTracker website (State of California, 2016) were reviewed for our evaluation. Monitoring well data were not available for the medical center site, but were reviewed for commercial properties located in the Sylmar community south of the site. These properties were involved in environmental clean-up activities where monitoring wells were installed and groundwater data from LACDPW wells were utilized. Based on the groundwater information reviewed from the GeoTracker website, groundwater levels from 1993 to 2013 in the Sylmar community approximately 1½ miles south of the project site have ranged from approximately 125 to 200 feet below the ground surface. The historic high groundwater mapped by the California Geological Survey (CGS) near the southern portion of the medical center site is approximately 120 feet deep (CDMG, 1998).

Groundwater levels may be influenced by seasonal variations, precipitation, subsurface stratification, groundwater pumping, irrigation practices, and other factors and are subject to fluctuations. Shallow perched conditions may be present.

6. FAULTING AND SEISMICITY

6.1. Regional Fault Setting

The Olive View-UCLA medical center project site is located in a seismically active area, as is the majority of southern California, and the potential for strong ground motion at the site

is considered significant. Table 1 lists selected principal known active faults within approximately 50 kilometers of the project area and the maximum moment magnitude (M_{max}) as published by the USGS (2008 and 2014a) in general accordance with the Uniform California Earthquake Rupture Forecast, version 3 (UCERF) (Field, et al., 2013). The approximate fault-to-site distances listed in Table 1, measured from the existing hospital building, were calculated using the USGS web-based program (USGS, 2008).

Table 1 – Principal Regional Active Faults

Fault	Approximate Fault-to-Site Distance [1] miles (kilometers)	Maximum Moment Magnitude [1] (M_{max})
Santa Susana [2]	<0.1 (<0.1)	6.9
Northridge Blind Thrust	0.5 (0.8)	6.9
Sierra Madre (San Fernando)	1.7 (2.8)	7.3
San Gabriel	3.2 (5.2)	7.3
Verdugo	4.7 (7.5)	6.9
Holser	8.6 (13.9)	6.8
Simi-Santa Rosa	14.4 (23.2)	6.9
Hollywood	16.2 (26.0)	6.7
Oak Ridge	16.6 (26.8)	7.4
Upper Elysian Park Blind Thrust	17.0 (27.3)	6.7
Santa Monica	17.3 (27.9)	7.4
Raymond	19.0 (30.5)	6.8
San Cayetano	19.6 (31.6)	7.2
Newport-Inglewood (Los Angeles Basin)	19.7 (31.8)	7.5
Malibu Coast	21.0 (33.8)	7.0
Puente Hills Blind Thrust (LA)	21.2 (34.1)	7.0
Anacapa-Dume	21.9 (35.3)	7.2
San Andreas	22.0 (35.3)	8.2
Palos Verdes	25.3 (40.8)	7.7
Clamshell-Sawpit Canyon	27.5 (44.3)	6.7

Notes:
[1] USGS, 2008
[2] USGS, 2014a

The fault-to-site distance web-based calculator for faults in California is not available as part of the 2014 National Seismic Hazard Map database. However, the 2014 National Seismic

Hazard Map itself shows the Santa Susana fault crossing through the northern portion of the site (USGS, 2014a). Accordingly, the Santa Susana fault is considered to be in the immediate vicinity of the campus site and the fault-to-site distance in Table 1 is shown as less than 0.1 mile. The active Santa Susana fault was not mapped as crossing the project site as part of the USGS 2008 National Seismic Hazard Map (USGS, 2008) database, and is shown to be located approximately 2.9 miles west of the site.

The numerous faults in southern California include active, potentially active, and inactive faults. As defined by the CGS, active faults are faults that have ruptured within Holocene time, or within approximately the last 11,000 years. Potentially active faults are those that show evidence of movement during Quaternary time (approximately the last 1.6 million years) but for which evidence of Holocene movement has not been established. Inactive faults have not ruptured in the last approximately 1.6 million years. Figure 4 shows the approximate site location relative to the principal faults in the region based on the Fault Activity Map of California (Jennings, C.W., and Bryant, W.A., 2010).

The active Northridge Blind Thrust Fault (source of the 1994 Northridge Earthquake) is located approximately 0.5 mile southwest of the project site. Blind thrust faults are low-angle faults at depths that do not break the surface and are, therefore, not shown on Figure 4. Although blind thrust faults do not have a surface trace, they can be capable of generating damaging earthquakes and are included in Table 1.

6.2. 1971 San Fernando (Sylmar) Earthquake

The Olive View-UCLA Medical Center site was previously subjected to substantial ground shaking, surface rupture and earthquake-related damages resulting from the 1971 San Fernando Earthquake (also known as the Sylmar Earthquake). The Magnitude 6.5 earthquake included roughly 12 miles of surface rupture in the site vicinity and produced a maximum slip of 6 feet. The approximate locations of faults associated with major surface ruptures that were mapped at the project site are shown on Figure 5. Other surface ruptures and landslides that occurred at the site as a result of the 1971 earthquake are shown on references reviewed for this evaluation (CDMG, 1975). Damage to the medical center site

included the collapse of stair towers adjacent to buildings, the partial collapse of medical buildings, and the collapse of parking structures. Some structures damaged in the earthquake were later demolished (Southern California Earthquake Data Center, 2016).

The extensive urban damages and loss of life that resulted from the 1971 San Fernando Earthquake led to the enactment of the Alquist-Priolo Act, signed into California law on December 22, 1972.

6.3. 1972 Alquist-Priolo Earthquake Fault Zoning Act

As presented in the CDMG, Special Publication 42 (Hart, E.W., and Bryant, W.A., 1997), the 1972 Alquist-Priolo Earthquake Fault Zoning Act (AP Act) requires the State Geologist to delineate EFZs along known active faults in California. The AP Act also requires building setbacks to be established from the trace of an active fault. EFZs must meet the requirements of being "sufficiently active" (evidence of movement within the last approximate 11,000 years) and "well-defined" (detectable by a trained geologist). It is known that faults often rupture along a complex zone that may include the movement of multiple splays/strands rather than of a single strand. The EFZs are intended to be sufficiently wide enough on both sides of a known active fault to include these known or unknown splays/strands of the fault. The purpose of the AP Act was to prohibit the location of most structures for human occupancy across the traces of active faults, thus mitigating the hazard of fault rupture.

The project site is located in a State of California (1979) EFZ related to surface ruptures caused by the 1971 San Fernando (Sylmar) Earthquake. Figure 5 shows the site location relative to the mapped EFZ.

7. METHODOLOGY FOR GEOLOGIC IMPACT AND HAZARD ANALYSES

As outlined by the CEQA, the proposed project has been evaluated with respect to potential geologic and seismic impacts associated with the project. Evaluation of impacts due to potential geologic and seismic hazards is based on our review of readily available published geotechnical literature and geologic and seismic data pertinent to the proposed project, and site reconnaissance. The references and data reviewed include, but are not limited to, the following:

- Geologic maps and fault maps from the CDMG, CGS and USGS.
- Topographic maps from the USGS.
- Seismic data from the CGS and USGS.
- Geotechnical publications by the CDMG, CGS and USGS.
- State of California EFZ Maps (formerly Alquist-Priolo Special Studies Zones Maps).
- State of California Seismic Hazards Zones Reports and Maps.
- Fault rupture studies by URS Corporation (URS) and AMEC Environment & Infrastructure, Inc. (AMEC).
- Aerial photographs.
- Safety Element of the Los Angeles City General Plan.

8. THRESHOLDS OF SIGNIFICANCE

According to Appendix G of the CEQA guidelines (California Environmental Resources Evaluation System [CERES], 2005a, 2005b), a project is considered to have a geologic impact if its implementation would result in or expose people/structures to potential substantial adverse effects, including the risk of loss, injury, or death from hazards involving one or more of the geologic conditions presented in Table 2. Table 2 also presents the impact potential as defined by CEQA associated with each of the geologic conditions discussed in the following sections.

Table 2 – Summary of Potential Geologic Impacts/Hazards

Geologic Condition	Impact Potential[1]			
	Potentially Significant Impact	Less than Significant with Mitigation Incorporation	Less than Significant Impact	No Impact
Earthquake Fault Rupture	x			
Strong Seismic Ground Shaking		x		
Seismically Related Ground Failure, Including Liquefaction		x		
Landslides		x		
Substantial Soil Erosion		x		
Subsidence			x	
Compressible/Collapsible Soils		x		
Expansive Soils		x		
Groundwater and Excavations		x		

Note:
[1]Reference: CERES, 2005, Appendix G – Environmental Checklist Form, Final Text, dated October 26. Website: http://ceres.ca.gov/topic/envlaw/ceqa/guidelines/appendices.html

9. CONCLUSIONS AND RECOMMENDATIONS FOR POTENTIAL GEOLOGIC AND SEISMIC IMPACTS/HAZARDS

Based on our review of geologic and seismic background information, and geotechnical reconnaissance, implementation of the proposed master plan project is not anticipated to have a significant impact on the geologic environment. However, future development at the project site may be subjected to potential impacts from geologic and seismic hazards. Potential impacts on the proposed project based on our preliminary evaluation are provided in the following sections.

The potential geologic and seismic hazards described below may be addressed by employing sound engineering practice in the design and construction of the proposed project elements. This practice includes the implementation of appropriate geotechnical recommendations prior to the design and construction of the facilities at the project site. Typical methods to reduce potential hazards that may be encountered during the construction of improvements are described in the following sections. Where appropriate, recommendations to mitigate potential geologic hazards are provided. Prior to design of the planned improvements, detailed subsurface geotechnical evaluation should be performed to address the site-specific conditions at the locations of the planned improvements and to provide detailed recommendations for design and construction.

9.1. Surface Fault Rupture

Surface fault rupture is the offset or rupturing of the ground surface by relative displacement across a fault during an earthquake. There could be potentially significant impacts associated with siting project improvements across the trace of an active fault. Damage due to fault rupture may include offset/damage to foundations and structural elements. As previously discussed, the medical center site was subjected to surface rupture and damage to structures resulting from the 1971 San Fernando Earthquake. Surface ruptures related to faulting were mapped along the trace of the Olive View fault in the northwestern part of the site. In addition, other ground surface ruptures were mapped at various locations within the project site (CDMG, 1975; State of California, 1979). Due to the surface ruptures along the active Olive View fault (Santa Susana Fault Zone) from the 1971 earthquake, an EFZ was established along the fault. Much of the project site is located within the EFZ (Figure 5).

Fault trenching studies to evaluate the presence and relative activity of faulting at portions of the site have been conducted by other geotechnical consultants on behalf of the LACDPW (URS, 2008; URS, 2010; AMEC, 2013). URS conducted a fault trenching study in 2008 for the proposed Psychiatric Urgent Care Facility in the southern part of the site, and conducted a fault trenching study in 2010 for the proposed Day Care Facility in the southern part of the site. Their studies generally involved performance of subsurface trenches and test pits adjacent to the facilities to explore for the presence of active faulting. URS generally concluded that the trenches exposed older (Pleistocene) alluvium that was not cut by active (Holocene epoch [last 11,000 years]) faulting. Based on their conclusions, URS established a "trench shadow corridor" area for the investigated sites that is free of active faulting and feasible for permitting structures intended for human occupancy in accordance with the provisions of the AP Act.

Based on a figure included in the preliminary project plans (SmithGroup JJR, 2015), AMEC prepared a map in 2013 titled "Preliminary Planning Map for Subsurface Fault Rupture Hazards" as part of the master planning study for the medical center site. The map shows a summary of fault trench locations performed by AMEC and other geotechnical consultants at the site. The map illustrates color-coded areas of the project site where fault trenching has "cleared" areas of active faulting for "potential building sites"; and areas where additional fault trenching can be performed and is "required." The map also illustrates many areas of the site located within the EFZ where fault trenching may not be feasible, including the location of the existing hospital building.

The preliminary project plans indicate that additional fault trenching will be needed in the future to evaluate buildable zones for the master planning scheme (SmithGroup JJR, 2015). Future geologic investigations to evaluate the location and relative activity of potentially active fault splays at the site and the feasibility of locating future site improvements should be conducted by geologic consultants for the LACDPW prior to design of structure locations. The fault investigations should be conducted by a California State Certified Engineering Geologist and should typically involve participation by experts in the field of

paleoseismology, geomorphology and soil stratigraphy. The fault investigations should be reviewed by the CGS. Other methods to explore for the presence of active faulting might include geophysical studies such as high resolution seismic reflection, seismic refraction, ground penetrating radar, and gravity and/or magnetic profiling.

Where the fault investigations find that no active fault splays are present at building sites, proposed structures intended for human occupancy may be feasible for permitting in accordance with the provisions of the AP Act. Where active fault splays are found at the project site, the locations may be deemed not feasible for construction of occupied structures, and appropriate building setback zones will need to be established.

The impacts related to surface rupture at the project site are potentially significant, but can be reduced with methods such as detailed fault investigations to clear sites of active faulting, including review by the CGS, and/or development of structural setback zones.

9.2. Seismic Ground Shaking

Earthquake events from one of the regional active or potentially active faults near the project area could result in strong ground shaking which could affect the project site. The level of ground shaking at a given location depends on many factors, including the size and type of earthquake, distance from the earthquake, and subsurface geologic conditions. The type of construction also affects how particular structures and improvements perform during ground shaking.

The 2013 California Building Code (CBC) recommends that the design of structures be based on spectral response accelerations in the direction of maximum horizontal response (5 percent damped) having a 1 percent probability of collapse in 50 years. Such spectral response accelerations represent the Risk-Targeted Maximum Considered Earthquake (MCE_R) ground motion. The horizontal peak ground acceleration (PGA) that corresponds to the MCE_R for the site was calculated as 1.20g using the USGS (2014b) seismic design tool (web-based). The mapped PGA (PGA_M) which is defined as the Maximum Considered Earthquake Geometric Mean (MCE_G) PGA with adjustment for site class effects in

accordance with the American Society of Civil Engineers (ASCE) 7-10 Standard was estimated to be 1.14g using the USGS (2014b) seismic design tool in accordance with the ASCE 7-10 Standard. These estimates of ground motion do not include near-source factors that may be applicable to the design of structures on site.

This potential level of ground shaking could have high impacts on project improvements without appropriate design mitigation, and should be considered during the detailed design phase of the project. Mitigation of the potential impacts of seismic ground shaking can be achieved through project structural design. Structural elements of planned improvements can be designed to resist or accommodate appropriate site-specific ground motions and to conform to the current seismic design standards, including CBC and County of Los Angeles building regulations. Appropriate structural design and mitigation techniques would reduce the impacts related to seismic ground shaking.

9.3. Liquefaction

Liquefaction is the phenomenon in which loosely deposited granular soils located below the water table undergo rapid loss of shear strength due to excess pore pressure generation when subjected to strong earthquake-induced ground shaking. Ground shaking of sufficient duration results in the loss of grain-to-grain contact due to rapid rise in pore water pressure causing the soil to behave as a fluid for a short period of time. Liquefaction is known generally to occur in saturated or near-saturated cohesionless soils at depths shallower than 50 feet. Factors known to influence liquefaction potential include composition and thickness of soil layers, grain size, relative density, groundwater level, degree of saturation, and both intensity and duration of ground shaking. The potential damaging effects of liquefaction include differential settlement, loss of ground support for foundations, ground cracking, heaving and cracking of slabs due to sand boiling, buckling of deep foundations due to liquefaction-induced ground settlement.

According to Seismic Hazard Zones Maps published by the State of California (CDMG, 1999), a portion of the project area in the northeastern part of the site near the mouth of Wilson Canyon is located within an area considered susceptible to liquefaction (Figure 6).

This portion of the site within the lower-lying canyon bottom area was mapped as potentially liquefiable due to the tendency for shallower groundwater and loose, younger alluvial sediments to accumulate in canyon bottoms. However, the overall historic high groundwater levels at the site are deep, on the order of 120 feet or more below the ground surface, and much of the project site is not considered susceptible to liquefaction. Areas of the project site mapped as being underlain by rock formations are not susceptible to liquefaction.

Assessment of the liquefaction potential at the project site should be evaluated by subsurface geotechnical exploration prior to detailed design and construction of project improvements and incorporated into the design, as appropriate. Structural design and mitigation techniques should be developed to reduce the potential impacts of liquefaction. Therefore, the potential impacts due to liquefaction are considered to be less than significant with incorporation of techniques such as structural design, in-situ ground modification, or supporting foundations with piles at depths designed specifically for seismically induced settlement.

9.4. Landslides

Landslides, slope failures, and mudflows of earth materials generally occur where slopes are steep and/or the earth materials are too weak to support themselves. Earthquake-induced landslides may also occur due to seismic ground shaking. Landslides can consist of rockfalls, shallow slumps, mudflows and erosional failures, or deeper-seated rotational and block failures. Shallow failures are typically caused by high incident rainfall or concentrated surface runoff conditions that weaken surficial materials. Rotational slides and block-type slides form deeper within the ground, and are generally related to discontinuities in the rock that manifest into a sliding surface. Rainfall and other water infiltration into the ground can exacerbate and initiate these deeper sliding conditions. Landslides can also be caused by construction activities, such as grading that undercuts the toe of a slope or induces loading at the top of a slope.

Existing landslides are not shown on the northern hillside areas of the site on the geologic maps reviewed. However, the northern portion of the project site contains steep, natural

slopes that have been subjected to fires. In addition, portions of the slopes on the northern part of the site have been designated on the State Seismic Hazard Zones Map (Figure 6) as having potential for earthquake–induced landslides (CDMG, 1999). Furthermore, landslides that were caused by earthquake ground shaking were mapped at the site following the 1971 San Fernando Earthquake (CDMG, 1975).

The southern portion of the project site has shallower slope gradients and has been extensively developed and is primarily covered with pavements, hardscape and structures. The developed southern portion of the site includes some graded slopes at shallow gradients associated with landscaping and open space areas.

Due to the presence of steep hillside areas and previously mapped earthquake–induced landslides in the northern portion of the site, there is a potential for landslides, mudflows or seismic slope instability to impact the proposed project site. Detailed assessment of the landslide and mudflow potential in areas of project improvements should be performed prior to design and construction of improvements and incorporated into the design, as appropriate, to reduce the construction and operational impacts related to landslides. Therefore, the potential impacts due to landslides are considered to be low with incorporation of recommendations discussed below.

To evaluate the potential for landslides, surficial slope failures and/or mudflows to affect future planned improvements, evaluation may include review of geologic maps showing the locations of previous mapped landslides and potential earthquake-induced landslide zones relative to these project components. Where appropriate in close proximity to potential landslide areas, surface reconnaissance to map the locations of landslides and/or subsurface evaluation could be performed. Evaluation of the landslide and surficial slope failure hazard would be performed during design and prior to construction so that, in the event the hazard exists, common design and construction practices can be implemented.

Common construction practices for potentially unstable slope conditions and for areas with the potential for landslides and surficial slope failures include: excavating potentially

unstable material resulting in a flatter and more stable slope configuration; reduction of landslide driving forces by removal of earth materials at the top of the landslide; construction of buttress and/or stabilization fills; construction of retaining walls, installation of rock bolts on the face of the slope, or installation of protective wire mesh on the slope face; and/or the construction of debris impact walls at the toe of the slope to contain rock fall debris. Graded slopes created for future developments within the project site should also be designed to reduce the potential for landslides or mudflows.

9.5. Soil Erosion

Erosion refers to the process by which soil or earth material is loosened or dissolved and removed from its original location. Erosion can occur by varying processes and may occur at the project site where soil or rock is exposed to wind or moving water (both rainfall and surface runoff). The processes of erosion are generally a function of material type, terrain steepness, rainfall or irrigation levels, surface drainage conditions, and general land uses. Review of geologic maps and site reconnaissance indicate that surface exposures at the site are comprised of variable types of soil and rock materials. In addition, the site comprises varied topographic terrain ranging from gentle to steep gradients. In a general sense, steeper slope gradients, such as in the northern portion of the site, provide a higher erosion potential for similar soil types.

Sandy soils typically have low cohesion, and have a relatively higher potential for erosion from surface runoff when exposed in slopes or utilized near the face of fill embankments. Surface soils with higher amounts of clay tend to be less erodible as the clay acts as a binder to hold the soil particles together. Additionally, large portions of the site, including the eastern and northern portions, are currently undeveloped and subject to potential water- and wind-related soil erosion. Soil erosion and soil runoff from natural drainages and non-vegetated areas on the adjacent slopes has the potential to impact the site.

Future construction at the project site would result in ground surface disruption during excavation, grading, and trenching that would create the potential for erosion to occur. However, the erosion potential during construction can be minimized with prudent site

management practices during construction. A Storm Water Pollution Prevention Program (SWPPP) incorporating Best Management Practices (BMPs) for erosion control should be prepared prior to the start of construction in accordance with governing agencies. Following development of site improvements, erosion can be minimized by long-term erosion management practices and drainage provisions incorporated into the design and maintenance of the project. Potential soil erosion related to project site development is considered to have a low impact with incorporation of appropriate design and construction practices.

With the implementation of BMPs incorporated in the project SWPPP during planned construction, water- and wind-related soil erosion can be limited and managed within construction site boundaries. Examples of these procedures could include surface drainage measures for erosion due to water, such as the use of erosion prevention mats or geofabrics, silt fencing, sandbags and plastic sheeting, and temporary drainage devices. Positive surface drainage should be accommodated at project construction sites to allow surface runoff to flow away from site improvements or areas susceptible to erosion. To reduce wind-related erosion, wetting of soil surfaces and/or covering exposed ground areas and soil stockpiles could be considered during construction operations, as appropriate.

During long-term operation of future developments at the project site, soil erosion can be mitigated through site drainage design and maintenance practices. Design procedures can be performed to reduce soil erosion such as appropriate surface drainage design of roadways and facilities to provide for positive surface runoff. Design should address reducing concentrated run-off conditions that could cause erosion and affect the stability of project improvements.

9.6. Subsidence

Subsidence is characterized as a sinking of the ground surface relative to surrounding areas, and can generally occur where deep soil deposits are present. Subsidence in areas of deep soil deposits is typically associated with regional groundwater withdrawal or other fluid withdrawal from the ground such as oil and natural gas. Subsidence can result in the development of ground cracks and damage to site improvements.

The City of Los Angeles and County of Los Angeles references do not indicate mapped areas of subsidence. Historic subsidence is not known to have occurred or been reported in the site region. The Safety Element of the Los Angeles City General Plan (1996) includes information regarding the City's program to preclude potential subsidence within the City. Subsurface extraction activities within the City of Los Angeles are regulated by the Oil Drilling District procedures, which contain provisions for monitoring and imposing measures to preclude subsidence related to oil and gas extraction. Therefore, the potential for subsidence in the Project area is relatively low.

9.7. Compressible/Collapsible Soils

Compressible soils are generally comprised of soils that undergo decrease in volume when exposed to new loading, such as fill or foundation loads. Soil collapse is a phenomenon where the soils undergo a significant decrease in volume upon increase in moisture content, with or without an increase in external loads. Buildings, structures and other improvements may be subject to excessive settlement-related distress when compressible soils or collapsible soils are present.

Based on our background review, the project area is underlain by fill soils, alluvial sediments, and sedimentary rock formations. The alluvial deposits underlying the site are generally unconsolidated to weakly consolidated, based on the young nature of the deposits, reflecting a depositional history without substantial loading, and may be subject to collapse. Older, undocumented fill soils related to previous site development are considered potentially compressible/collapsible. Due to the presence of potentially compressible/collapsible soils at the site, there is a potential for differential settlement to cause damage to project improvements. The potential impacts of settlement are significant without appropriate mitigation during detailed project design and construction.

Since future development within the project area will involve construction of new improvements that would load the existing soils, potential settlement and/or collapsible soils will be a consideration in the detailed design and construction of project improvements. Assessment of soil settlement should be performed prior to detailed design and construction

of project improvements and mitigation techniques should be developed, as appropriate, to reduce the impacts related to settlement.

To evaluate the potential for settlement to affect future project components, surface reconnaissance and subsurface evaluation should be performed. During the detailed design phase of the project, site-specific geotechnical evaluations should be performed to assess the settlement potential of the on-site natural soils and undocumented fill. This may include detailed surface reconnaissance to evaluate site conditions, and drilling of exploratory borings or test pits and laboratory testing of soils, where appropriate, to evaluate site conditions.

Examples of possible mitigation measures for soils with the potential for settlement include removal of the compressible/collapsible soil layers and replacement with compacted fill, surcharging to induce settlement prior to construction of improvements, allowing for a settlement period after or during construction of new fills, and specialized foundation design, including the use of deep foundation systems to support structures. Various in-situ soil improvement techniques are also available, such as dynamic compaction (heavy tamping) or compaction grouting.

9.8. Expansive Soils

Expansive soils include clay minerals that are characterized by their ability to undergo significant volume change (shrink or swell) due to variations in moisture content. Sandy soils are generally not expansive. Changes in soil moisture content can result from rainfall, irrigation, pipeline leakage, surface drainage, perched groundwater, drought, or other factors. Volumetric change of expansive soil may cause excessive cracking and heaving of structures with shallow foundations, concrete slabs-on-grade, or pavements supported on these materials.

Based on our background review and site reconnaissance, the near-surface soils in the project site are predominantly comprised of sandy, coarse-grained materials. These soils typically have a low expansion potential. However, clayey soils may be present in areas of

the project site. Constructing project improvements on expansive soils could have a significant impact on future improvements.

Assessment of the potential for expansive soils should be performed during the design phase of the project through subsurface exploration and mitigation techniques should be developed, as appropriate, to reduce the impacts related to expansive soils. The potential impacts due to expansive soils would be reduced with incorporation of techniques such as over-excavation and replacement with non-expansive soil, soil treatment, moisture management, and/or specific structural design for expansive soil conditions developed during design of the project.

9.9. Groundwater and Excavations

The depth of historic high groundwater at the project site is on the order of 120 feet below the ground surface (CDMG, 1998). Based on the groundwater information reviewed from the GeoTracker website, groundwater levels from 1993 to 2013 in the Sylmar community approximately 1½ miles south of the project site have ranged from approximately 125 to 200 feet below the ground surface (State of California, 2016).

Proposed future improvements at the project site are anticipated to consist of excavations and site grading for new structures. Based on the deep groundwater levels reported in the site region and the anticipated depth of construction activities, groundwater may not have a significant impact on excavations for the planned project improvements. However, areas of shallower perched groundwater may be encountered during excavations, and, if encountered, could have an impact on the construction activities at the sites.

Wet or saturated soil conditions encountered in excavations during construction for the project can cause instability of the excavations, and present a constraint to construction activities. Excavations in areas with shallow perched groundwater may need to be cased/shored and/or dewatered to maintain stability of the excavations and adjacent improvements and provide access for construction.

Groundwater levels may be influenced by seasonal variations, precipitation, irrigation, soil/rock types, groundwater pumping, and other factors and are subject to fluctuations. On-site infiltration of storm water related to LID guidelines may have an impact on existing and planned site improvements and should be evaluated during the detailed design phase of the project.

Further study, including subsurface exploration, should be performed during the detailed design phase of planned improvements to evaluate the presence of seepage and/or perched groundwater, and to evaluate the potential for stormwater infiltration at the site, and the potential impacts on design and construction of project improvements. Mitigation techniques should be developed, as appropriate, to reduce the impacts related to groundwater. The potential impacts due to groundwater would be reduced with incorporation of techniques such as casing, shoring and/or construction dewatering.

10. LIMITATIONS

The purpose of this study was to evaluate geotechnical conditions and potential geologic and seismic hazards at the site using readily available geotechnical data, site reconnaissance, and to provide a preliminary geotechnical report which can be utilized in the preparation of an EIR for the project.

The geotechnical analyses presented in this report have been conducted in general accordance with current engineering practice and the standard of care exercised by reputable geotechnical consultants performing similar tasks in this area. No other warranty, implied or expressed, is made regarding the conclusions, recommendations, and professional opinions expressed in this report. Our preliminary conclusions and recommendations are based on a review of readily available geotechnical literature, geologic and seismic data, and an analysis of the observed conditions. Variations may exist and conditions not observed or described in this report may be encountered.

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SCALE IN FEET

0 2,400 4,800

NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

Ninyo & Moore	SITE LOCATION	FIGURE
PROJECT NO. 209600002 / DATE 3/16	OLIVE VIEW - UCLA MEDICAL CENTER MASTER PLAN 14445 OLIVE VIEW DRIVE SYLMAR, CALIFORNIA	1

209600002_SL.dwg 15:39:19 02/19/2016 GK

REFERENCE: SMITH GROUP JJR, 2015, OLIVE VIEW-UCLA MEDICAL CENTER CAMPUS MASTER PLAN, APPENDIX, PREPARED FOR COUNTY OF LOS ANGELES, DRAFT PRINT DATED AUGUST 26.

LEGEND	
— — · — — · —	SITE BOUNDARY

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NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

Ninyo & Moore		SITE AERIAL VIEW	FIGURE
PROJECT NO.	DATE	OLIVE VIEW - UCLA MEDICAL CENTER MASTER PLAN 14445 OLIVE VIEW DRIVE SYLMAR, CALIFORNIA	2
209600002	3/16		

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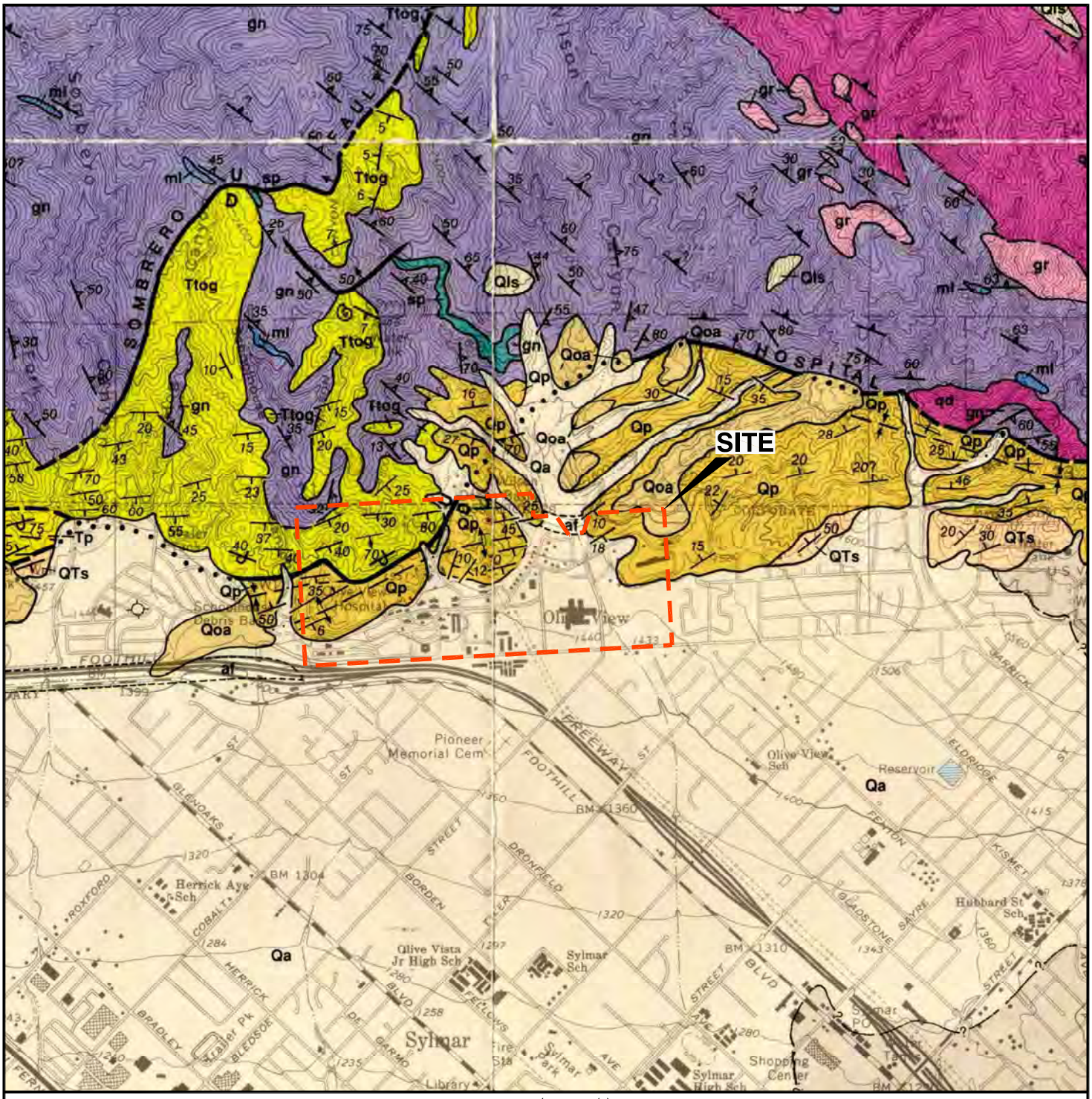

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NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

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Qa	ALLUVIUM	gn	MENDENHALL GNEISS
Qoa	OLDER ALLUVIUM		GEOLOGIC CONTACT
Qp	PACOIMA FORMATION GRAVEL AND SAND		FAULT; DOTTED WHERE CONCEALED
		80	STRIKE AND DIP OF BEDDING
			ANTICLINE

Ninyo & Moore

REGIONAL GEOLOGY

FIGURE 3

PROJECT NO.	DATE
209600002	3/16

OLIVE VIEW - UCLA MEDICAL CENTER MASTER PLAN
14445 OLIVE VIEW DRIVE
SYLMAR, CALIFORNIA

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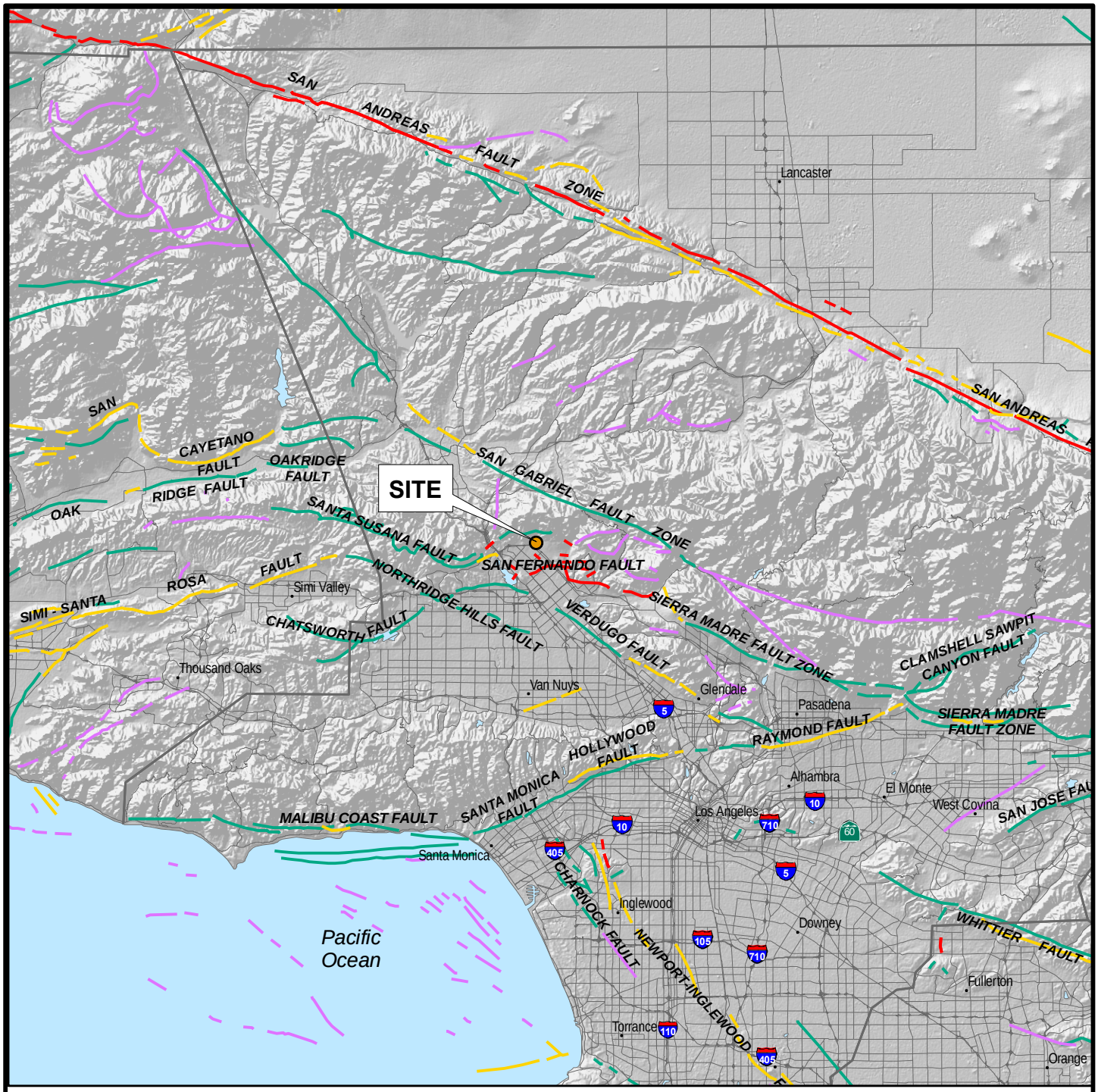

GIS DATA SOURCE: CALIFORNIA GEOLOGICAL SURVEY (CGS); ENVIRONMENTAL SYSTEMS RESEARCH INSTITUTE (ESRI)
REFERENCE: JENNINGS, C.W. AND BRYANT, W.A., 2010, FAULT ACTIVITY MAP OF CALIFORNIA.

LEGEND

FAULT ACTIVITY:

- HISTORICALLY ACTIVE
- LATE QUATERNARY
- HOLOCENE ACTIVE
- QUATERNARY
- COUNTY BOUNDARIES

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NOTE: DIMENSIONS, DIRECTIONS, AND LOCATIONS ARE APPROXIMATE

Ninyo & Moore	FAULT LOCATIONS	FIGURE
PROJECT NO. 209600002	DATE 3/16	OLIVE VIEW - UCLA MEDICAL CENTER MASTER PLAN 14445 OLIVE VIEW DRIVE SYLMAR, CALIFORNIA	4

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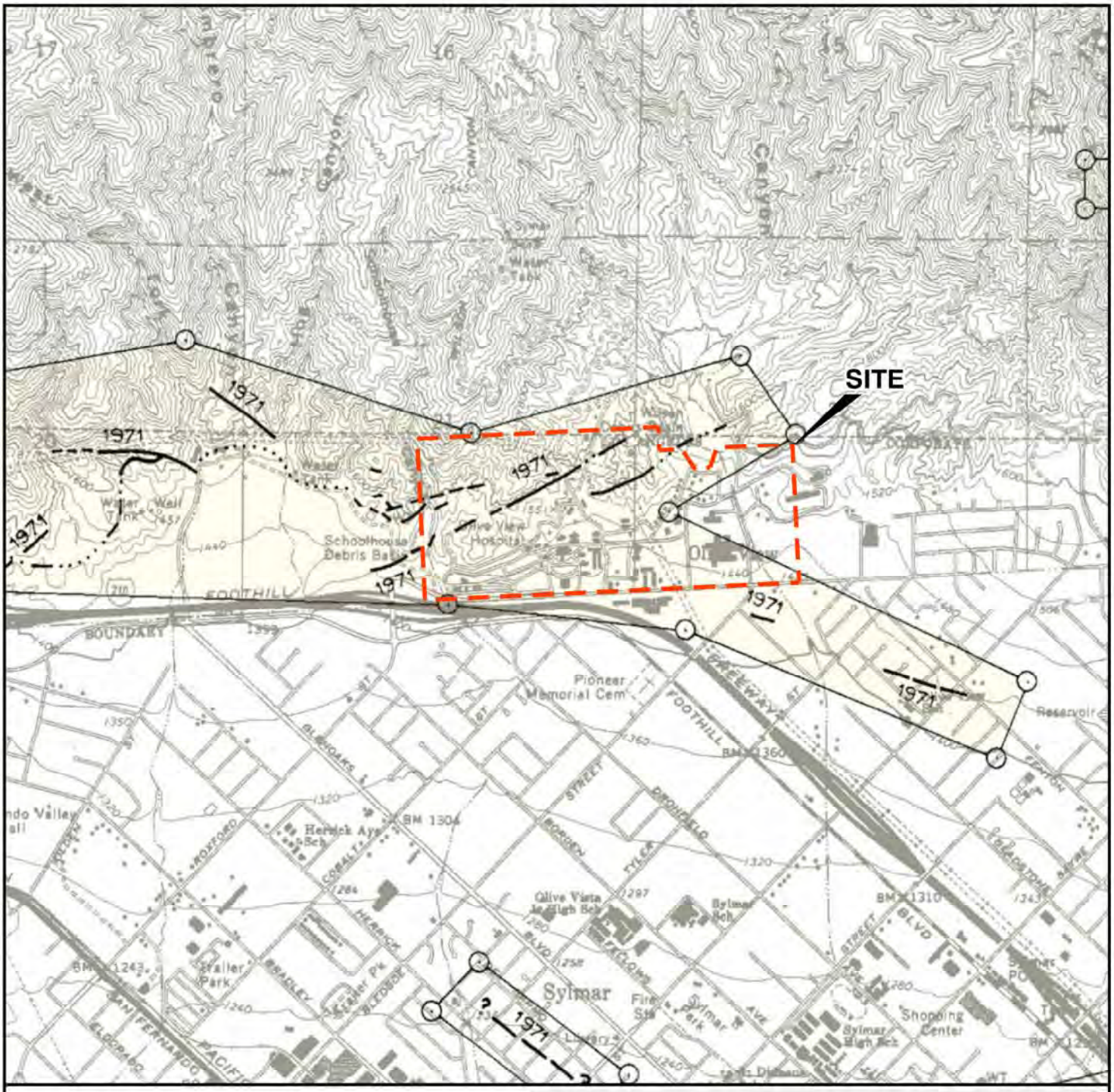

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NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

LEGEND

Potentially Active Faults

1906 C

Faults considered to have been active during Holocene time and to have a relatively high potential for surface rupture, solid line where accurately located, long dash where approximately located, short dash where inferred, dotted where concealed; query (?) indicates additional uncertainty. Evidence of historic offset indicated by year of earthquake-associated event or C for displacement caused by creep or possible creep.

Special Studies Zone Boundaries

These are delineated as straight-line segments that connect encircled turning points so as to define special studies zone segments.

Seaward projection of zone boundary.

Ninyo & Moore

PROJECT NO.	DATE
209600002	3/16

EARTHQUAKE FAULT ZONES

OLIVE VIEW - UCLA MEDICAL CENTER MASTER PLAN
14445 OLIVE VIEW DRIVE
SYLMAR, CALIFORNIA

FIGURE

5

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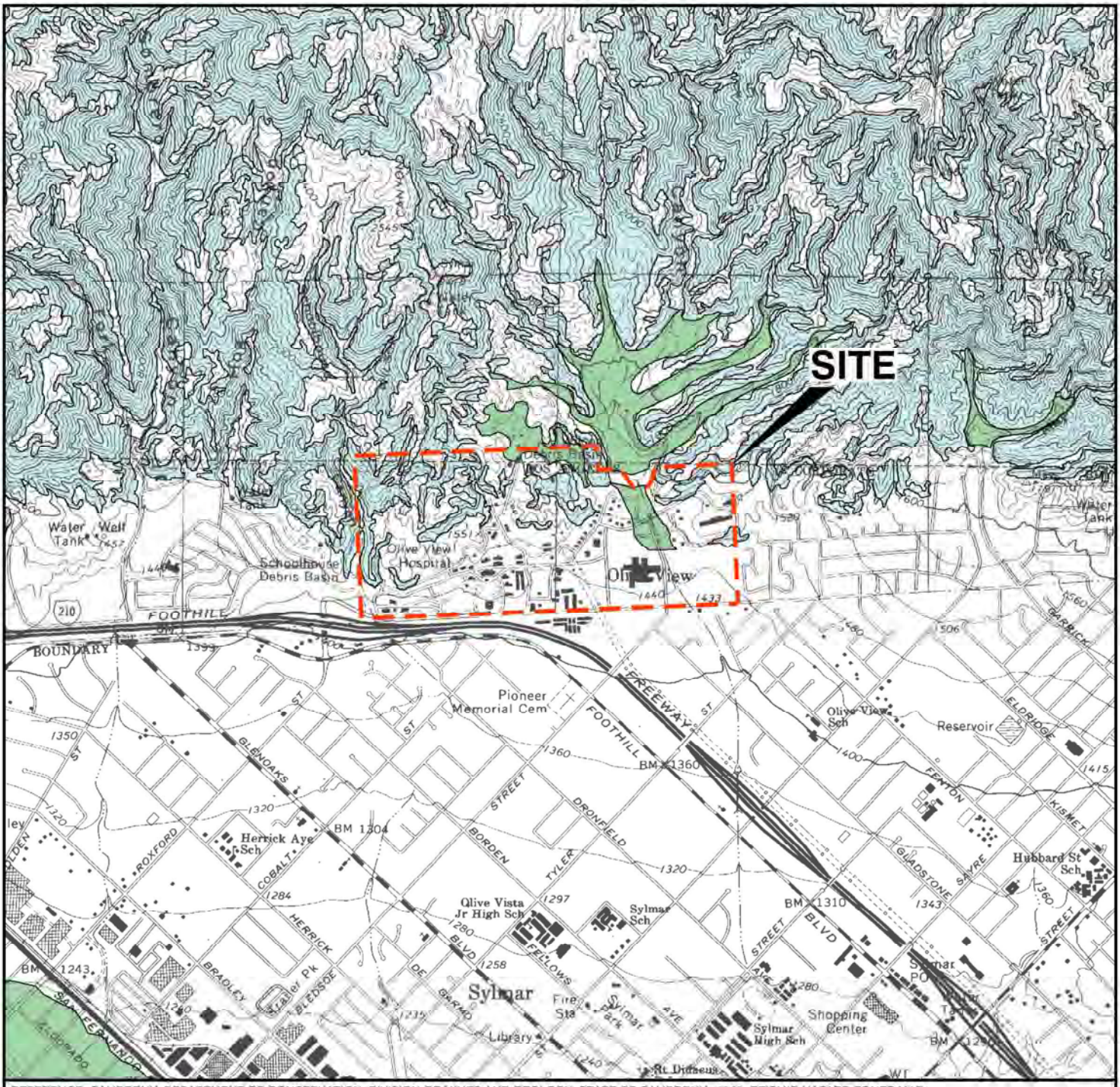

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NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

LEGEND

EARTHQUAKE-INDUCED LANDSLIDES

Areas where previous occurrence of landslide movement, or local topographic, geological, geotechnical and subsurface water conditions indicate a potential for permanent ground displacements such that mitigation as defined in Public Resources Code Section 2693(c) would be required.

LIQUEFACTION:

Areas where historic occurrence of liquefaction, or local geological, geotechnical and groundwater conditions indicate a potential for permanent ground displacements such that mitigation as defined in Public Resources Code Section 2693(c) would be required.

Ninyo & Moore

PROJECT NO.	DATE
209600002	3/16

SEISMIC HAZARD ZONES

OLIVE VIEW - UCLA MEDICAL CENTER MASTER PLAN
14445 OLIVE VIEW DRIVE
SYLMAR, CALIFORNIA

FIGURE

6

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APPENDIX M-LOS ANGELES RWQCB BASIN PLAN (CHAPTER 7) [COVER]

California Regional Water Quality Control Board
Los Angeles Region

Attachment to Resolution No. R11-013

APPENDIX N-THE GREEN VISIONS PLAN FOR 21ST CENTURY SOUTHERN CALIFORNIA (TABLE 7)

Table 7: Average Pollutant Concentrations from Eight Major Land Use Classes (LADPW 2005)

Constituent	High Density Single Family Residential	Light Industrial	Vacant	Retail/ Commercial	Multi-family Residential	Transport-ation	Education	Mixed Residential
Total Suspended Solids (mg/L)	104.7	229.4	164.7	67.4	46.4	75.4	103.0	69.1
Nitrate-N (mg/L)	1.0	0.9	1.1	0.6	1.7	0.8	0.6	0.7
Kjeldahl-N (mg/L)	2.8	3.1	0.8	3.4	1.9	1.8	1.6	2.7
Total Phosphorus (mg/L)	0.4	0.4	0.1	0.4	0.2	0.4	0.3	0.3
Dissolved Copper (ug/L)	8.4	20.2	n/m	14.6	6.8	32.7	12.8	11.5
Dissolved Lead (ug/L)	n/m	n/m	n/m	n/m	n/m	n/m	n/m	n/m
Dissolved Zinc (ug/L)	39.1	460.2	n/m	164.1	75.4	203.9	66.0	125.8
Total Copper (ug/L)	15.3	31.0	9.1	34.8	12.2	51.9	21.5	17.3
Total Lead (ug/L)	9.6	14.9	n/m	11.5	5.1	9.1	4.5	8.7
Total Zinc (ug/L)	80.4	565.6	38.8	238.5	134.9	279.5	123.7	184.9
Fecal Coliform (MPN/100 mL)	1085353.7	653070.4	2174.8	1071656.5	n/m	1340166.7	n/m	n/m

Appendix H2

Hydrology Technical Memorandum Addendum

HYDROLOGY TECHNICAL MEMORANDUM ADDENDUM

Project: **Los Angeles County UCLA-Olive View Medical Center EIR**
Client: ICF International/Los Angeles County
Prepared By: Jennifer J. Walker, P.E., D.WRE, CFM, QSD
Date: April 26, 2019
Purpose: Addendum to Memorandum of Hydrology and Water Quality Results

Note: Draft memorandum released under the authority of Jennifer J. Walker, P.E. (C77079), D.WRE, CFM on 4/26/2019 and should not be used for design or construction.

The purpose of this addendum to the hydrology technical memorandum is to summarize hydrology and water quality potential for impacts related to the revised project description contained in Chapter 2 of the April, 2019 revision to the *Olive View-UCLA Medical Center Campus Master Plan Environmental Impact Report (EIR)*. The primary changes to the project description documented in Chapter 2 of the *Master Plan EIR* are changes in proposed buildings and phasing, as described below. The project description includes refinements to the land use and cover type compared to the original hydrology technical memorandum; however, this did not result in significant changes in proposed project area, Tier 1/Tier 2 boundaries, drainage areas, or type of proposed land use.

For clarity, only those exhibits relevant to the updated project description are included with this addendum to the hydrology memorandum. Exhibit 6 illustrates drainage area boundaries for Drainage Area 1 (DA 1) and Drainage Area 2 (DA 2) within Tier 1 based on current data and the updated project description. Exhibits 7D and 8 illustrate proposed land use within Tier 1 and soils within Tier 1 and Tier 2 of the project.

The goals established for this project remain unchanged and include:

- ✓ Meet City of Los Angeles Low Impact Development (LID) and stormwater treatment criteria;
- ✓ Use LID to reduce proposed conditions peak flows and runoff volumes to below existing conditions;
- ✓ Simulate undeveloped conditions through use of infiltration and groundwater recharge across the project site.

Consistent with the original hydrology technical memorandum, the project proposes to meet minimum LID criteria contained in the City of Los Angeles *Developed Best Management Practices Handbook, Low Impact Development Manual, Part B Planning Activities*, 4th Edition, published June 2011 (*LID Manual*). The Low Impact Development Plan from the *Master Plan* illustrates the location of the following LID features at the site:

- Bioretention;
- Permeable Pavement;
- Dry Wells (now included as a potential parking lot LID feature).

Due to the sandy and relatively well-drained soils within Tier 1 and Tier 2 of the project (Exhibit 8), all three of these LID features are expected to perform similarly in terms of reduction in peak flows and runoff volume to meet minimum LID criteria.

Exhibit 6 compares the original Tier 1, project, and drainage area boundaries to the revised boundaries. Changes in the Tier 1 boundary and Drainage Area 1 (eastern drainage area) are due to refinement of boundary data than at the time of the original study as opposed to proposed project changes. Two versions of Drainage Area 2 are presented, with and without the addition of the Materials Management building to the west of and adjacent to Tier 1 that is included in the proposed project description in Chapter 2 of the *Master Plan EIR*. As shown on Exhibit 6 and in Table 1, the revised drainage area associated with DA 1 is 1.7 ac larger than the original DA 1 and the revised drainage area associated with DA 2 is 4.4 ac greater than the original DA 2.

TABLE 1: ORIGINAL AND REVISED DRAINAGE AREAS AND IMPERVIOUS COVER

Drainage Area	Original			Revised			Difference		
	Area (ac)	% Impervious Existing	% Impervious Proposed	Area (ac)	% Impervious Existing	% Impervious Proposed	Area (ac)	% Impervious Existing	% Impervious Proposed
1	29.4	54.6	50.0	31.1	50.7	52.3	1.7	-3.9	2.3
2	37.1	76.7	49.3	41.5	74.9	46.2	4.4	-1.8	-3.1
2 + Materials Management	37.1	76.7	49.3	43.1	75.8	48.3	6.0	-0.9	-1.0

Given the similar levels of impervious cover in existing and proposed conditions for both drainage areas, the nominal changes in impervious cover ranging from a reduction of 3.9% to an increase in 2.3% will not significantly change peak flows and runoff volumes from the original hydrology study. With the inclusion of proposed LID features, peak flows and runoff volumes will be below existing conditions for the range of events modeled with prior results ranging from a reduction of 12% in the two-year event to 16% in the 100-year event for DA 1 and 41% in the 100-year event and 100% in the two-year event for DA 2.

Likewise, there is no change to pollutants of concern or Total Maximum Daily Loads (TMDLs) for the receiving systems as compared to the original hydrology memorandum. While the revised land use plan included in Chapter 2 of the *Master Plan EIR* shows adjustments to the planned vegetation and location of impervious cover within Tier 1 (Exhibit 7D), there is no change in existing conditions land use and no significant change in the type of proposed land use consistent with a modernized medical center campus. The anticipated pollutant loads from the existing and proposed land use have not changed from the original hydrology study and the anticipated LID performance in terms of water quality and pollutant removal is also consistent with the original hydrology study.

The UCLA Medical Center-Olive View project meets established project goals:

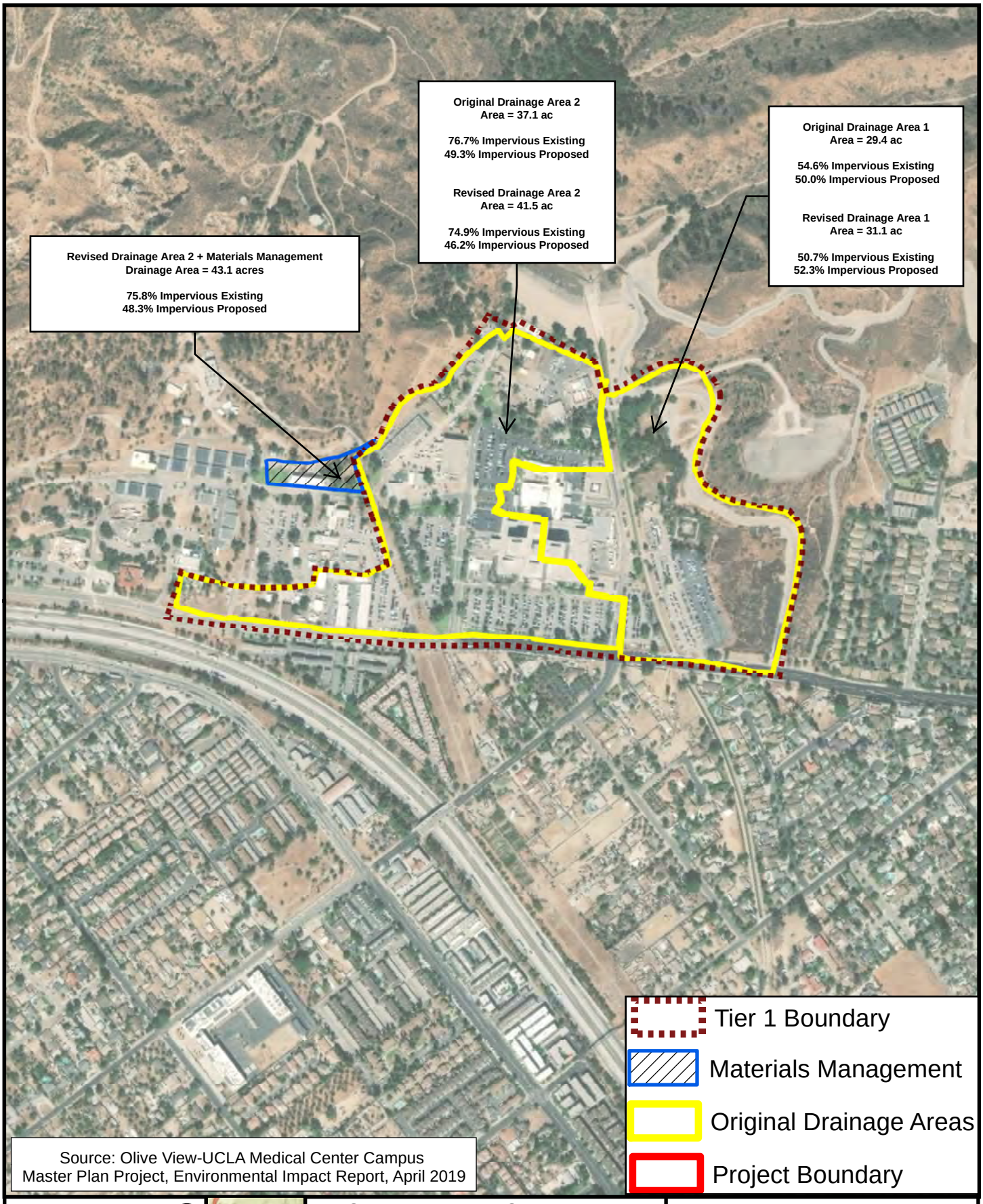
- ✓ Meet City of Los Angeles Low Impact Development (LID) and stormwater treatment criteria;
- ✓ Use LID to reduce proposed conditions peak flows and runoff volumes to below existing conditions;
- ✓ Simulate undeveloped conditions through use of infiltration and groundwater recharge across the project site.

There are no changes to hydrology and water quality thresholds, potential for impacts, or recommendations for the revised project as compared to the original hydrology study. The original recommendations for construction sequencing and Operations & Maintenance (O&M) remain unchanged.

Redevelopment of the UCLA Medical Center-Olive View site represents a significant opportunity for sustainability and LID retrofits within a densely urbanized area and for implementation of Green Infrastructure and LID for Los Angeles County. Thank-you for the opportunity to collaborate on this visionary project.

EXHIBITS

Exhibit 6 – Drainage Area Map
Exhibit 7D – Revised Land Use Map
Exhibit 8 – Soil Map



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Feet
Datum: NAD83
Units: US Feet

SITE
San

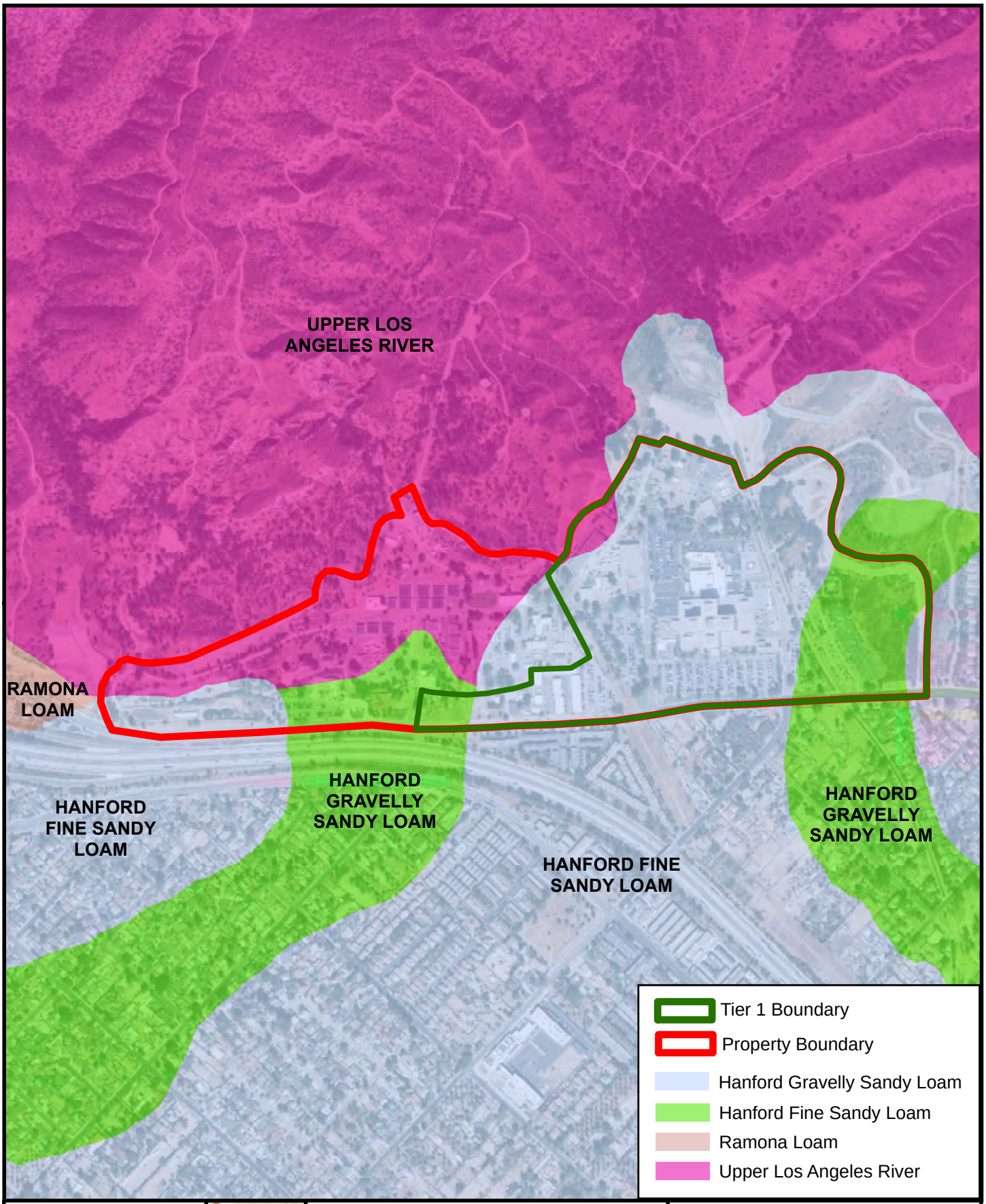
OLIVE VIEW MASTER PLAN
UCLA-LOS ANGELES
CALIFORNIA

DRAINAGE AREA MAP

Watearth
Water Resources + Green Infrastructure

Date: Apr 26, 2019

Exhibit 6



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Feet

Datum: NAD83
Units: US Feet

SITE

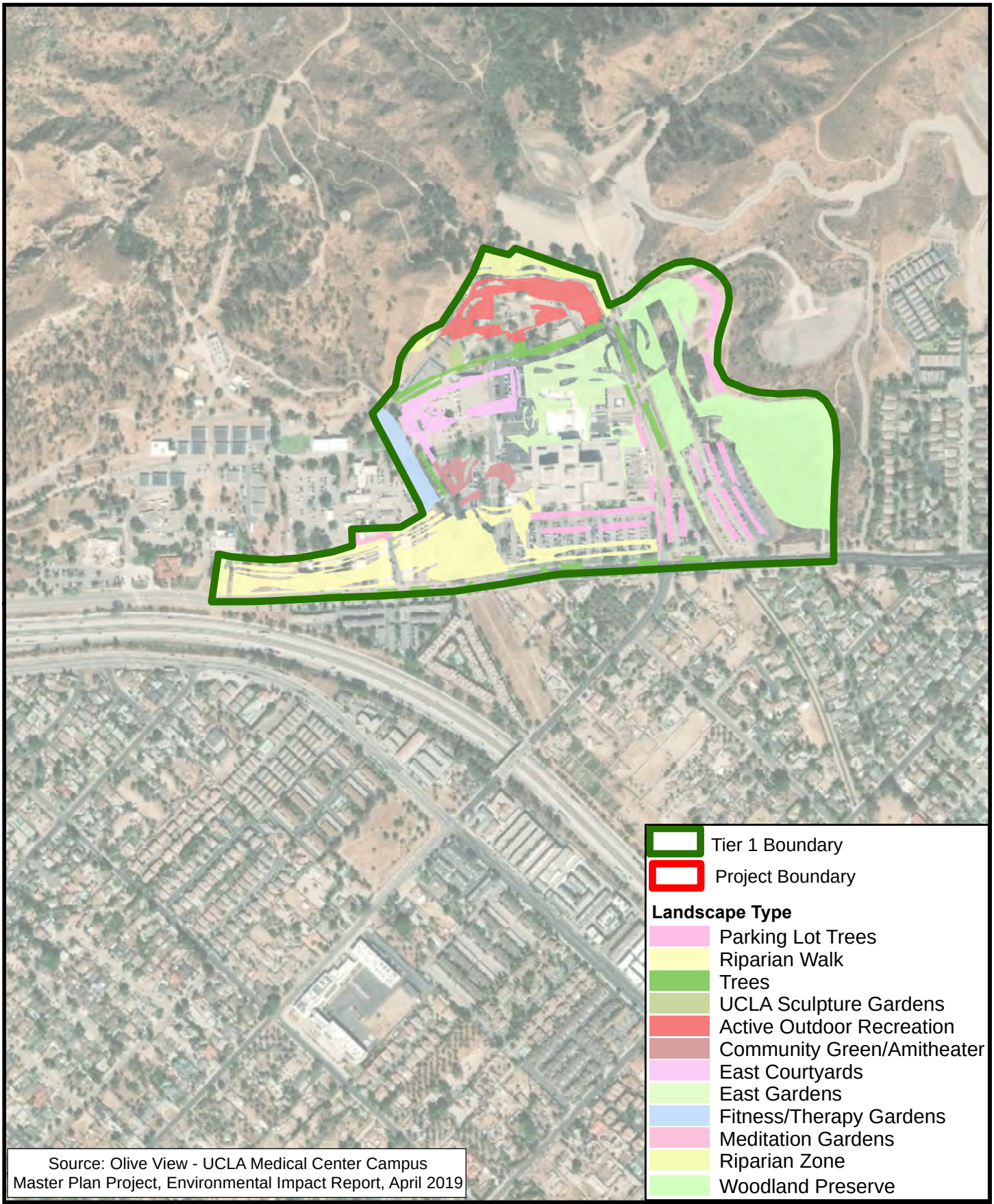
OLIVE VIEW
UCLA - LOS ANGELES
CALIFORNIA
SOIL MAP

Soil types data from Los Angeles County Department of Public Works

Watearth
Water Resources + Green Infrastructure

Date: Apr 26, 2019

Exhibit 8



Source: Olive View - UCLA Medical Center Campus Master Plan Project, Environmental Impact Report, April 2019

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Datum: NAD83
Units: US Feet

OLIVE VIEW MASTER PLAN
UCLA-LOS ANGELES
CALIFORNIA

REVISED LANDUSE MAP

Watearth
Water Resources + Green Infrastructure

Date: Apr 26, 2019

Exhibit 7D

Appendix I

Noise Analysis

This spreadsheet calculates traffic noise levels based on TNM Version 2.5 Lookup Tables.

** Type in yellow cells only.

Traffic Data:

☑ Enter ADT Traffic

☐ Enter Loudest-hour Traffic

Units:

☐ Metric

☑ English

Calculate

Link	Roadway	Segment Location	Hard or Soft Ground (H or S)	BARRIER			Total Daily Traffic Volumes (ADT)	Traffic Mix		Vehicle Speed	Sound Levels at Receiver Locations		Distance to CNEL Noise Contour (feet)			
				Present 1=yes	Height min. 7 ft. max. 32 ft.	Distance 35 ft. or 100 ft.		Number #	Description	mph max. 80	Distance feet, min. 33 max. 1000	dB CNEL	75 dB	70 dB	65 dB	60 dB
1	Bledsoe St (existing)	N of Olive View Dr	H				2,487	10	Orange County Arterials	25	50	55.4				
2	Bledsoe St (existing)	Olive View Dr to Foothill Blvd	H				4,779	10	Orange County Arterials	25	50	58.0				
3	Bledsoe St (existing)	Foothill Blvd to Glenoaks Blvd	H				4,934	10	Orange County Arterials	35	50	61.4				66
4	Bledsoe St (existing)	S of Glenoaks Blvd	H				6,217	10	Orange County Arterials	35	50	62.4				85
5	Foothill Blvd (existing)	W of Glenoaks Blvd	H				9,432	10	Orange County Arterials	45	50	67.3			82	246
6	Foothill Blvd (existing)	Glenoaks Blvd to Roxford Street	H				6,336	10	Orange County Arterials	45	50	65.6			56	172
7	Foothill Blvd (existing)	Roxford Street to Bledsoe St	H				8,329	10	Orange County Arterials	45	50	66.8			72	220
8	Foothill Blvd (existing)	Bledsoe St to Polk St	H				15,365	10	Orange County Arterials	45	50	69.4		43	131	370
9	Foothill Blvd (existing)	E of Polk St	H				19,524	10	Orange County Arterials	45	50	70.4		55	165	448
10	Glenoaks Blvd (existing)	N of Foothill Blvd	H				2,455	10	Orange County Arterials	35	50	58.5				33
11	Glenoaks Blvd (existing)	Foothill Blvd to Roxford Street	H				5,043	10	Orange County Arterials	35	50	61.5				68
12	Glenoaks Blvd (existing)	Roxford Street to Bledsoe St	H				12,520	10	Orange County Arterials	35	50	65.4			55	170
13	Glenoaks Blvd (existing)	E of Bledsoe St	H				15,590	10	Orange County Arterials	35	50	66.4			65	208
14	Olive View Drive (existing)	W of Bledsoe St	H				5,912	10	Orange County Arterials	40	50	63.8			37	117
15	Olive View Drive (existing)	E of Bledsoe St	H				4,269	10	Orange County Arterials	40	50	62.4				85
16	Polk St (existing)	N of I-210 WB Ramps	H				16,397	10	Orange County Arterials	40	50	68.2			100	296
17	Polk St (existing)	I-210 WB Ramps to I-210 EB Ramps	H				20,065	10	Orange County Arterials	40	50	69.1		40	123	351
18	Polk St (existing)	I-210 EB Ramps to Foothill Blvd	H				25,969	10	Orange County Arterials	40	50	70.2		52	158	432
19	Polk St (existing)	S of Foothill Blvd	H				18,760	10	Orange County Arterials	40	50	68.8		36	116	332
20	Roxford Street (existing)	Olive View Dr to I-210 WB Ramps	H				13,971	10	Orange County Arterials	35	50	65.9			60	188
21	Roxford Street (existing)	I-210 WB Ramps to I-210 EB Ramps	H				13,853	10	Orange County Arterials	35	50	65.8			59	187
22	Roxford Street (existing)	I-210 EB Ramps to Foothill Blvd	H				15,432	10	Orange County Arterials	35	50	66.3			64	206
23	Roxford Street (existing)	Foothill Blvd to Glenoaks Blvd	H				11,340	10	Orange County Arterials	35	50	65.0			50	155
24	Roxford Street (existing)	Glenoaks Blvd to San Fernando Rd	H				15,185	10	Orange County Arterials	35	50	66.2			64	203
25	Roxford Street (existing)	San Fernando Rd to Encinitas Ave/I-	H				18,260	11	Orange County Arterials, 2% Hvy T	35	50	67.7			91	272
26	Roxford Street (existing)	Encinitas Ave/I-5 NB Ramps to I-5 SB	H				20,829	11	Orange County Arterials, 2% Hvy T	35	50	68.3			103	305
27	San Fernando Rd (existing)	W of Roxford Street	H				8,472	11	Orange County Arterials, 2% Hvy T	40	50	65.9			60	185
28	San Fernando Rd (existing)	E of Roxford Street	H				10,142	11	Orange County Arterials, 2% Hvy T	40	50	66.6			70	217
29	Bledsoe St (existing + project)	N of Olive View Dr	H				3,702	10	Orange County Arterials	25	50	57.0				
30	Bledsoe St (existing + project)	Olive View Dr to Foothill Blvd	H				5,331	10	Orange County Arterials	25	50	58.5				34
31	Bledsoe St (existing + project)	Foothill Blvd to Glenoaks Blvd	H				4,982	10	Orange County Arterials	35	50	61.5				67
32	Bledsoe St (existing + project)	S of Glenoaks Blvd	H				6,217	10	Orange County Arterials	35	50	62.4				85
33	Foothill Blvd (existing + project)	W of Glenoaks Blvd	H				9,892	10	Orange County Arterials	45	50	67.5			86	256
34	Foothill Blvd (existing + project)	Glenoaks Blvd to Roxford Street	H				6,796	10	Orange County Arterials	45	50	65.9			60	184
35	Foothill Blvd (existing + project)	Roxford Street to Bledsoe St	H				8,329	10	Orange County Arterials	45	50	66.8			72	220
36	Foothill Blvd (existing + project)	Bledsoe St to Polk St	H				15,878	10	Orange County Arterials	45	50	69.5		45	136	379
37	Foothill Blvd (existing + project)	E of Polk St	H				19,665	10	Orange County Arterials	45	50	70.5		55	167	450
38	Glenoaks Blvd (existing + project)	N of Foothill Blvd	H				2,455	10	Orange County Arterials	35	50	58.5				33
39	Glenoaks Blvd (existing + project)	Foothill Blvd to Roxford Street	H				5,043	10	Orange County Arterials	35	50	61.5				68
40	Glenoaks Blvd (existing + project)	Roxford Street to Bledsoe St	H				12,614	10	Orange County Arterials	35	50	65.4			55	171
41	Glenoaks Blvd (existing + project)	E of Bledsoe St	H				15,732	10	Orange County Arterials	35	50	66.4			65	210

42	Olive View Drive (existing + project)	W of Bledsoe St	H		7,870	10	Orange County Arterials	40	50	65.0			50	153
43	Olive View Drive (existing + project)	E of Bledsoe St	H		4,965	10	Orange County Arterials	40	50	63.0				97
44	Polk St (existing + project)	N of I-210 WB Ramps	H		16,585	10	Orange County Arterials	40	50	68.2			102	299
45	Polk St (existing + project)	I-210 WB Ramps to I-210 EB Ramps	H		20,344	10	Orange County Arterials	40	50	69.1	40	125	355	
46	Polk St (existing + project)	I-210 EB Ramps to Foothill Blvd	H		26,341	10	Orange County Arterials	40	50	70.2	53	160	437	
47	Polk St (existing + project)	S of Foothill Blvd	H		18,760	10	Orange County Arterials	40	50	68.8	36	116	332	
48	Roxford Street (existing + project)	Olive View Dr to I-210 WB Ramps	H		17,906	10	Orange County Arterials	35	50	67.0		76	235	
49	Roxford Street (existing + project)	I-210 WB Ramps to I-210 EB Ramps	H		16,386	10	Orange County Arterials	35	50	66.6		69	218	
50	Roxford Street (existing + project)	I-210 EB Ramps to Foothill Blvd	H		16,552	10	Orange County Arterials	35	50	66.6		70	220	
51	Roxford Street (existing + project)	Foothill Blvd to Glenoaks Blvd	H		12,001	10	Orange County Arterials	35	50	65.2		53	163	
52	Roxford Street (existing + project)	Glenoaks Blvd to San Fernando Rd	H		15,752	10	Orange County Arterials	35	50	66.4		65	210	
53	Roxford Street (existing + project)	San Fernando Rd to Encinitas Ave/I-	H		18,732	11	Orange County Arterials, 2% Hvy T	35	50	67.8		93	278	
54	Roxford Street (existing + project)	Encinitas Ave/I-5 NB Ramps to I-5 SI	H		21,183	11	Orange County Arterials, 2% Hvy T	35	50	68.4		105	310	

Appendix J

Traffic Study Analysis

Draft Traffic Impact Analysis for the Olive View-UCLA Medical Center Master Plan Project

Prepared for:
ICF International

March 2019

LA16-2811

FEHR & PEERS

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1. INTRODUCTION

This technical report summarizes the results of a traffic study conducted by Fehr & Peers to evaluate the potential traffic impacts of the proposed Olive View-UCLA Medical Center Master Plan project, which is proposed on the site of the existing Olive View-UCLA Medical Center in the Sylmar community of Los Angeles. The location of the project can be seen in Figure 1.

PROJECT DESCRIPTION

The proposed Olive View-UCLA Medical Center Master Plan will guide the future development of improved medical and related support facilities within the current site boundaries. Tier I development would occur through 2035 and Tier II development would occur after 2035. The project includes both the redevelopment of existing facilities and the construction of new facilities. The existing site serves as a primary healthcare facility for County residents and a training center for medical students. The purpose of this project is to enhance the unique, and highly interactive, relationship between the clinical, educational, and research components of the Olive View-UCLA Medical Center Campus and to meet state requirements for seismic safety. The proposed campus site plan with Tier I development is shown in Figure 2 and includes the following changes to the site:

- Construction of a new ambulatory care center and demolition of a portion of the existing hospital
- Construction of a new community center
- Construction of new materials management building
- Expansion of the mental health facilities
- Demolition of campus support buildings, construction of a new administration building and consolidation of administrative activities within the new building
- Demolition of the existing central plant and construction of the new central plant

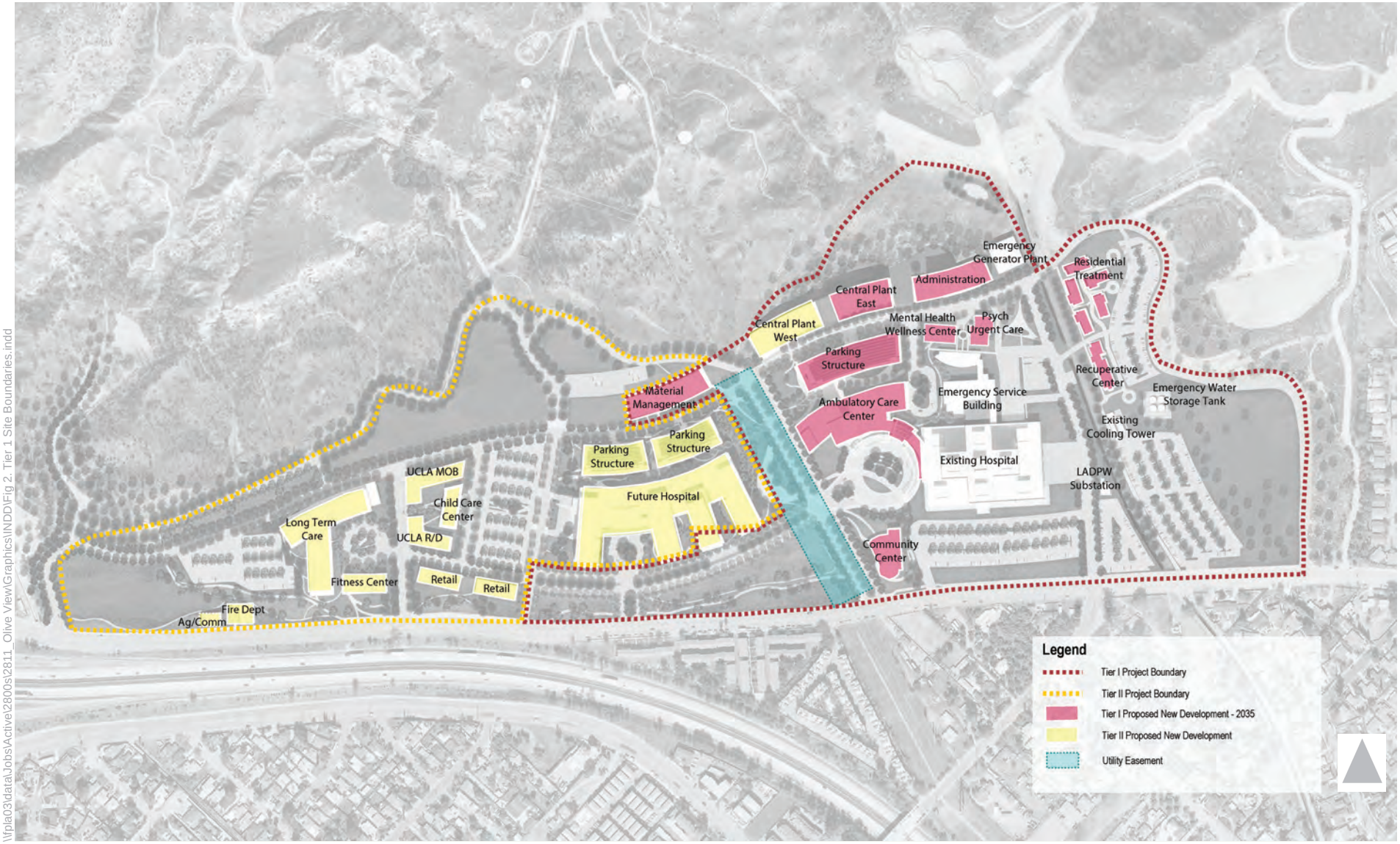
\\fpla03\data\Jobs\Active\2800s\2811_Olive View\Graphics\AI\2019_Updates\Fig 1. Study Area_from2016.ai

Project Site

4 Study Intersection

Figure 1

Project site and Study Area



\\pla03\data\Jobs\Active\2800s\2811_Olive View\Graphics\INDD\Fig 2. Tier 1 Site Boundaries.indd

Figure 2

Tier 1 Site Boundaries

Subsequent to the completion of Tier I, Tier II development will include the addition of hospital space, research and development space, retail space, and utility plant and maintenance facilities.

The project will provide additional open space, trails and beautification of the campus as part of Tier I and Tier II. Site access and internal circulation will be reconfigured and new parking provided. This report includes a quantitative analysis for Tier I development and a qualitative analysis of Tier II development beyond 2035.

STUDY SCOPE

This study evaluates the potential for project-related traffic impacts on the street system surrounding the project site. Peak hour traffic impacts for the project were evaluated for the peak hour during typical weekday morning (7:00 to 10:00 AM) and afternoon (3:00 to 6:00 PM) peak periods. The following traffic scenarios were analyzed in the study:

- Existing Conditions – The analysis of existing traffic conditions is intended to provide a basis for the remainder of the study. The existing conditions analysis includes a description of the street system serving the site, current traffic volumes, and an assessment of the operating conditions at these locations.
- Existing plus Project Conditions – This traffic scenario provides projected traffic volumes and an assessment of operating conditions under existing conditions with the addition of project-generated traffic from Tier I development. The direct impacts of the proposed project on existing traffic operating conditions were then identified.
- Cumulative (2035) Base Conditions – Future traffic projections without the proposed project were developed for the year 2035. The objective of this analysis was to project future traffic growth and operating conditions that could be expected to result from regional growth and related projects in the vicinity of the project site by the year 2035.
- Cumulative (2035) plus Project Conditions – This traffic scenario provides projected traffic volumes and an assessment of operating conditions under future conditions with the addition of project-generated traffic from Tier I development. The cumulative impacts of the proposed project on future traffic operating conditions were then identified.

Following extensive coordination with staff from Los Angeles County, Caltrans and City of Los Angeles Department of Transportation, the 14 intersections listed below were selected to be studied as part of the traffic impact analysis for the proposed project. This coordination led to the execution of a formal Memorandum of Understanding (MOU), which is included as an appendix to this study.

1. Foothill Boulevard & Glenoaks Boulevard

2. I-210 Westbound Ramps & Roxford Street
3. I-210 Eastbound Ramps & Roxford Street
4. Foothill Boulevard & Roxford Street
5. Glenoaks Boulevard & Roxford Street
6. San Fernando Road & Roxford Street
7. I-5 Northbound Off-Ramp/Encinitas Avenue & Roxford Street
8. I-5 Southbound Ramps & Roxford Street
9. Olive View Drive & Bledsoe Street
10. Foothill Boulevard & Bledsoe Street
11. Glenoaks Boulevard & Bledsoe Street
12. I-210 Westbound Ramps & Polk Street
13. I-210 Eastbound Ramps & Polk Street
14. Foothill Boulevard & Polk Street

All intersections are controlled by traffic signals, with the exception of Olive View Drive & Bledsoe Street (Intersection 9), which is all-way stop-controlled. Per LADOT guidelines, this location was analyzed to determine the need for signalization. Figure 1 shows the location of the project site and the 14 study intersections. Lane configurations of the study intersections are shown in Appendix A.

ORGANIZATION OF REPORT

This report is divided into eight chapters, including this introduction. Chapter 2 describes the existing transportation conditions including an inventory of the streets, highways, and transit service in the study area, a summary of traffic volumes, and an assessment of operating conditions. The methodologies used to develop traffic forecasts for the scenarios described above and the forecasts themselves are included in Chapter 3. Chapter 4 presents an assessment of potential intersection traffic impacts of the proposed Tier I development under existing, and future conditions. The results of the regional transportation system analysis are provided in Chapter 5 using trip generation for Tier I development. Chapter 6 estimates the active transportation facilities near the project site. Chapter 7 includes trip generation of Tier II development and a qualitative assessment of potential impacts with Tier II development. Chapter 8 contains the study conclusions. Appendices to this report include details of the technical analysis.

2. EXISTING CONDITIONS

A comprehensive data collection effort was undertaken to develop a detailed description of existing conditions in the study area. The assessment of conditions relevant to this study includes a description of the study area, an inventory of the local street system in the vicinity of the project site, a review of traffic volumes on these facilities, an assessment of the resultant operating conditions, and the current transit service in the study area. A detailed description of these elements is presented in this chapter.

STUDY AREA

The proposed project is located at 14445 Olive View Drive in the Sylmar community of Los Angeles. All intersections are located within the City of Los Angeles. Nine driveways along Olive View Drive provide access to the site. The study area extends from the project site southwest to Interstate 5 and southeast to Polk Street.

EXISTING STREET SYSTEM

Primary regional access to the site is provided by Interstate 5 and Interstate 210. Following is a brief description of the streets that serve the site.

Freeways

- Foothill Freeway (I-210) – The Foothill Freeway runs east/west to the south of the project site. Access from the project site to the Foothill Freeway is provided by interchanges at Roxford Street and Polk Street.
- Golden State Freeway (I-5) – The Golden State Freeway runs north/south approximately two miles west of the project site. Access from the project site to the Golden State Freeway is provided by an interchange at Roxford Street and via the Foothill Freeway.

East/West Roadways

- Olive View Drive – Olive View Drive is designated as an Avenue II and is part of the Neighborhood Enhanced Network according to the City of Los Angeles Mobility Plan 2035. The roadway runs east/west immediately adjacent to the project site and provides two travel lanes in each direction and a 2-way left-turn lane. Unrestricted parking is generally available on either side of the street. The posted speed limit is 40 mph.

Northwest/Southeast Roadways

- San Fernando Road – San Fernando Road is designated as an Avenue I and is part of the Bicycle Enhanced Network and the Transit Enhanced Network according to the City of Los Angeles Mobility Plan 2035. The roadway runs northwest/southeast to the south of the project site and provides two travel lanes in each direction and a 2-way left-turn lane. Unrestricted parking is available on many portions of the west side of the street. No parking is allowed adjacent to the Metrolink tracks on the east side of the street. The posted speed limit is 40 mph.

- Glenoaks Boulevard – Glenoaks Boulevard is designated as an Avenue II according to the City of Los Angeles Mobility Plan 2035. The roadway runs northwest/southeast to the south of the project site and provides two travel lanes in each direction with intersection turn lanes on portions of the roadway. Unrestricted parking is available on portions of both sides of the street. The posted speed limit is 35 mph.

- Foothill Boulevard – Foothill Boulevard is designated as an Avenue I according to the City of Los Angeles Mobility Plan 2035. The roadway provides two travel lanes in each direction and a center turn lane north, except between Filbert Street and Bledsoe Street, where there is one travel lane in each direction with a 2-way left-turn lane. There is a bicycle lane between Hubbard Street and Polk Street and between Tyler Street and Balboa Boulevard. Restricted and unrestricted parking is available on portions of both sides of the street. The posted speed limit is 45 mph.

- Encinitas Avenue – Encinitas Avenue is designated as an Avenue II according to the City of Los Angeles Mobility Plan 2035. The roadway runs northwest/southeast approximately two miles to the southwest of the project site. North of Cobalt Street, the roadway provides two travel lanes heading north and one travel lane heading south. South of Cobalt Street, there is one travel lane in each direction. The street also has a 2-way left-turn lane. Restricted and unrestricted parking is available on both sides of the street on portions of the roadway. There is no posted speed limit on the street.

Northeast/Southwest Roadways

- Roxford Street – Roxford Street is designated as an Avenue I according to the City of Los Angeles Mobility Plan 2035. The roadway runs northeast/southwest to the west of the project site. The street provides two travel lanes and a center turn lane in each direction south of Ralston Avenue, and one travel lane in each direction with a center turn lane north of Ralston Avenue. Unrestricted parking is available on either side of the street on portions of the roadway. The posted speed limit is 35 mph.

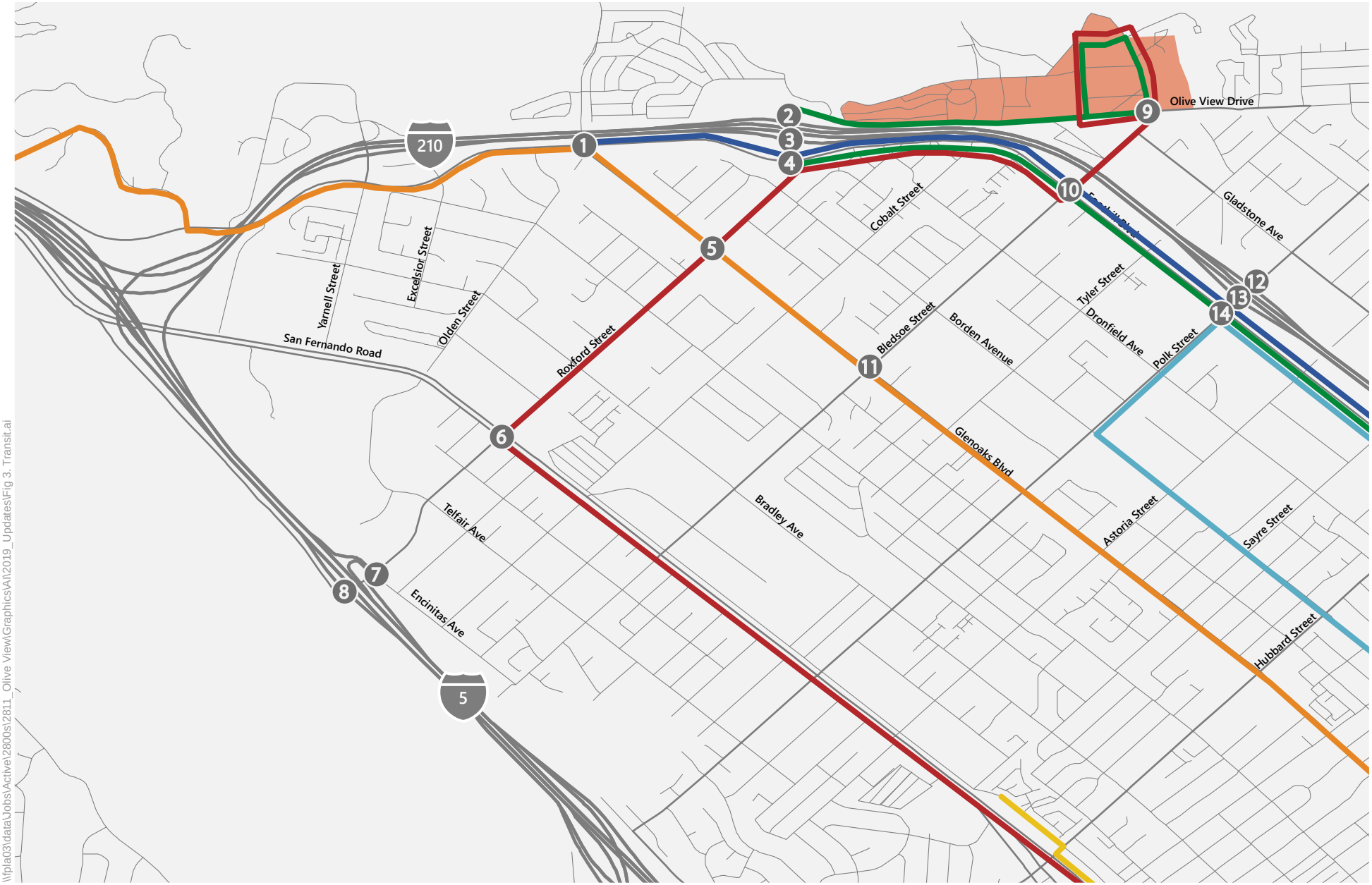
- Bledsoe Street – Bledsoe Street is designated as an Avenue I west of Glenoaks Boulevard and an Avenue II south of San Fernando Road according to the City of Los Angeles Mobility Plan 2035. The roadway runs northeast/southwest to the south of the project site and provides one vehicle travel lane in each direction. There is a bicycle lane in each direction between San Fernando Road and De Garmo Avenue. Unrestricted parking is available on either side of the street on most portions of the roadway. The posted speed limit is 25 mph north of Foothill Boulevard and 35 mph south of Foothill Boulevard.

- Polk Street – Polk Street is designated as an Avenue I according to the City of Los Angeles Mobility Plan 2035. The roadway runs northeast/southwest to the south of the project site and provides two travel lanes in each direction with a center turn lane. There is a bicycle lane in each direction between Laurel Canyon Boulevard and Sunrise Ridge Road and also between San Fernando Road and Glenoaks Boulevard. Restricted and unrestricted parking is available on either side of the street. The posted speed limit is 35 mph is some locations and 40 mph in others.

EXISTING TRANSIT SERVICE

Five bus lines currently operate in the study area. These transit lines are operated by Metro and LADOT. Transit lines are described below and illustrated in Figure 3.

- Metro Line 90 – Line 90 is a north/south line that runs from Downtown Los Angeles to Olive View Medical Center. The line has 30- to 60-minute headways during the AM peak period and 30 to 50 minute headways during the PM peak period. The line runs on Foothill Boulevard, Roxford Street and Olive View Drive within the study area with stops every few blocks, and provides site access via a stop on Reagan Road within the medical center campus.
- Metro Line 224 – Line 224 is a north/south line that runs from the Universal/Studio City Red Line Station to Olive View Medical Center. The line has 8- to 20-minute headways during the AM peak period and 20- to 30-minute headways during the PM peak period. The line runs on San Fernando Road, Roxford Street, Foothill Boulevard, Bledsoe Street, and Olive View Drive within the study area with stops every few blocks. Project site access is provided via the final stop on the line on Kennedy Road within the medical center campus.
- Metro Line 234 – Line 234 is a north/south line that runs from Sherman Oaks to Mission College in Sylmar, with weekend, early morning, and late night service to the Sepulveda Expo Line Station. The line has 15- to 25-minute headways during the AM peak period and 45- to 40-minute headways during the PM peak period. The line runs on Polk Street within the study area with project site access provided via a stop at the intersection of Polk Street & Foothill Boulevard.
- Metro Line 236 – Line 236 is a north/south line that runs from Encino to the Sylmar Metrolink Station. The line has 60- to 65-minute headways during AM and PM peak periods and runs on Foothill Boulevard and Glenoaks Boulevard within the study area. Project site access is provided via a stop at the intersection of Glenoaks Boulevard & Roxford Street.



\\fpla03\data\Jobs\Active\2800s\2811_Olive View\Graphics\All\2019_Updates\Fig 3. Transit.ai

Project Site

Metro 224

Metro 230

Metro 234

Metro 236

Metro 90

LADOT 409

Figure 3

Existing Transit

- LADOT Commuter Express 409 – The Commuter Express 409 is a north/south line that runs from Downtown Los Angeles to Foothill Boulevard & Glenoaks Boulevard in Sylmar and provides directional morning and afternoon peak period service on weekdays only. The line has 25- to 40-minute headways during the AM peak period and 15- to 20-minute headways during the PM peak period. During the AM period, all buses run southbound, and during the PM period all buses run northbound. The line runs on Foothill Boulevard within the study area and provides project site access via a stop at Foothill Boulevard & Bledsoe Street.

EXISTING BICYCLE AND PEDESTRIAN FACILITIES

There is limited dedicated bicycle infrastructure within the study area. South of the project site, a bicycle path (Class I facility) runs along San Fernando Road south of Roxford Street. With the exception of a gap between Tyler Street and Bledsoe Street, bicycle lanes (Class II facilities) exist along much of Foothill Boulevard near the project site. There are additional bicycle lanes at the edge of the study area on Bledsoe Street and Polk Street.

The Los Angeles City Mobility Plan provides for future bicycle lanes within the study area at the following locations:

- Foothill Boulevard between Polk Street and Tyler Street.
- All of Polk Street in the study area
- Roxford Street between Telfair Avenue and Foothill Boulevard
- San Fernando Road north of Roxford Street to the edge of the study area
- All of Glenoaks Boulevard in the study area

In addition, the following segments are part of the neighborhood enhanced network:

- All of Olive View Drive in the study area
- Roxford Street between Foothill Boulevard and Olive View Drive
- All of Herrick Drive in the study area
- All of Dronfield Avenue in the study area
- Gladstone Avenue between Polk Street and Astoria Street
- The entire length of Eldridge Avenue in the study area
- Telfair Avenue east of Roxford Street
- Astoria Street between San Fernando Road and Gladstone Avenue

Figure 4 shows the existing and planned bicycle facilities.

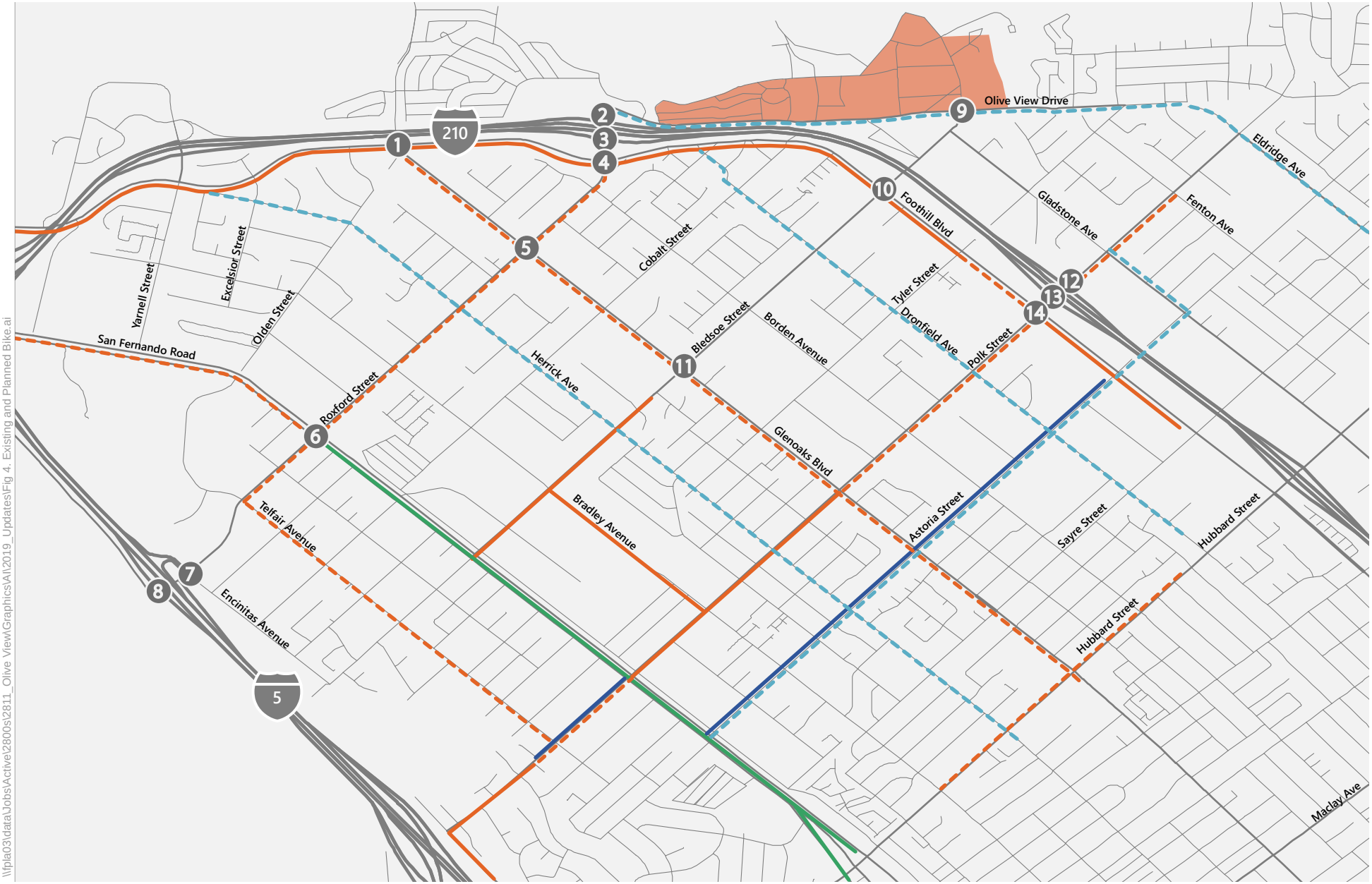


Figure 4

Existing and Planned Bicycle Facilities

\\fpla03\data\Jobs\Active\2800s\2811_Olive View\Graphics\AI\2019_Updates\Fig 4. Existing and Planned Bike.ai

The pedestrian network in the study area is incomplete. Bledsoe Street does not have sidewalks north of Foothill Boulevard. Olive View Drive has incomplete segments of sidewalk. Sidewalks are generally provided on streets in the of the study area southwest of Foothill Boulevard, but portions of many streets lack sidewalks on one or both sides. Crosswalks exist at signalized intersections are either pre-timed or actuated by push-buttons. The portion of Olive View Drive between Roxford Street and the project site is part of the Enhanced Pedestrian Network in the LA Mobility Plan 2035.

EXISTING TRAFFIC VOLUMES AND LEVELS OF SERVICE

This section presents the existing peak hour turning movement traffic volumes for each of the intersections analyzed in the study, describes the methodology used to assess the traffic conditions at each intersection, and analyzes the resulting operating conditions at each, indicating volume-to-capacity (V/C) ratios and levels of service. Traffic counts are provided in Appendix B.

EXISTING TRAFFIC VOLUMES

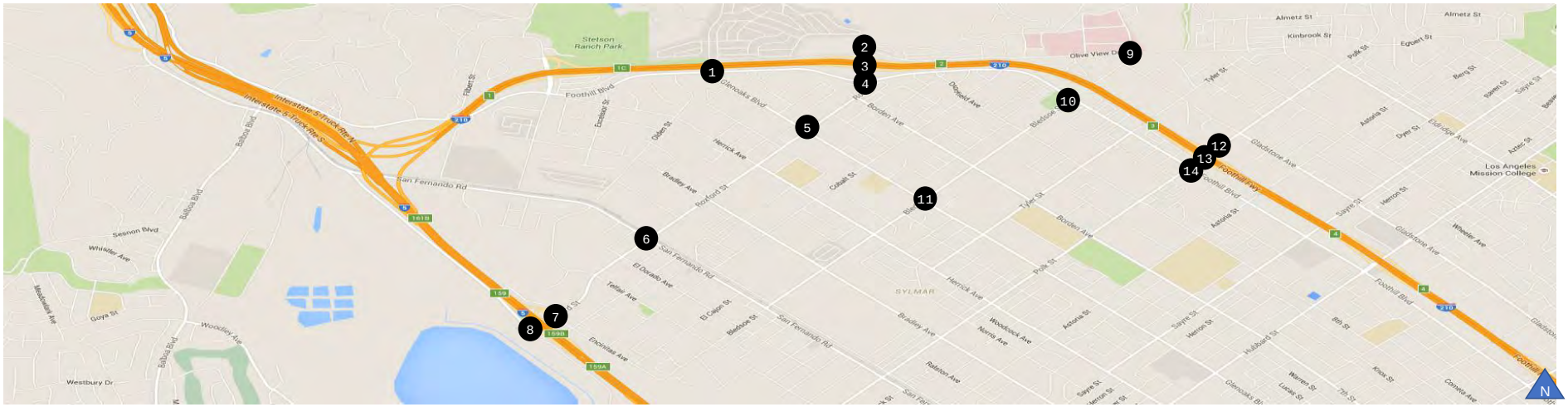
Weekday morning and evening peak period traffic counts were conducted at the 14 analyzed intersections in March and June 2016. Existing peak hour weekday traffic volumes are illustrated in Figure 5. The 2016 volumes were increased by 0.46% per year, the areawide traffic growth factor discussed in Chapter 3, to estimate 2019 volumes for the intersection analysis.

LEVEL OF SERVICE METHODOLOGY

Level of service (LOS) is a qualitative measure used to describe the condition of traffic flow on the street system, ranging from excellent conditions at LOS A to overloaded conditions at LOS F. LOS D is typically recognized as the minimum desirable level of service in urban areas. Table 1 shows levels of service definitions.

The City of Los Angeles requires the use of Critical Movement Analysis (CMA) methodology[1] to evaluate the operations of intersections and this methodology is accepted by the County of Los Angeles, the lead agency for this study. The CMA method of intersection capacity analysis determines the intersection V/C ratio and corresponding LOS for the turning movements and intersection characteristics at signalized intersections. The CALCADB software package developed by Los Angeles Department of Transportation (LADOT) was used to implement the CMA methodology.

[1] *Transportation Research Circular No. 212, Interim Materials on Highway Capacity* (Transportation Research Board, 1980).



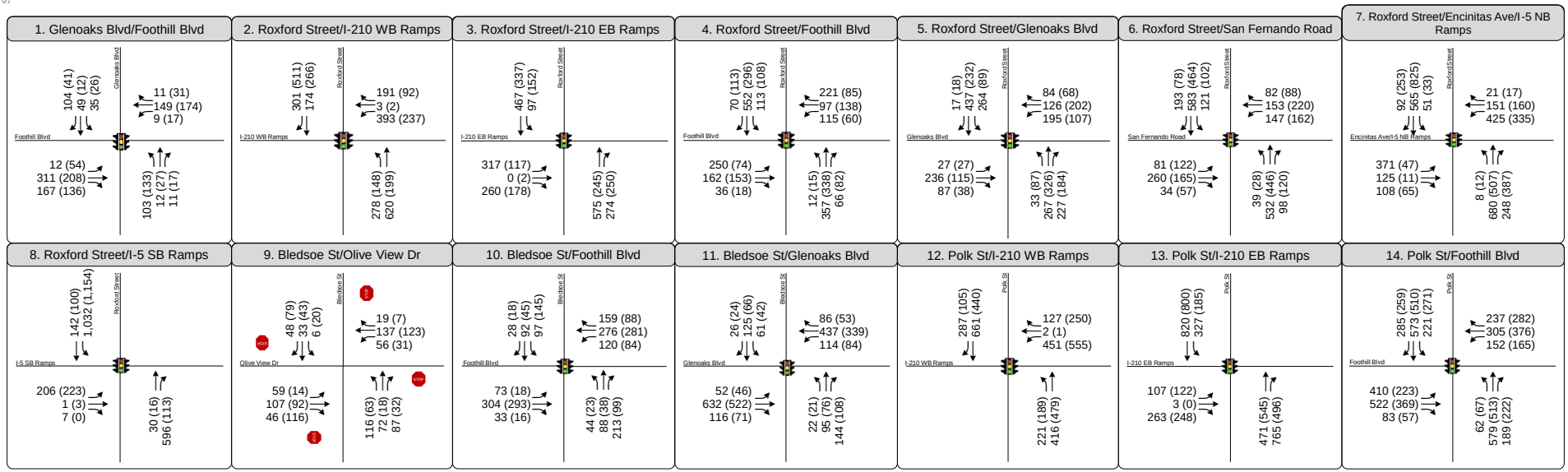


Figure 5
Existing Peak Hour Traffic Volumes

TABLE 1
LEVEL OF SERVICE DEFINITIONS
FOR SIGNALIZED INTERSECTIONS

Level of Service	Intersection Capacity Utilization	Definition
A	0.000-0.600	EXCELLENT. No Vehicle waits longer than one red light and no approach phase is fully used.
B	0.601-0.700	VERY GOOD. An occasional approach phase is fully utilized; many drivers begin to feel somewhat restricted within groups of vehicles.
C	0.701-0.800	GOOD. Occasionally drivers may have to wait through more than one red light; backups may develop behind turning vehicles.
D	0.801-0.900	FAIR. Delays may be substantial during portions of the rush hours, but enough lower volume periods occur to permit clearing of developing lines, preventing excessive backups.
E	0.901-1.000	POOR. Represents the most vehicles intersection approaches can accommodate; may be long lines of waiting vehicles through several signal cycles.
F	> 1.000	FAILURE. Backups from nearby locations or on cross streets may restrict or prevent movement of vehicles out of the intersection approaches. Tremendous delays with continuously increasing queue lengths.

Source: *Transportation Research Circular No. 212, Interim Materials on Highway Capacity,* Transportation Research Board, 1980.

The City of Los Angeles' Automated Traffic Surveillance and Control (ATSAC) system is a computer-based traffic signal control system that monitors traffic conditions and system performance to allow ATSAC-operations to manage signal timing to improve traffic flow conditions. The Adaptive Traffic Control System (ATCS) is an enhancement to ATSAC and provides fully traffic-adaptive signal control based on real-time traffic conditions. All of the signalized study intersections are currently operating under the City's ATSAC and ATCS systems. In accordance with established City of Los Angeles procedures, a 0.07 V/C reduction was applied at each intersection where ATSAC is implemented and an additional 0.03 V/C reduction was applied at each intersection where ATCS is implemented.

SIGNAL WARRANT ANALYSIS

The City of Los Angeles Department of Transportation (LADOT) requires that unsignalized intersections be studied only to determine if there is a need for the installation of a traffic signal. A signal warrant analysis was conducted for Olive View Drive & Bledsoe Street using volumes from the AM and PM peak hours. The warrant analyses were conducted in accordance with the procedures described in Chapter 4C of the California Manual on Uniform Traffic Control Devices 2014 (MUTCD 2014). The warrant for a traffic signal is met if the following conditions exist for the same one hour of an average day:

1. The total stopped time delay experienced by the traffic on one minor-street approach (one direction only) controlled by a stop sign equals or exceeds four vehicle-hours for a 1-lane approach or five vehicle-hours for a 2-lane approach.
2. The volume on the same minor-street approach (one direction only) equals or exceeds 100 vehicles per hour for one moving lane of traffic or 150 vehicles per hour for two moving lanes.
3. The total entering volume serviced during the hour equals or exceeds 650 vehicles per hour for intersections with three approaches or 800 vehicles per hour for intersections with four or more approaches.

In order to conduct the signal warrant analysis, the *Highway Capacity Manual* (HCM) (Transportation Research Board, 2010) methodology was used to calculate delay for the unsignalized intersection that is part of the study.

EXISTING LEVELS OF SERVICE

The existing traffic volumes were analyzed using the methodologies described above to determine the current operating conditions at the signalized intersections. Table 2 summarizes the existing (2019) LOS analysis results for the signalized intersections. As shown in the table, all of the intersections are currently operating at LOS D or better during the analyzed peak hours.

Detailed LOS calculation worksheets are presented in Appendix C.

TABLE 2
EXISTING (2016)
INTERSECTION LEVEL OF SERVICE ANALYSIS

ID	North/South Street Name	East/West Street Name	Peak Hour	Existing	
				V/C	LOS
1	Glenoaks Blvd	Foothill Blvd	AM	0.243	A
			PM	0.167	A
2	Roxford Street	I-210 Westbound Ramps	AM	0.474	A
			PM	0.443	A
4	Roxford Street	Foothill Blvd	AM	0.507	A
			PM	0.373	A
5	Roxford Street	Glenoaks Blvd	AM	0.483	A
			PM	0.294	A
6	Roxford Street	San Fernando	AM	0.424	A
			PM	0.374	A
7	Roxford Street	Encinitas Ave/I-5 Northbound	AM	0.633	B
			PM	0.462	A
8	Roxford Street	I-5 Southbound Ramps	AM	0.848	D
			PM	0.572	A
10	Bledsoe St	Foothill Blvd	AM	0.343	A
			PM	0.281	A
11	Bledsoe St	Glenoaks Blvd	AM	0.409	A
			PM	0.281	A
12	Polk St	I-210 Westbound Ramps	AM	0.655	B
			PM	0.569	A
13	Polk St	I-210 Eastbound Ramps	AM	0.791	C
			PM	0.527	A
14	Polk St	Foothill Blvd	AM	0.738	C
			PM	0.653	B

[a] Intersections 3 and 9 are stop controlled and are analyzed only to determine the need for signalization, per LADOT guidelines.

3. TRAFFIC PROJECTIONS

PROJECT TRAFFIC

The development of project traffic estimates for the proposed project is a 3-step process: trip generation, trip distribution, and traffic assignment.

PROJECT TRAFFIC GENERATION

The existing and proposed (Tier I) land uses on the site are shown in Table 3. Overall, development of the proposed project would involve the incremental development listed below.

- Addition of 43,700 square feet (sf) of administrative office space
- Addition of 26,000 sf of new utility plant and maintenance facilities
- Addition of 313,000 sf of new hospital space
- Addition of 18,800 sf of warehouse/storage space
- Removal of 1,000 sf of mental health facilities
- Addition of 128 short-term housing units for special needs patients
- Addition of 20,000 sf of community center space

Vehicle trip generation for the project was estimated using standard rates developed by the ITE and published in *Trip Generation, 10th Edition*[2]. The square footage of each land use was used to estimate trip generation, with the exception of the day care center, where the number of children was used.

Internal trip credits, defined as a reduction that can be applied to the trip generation estimates due to trips made within the site between land uses, are applied at a rate of 10% of the daily and peak hour trips to all land uses on the site. The buildings and activities on the Olive View-UCLA Medical Center campus are related to one another and this will continue as the site adds complementary uses. The internal trip credits were estimated based on the recommended factors provided in *Trip Generation,* review of traffic studies for projects located in the region and consultation with County of Los Angeles and City of Los Angeles staff as part of the Memorandum of Understanding (MOU) process.

[2] *Trip Generation, 10th Edition* (Institute of Transportation Engineers [ITE], 2017).

A 2% transit, walk and bike credit was applied to the all land uses on the site, based on recent data collected by the South Coast Air Quality Management District on travel to work behavior at this site. These credits account for trips to and from the project site using modes other than automobiles. The site is within walking distance to the several Metro bus lines. In addition, a 10% carpool trip credit was taken for the site, also based on data collected by the South Coast Air Quality Management District on travel to work behavior for the site.

Table 3A-3B estimates the trip generation for development during Tier I. The project is expected to generate a net increase of 3,841 daily trips, including 393 trips (288 inbound/105 outbound) during the AM peak hour and 401 trips (101 inbound/300 outbound) during the PM peak hour.

PROJECT TRAFFIC DISTRIBUTION

The geographic distribution of trips generated by the proposed project is dependent on characteristics of the street system serving the project site, the level of accessibility of routes to and from the proposed project site, and the locations of employment and commercial centers to which residents of the project would be drawn. The general distribution pattern for this study was developed in consultation with LADOT and County staff and is illustrated in Figure 6. Aggregated data on existing staff home zip codes and patient home zip codes was used to determine existing origins for trips coming to and leaving from the project.

PROJECT TRAFFIC ASSIGNMENT

The traffic expected to be generated by the proposed project was assigned to the street network using the distribution pattern described in Figure 6. The net increase in project traffic was assigned based on the vehicle access and circulation diagram from the Olive View-UCLA Master Plan, as seen in Figure 7. Figure 8 illustrates the assignment of net new project traffic for the Tier I Development scenario at the 14 intersections analyzed in this study.

EXISTING BASELINE PLUS PROJECT TRAFFIC PROJECTIONS

The estimated project traffic was added to the Existing traffic volumes to estimate Existing plus Project traffic volumes. Existing plus Project traffic volumes, presented in Figure 9, were analyzed to determine the projected V/C ratios and LOS for each intersection. Table 4 summarizes the Existing plus Project LOS. None of the study intersections are projected to operate at LOS E or F during either of the peak hours.

TABLE 3A
PROJECT TRIP GENERATION ESTIMATES
OLIVE VIEW-UCLA MEDICAL CENTER MASTER PLAN TIER I DEVELOPMENT

	Land Use	ITE Land Use Code	Size [a]	Trip Generation Rates [b]							Estimated Trip Generation						
				Daily	AM Peak Hour			PM Peak Hour			Daily	AM Peak Hour Trips			PM Peak Hour Trips		
				Rate	Rate	% In	% Out	Rate	% In	% Out	Trips	In	Out	Total	In	Out	Total
Existing	**EXISTING USE**																
	Administrative Office	710	108.000 ksf	*[c]*	*[c]*	*86%*	*14%*	*[c]*	*16%*	*84%*	1,143	110	18	128	19	103	122
	Day Care Center	565	82 Students	*4.09*	*[d]*	*53%*	*47%*	*[d]*	*47%*	*53%*	335	34	29	63	29	33	62
	Central Utilities/Industrial /Infrastructure [e]	120	51.000 ksf	*1.5*	*0.51*	*88%*	*12%*	*0.68*	*12%*	*88%*	77	23	3	26	4	31	35
	Hospital/Inpatient	610	534.300 ksf	*10.72*	*[f]*	*68%*	*32%*	*[f]*	*32%*	*68%*	5,728	355	167	522	175	374	549
	Warehouse/Storage	150	49.300 ksf	*[g]*	*[g]*	*77%*	*23%*	*[g]*	*27%*	*73%*	123	24	7	31	9	25	34
	Mental Health	720	11.000 ksf	*[h]*	*[h]*	*78%*	*22%*	*[h]*	*28%*	*72%*	335	24	7	31	11	28	39
	Project Site Subtotal										**7,742**	**570**	**231**	**801**	**247**	**594**	**841**
	Internal Capture (10%) [j]										*-774*	*-57*	-23	*-80*	*-25*	-59	*-84*
	Transit/Walk/Bike Credit (2%) [k]										*-139*	*-10*	-4	*-14*	*-4*	-11	*-15*
	Carpool (10%) [l]										*-697*	*-51*	-21	*-72*	*-22*	-54	*-76*
	Total Existing Trips										**6,132**	**452**	**183**	**635**	**196**	**470**	**666**
Proposed	**PROPOSED PROJECT (TIER 1)**																
	Administrative Office	710	151.700 ksf	*[c]*	*[c]*	*86%*	*14%*	*[c]*	*16%*	*84%*	1,590	145	24	169	27	142	169
	Day Care Center	565	82 Students	*4.09*	*[d]*	*53%*	*47%*	*[d]*	*47%*	*53%*	335	34	29	63	29	33	62
	Central Utilities/Industrial /Infrastructure [e]	120	77.000 ksf	*1.5*	*0.51*	*88%*	*12%*	*0.68*	*12%*	*88%*	116	34	5	39	6	46	52
	Hospital/Inpatient	610	847.000 ksf	*10.72*	*[f]*	*68%*	*32%*	*[f]*	*32%*	*68%*	9,080	512	241	753	260	552	812
	Community Center	495	20.000 ksf	*28.82*	*[i]*	*66%*	*34%*	*[i]*	*47%*	*53%*	576	51	26	77	34	38	72
	Warehouse/Storage	150	68.100 ksf	*[g]*	*[g]*	*77%*	*23%*	*[g]*	*27%*	*73%*	153	25	8	33	10	26	36
	Mental Health	720	10.000 ksf	*[h]*	*[h]*	*78%*	*22%*	*[h]*	*28%*	*72%*	297	23	6	29	10	26	36
	Crisis Residential Housing	[m]	80 Units								306	74	20	94	0	74	74
	Recuperative Housing	[m]	48 Units								48	12	0	12	0	12	12
	Project Site Subtotal										**12,500**	**911**	**359**	**1,270**	**376**	**949**	**1,325**
	Internal Capture (10%) [j]										*-1,215*	*-82*	-34	*-116*	*-38*	-86	*-124*
	Transit/Walk/Bike Credit (2%) [k]										*-219*	*-15*	-6	*-21*	*-7*	-15	*-22*
	Carpool (10%) [l]										*-1,093*	*-74*	-31	*-105*	*-34*	-78	*-112*
	Total Proposed Trips										**9,973**	**740**	**288**	**1,028**	**297**	**770**	**1,067**
Net Change	**Net New Project**										**3,841**	**288**	**105**	**393**	**101**	**300**	**401**

a. Size in thousand square feet (ksf) unless otherwise noted.
b. Source: Institute of Transportation Engineers (ITE), *Trip Generation, 10th Edition* , 2018, and *Trip Generation Handbook* (3rd Edition).
c. ITE administrative office trip generation equations used rather than linear trip generation rate:
   Daily: Ln(T) = 0.97 * Ln(A) + 2.50, where T = trips, A = area in ksf
   AM Peak Hour: T = 0.94(A) + 26.49, where T = trips, A = area in ksf
   PM Peak Hour: Ln(T) = 0.95 * Ln(A) + 0.36, where T = trips, A = area in ksf
d. ITE day care center trip generation equation used rather than linear trip generation rate for AM and PM periods:
   AM Peak Hour: T = 0.66(X) + 8.42, where T = trips, X = number of students
   PM Peak Hour: Ln(T) = 0.87 * Ln(X) + 0.29, where T = trips, X = number of students
e. ITE Code 120 not included in 10th Edition "Trip Generation." Rates and directional distribution taken from ITE 9th Edition code 120, General Heavy Industrial.
f. ITE hospital trip generation equation used rather than linear trip generation rate for AM and PM periods:
   AM Peak Hour: T = 0.74(A) + 126.36, where T = trips, A = area in ksf
   PM Peak Hour: T = 0.84(A) + 100.56, where T = trips, A = area in ksf
g. ITE warehousing trip generation equation used rather than linear trip generation rate:
   Daily: T = 1.58(A) + 45.54, where T = trips, A = area in ksf
   AM Peak Hour: T = 0.12(A) + 25.32, where T = trips, A = area in ksf
   PM Peak Hour: T = 0.12(A) + 27.82, where T = trips, A = area in ksf
h. ITE medical-dental office building trip generation equation used rather than linear trip generation rate:
   Daily: T = 38.42(A) - 87.62, where T = trips, A = area in ksf
   AM Peak Hour: Ln(T) = 0.89 * Ln(A) + 1.31, where T = trips, A = area in ksf
   PM Peak Hour: T = 3.39(A) + 2.02, where T = trips, A = area in ksf
i. ITE Recreational Community Center trip generation equations used rather than linear trip generation rate:
   AM Peak Hour: Ln(T) = 0.54 * Ln(A) + 2.73, where T = trips, A = area in ksf
   PM Peak Hour: Ln(T) = 0.76 * Ln(A) + 2.00, where T = trips, A = area in ksf
j. Internal capture represents the percentage of trips between land uses that occur within the site.
k. Transit/Walk/Bike Credit informted by data from the 2016 AQMD survey.
l. Carpool Credit informted by data from the 2016 AQMD survey.
m. See Table 3A for detailed trip generation estimates for this project element.

TABLE 3B

SPECIAL NEEDS HOUSING WEEKDAY TRIP GENERATION ESTIMATES

	Staff	In	Out	Total
Crisis Res - Clinical	90	74	74	148
Crisis Res - Resid Care	10	8	8	16
Crisis Residential	62	51	51	102
Crisis Residential	25	20	20	40
Recuperative Care	15	12	12	24
Recuperative Care	10	8	8	16
Recuperative Care	5	4	4	8
				0
Total Trips [a]		177	177	354

Time Beginning	Midnight	12:30	1:00	1:30	2:00	2:30	3:00	3:30	4:00	4:30	5:00	5:30	6:00	6:30	7:00	7:30	8:00	8:30	9:00	9:30	10:00	10:30	11:00	11:30	Noon	12:30	1:00	1:30	2:00	2:30	3:00	3:30	4:00	4:30	5:00	5:30	6:00	6:30	7:00	7:30	8:00	8:30	9:00	9:30	10:00	10:30	11:00	11:30
	0	8	0	0	0	0	0	0	0	0	0	0	0	8	0	106	0	4	0	0	0	0	0	0	0	0	0	0	0	51	0	16	0	0	86	0	0	0	0	0	0	0	0	0	0	20	51	4

AM PK: IB 74; 8; 20 OB; IB 12

PM PK: 74 OB; 8; 51; 20; 12 OB; 8; 4; 4

Wkdy AM Pk Period 7 - 10 AM

Wkdy PM Pk Period 3 - 6 PM

[a] Trip generation estimates based on anticipated staffing levels and shifts provided by Los Angeles County.

Project Site

4 Study Intersection

15% Freeway Distribution

2% Surface Street Distribution

Figure 6

Project Trip Distribution

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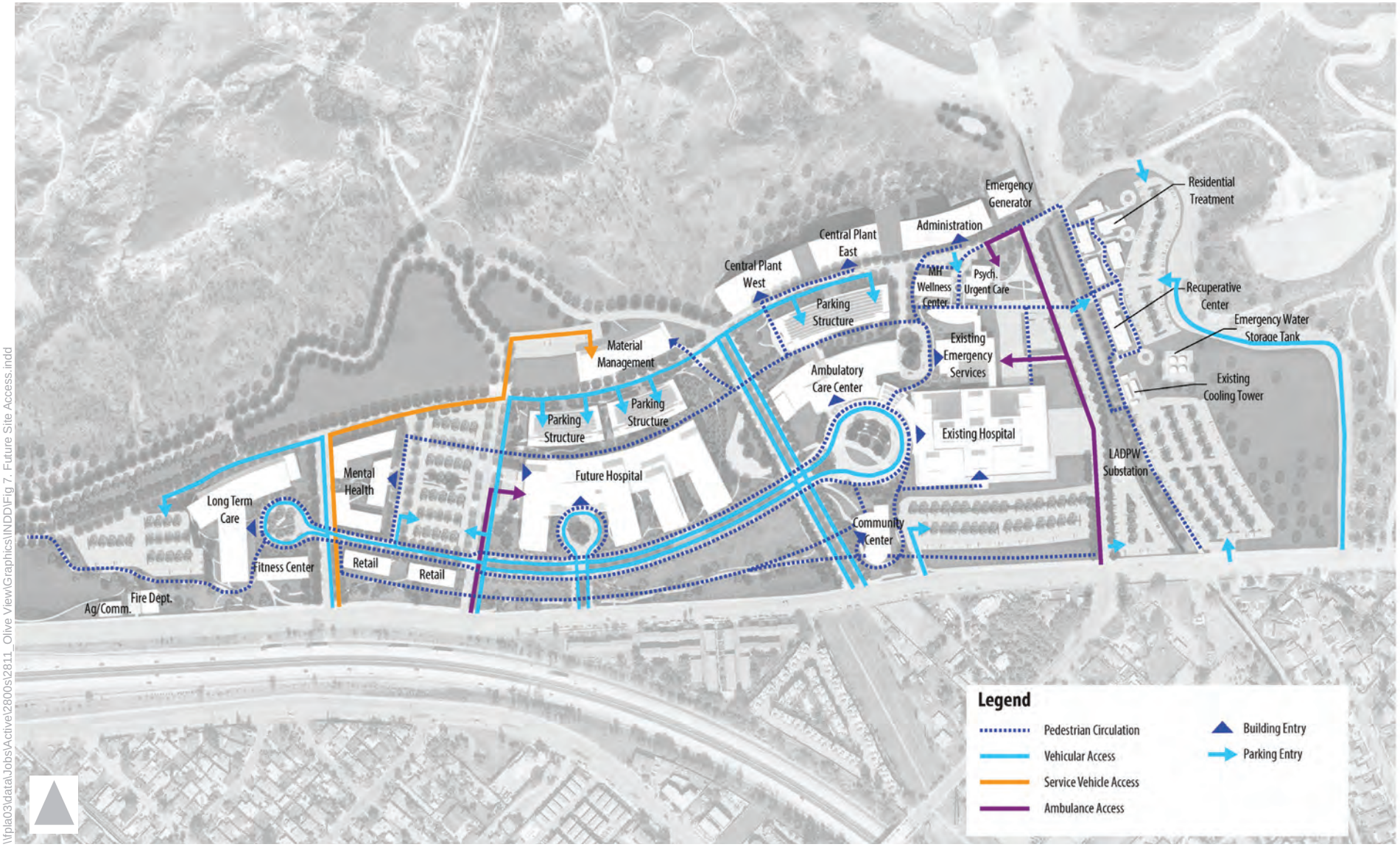

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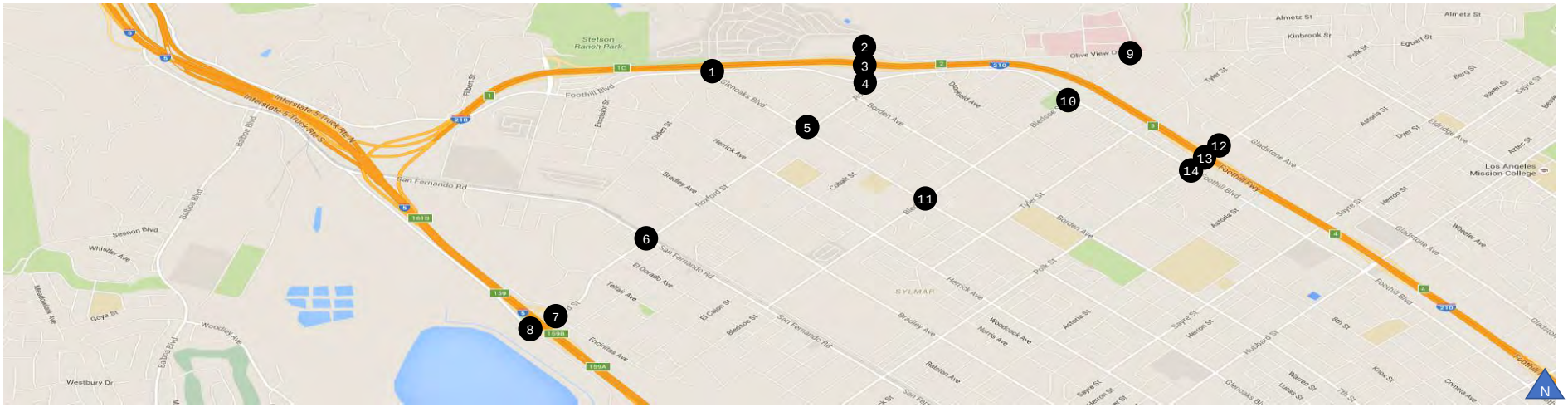
Figure 7

Future Site Access and Circulation


1
2
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11
12
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14
Stetson Ranch Park
Foothill Blvd
Glenoaks Blvd
San Fernando Rd
Roxford St
Bledsoe St
Olive View Dr
Tyler St
Polk St
Glenoaks Blvd
Borden Ave
Herrick Ave
Bradley Ave
Cobalt St
Astoria St
Sayre St
Herron St
Gladstone Ave
Wheeler Ave
Foothill Blvd
Los Angeles Mission College
SYLMAR
Interstate 5 Truck Rte
Interstate 5 Truck Rte
Sesnon Blvd
Whitsett Ave
Balboa Blvd
Woodley Ave
Westbury Dr
Encinitas Ave
Tellef Ave
El Dorado Ave
Bledsoe St
Robson Ave
Woodcock Ave
Norris Ave
Hubbard St
Warren St
Lucas St
Knox St
Cornelia Ave
Almetz St
Kinbrook St
Polk St
Eckert St
Reng St
Sayres St
Sayre St
Dyer St
Eubdigh Ave
Abbot St
Tujunga Ave
Dronfield Ave
Dexter St
Olden St
Herrick Ave
Bradley Ave
Roxford St
Cobalt St
Borden Ave
Tyler St
Astoria St
Sayre St
Herron St
Gladstone Ave
Foothill Blvd
Foothill Fwy
Wheeler Ave
8th St
7th St
Knox St
Cornelia Ave
Glenoaks Blvd
Hubbard St
Warren St
Lucas St
Sayre St
Herron St
Robson Ave
Woodcock Ave
Norris Ave
Astoria St
Bledsoe St
El Dorado Ave
Tellef Ave
Encinitas Ave
Roxford St
Foothill Blvd
Glenoaks Blvd
San Fernando Rd
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Sayres St
Reng St
Eckert St
Polk St
Kinbrook St
Almetz St
Olive View Dr
Tujunga Ave
Gladstone Ave
Foothill Fwy
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Astoria St
Sayre St
Herron St
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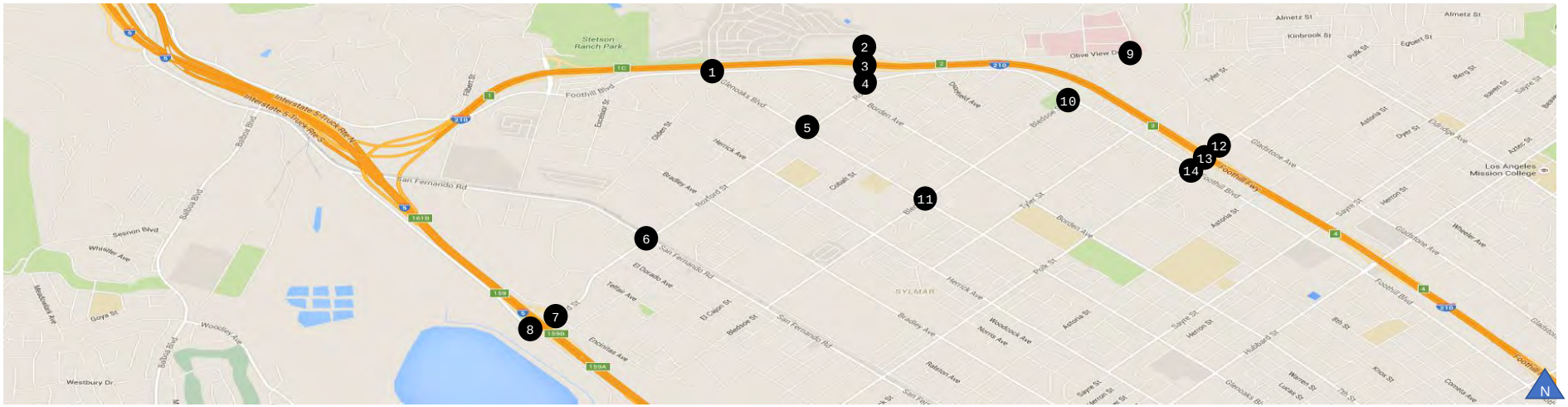


Source:

Figure 9

Existing + Project Only Peak Hour Traffic Volumes

TABLE 4
EXISTING PLUS PROJECT
INTERSECTION LEVEL OF SERVICE ANALYSIS

ID [a]	North/South Street Name	East/West Street Name	Peak Hour	Existing		Existing+Project		Project Increase In V/C	Significant Impact?
				V/C	LOS	V/C	LOS		
1	Glenoaks Blvd	Foothill Blvd	AM	0.247	A	0.266	A	0.019	NO
			PM	0.171	A	0.191	A	0.020	NO
2	Roxford Street	I-210 Westbound Ramps	AM	0.482	A	0.528	A	0.046	NO
			PM	0.450	A	0.545	A	0.095	NO
3	Roxford Street	I-210 Eastbound Ramps	AM	0.489	A	0.614	B	0.125	NO
			PM	0.307	A	0.346	A	0.039	NO
4	Roxford Street	Foothill Blvd	AM	0.571	A	0.602	B	0.031	NO
			PM	0.379	A	0.396	A	0.017	NO
5	Roxford Street	Glenoaks Blvd	AM	0.492	A	0.517	A	0.025	NO
			PM	0.299	A	0.311	A	0.012	NO
6	Roxford Street	San Fernando Road	AM	0.431	A	0.443	A	0.012	NO
			PM	0.381	A	0.389	A	0.008	NO
7	Roxford Street	Encinitas Ave/I-5 Northbound	AM	0.686	B	0.696	B	0.010	NO
			PM	0.469	A	0.480	A	0.011	NO
8	Roxford Street	I-5 Southbound Ramps	AM	0.861	D	0.866	D	0.005	NO
			PM	0.581	A	0.593	A	0.012	NO
10	Bledsoe St	Foothill Blvd	AM	0.261	A	0.279	A	0.018	NO
			PM	0.194	A	0.216	A	0.022	NO
11	Bledsoe St	Glenoaks Blvd	AM	0.417	A	0.421	A	0.004	NO
			PM	0.287	A	0.291	A	0.004	NO
12	Polk St	I-210 Westbound Ramps	AM	0.665	B	0.681	B	0.016	NO
			PM	0.579	A	0.587	A	0.008	NO
13	Polk St	I-210 Eastbound Ramps	AM	0.803	D	0.810	D	0.007	NO
			PM	0.536	A	0.550	A	0.014	NO
14	Polk St	Foothill Blvd	AM	0.749	C	0.758	C	0.009	NO
			PM	0.664	B	0.683	B	0.019	NO

[a] Intersection 9 is stop controlled and is analyzed only to determine the need for signalization, per LADOT guidelines.

FUTURE STREET NETWORK CHANGES

The Sylmar Community Plan anticipates that an existing 1-block gap between Olive View Drive and Eldridge Avenue will be removed following construction of a new street segment. There are also plans to connect Encinitas Avenue with Laurel Canyon Boulevard and Amboy Avenue with Edgecliff Avenue. The plan also calls for a widening of Roxford Street between Telfair Avenue and Foothill Boulevard to two travel lanes in each direction. According to information from LADOT, a new traffic signal will be installed at the intersection of West Way and Olive View Drive on the western edge of the Olive View-UCLA Medical Center Campus.

CUMULATIVE (2035) BASE TRAFFIC GENERATION

In order to evaluate the potential impact of the proposed project in the future on the surrounding street system, it was necessary to develop estimates of future traffic conditions both with and without the project. Future traffic volumes without the project were first estimated, the Cumulative (2035) base conditions. The trips generated by the proposed project are then estimated and separately assigned to the surrounding street system.

Cumulative (2035) base traffic projections reflect growth in traffic from two primary sources: background or ambient growth in the existing traffic volumes to reflect the effects of overall regional growth both in and outside of the study area, and traffic generated by specific projects in, or in the vicinity of, the study area. These factors are described below.

AREAWIDE TRAFFIC GROWTH

As part of the MOU process with agency staff, an areawide traffic growth of 0.46% per year was agreed upon for the study area, based on data in the most recent Congestion Management Program (CMP) for Los Angeles County. Future increases in the background traffic volumes due to regional growth and development are expected to continue at this rate, at least through 2035. Existing baseline 2016 traffic volumes were adjusted upward by a factor of 9.1% to reflect areawide regional growth up to 2035.

RELATED PROJECTS TRAFFIC GENERATION

As indicated, the second major source of traffic growth in the study area is from specific cumulative development projects, also called related projects, expected to be built in the vicinity of the proposed project site prior to the proposed buildout. Data describing cumulative projects in the area was gathered from LADOT, Los Angeles Department of City Planning (LADCP), Los Angeles County of Department of

Regional Planning, and from recent environmental studies. A total of 14 cumulative projects were identified in the surrounding area and are listed in Table 5. The locations of the related projects are illustrated in Figure 10. Trip generation estimates for these related projects are conservative in that they do not in every case account for either the existing uses to be removed or the possible use of non-motorized travel modes (transit, walking, etc.).

RELATED PROJECTS TRIP DISTRIBUTION AND TRAFFIC ASSIGNMENT

The geographic distribution of the traffic generated by the cumulative projects is dependent on several factors. These factors include the type and density of the proposed land uses, the geographic distribution of population from which the employees and potential patrons of the proposed developments are drawn, and the location of the employment and commercial centers to which residents of residential projects would be drawn, and the location of the projects in relation to the surrounding street system. If available, trip distribution from a cumulative project's traffic study was used in this analysis. When trip distribution was not available for a cumulative project, it was estimated based on the factors described above. Figure 11 shows the traffic generated from the related projects at the study intersections.

CUMULATIVE (2035) BASE TRAFFIC VOLUMES

Related project volumes were added to the cumulative traffic volumes to create the Cumulative (2035) base volumes, illustrated in Figure 12, which represent conditions prior to the addition of project traffic.

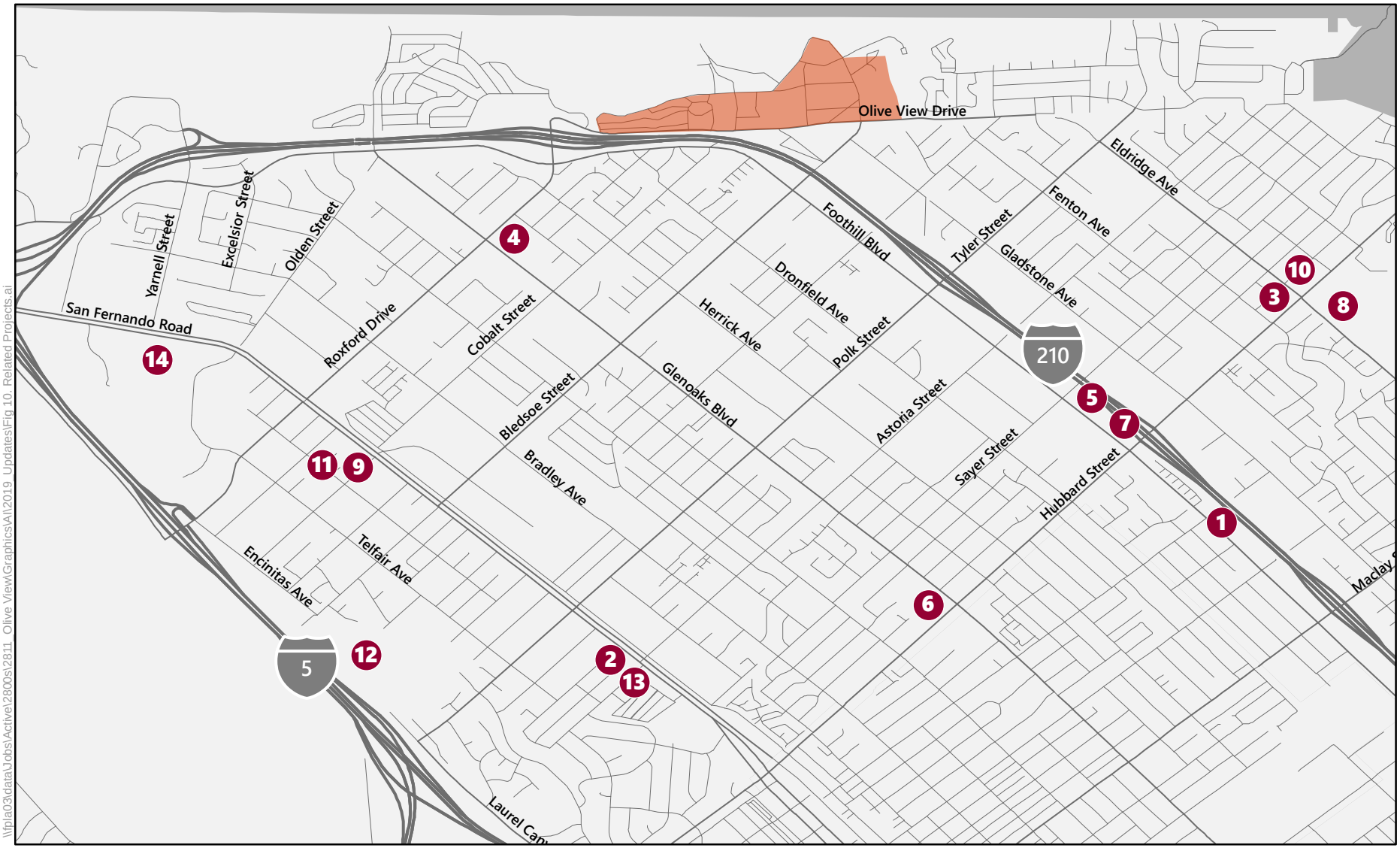
Table 6 summarizes the Cumulative (2035) LOS analysis. Three of the study intersections are projected to operate at LOS E during the AM peak hour:

8. Roxford Street & I-5 Southbound Ramp
9. Polk Street & I-210 Eastbound Ramps
14. Polk Street & Foothill Boulevard

TABLE 5
RELATED PROJECTS TRIP GENERATION ESTIMATES

No.	Project Location or Name	Land Use	Size [a]	Estimated Trip Generation [b]						
				Daily Trips	AM Peak Hour Trips			PM Peak Hour Trips		
					In	Out	Total	In	Out	Total
1	13401 Foothill Boulevard	Condominiums	250 Units	165	19	91	110	87	43	130
2	12415 San Fernando Road*	Senior Housing Medical Office	150 Units 25.000 KSF	1,335	49	19	68	32	68	100
3	13245 Hubbard Street	High School	500 Students	270	109	46	155	62	53	115
4	13530 Glenoaks Boulevard*	Retail	7.486 KSF	5,400	200	130	330	100	100	200
5	13763 Foothill Boulevard	Fast Food	4.150 KSF	435	20	24	44	7	15	22
6	12625 Glenoaks Boulevard*	Gas Station	5 Fueling Positions	843	31	30	61	35	35	70
7	13651 Foothill Boulevard*	Coffee with Drive Thru Specialty Retail	2.240 KSF 7.000 KSF	1,196	61	58	119	31	34	65
8	Los Angeles Mission College Master Plan [c]	College	N/A	N/A	550	105	655	392	231	623
9	15523 W Cobalt St [d]	Single Family Residences	12 Units	114	2	7	9	8	4	12
10	13228 W Aztec St [d]	Single Family Residences	3 Units	29	1	2	2	2	1	3
11	12995 N El Dorado Avenue [d]	Single Family Residences	3 Units	29	1	2	2	2	1	3
12	Lakeside Park	Park	N/A	810	145	38	183	155	160	315
13	12385 San Fernando Rd	Condominiums Single Family Home Shopping Center General Office Auto Care Center	246 Units -1 Unit 9.000 KSF 0.900 KSF -2.000 KSF	1,482	35	81	106	82	53	135
14	13503 San Fernando Rd	Industrial Rec. Facility	225.000 KSF 9.9 acres	4,202	266	71	337	108	277	385

a. KSF is thousands of square feet.
b. Trip Generation estimates for daily trips, Total AM trips and Total PM trips provided by LADOT. Inbound and outbound split based on data in ITE Trip Generation, 9th Edition, 2012, except as noted.
c. Trip Generation provided by Los Angeles Mission College Master Plan and Public Recreation Improvement DEIR (Ocotober 2005). Rates for inbound and outbound trips provided by ITE Trip Generation, 9th Edition, 2012.
d. Projects provided by Los Angeles Department of City Planning (LADCP). Trip generation estimates based on ITE Trip Generation, 9th Edition, 2012.
* Denotes project has been constructed and occupied.



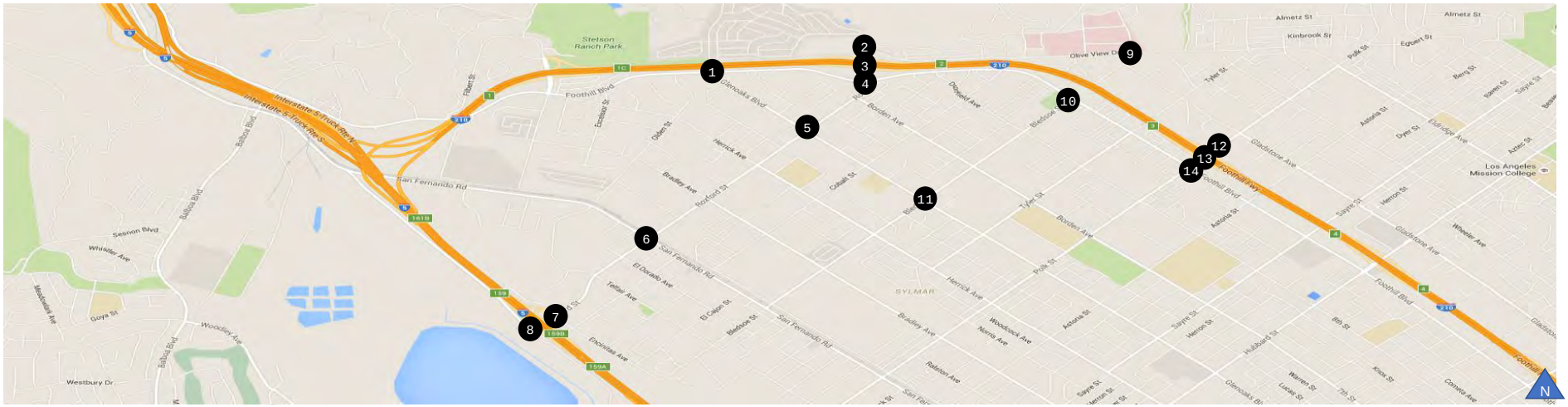
\\fpla03\data\Jobs\Active\2800s\2811_Olive View\Graphics\AI\2019 Updates\Fig 10_Related Projects.ai

Project Site

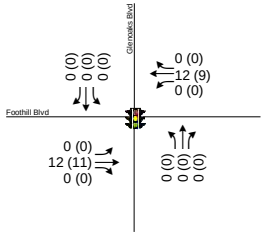
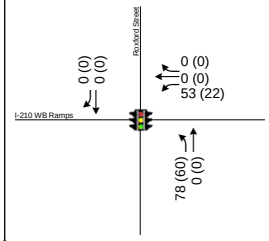
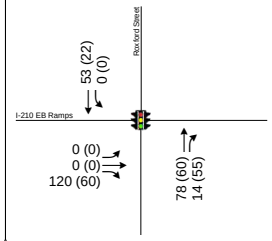
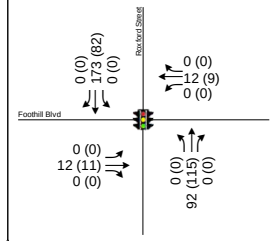
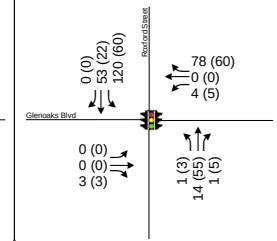
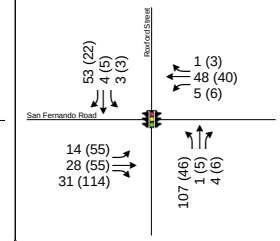
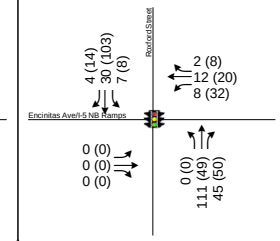
**Related Project Location**

Figure 10

Related Project Locations



Source:

1. Glenoaks Blvd/Foothill Blvd	2. Roxford Street/I-210 WB Ramps	3. Roxford Street/I-210 EB Ramps	4. Roxford Street/Foothill Blvd	5. Roxford Street/Glenoaks Blvd	6. Roxford Street/San Fernando Road	7. Roxford Street/Encinitas Ave/I-5 NB Ramps
						

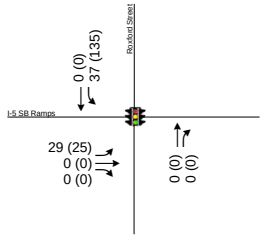
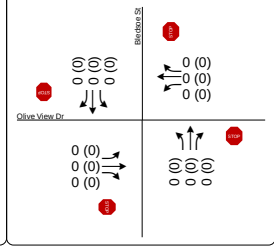
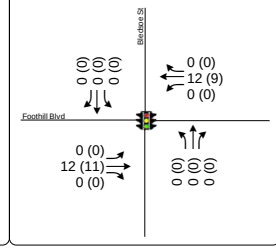
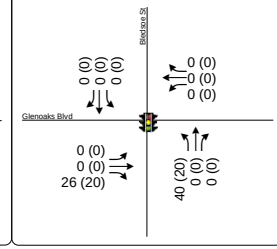
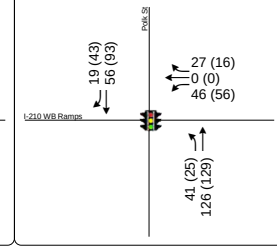
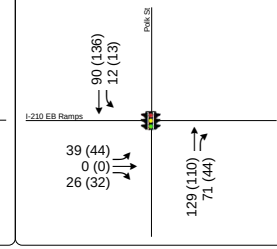
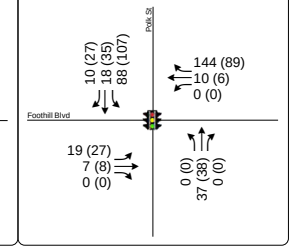
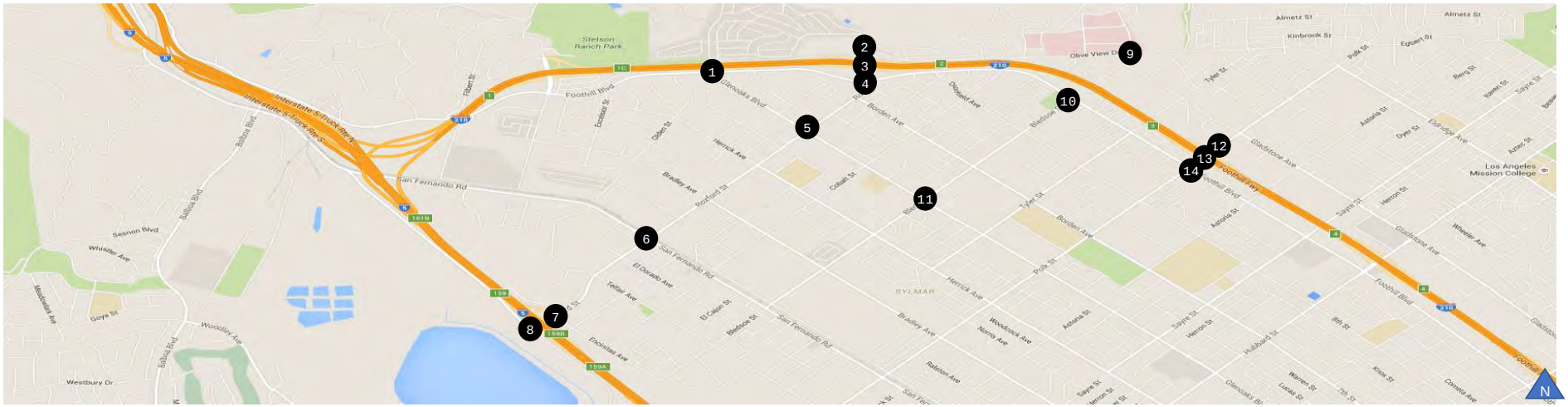
8. Roxford Street/I-5 SB Ramps	9. Bledsoe St/Olive View Dr	10. Bledsoe St/Foothill Blvd	11. Bledsoe St/Glenoaks Blvd	12. Polk St/I-210 WB Ramps	13. Polk St/I-210 EB Ramps	14. Polk St/Foothill Blvd
						

Figure 11
Related Projects Peak Hour Traffic Volumes



Source:

1. Glenoaks Blvd/Foothill Blvd
2. Roxford Street/I-210 WB Ramps
3. Roxford Street/I-210 EB Ramps
4. Roxford Street/Foothill Blvd
5. Roxford Street/Glenoaks Blvd
6. Roxford Street/San Fernando Road
7. Roxford Street/Encinitas Ave/I-5 NB Ramps
8. Roxford Street/I-5 SB Ramps
9. Bledsoe St/Olive View Dr
10. Bledsoe St/Foothill Blvd
11. Bledsoe St/Glenoaks Blvd
12. Polk St/I-210 WB Ramps
13. Polk St/I-210 EB Ramps
14. Polk St/Foothill Blvd

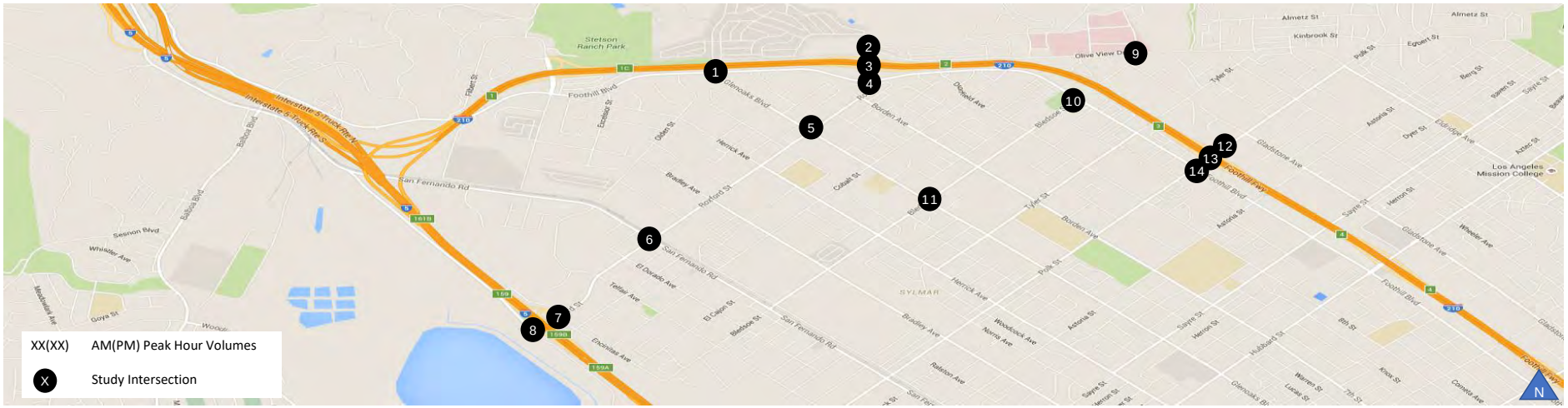
Figure 12
Cumulative (2035) Base Peak Hour Traffic Volumes

CUMULATIVE (2035) PLUS PROJECT TRAFFIC VOLUMES

Estimated project traffic volumes in Figure 8 were added to the Cumulative (2035) Base traffic volumes in Figure 12 to create the Cumulative (2035) plus Project volumes, illustrated in Figure 13. The Cumulative (2035) plus Project scenario presents future traffic conditions following the completion of the proposed project.

Table 6 summarizes the Cumulative (2035) plus Project LOS analysis. Three of the study intersections are projected to operate at LOS E during the AM peak hour:

8. Roxford Street & I-5 Southbound Ramp
13. Polk Street & I-210 Eastbound Ramps
14. Polk Street & Foothill Boulevard



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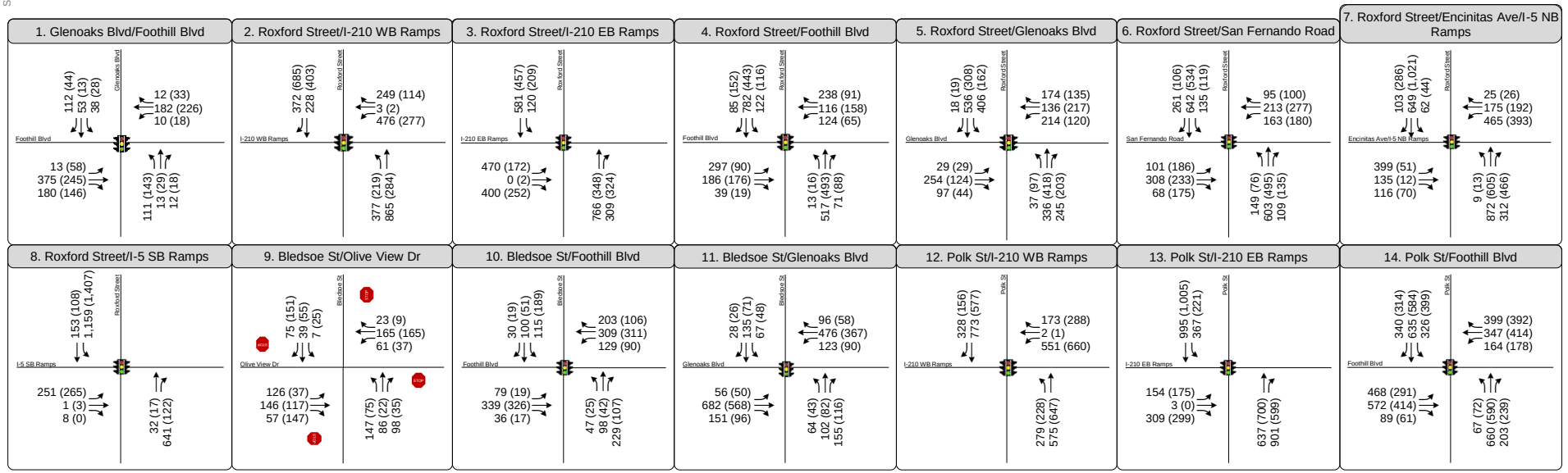


Figure 13
Cumulative (2035) + Project Peak Hour Traffic Volumes

TABLE 6
CUMULATIVE (2035) PLUS PROJECT
INTERSECTION LEVEL OF SERVICE ANALYSIS

ID [a]	North/South Street Name	East/West Street Name	Peak Hour	Cumulative		Cumulative+Project		Project Increase In V/C	Significant Impact?
				V/C	LOS	V/C	LOS		
1	Glenoaks Blvd	Foothill Blvd	AM	0.283	A	0.301	A	0.018	NO
			PM	0.197	A	0.217	A	0.020	NO
2	Roxford Street	I-210 Westbound Ramps	AM	0.596	A	0.642	B	0.046	NO
			PM	0.539	A	0.634	B	0.095	NO
3	Roxford Street	I-210 Eastbound Ramps	AM	0.607	B	0.692	B	0.085	NO
			PM	0.419	A	0.459	A	0.040	NO
4	Roxford Street	Foothill Blvd	AM	0.747	C	0.779	C	0.032	NO
			PM	0.508	A	0.523	A	0.015	NO
5	Roxford Street	Glenoaks Blvd	AM	0.630	B	0.655	B	0.025	NO
			PM	0.411	A	0.423	A	0.012	NO
6	Roxford Street	San Fernando Road	AM	0.588	A	0.592	A	0.004	NO
			PM	0.487	A	0.495	A	0.008	NO
7	Roxford Street	Encinitas Ave/I-5 Northbound	AM	0.809	D	0.819	D	0.010	NO
			PM	0.568	A	0.579	A	0.011	NO
8	Roxford Street	I-5 Southbound Ramps	AM	0.969	E	0.973	E	0.004	NO
			PM	0.703	C	0.715	C	0.012	NO
10	Bledsoe St	Foothill Blvd	AM	0.292	A	0.310	A	0.018	NO
			PM	0.220	A	0.242	A	0.022	NO
11	Bledsoe St	Glenoaks Blvd	AM	0.492	A	0.493	A	0.001	NO
			PM	0.336	A	0.340	A	0.004	NO
12	Polk St	I-210 Westbound Ramps	AM	0.807	D	0.822	D	0.015	NO
			PM	0.729	C	0.737	C	0.008	NO
13	Polk St	I-210 Eastbound Ramps	AM	0.945	E	0.951	E	0.006	NO
			PM	0.666	B	0.680	B	0.014	NO
14	Polk St	Foothill Blvd	AM	0.909	E	0.918	E	0.009	NO
			PM	0.836	D	0.854	D	0.018	NO

[a] Intersection 9 is stop controlled and is analyzed only to determine the need for signalization, per LADOT guidelines.

4. TRAFFIC IMPACT ANALYSIS

This section presents an analysis of the information in the previous chapter to determine the potential traffic impacts of the proposed project on the operating conditions of the surrounding street system. The traffic impact analysis compares the projected LOS at each signalized study intersection under Existing (2019) plus Project conditions to the Existing (2019) conditions and under Cumulative (2035) plus Project conditions to the Cumulative (2035) Base conditions to estimate the incremental increase in the V/C ratio caused by the proposed project. This provides the information needed to assess the potential impact of the project using significance criteria established by local jurisdictions.

SIGNIFICANT TRAFFIC IMPACT CRITERIA

Although the County of Los Angeles is the lead agency for this project, all study intersections are located in the City of Los Angeles. The County defers to the City's threshold of significance for this project.

The City of Los Angeles has established threshold criteria to determine significant traffic impacts of a project in its jurisdiction[3]. Under the LADOT guidelines, an intersection would be significantly impacted if it experienced an increase in V/C ratio equal to or greater than 0.04 for intersections operating at LOS C, equal to or greater than 0.02 for intersections operating at LOS D, and equal to or greater than 0.01 for intersections operating at LOS E or F after the addition of project traffic. Intersections operating at LOS A or B after the addition of the project traffic are not considered significantly impacted regardless of the increase in V/C ratio. The following summarizes the impact criteria:

LOS	Final V/C Ratio	Project-Related Increase in V/C
C	0.701 - 0.800	equal to or greater than 0.040
D	0.801 - 0.900	equal to or greater than 0.020
E or F	> 0.901	equal to or greater than 0.010

[3] *Traffic Study Policies and Procedures* (City of Los Angeles Department of Transportation, December 2016).

EXISTING PLUS PROJECT IMPACT ANALYSIS

The Existing plus Project volumes as estimated in the previous chapter were analyzed to determine potential operating conditions and traffic impacts with the addition of incremental project-generated traffic associated with the Tier I development of Olive View-UCLA Medical Center Master Plan on the Existing conditions. Table 4 shows the results of the analysis. After applying the aforementioned significant impact criteria, it was determined that the proposed project would result in no significant impacts at analyzed intersections under Existing (2019) plus Project conditions. Detailed level of service worksheets are provided in Appendix C.

CUMULATIVE (2035) PLUS PROJECT IMPACT ANALYSIS

The Cumulative (2035) plus Project peak hour traffic volumes were analyzed to determine the projected V/C ratio and LOS for each of the analyzed intersections. Table 6 summarizes the Cumulative (2035) plus Project LOS. As shown in the table, using the criteria for determination of significant impacts, the proposed project would result in no significant impacts at analyzed intersections under Cumulative (2035) plus Project conditions. Detailed level of service worksheets are provided in Appendix C.

MITIGATION MEASURES

The traffic impact analysis determined that the proposed development would not result in significant traffic impacts at any of the analyzed intersections under Existing plus Project or Cumulative (2035) plus Project conditions. Therefore, no mitigations are required.

SIGNAL WARRANT ANALYSIS

Olive View Drive & Bledsoe Street (intersection #9) is currently unsignalized. The City of Los Angeles traffic analysis methodology and significance criteria apply to signalized intersections only. Impact analysis is not conducted for unsignalized intersections. The LADOT Traffic Study Policies & Procedures state that "unsignalized intersections should be evaluated solely to determine the need for the installation of a traffic signal or other traffic control device."

Traffic volumes and lane configurations – using volumes from Figures 5, 9, 12 and 13 – were used to prepare signal warrant analyses at the unsignalized intersections under Existing, Existing plus Project, Cumulative

(2035) Base, and Cumulative (2035) plus Project conditions. The warrant analyses were conducted in accordance with the procedures described in Chapter 4C of the *California Manual on Uniform Traffic Control Devices 2014* (MUTCD 2014). The warrant for a traffic signal is met if the following conditions exist for the same one hour of an average day:

1. The total stopped time delay experienced by the traffic on one minor-street approach (one direction only) controlled by a stop sign equals or exceeds four vehicle-hours for a 1-lane approach or five vehicle-hours for a 2-lane approach.
2. The volume on the same minor-street approach (one direction only) equals or exceeds 100 vehicles per hour for one moving lane of traffic or 150 vehicles per hour for two moving lanes.
3. The total entering volume serviced during the hour equals or exceeds 650 vehicles per hour for intersections with three approaches or 800 vehicles per hour for intersections with four or more approaches.

As shown in Table 7, the Bledsoe Street & Olive View Drive intersection does not meet the signal warrant thresholds. Signal warrant worksheets are included in Appendix E.

TABLE 7
INTERSECTION SIGNAL WARRANT ANALYSIS

ID	N/S Street Name	E/W Street Name	Analyzed Period	Existing	Existing plus Project	Cumulative (2035) Base	Cumulative (2035) plus Project
9 [a]	Bledsoe St	Olive View Dr	AM	NO	NO	NO	NO
			PM	NO	NO	NO	NO

[a] Detailed analysis presented in Appendix E.

5. REGIONAL TRANSPORTATION IMPACT ANALYSIS

This chapter presents an analysis of potential project impacts on the regional transportation system in terms of vehicular and transit service impacts. This analysis was conducted in accordance with the transportation impact analysis (TIA) procedures outlined in *2010 Congestion Management Program for Los Angeles County* (Los Angeles County Metropolitan Transportation Authority, October 2010). The Congestion Management Program (CMP) requires that, when an environmental impact report (EIR) is prepared for a project, traffic and transit impact analyses be conducted for select regional facilities based on the quantity of project traffic expected to use these facilities.

In addition, after consultation with Caltrans, further analyses of State facilities was conducted to determine the potential project impacts. An analysis was conducted for freeway mainline segments, freeway ramp queueing and a signalized intersection involving Caltrans-controlled facilities.

CMP TRAFFIC IMPACT ANALYSIS

CRITERIA FOR ANALYSIS

The CMP guidelines state that the first issue addressed be the determination of the geographic scope of the study area. The criteria for determining the study area for CMP arterial monitoring intersections and for freeway monitoring locations are:

- All CMP arterial monitoring intersections where the proposed project will add 50 or more trips during either the AM or PM weekday peak hours of adjacent street traffic.
- All CMP mainline freeway monitoring locations where the proposed project will add 150 or more trips, in either direction, during either the AM or PM weekday peak hours.

The CMP traffic impact analysis guidelines establish that a significant project impact occurs when the proposed project increases traffic demand on a CMP facility by 2% or more of capacity (V/C 0.02), causing or worsening LOS F (V/C > 1.00).

ARTERIAL MONITORING STATION ANALYSIS

The CMP arterial monitoring stations nearest to the project study area are Sierra Highway & San Fernando Road to the north and Victory Boulevard & Woodman Avenue to the south. These intersections are approximately three and 10 miles from the project site, respectively. Based on the project trip generation estimates and distribution, the proposed project would not add 50 or more vehicle trips through either of these stations. Therefore, no further analysis is required for the CMP arterial intersections.

FREEWAY MAINLINE MONITORING STATION ANALYSIS

This section presents an analysis of potential project impacts on the regional freeway system. This analysis was conducted in accordance with the transportation impact analysis procedures outlined in the CMP. The nearest CMP mainline freeway monitoring locations nearest to the project site are:

- I-5 north of State Route 14 (Station 1008)
- I-5 at Osborne Street (Station 1007)
- I-210 east of Polk Street (1058)

According to the trip generation estimates shown in Table 3 and trip distribution estimates presented in Figure 6, the project would result in an increase of up to 58 inbound trips in the morning and up to 60 outbound trips in the evening peak hour on I-5 north of State Route 14, an increase of up to 129 inbound trips in the morning and up to 135 outbound trips in the evening peak hour on I-5 at Osbourne Street, and an increase of up to 72 inbound trips in the morning and up to 75 outbound trips in the evening peak hour on I-210 east of Polk Street. Since fewer than 150 trips would be added during the AM or PM peak hours in the vicinity of the study area, no further analysis of the freeway segments at these segments is required for CMP purposes. A further analysis of the regional freeway system, using both Caltrans and CMP methodology, for I-210, is discussed below.

REGIONAL TRANSIT IMPACT ANALYSIS

Potential increases in transit person trips generated by the proposed project were estimated as follows. Section D.8.4 of the CMP provides a methodology for estimating the number of transit trips expected to result from a proposed project based on the number of vehicle trips. This methodology assumes an average vehicle ridership (AVR) factor of 1.4 in order to estimate the number of person trips to and from the project and then provides guidelines regarding the percentage of person trips assigned to public transit depending on the type of use (commercial versus residential) and the proximity to transit services. Since the project

site is not located within ¼ mile of a designated CMP transit corridor, the CMP guidelines estimate that approximately 3.5% of total person trips generated might use public transit to travel to and from the site. It should be noted that the trip generation estimates for this project include a more conservative transit estimate of 2% based on existing data collected at the site.

Based on the trip generation shown in Table 3, including transit/walk/bike and carpool credits, the existing site is estimated to generate 6,132 daily trips, and the proposed project is estimated to generate 9,973 daily trips, for a net new daily trips of 3,841. Using this same methodology, there are 393 net new AM trips and 401 net new PM trips. Applying the CMP guidelines by converting the vehicle trips to person trips by multiplying by a 1.4 AVR (393 net AM peak hour trips x 1.4 = 550 and 401 net PM peak hour trips x 1.4 = 561) and applying a 3.5% transit use factor (550 net AM peak hour person trips x 3.5% = 19 and 561 net PM peak hour person trips x 3.5% = 20), results in an estimate of approximately 20 new transit person trips during the weekday AM and PM peak hours.

Within ¼ mile of the project site, Metro operates two local lines and within two miles LADOT operates one express bus. These routes have peak period headways of between 20 and 40 minutes. The bus services have an approximate capacity of approximately 560 persons during the peak hours, based on a seating capacity of 40 persons for a standard bus and 40 persons for an express bus and a policy load factor of 1.0. The proposed project would utilize 4% of available transit capacity during the peak hours. Based on this estimate, the project impact is expected to be less than significant.

ANALYSIS OF STATE HIGHWAY SYSTEM

RAMP QUEUEING ANALYSIS

A freeway ramp queuing analysis was conducted at five freeway ramp terminal intersections in the project vicinity in response to a request from Caltrans:

- I-210 Westbound Off-Ramp at Roxford Street (Exit 2)
- I-210 Eastbound Off-Ramp at Roxford Street (Exit 2)
- I-210 Westbound Off-Ramp at Polk Street (Exit 3)
- I-210 Eastbound Off-Ramp at Polk Street (Exit 3)
- I-5 Northbound Off-Ramp at Roxford Street (Exit 159A)

The Synchro traffic analysis software was used to implement the HCM methodology to calculate the 95th percentile queues at and compare them with the available vehicle storage on these ramps. Traffic signal-related information such as phasing and timing plans (minimum green, maximum green, gap, etc.) were obtained from LADOT for each location and the morning and evening peak hour traffic volumes from this study were used. Additional detail such as turn pocket lengths and ramp lengths was coded based on scaled distances from on-line aerial photographs. Following consultation between County staff and Caltrans staff, it was agreed that for the purposes of this study, an impact would be considered adverse if the off-ramp queue extends beyond the length of the ramp itself onto the mainline of the freeway during the peak arrival period. For the purposes of this project the queueing analysis uses the 85% of the ramp length as the effective length. Detailed queue calculations are provided in Appendix D.

Table 8 presents a summary of the ramp queuing analysis for Existing conditions and the Existing plus Project, and Cumulative (2035) plus Project scenarios. The queue lengths are shown not exceed the available ramp storage at any of the locations.

At the request of Caltrans, the existing and projected traffic queues on the northbound left-turn lane from Roxford Street onto westbound I-210 were calculated. The northbound left-turn lane from Roxford Street onto eastbound I-210 is approximately 180 feet long. Under existing conditions, the 95th percentile queue is calculated to be approximately 230 feet in the AM peak hour and 80 feet in the PM peak hour, increasing under Existing plus Project conditions to 245 feet in the AM peak hour and 145 feet in the PM peak hour. The projected 95th percentile northbound left-turn queue under Cumulative plus Project conditions is approximately 355 feet in the AM peak hour and 180 feet in the PM peak hour. Thus, the available storage length is exceeded under existing and future conditions in the AM peak hour. In the PM peak hour under all scenarios the available storage would not be exceeded. Potential options to increase the queue storage on the northbound approach could include (a) modifying the signal timing to provide more green time for this movement when needed or (b) extending the turn lane by restriping the median and left-turn lane. Queuing on a local street is not identified as significant impact in this study and these options are not recommended as mitigation measures but are provided as information at the request of Caltrans.

FREEWAY MAINLINE ANALYSIS

Morning and afternoon peak hour analysis of two selected freeway mainline segments in the project vicinity was conducted in response to a request from Caltrans:

- I-210 west of SR 118
- I-210 east of I-5

Caltrans Performance Measurement System (PeMS) data from October 2018 was used for highway counts. Project-generated trips were assigned to the regional freeway system as described in Chapter 3. The freeway level of service methodology described in the *Highway Capacity Manual* was used to determine the vehicle density on each analyzed segment (passenger cars per mile per lane) by direction and the corresponding level of service. The level of service definitions used for freeway mainline segments are shown in Table 9.

Following consultation with County staff and Caltrans staff, it was agreed that for the purposes of this study, an impact would be considered adverse if the analyzed freeway segment were found to operate at LOS F and the vehicle to capacity ratio increased by more than 2%. As shown in Table 10, this condition is not met at any of the analyzed freeway segments and the project impact would be considered less than significant.

TABLE 8
PEAK HOUR OFF-RAMP INTERSECTION 95TH PERCENTILE QUEUES

Ramp	Cross Street	Ramp Length (ft) [a]	85% Ramp Length (ft)	Ramp Turn Lanes at Intersection			Control	Existing				Queue 85% Exceeds Storage?	Existing + Project				Queue 85% Exceeds Storage?
								AM Queue		PM Queue			AM Queue		PM Queue		
				Lanes	Move	Length [a]		Lane (ft)	Max (ft)	Lane (ft)	Max (ft)		Lane (ft)	Max (ft)	Lane (ft)	Max (ft)	
I-210 Westbound Off-Ramp	Roxford Street	1110	940	2	Left Right/Through/Left	520 1110	Signal	152 95	152	106 63	106	No	167 131	167	108 58	108	No
I-210 Eastbound Off-Ramp	Roxford Street	1050	890	2	Right Through/Left	550 1050	Signal	46 187	187	39 72	72	No	46 331 [b]	331 [b]	38 94	94	No
I-210 Westbound Off-Ramp	Polk Street	930	790	2	Right Through/Left	460 930	Signal	20 176	176	45 435 [b]	435 [b]	No	21 187	187	45 442 [b]	442 [b]	No
I-210 Eastbound Off-Ramp	Polk Street	1180	1000	2	Right Through/Left	690 1180	Signal	118 58	118	112 66	112	No	120 58	120	112 66	112	No
I-5 Southbound Off-Ramp	Roxford Street	980	830	2	Through/Left Through/Right	980 250	Signal	410 [b] 98	410[b]	340 [b] 52	340 [b]	No	417 [b] 98	417 [b]	355 [b] 52	355 [b]	No
I-5 Northbound Off-Ramp at Encinitas Ave	Roxford Street	1500	1280	2	Left Through/Right	190 1500	Signal	53 310 [b]	310 [b]	40 572 [b]	572 [b]	No	53 317 [b]	317 [b]	40 592 [b]	592 [b]	No

Ramp	Cross Street	Ramp Length (ft) [a]	85% Ramp Length (ft)	Ramp Turn Lanes at Intersection			Control	Cumulative (2035) plus Project				Queue 85% Exceeds Storage?
								AM Queue		PM Queue		
				Lanes	Move	Length [a]		Lane (ft)	Max (ft)	Lane (ft)	Max (ft)	
I-210 Westbound Off-Ramp	Roxford Street	1110	940	2	Left Right/Through/Left	520 1110	Signal	200 163	200	116 66	116	No
I-210 Eastbound Off-Ramp	Roxford Street	1050	890	2	Right Through/Left	550 1050	Signal	149 354 [b]	354 [b]	46 101	101	No
I-210 Westbound Off-Ramp	Polk Street	930	790	2	Right Through/Left	460 930	Signal	46 234	234	89 535 [b]	535 [b]	No
I-210 Eastbound Off-Ramp	Polk Street	1180	1000	2	Right Through/Left	690 1180	Signal	140 71	140	136 80	136	No
I-5 Southbound Off-Ramp	Roxford Street	980	830	2	Through/Left Through/Right	980 250	Signal	500 [b] 108	500	473 [b] 57	473 [b]	No
I-5 Northbound Off-Ramp at Encinitas Ave	Roxford Street	1500	1280	2	Left Through/Right	190 1500	Signal	62 373 [b]	373 [b]	15 448 [b]	448 [b]	No

[a]: Storage lengths based on scaled distances from on-line aerial photographs
[b]: 95th percentile volume exceeds capacity, queue may be longer. Queue shown is maximum after two cycles

TABLE 9
LEVEL OF SERVICE DEFINITIONS FOR
FREEWAY MAINLINE AND
MULTILANE HIGHWAY SEGMENT ANALYSES

LOS Criteria for Freeway Segments

Level of Service	Density Range (pc/mi/ln)*
A	0-11
B	>11-18
C	>18-26
D	>26-35
E	>35-45
F	>45

Note:

* pc/mi/ln denotes passenger cars per mile per lane

Source: Highway Capacity Manual, Exh. 23-3, Transportation Research Board, 2010.

TABLE 10
EXISTING AND CUMULATIVE (2035) PEAK HOUR FREEWAY SEGMENT ANALYSIS

Name [a]	Peak Hour	Direction	Existing				Existing plus Project				Change in V/C	Project Impact? [b]
			Density (pc/mi/ln)*	LOS	Volume	V/C	Density (pc/mi/ln)*	LOS	Volume	V/C		
I-210 between Yarnell Street and Roxford Street	AM	EB	45.8	F	6,518	0.925	48.0	F	6,647	0.943	0.018	NO
	AM	WB	23.2	C	4,131	0.586	23.4	C	4,179	0.593	0.007	NO
	PM	EB	32.2	D	6,214	0.881	32.6	D	6,260	0.888	0.007	NO
	PM	WB	46.5	F	6,562	0.931	48.8	F	6,697	0.950	0.019	NO
I-210 between Polk Street and Hubbard Street	AM	EB	41.4	E	6,214	0.881	41.8	E	6,240	0.885	0.004	NO
	AM	WB	28.6	D	4,936	0.700	29.1	D	5,008	0.710	0.010	NO
	PM	EB	34.2	D	5,582	0.792	34.9	D	5,657	0.802	0.010	NO
	PM	WB	98.1	F	8,159	1.157	99.7	F	8,184	1.161	0.004	NO

Name [a]	Peak Hour	Direction	Cumulative (2035)				Cumulative (2035) plus Project				Change in V/C	Cumulative Impact? [b]
			Density (pc/mi/ln)*	LOS	Volume	V/C	Density (pc/mi/ln)*	LOS	Volume	V/C		
I-210 between Yarnell Street and Roxford Street	AM	EB	58.8	F	7,172	1.017	62.2	F	7,301	1.036	0.019	NO
	AM	WB	25.9	C	4,566	0.648	26.2	D	4,614	0.654	0.006	NO
	PM	EB	37.5	E	5,893	0.836	38.0	E	5,939	0.842	0.006	NO
	PM	WB	58.5	F	7,162	1.016	62.0	F	7,297	1.035	0.019	NO
I-210 between Polk Street and Hubbard Street	AM	EB	49.9	F	6,758	0.959	50.4	F	6,784	0.962	0.003	NO
	AM	WB	32.6	D	5,417	0.768	33.3	D	5,489	0.779	0.011	NO
	PM	EB	39.9	E	6,097	0.865	40.8	E	6,172	0.875	0.010	NO
	PM	WB	174.7	F	8,840	1.254	179.7	F	8,865	1.257	0.003	NO

Notes:
* pc/mi/ln denotes passenger cars per mile per lane
[a] Analyzed using Freeway methodology from *Highway Capacity Manual,* Transportation Research Board, 2010.
[b] Impact criteria for this project is defined under 2 conditions. One as mainline LOS F with project compared to mainline LOS < F without project.
The second is if mainline without project is already LOS F and mainline with project is 2% increase in volume/capacity.

6. ACTIVE TRANSPORTATION FACILITY REVIEW

As discussed in Chapter 2, the pedestrian network both within the medical center campus and adjacent to the site is incomplete. Sidewalks exist on portions of Olive View Drive, typically portions that are adjacent to developed residential properties, but sidewalks are discontinuous in front of the site. Many streets in the vicinity are bordered by dirt paths that are used by both pedestrians and equestrians. Not all intersections with sidewalks have ADA accessible ramps, and there are currently no marked crossings on Olive View Drive. Bledsoe Street, the most direct access street for pedestrians coming from the south, also does not have sidewalks or marked crossings north of Foothill Boulevard, with the exception of the bridge crossing I-210.

Within the western portion of the medical center campus, there is little dedicated pedestrian infrastructure in place. Throughout the eastern portion of the campus, however, near the hospital, sidewalks are generally present. Marked crosswalks connect the hospital building with adjacent parking lots. Sidewalks do not exist within the parking lots adjacent to the hospital, requiring pedestrians to walk through the aisles in order to access the pedestrian network. Sidewalks and crosswalks exist near the mental health building, and several crosswalks are also present on Bucher Avenue and Mesa Avenue. Within the site, the pedestrian facilities that exist are generally in good condition: sidewalks are well maintained and crosswalks are clearly visible. There is currently no dedicated bicycle infrastructure either within the project site or immediately adjacent to the project site.

The Master Plan for Olive View-UCLA Medical Center would modify pedestrian circulation patterns within the site, as shown in Figure 7. New sidewalks and paths would be provided on the north side of Olive View Drive, creating uniform pedestrian facilities boarding the campus. Internally, new pedestrian paths will link the existing hospital building, the new ambulatory care center and administration building with the parking structure. These improvements will address many of the existing gaps in the pedestrian network within the site.

Figure 14 identifies additional areas that can be targeted for pedestrian improvements. The figure shows locations for possible short and long-term potential improvements. Short-term improvements are identified at the intersection of Olive View Drive & Bledsoe Street, on Mesa Avenue within the site, and connecting the eastern and western portions of the campus. Short-term improvement could include, but are not limited to, signage (regulatory, warning and guidance) and striping.

\\fpla03\data\Jobs\Active\2800s\2811_Olive View\Graphics\INDD\Fig 14. ExistingSiteCirc.indd

Figure 14

Existing Site Circulation and Identified Locations for Potential Pedestrian Improvements

Potential short-term improvements are shown in Figure 15, including pedestrian warning signage on Mesa Avenue and Bucher Avenue, marked crosswalks at Olive View Drive & Bledsoe Street, and improved pedestrian wayfinding and paths west of the hospital. Long-term improvements have been identified on Olive Drive adjacent to the site and on Bledsoe Drive connecting the site with the surrounding neighborhood. Long-term improvement may include larger infrastructure projects, such as sidewalk and trail construction. Tier I development includes trail and circulation changes that will improve pedestrian circulation on the site, as seen in Figure 16. Additional long-term improvements on Olive View Drive and Bledsoe Street should be made after receiving community input.

Improve pedestrian wayfinding and paths

Pedestrian warning sign

Marked crossing

Vehicular access

Parking Entry

Figure 15

Existing Site Circulation and Potential Short Term Pedestrian Improvements

\\fpla03\data\Jobs\Active\2800s\2811_Olive View\Graphics\INDD\Fig 15. ShortTermPed.indd

Community Events
Gathering Area
Camp Site
Gardens
Nature Discovery
Quiet Space
Bike
Sensory/Habitat
Wild Flowers
Dog Friendly
Family
Healing Garden
Picnic / Seating
View Deck
Riparian
Active / Fitness
Trailhead
Retail
Visitor Center

\\fpla03data\Jobs\Active\2800s\2811_Olive View\Graphics\INDD\Fig 16. Tier 1 Planned Trail Development.indd

Figure 16

Tier 1 Planned Trail Development

7. TIER II ANALYSIS

PROJECT TRAFFIC

As indicated in Chapter 1, the Master Plan allows for development beyond the 2035 planning horizon of Tier I development that is fully analyzed in this study. Tier II development is envisioned to include the following net changes compared to existing conditions:

- Addition of 43,700 square feet (sf) of administrative office space
- Addition of 103,000 sf of new utility plant and maintenance facilities
- Addition of 913,000 sf of new hospital space
- Addition of 18,800 sf of warehouse/storage space
- Removal of 11,000 sf of mental health facilities
- Addition of 128 short-term housing units for special needs patients
- Addition of 20,000 sf of community center space
- Addition of 120,000 sf of research and development space
- Addition of 40,000 sf of retail space

Tier II development on the site was qualitatively evaluated to determine its potential impacts on the surrounding transportation system. Trip generation was estimated and a qualitative assessment of potential traffic impacts was made for informational purposes at this time. A quantitative analysis of each alternative was not prepared for Tier II development as part of this study, as no specific entitlements for development of that long-term vision for the medical center are currently sought.

Vehicle trip generation for the project was estimated using the same methodology described in Chapter 3, including internal trip credits, bike/walk/transit credits and carpool credits.

Table 11 presents the estimated trip generation for full development of Tier II. Compared to the existing development on the site, the full buildout is estimated to generate a net increase of approximately 10,509 daily trips, including approximately 774 trips (545 inbound/229 outbound) during the AM peak hour and approximately 927 trips (282 inbound/645 outbound) during the PM peak hour. Overall distribution pattern for these trips would be similar to what is described above for Tier I development.

POTENTIAL IMPACTS OF TIER II DEVELOPMENT

The increase in project trips associated with the full buildout of Tier II development and the expected increase of ambient trips beyond 2035 near the project could lead to impacts at some intersections in the vicinity.

The estimated trip generation of full buildout of the Master Plan would be approximately 190% to 280% higher than that of Tier I development in each of the analyzed peak hours. While no intersection-level impacts were identified based on projected Cumulative plus Project levels of service and applicable threshold criteria, the level of increased project-generated traffic with full development could result in significant impacts at several study intersections: Polk Street & I-210 Eastbound Ramps (Study Intersection 13) and Polk Street & Foothill Boulevard (Study Intersection 14). Overall, the level of project-related increase in traffic at the other analyzed intersections would be higher than with Tier I development only, and other locations could be significantly impacted.

TABLE 11
PROJECT TRIP GENERATION ESTIMATES
OLIVE VIEW-UCLA MEDICAL CENTER MASTER PLAN TIER II DEVELOPMENT

	Land Use	ITE Land Use Code	Size [a]	Trip Generation Rates [b]							Estimated Trip Generation						
				Daily	AM Peak Hour			PM Peak Hour			Daily	AM Peak Hour Trips			PM Peak Hour Trips		
				Rate	Rate	% In	% Out	Rate	% In	% Out	Trips	In	Out	Total	In	Out	Total
Existing	**EXISTING USE**																
	Administrative Office	710	108.000 ksf	*[c]*	*[c]*	*86%*	*14%*	*[c]*	*16%*	*84%*	1,143	110	18	128	19	103	122
	Day Care Center	565	82 Students	*4.09*	*[d]*	*53%*	*47%*	*[d]*	*47%*	*53%*	335	34	29	63	29	33	62
	Central Utilities/Industrial /Infrastructure [e]	120	51.000 ksf	*1.5*	*0.51*	*88%*	*12%*	*0.68*	*12%*	*88%*	77	23	3	26	4	31	35
	Hospital/Inpatient	610	534.300 ksf	*10.72*	*[f]*	*68%*	*32%*	*[f]*	*32%*	*68%*	5,728	355	167	522	175	374	549
	Warehouse/Storage	150	49.300 ksf	*[g]*	*[g]*	*77%*	*23%*	*[g]*	*27%*	*73%*	123	24	7	31	9	25	34
	Mental Health	720	11.000 ksf	*[h]*	*[h]*	*78%*	*22%*	*[h]*	*28%*	*72%*	335	24	7	31	11	28	39
	Project Site Subtotal										**7,742**	**570**	**231**	**801**	**247**	**594**	**841**
	Internal Capture (10%) [j]										*-774*	*-57*	-23	*-80*	*-25*	-59	*-84*
	Transit/Walk/Bike Credit (2%) [k]										*-139*	*-10*	-4	*-14*	*-4*	-11	*-15*
	Carpool (10%) [l]										*-697*	*-51*	-21	*-72*	*-22*	-54	*-76*
	Total Existing Trips										**6,132**	**452**	**183**	**635**	**196**	**470**	**666**
Proposed	**PROPOSED PROJECT (TIER I + II)**																
	Administrative Office	710	96.000 ksf	*[c]*	*[c]*	*86%*	*14%*	*[c]*	*16%*	*84%*	1,020	101	16	117	18	92	110
	Day Care Center	565	82 Students	*4.09*	*[d]*	*53%*	*47%*	*[d]*	*47%*	*53%*	335	34	29	63	29	33	62
	Central Utilities/Industrial /Infrastructure [e]	120	154.000 ksf	*1.5*	*0.51*	*88%*	*12%*	*0.68*	*12%*	*88%*	231	69	10	79	13	92	105
	Hospital/Inpatient	610	1,436.00 ksf	*10.72*	*[f]*	*68%*	*32%*	*[f]*	*32%*	*68%*	15,394	809	380	1,189	418	889	1,307
	Community Center	495	20.000 ksf	*28.82*	*[i]*	*66%*	*34%*	*[i]*	*47%*	*53%*	576	51	26	77	34	38	72
	Warehouse/Storage	150	68.100 ksf	*[g]*	*[g]*	*77%*	*23%*	*[g]*	*27%*	*73%*	153	25	8	33	10	26	36
	Research & Development	760	120.000 ksf	*[m]*	*0.42*	*75%*	*25%*	*0.49*	*15%*	*85%*	1,432	37	13	50	9	50	59
	Retail	820	40.000 ksf	37.75	0.94	62%	38%	3.81	48%	52%	1,510	24	14	38	73	79	152
	Crisis Residential Housing	[n]	80 Units								306	74	20	94	0	74	74
	Recuperative Housing	[n]	48 Units								48	12	0	12	0	12	12
	Project Site Subtotal										**20,918**	**1,236**	**516**	**1,752**	**603**	**1,385**	**1,988**
	Internal Capture (10%) [j]										*-2,056*	*-115*	-50	*-165*	*-60*	-130	*-190*
	Transit/Walk/Bike Credit (2%) [k]										*-370*	*-21*	-9	*-30*	*-11*	-23	*-34*
	Carpool (10%) [l]										*-1,851*	*-103*	-45	*-148*	*-54*	-117	*-171*
	Total Proposed Trips										**16,641**	**997**	**412**	**1,409**	**478**	**1,115**	**1,593**
Net Change	**Net New Project**										**10,509**	**545**	**229**	**774**	**282**	**645**	**927**

a. Size in thousand square feet (ksf) unless otherwise noted
b. Source: Institute of Transportation Engineers (ITE), *Trip Generation, 10th Edition* , 2018, and *Trip Generation Handbook* (3rd Edition).
c. ITE administrative office trip generation equations used rather than linear trip generation rate:
   Daily: Ln(T) = 0.97 * Ln(A) + 2.50, where T = trips, A = area in ksf
   AM Peak Hour: T = 0.94(A) + 26.49, where T = trips, A = area in ksf
   PM Peak Hour: Ln(T) = 0.95 * Ln(A) + 0.36, where T = trips, A = area in ksf
d. ITE day care center trip generation equation used rather than linear trip generation rate for AM and PM periods:
   AM Peak Hour: T = 0.66(X) + 8.42, where T = trips, X = number of students
   PM Peak Hour: Ln(T) = 0.87 * Ln(X) + 0.29, where T = trips, X = number of students
e. ITE Code 120 not included in 10th Edition "Trip Generation." Rates and directional distribution taken from ITE 9th Edition code 120, General Heavy Industrial.
f. ITE hospital trip generation equation used rather than linear trip generation rate for AM and PM periods:
   AM Peak Hour: T = 0.74(A) + 126.36, where T = trips, A = area in ksf
   PM Peak Hour: T = 0.84(A) + 100.56, where T = trips, A = area in ksf
g. ITE warehousing trip generation equation used rather than linear trip generation rate:
   Daily: T = 1.58(A) + 45.54, where T = trips, A = area in ksf
   AM Peak Hour: T = 0.12(A) + 25.32, where T = trips, A = area in ksf
   PM Peak Hour: T = 0.12(A) + 27.82, where T = trips, A = area in ksf
h. ITE medical-dental office building trip generation equation used rather than linear trip generation rate:
   Daily: T = 38.42(A) - 87.62, where T = trips, A = area in ksf
   AM Peak Hour: Ln(T) = 0.89 * Ln(A) + 1.31, where T = trips, A = area in ksf
   PM Peak Hour: T = 3.39(A) + 2.02, where T = trips, A = area in ksf
i. ITE Recreational Community Center trip generation equations used rather than linear trip generation rate:
   AM Peak Hour: Ln(T) = 0.54 * Ln(A) + 2.73, where T = trips, A = area in ksf
   PM Peak Hour: Ln(T) = 0.76 * Ln(A) + 2.00, where T = trips, A = area in ksf
j. Internal capture represents the percentage of trips between land uses that occur within the site.
k. Transit/Walk/Bike Credit informted by data from the 2016 AQMD survey.
l. Carpool Credit informted by data from the 2016 AQMD survey.
m. ITE research and development trip generation equation used for daily trips, rather than linear trip generation rate:
   Daily: T = 10.23(A) + 204.68, where T = trips, A = area in ksf
n. See Table 3B for detailed trip generation estimates for this project element.

8. CONCLUSIONS

This study was undertaken to evaluate the potential traffic impacts of the proposed Olive View-UCLA Medical Center project. The following summarizes the results of this analysis:

- The proposed project is divided into two tiers of development. Only Tier I development (through 2035) was analyzed quantitatively as part of this report. Tier I would include increases in administrative office, central utilities, hospital, and community center and decreases in warehouse/storage space. Tier II development represents a long-term vision for full buildout of the medical center, but no specific entitlements beyond Tier I are now sought and limited analysis is provided here for information only.
- The study analyzed 13 signalized intersections, one unsignalized intersections and four directional freeway segments in the vicinity of the project.
- Tier I development is estimated to generate net new 3,841 daily trips, including 393 trips (288 inbound/105 outbound) during the AM peak hour and 401 trips (101 inbound/300 outbound) during the PM peak hour.
- The LOS analysis for Existing plus Project and the Cumulative (2035) plus Project scenarios determined that the proposed project would not significantly impact traffic at any intersections.
- Analyses of potential impacts on the regional transportation system conducted in accordance with CMP requirements determined that the project would not have a significant impact on CMP monitoring intersections, freeway mainline segments or transit.
- Peak hour signal warrant analysis was conducted for one stop-controlled intersection that is adjacent to the project site. The warrant was found not to be met under either existing or future conditions for the intersection of Olive View Drive & Bledsoe Street.
- Analyses of potential impacts on the regional transportation facilities in accordance with Caltrans found no project or cumulative impacts on Interstate 210 during either the AM or PM peak hours.
- A queueing analysis was conducted on freeway off ramps near the project site. Queueing does not exceed the ramp storage at any of the analyzed off-ramp locations during any of the analyzed time periods or scenarios.
- Compared to existing trip generation, Tier II development (full build-out of the master plan) is estimated to generate approximately net new 10,603 daily trips, including approximately 781 trips in the AM peak hour and approximately 934 trips in the PM peak hour. A qualitative assessment was made and potential impacts were identified.

REFERENCES

2010 Congestion Management Program for Los Angeles County (Los Angeles County Metropolitan Transportation Authority, October 2010)

Highway Capacity Manual (Transportation Research Board, 2010)

Los Angeles Mission College Facilities Master Plan and Public Recreation Improvement Program Draft Environmental Impact Report. Volume 1. (October 2005)

Mobility Plan 2035 (City of Los Angeles, 2015); https://la2b.org/documents/

Olive View - Medical Center Campus Master Plan. (Draft Print. August 26, 2015)

Sylmar Community Plan (City of Los Angeles Department of City Planning, June 2015)

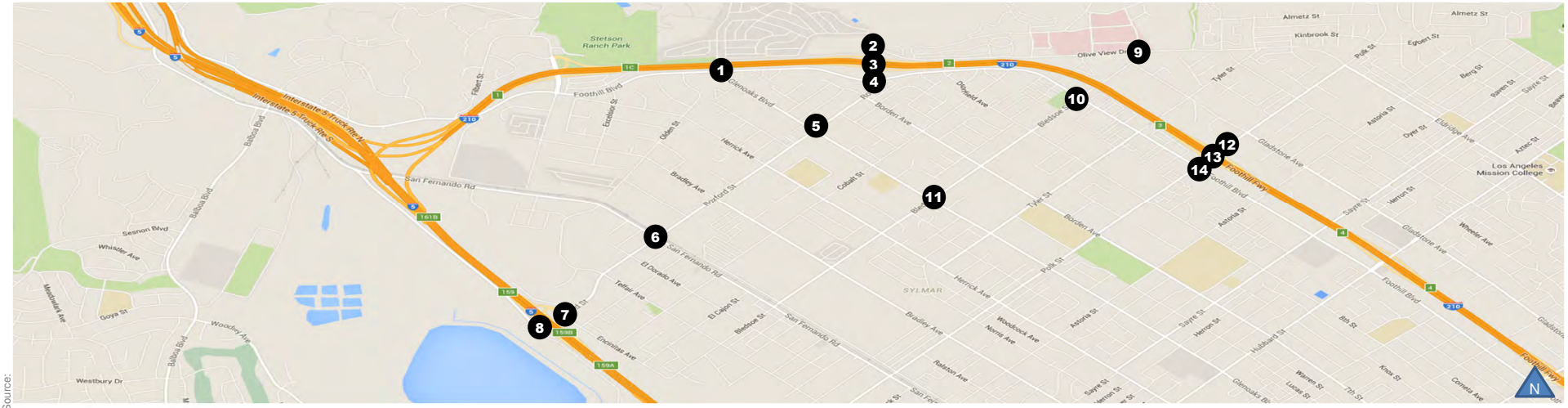
Traffic Study Policies and Procedures (City of Los Angeles Department of Transportation, December 2016)

Transportation Research Circular No. 212, Interim Materials on Highway Capacity (Transportation Research Board, 1980)

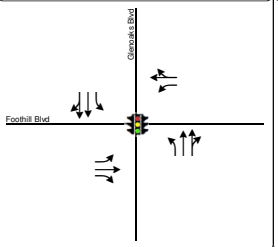
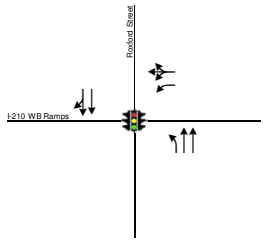
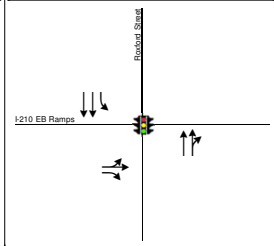
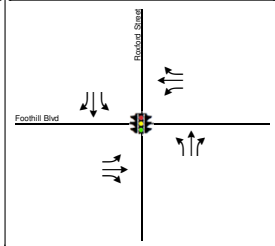
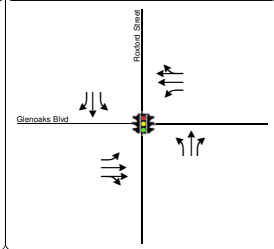
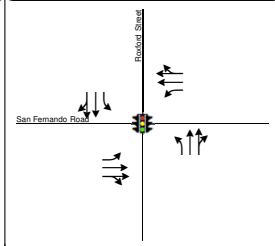
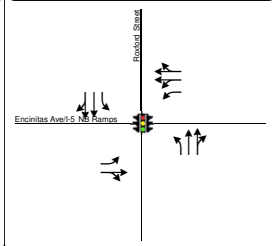
Trip Generation, 9th Edition (ITE, 2012)

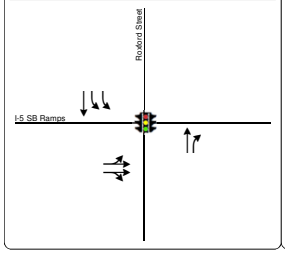
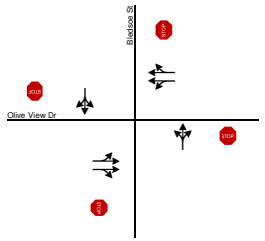
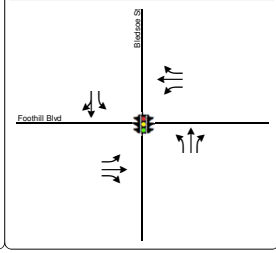
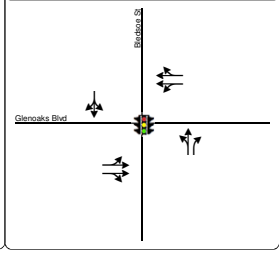
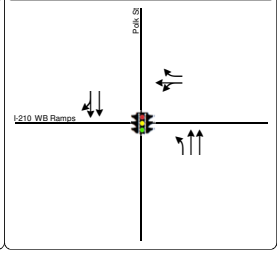
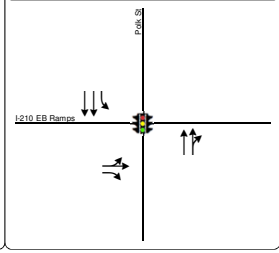
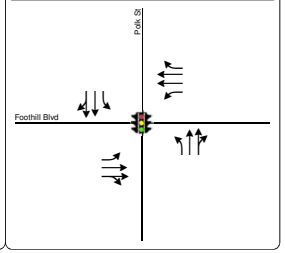
Trip Generation, 10th Edition (ITE, 2017)

APPENDIX A: INTERSECTION LANE CONFIGURATIONS



Source:

1. Glenoaks Blvd/Foothill Blvd	2. Roxford Street/I-210 WB Ramps	3. Roxford Street/I-210 EB Ramps	4. Roxford Street/Foothill Blvd	5. Roxford Street/Glenoaks Blvd	6. Roxford Street/San Fernando Road	7. Roxford Street/Encinitas Ave /I-5 NB Ramps
						

8. Roxford Street/I-5 SB Ramps	9. Bledsoe St/Olive View Dr	10. Bledsoe St/Foothill Blvd	11. Bledsoe St/Glenoaks Blvd	12. Polk St/I-210 WB Ramps	13. Polk St/I-210 EB Ramps	14. Polk St/Foothill Blvd
						

Lane Configurations

APPENDIX B: INTERSECTION TRAFFIC COUNTS

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: 16-5421-001 **Day:** Thursday

City: Sylmar **Date:** 6/9/2016

AM

NS/EW Streets:	Bledsoe St			Bledsoe St			Glenoaks Blvd			Glenoaks Blvd			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	0	1	1	0	1	0	0	2	0	0	2	0	
7:00 AM	2	10	14	8	12	6	6	100	16	21	67	11	273
7:15 AM	7	11	37	8	31	9	10	157	28	30	78	11	417
7:30 AM	6	40	44	18	35	12	17	171	31	32	119	24	549
7:45 AM	5	38	34	24	37	1	10	162	30	26	146	34	547
8:00 AM	4	5	27	10	20	4	14	133	25	24	88	16	370
8:15 AM	3	6	15	3	10	3	9	89	16	10	56	6	226
8:30 AM	2	8	8	5	6	5	5	48	7	10	54	6	164
8:45 AM	1	12	9	6	13	3	3	46	1	7	35	8	144
9:00 AM	5	5	6	1	4	1	3	32	3	9	35	4	108
9:15 AM	1	3	13	5	4	3	2	39	6	10	30	4	120
9:30 AM	1	7	23	6	5	4	3	41	1	6	31	2	130
9:45 AM	2	6	24	7	7	6	4	44	3	9	44	7	163
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
TOTAL VOLUMES :	39	151	254	101	184	57	86	1062	167	194	783	133	3211
APPROACH %'s :	8.78%	34.01%	57.21%	29.53%	53.80%	16.67%	6.54%	80.76%	12.70%	17.48%	70.54%	11.98%	
PEAK HR START TIME :	715 AM												TOTAL
PEAK HR VOL :	22	94	142	60	123	26	51	623	114	112	431	85	1883
PEAK HR FACTOR :		0.717			0.804			0.900			0.762		0.857

UTURNS	NB	SB	EB	WB
TOTAL VOLUMES :	0	0	0	0

CONTROL : Signalized

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: 16-5421-001 **Day:** Thursday

City: Sylmar **Date:** 6/9/2016

PM

NS/EW Streets:	Bledsoe St			Bledsoe St			Glenoaks Blvd			Glenoaks Blvd			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	0	1	1	0	1	0	0	2	0	0	2	0	
3:00 PM	4	14	13	15	28	11	11	63	11	28	93	19	310
3:15 PM	5	20	14	10	25	7	13	117	18	10	73	12	324
3:30 PM	5	25	36	5	14	9	7	134	29	33	80	13	390
3:45 PM	5	15	27	16	16	7	12	137	12	24	99	13	383
4:00 PM	6	15	30	10	10	1	13	127	11	16	82	14	335
4:15 PM	5	13	20	8	17	3	6	103	13	19	96	13	316
4:30 PM	10	24	18	16	13	10	5	101	9	25	88	12	331
4:45 PM	1	16	22	6	12	4	4	91	9	14	90	12	281
5:00 PM	3	22	24	9	6	7	4	103	18	18	71	14	299
5:15 PM	5	14	22	5	7	4	3	101	14	16	76	17	284
5:30 PM	2	16	22	9	16	6	4	77	10	20	91	15	288
5:45 PM	5	17	15	11	11	4	6	65	13	15	88	17	267
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
TOTAL VOLUMES :	56	211	263	120	175	73	88	1219	167	238	1027	171	3808
APPROACH %'s :	10.57%	39.81%	49.62%	32.61%	47.55%	19.84%	5.97%	82.70%	11.33%	16.57%	71.52%	11.91%	
PEAK HR START TIME :	315 PM												TOTAL
PEAK HR VOL :	21	75	107	41	65	24	45	515	70	83	334	52	1432
PEAK HR FACTOR :		0.769			0.774			0.926			0.862		0.918

UTURNS

NB	SB	EB	WB

NB	SB	EB	WB
0	0	0	0

CONTROL : Signalized

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: 16-5115-001 **Day:** Tuesday

City: Sylmar **Date:** 3/8/2016

AM

NS/EW Streets:	Roxford St			Roxford St			I-210 WB Ramps			I-210 WB Ramps			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	1	2	0	0	2	0	0	0	0	1.3	0.3	0.3	
7:00 AM	65	114	0	0	30	50	0	0	0	64	0	25	348
7:15 AM	81	117	0	0	48	57	0	0	0	82	0	38	423
7:30 AM	80	152	0	0	58	121	0	0	0	108	0	29	548
7:45 AM	61	203	0	0	34	79	0	0	0	111	1	83	572
8:00 AM	52	140	0	0	32	40	0	0	0	87	2	38	391
8:15 AM	32	136	0	0	24	45	0	0	0	36	2	39	314
8:30 AM	37	102	0	0	27	45	0	0	0	37	2	27	277
8:45 AM	23	104	0	0	21	41	0	0	0	28	0	37	254
9:00 AM	25	79	0	0	41	34	0	0	0	22	0	21	222
9:15 AM	26	53	0	0	30	35	0	0	0	33	0	25	202
9:30 AM	22	64	0	0	32	43	0	0	0	21	0	20	202
9:45 AM	20	58	0	0	22	46	0	0	0	22	0	22	190
TOTAL VOLUMES :	524	1322	0	0	399	636	0	0	0	651	7	404	3943
APPROACH %'s :	28.39%	71.61%	0.00%	0.00%	38.55%	61.45%	#DIV/0!	#DIV/0!	#DIV/0!	61.30%	0.66%	38.04%	
PEAK HR START TIME :	715 AM												TOTAL
PEAK HR VOL :	274	612	0	0	172	297	0	0	0	388	3	188	1934
PEAK HR FACTOR :		0.839			0.655			0.000			0.742		0.845

UTURNS	NB	SB	EB	WB
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	NB	SB	EB	WB
	0	0	0	0

CONTROL : Signalized

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: 16-5115-001 **Day:** Tuesday

City: Sylmar **Date:** 3/8/2016

PM

NS/EW Streets:	Roxford St			Roxford St			I-210 WB Ramps			I-210 WB Ramps			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	1	2	0	0	2	0	0	0	0	1.3	0.3	0.3	
3:00 PM	42	68	0	0	43	45	0	0	0	54	0	27	279
3:15 PM	31	47	0	0	42	63	0	0	0	47	0	31	261
3:30 PM	41	51	0	0	101	166	0	0	0	45	1	19	424
3:45 PM	25	53	0	0	44	92	0	0	0	69	1	27	311
4:00 PM	26	41	0	0	46	115	0	0	0	64	0	26	318
4:15 PM	26	36	0	0	47	88	0	0	0	66	1	28	292
4:30 PM	44	68	0	0	84	209	0	0	0	51	1	25	482
4:45 PM	44	46	0	0	67	116	0	0	0	51	0	17	341
5:00 PM	32	46	0	0	64	91	0	0	0	66	0	21	320
5:15 PM	36	47	0	0	46	90	0	0	0	51	0	20	290
5:30 PM	30	39	0	0	39	72	0	0	0	55	0	16	251
5:45 PM	26	43	0	0	25	56	0	0	0	56	0	18	224
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
TOTAL VOLUMES :	403	585	0	0	648	1203	0	0	0	675	4	275	3793
APPROACH %'s :	40.79%	59.21%	0.00%	0.00%	35.01%	64.99%	#DIV/0!	#DIV/0!	#DIV/0!	70.75%	0.42%	28.83%	
PEAK HR START TIME :	415 PM												TOTAL
PEAK HR VOL :	146	196	0	0	262	504	0	0	0	234	2	91	1435
PEAK HR FACTOR :		0.763			0.654			0.000			0.861		0.744

UTURNS	NB	SB	EB	WB
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	1	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	NB	SB	EB	WB
	1	0	0	0

CONTROL : Signalized

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: 16-5115-002 **Day:** Tuesday

City: Sylmar **Date:** 3/8/2016

AM

NS/EW Streets:	Roxford St			Roxford St			I-210 EB Ramps			I-210 EB Ramps			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	0	2	0	1	2	0	0.5	0.5	1	0	0	0	
7:00 AM	0	104	55	17	73	0	78	0	44	0	0	0	371
7:15 AM	0	124	67	24	108	0	70	0	75	0	0	0	468
7:30 AM	0	155	78	33	129	0	75	0	61	0	0	0	531
7:45 AM	0	183	71	21	126	0	80	0	72	0	0	0	553
8:00 AM	0	105	54	18	98	0	88	0	48	0	0	0	411
8:15 AM	0	70	35	9	55	0	93	0	30	0	0	0	292
8:30 AM	0	62	24	13	48	0	79	0	16	0	0	0	242
8:45 AM	0	55	31	14	39	0	71	0	26	0	0	0	236
9:00 AM	0	43	27	27	37	0	60	0	17	0	0	0	211
9:15 AM	0	37	35	19	42	0	41	0	12	0	0	0	186
9:30 AM	0	45	29	13	41	0	42	0	17	0	0	0	187
9:45 AM	0	40	29	15	29	0	39	0	19	0	0	0	171
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
TOTAL VOLUMES :	0	1023	535	223	825	0	816	0	437	0	0	0	3859
APPROACH %'s :	0.00%	65.66%	34.34%	21.28%	78.72%	0.00%	65.12%	0.00%	34.88%	#DIV/0!	#DIV/0!	#DIV/0!	
PEAK HR START TIME :	715 AM												TOTAL
PEAK HR VOL :	0	567	270	96	461	0	313	0	256	0	0	0	1963
PEAK HR FACTOR :		0.824			0.860			0.936			0.000		0.887

UTURNS	NB	SB	EB	WB
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	NB	SB	EB	WB
	0	0	0	0

CONTROL : 1-Way Stop (EB)

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: 16-5115-002 **Day:** Tuesday

City: Sylmar **Date:** 3/8/2016

PM

NS/EW Streets:	Roxford St			Roxford St			I-210 EB Ramps			I-210 EB Ramps			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	0	2	0	1	2	0	0.5	0.5	1	0	0	0	
3:00 PM	0	70	31	24	71	0	41	0	24	0	0	0	261
3:15 PM	0	51	40	28	59	0	28	0	32	0	0	0	238
3:30 PM	0	64	40	63	82	0	26	1	40	0	0	0	316
3:45 PM	0	50	52	27	90	0	31	0	49	0	0	0	299
4:00 PM	0	41	54	23	86	0	23	0	27	0	0	0	254
4:15 PM	1	36	47	30	79	0	29	0	39	0	0	0	261
4:30 PM	0	75	59	48	87	0	37	0	40	0	0	0	346
4:45 PM	0	60	49	38	83	0	28	1	50	0	0	0	309
5:00 PM	0	52	76	39	92	0	27	0	37	0	0	0	323
5:15 PM	0	55	63	25	70	0	23	1	49	0	0	0	286
5:30 PM	0	49	56	25	71	0	20	0	40	0	0	0	261
5:45 PM	0	43	47	11	71	0	27	2	41	0	0	0	242
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
TOTAL VOLUMES :	1	646	614	381	941	0	340	5	468	0	0	0	3396
APPROACH %'s :	0.08%	51.23%	48.69%	28.82%	71.18%	0.00%	41.82%	0.62%	57.56%	#DIV/0!	#DIV/0!	#DIV/0!	
PEAK HR START TIME :	430 PM												TOTAL
PEAK HR VOL :	0	242	247	150	332	0	115	2	176	0	0	0	1264
PEAK HR FACTOR :		0.912			0.893			0.927			0.000		0.913

UTURNS	NB	SB	EB	WB
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	1	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	NB	SB	EB	WB
	1	0	0	0

CONTROL : 1-Way Stop (EB)

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: 16-5115-003 **Day:** Tuesday

City: Sylmar **Date:** 3/8/2016

AM

NS/EW Streets:	Roxford St			Roxford St			Foothill Blvd			Foothill Blvd			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL 1	NT 1	NR 1	SL 1	ST 1	SR 1	EL 1	ET 1	ER 1	WL 1	WT 1	WR 1	TOTAL
7:00 AM	5	60	14	14	78	11	41	34	6	13	18	52	346
7:15 AM	4	88	13	32	142	12	35	34	9	39	31	57	496
7:30 AM	3	108	18	32	142	22	55	38	10	27	28	71	554
7:45 AM	4	90	20	31	146	20	100	37	6	28	17	58	557
8:00 AM	1	66	14	16	114	15	57	51	11	19	20	32	416
8:15 AM	4	59	16	10	69	4	31	38	5	11	15	14	276
8:30 AM	2	45	9	7	54	8	15	14	1	7	15	26	203
8:45 AM	4	52	13	10	44	7	13	20	0	4	12	23	202
9:00 AM	0	43	9	11	33	10	10	16	1	8	12	12	165
9:15 AM	2	48	12	6	37	9	11	9	2	9	17	12	174
9:30 AM	1	44	9	9	41	10	13	15	2	10	17	16	187
9:45 AM	4	31	13	11	31	5	17	11	4	14	20	21	182
TOTAL VOLUMES :	NL 34	NT 734	NR 160	SL 189	ST 931	SR 133	EL 398	ET 317	ER 57	WL 189	WT 222	WR 394	TOTAL 3758
APPROACH %'s :	3.66%	79.09%	17.24%	15.08%	74.30%	10.61%	51.55%	41.06%	7.38%	23.48%	27.58%	48.94%	
PEAK HR START TIME :	715 AM												TOTAL
PEAK HR VOL :	12	352	65	111	544	69	247	160	36	113	96	218	2023
PEAK HR FACTOR :		0.831			0.919			0.774			0.841		0.908

UTURNS	NB	SB	EB	WB
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	1	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
TOTAL VOLUMES :	NB 0	SB 1	EB 0	WB 0

CONTROL : Signalized

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: 16-5115-003 **Day:** Tuesday

City: Sylmar **Date:** 3/8/2016

PM

NS/EW Streets:	Roxford St			Roxford St			Foothill Blvd			Foothill Blvd				UTURNS			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND							
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL	NB	SB	EB	WB
LANES:	1	1	1	1	1	1	1	1	1	1	1	1					
3:00 PM	5	69	18	14	63	17	17	27	10	11	23	15	289	0	0	0	0
3:15 PM	3	60	18	24	48	13	19	21	7	17	17	15	262	0	0	0	0
3:30 PM	3	71	19	21	83	21	18	22	11	13	16	13	311	0	0	0	0
3:45 PM	2	62	17	23	83	23	21	27	5	12	28	19	322	0	0	0	0
4:00 PM	4	64	30	22	69	24	15	27	7	16	31	15	324	0	0	0	0
4:15 PM	2	50	15	16	79	22	18	30	8	13	24	16	293	0	0	0	0
4:30 PM	2	89	21	24	73	32	17	39	5	11	34	24	371	0	0	0	0
4:45 PM	3	67	22	25	86	24	20	40	4	20	30	21	362	0	0	0	0
5:00 PM	8	87	18	27	67	32	19	35	4	14	40	25	376	0	0	0	0
5:15 PM	2	90	20	31	66	23	17	37	5	14	32	14	351	0	0	0	0
5:30 PM	4	71	20	23	68	20	12	22	6	16	40	18	320	0	0	0	0
5:45 PM	1	59	16	26	63	22	18	31	2	18	30	16	302	0	0	0	0
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL	NB	SB	EB	WB
TOTAL VOLUMES :	39	839	234	276	848	273	211	358	74	175	345	211	3883	0	0	0	0
APPROACH %'s :	3.51%	75.45%	21.04%	19.76%	60.70%	19.54%	32.81%	55.68%	11.51%	23.94%	47.20%	28.86%					
PEAK HR START TIME :	430 PM												TOTAL				
PEAK HR VOL :	15	333	81	107	292	111	73	151	18	59	136	84	1460				
PEAK HR FACTOR :		0.949			0.944			0.945			0.883		0.971				

CONTROL : Signalized

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: 16-5115-004 **Day:** Tuesday

City: Sylmar **Date:** 3/8/2016

AM

NS/EW Streets:	Roxford St			Roxford St			Glenoaks Blvd			Glenoaks Blvd			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL 1	NT 1	NR 1	SL 1	ST 1	SR 0	EL 1	ET 2	ER 0	WL 1	WT 2	WR 0	TOTAL
7:00 AM	9	45	23	41	92	5	3	31	14	30	15	14	322
7:15 AM	3	51	64	70	111	4	7	72	24	53	20	20	499
7:30 AM	10	83	66	69	130	6	8	59	29	52	33	28	573
7:45 AM	13	73	71	72	105	7	8	60	15	55	32	17	528
8:00 AM	7	56	23	49	85	0	4	42	18	32	39	18	373
8:15 AM	6	42	26	20	53	1	2	20	7	19	17	15	228
8:30 AM	9	44	14	11	49	2	2	18	11	11	15	11	197
8:45 AM	3	39	25	8	42	1	1	14	10	11	13	6	173
9:00 AM	3	29	10	11	44	3	2	18	5	15	17	5	162
9:15 AM	5	29	21	12	29	2	4	12	12	12	16	7	161
9:30 AM	8	27	15	8	49	2	9	15	13	15	21	15	197
9:45 AM	8	40	16	7	44	2	3	15	8	11	19	4	177
TOTAL VOLUMES :	NL 84	NT 558	NR 374	SL 378	ST 833	SR 35	EL 53	ET 376	ER 166	WL 316	WT 257	WR 160	TOTAL 3590
APPROACH %'s :	8.27%	54.92%	36.81%	30.34%	66.85%	2.81%	8.91%	63.19%	27.90%	43.11%	35.06%	21.83%	
PEAK HR START TIME :	715 AM												TOTAL
PEAK HR VOL :	33	263	224	260	431	17	27	233	86	192	124	83	1973
PEAK HR FACTOR :		0.818			0.863			0.840			0.883		0.861

UTURNS	NB	SB	EB	WB
	0	0	0	0

CONTROL : Signalized

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: 16-5115-004 **Day:** Tuesday

City: Sylmar **Date:** 3/8/2016

PM

NS/EW Streets:	Roxford St			Roxford St			Glenoaks Blvd			Glenoaks Blvd			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL 1	NT 1	NR 1	SL 1	ST 1	SR 0	EL 1	ET 2	ER 0	WL 1	WT 2	WR 0	TOTAL
3:00 PM	17	65	23	15	54	6	5	29	12	37	38	13	314
3:15 PM	9	48	32	21	54	11	11	39	18	28	27	19	317
3:30 PM	18	75	48	35	43	0	15	52	12	38	37	22	395
3:45 PM	13	68	41	48	45	4	5	36	14	27	32	11	344
4:00 PM	16	92	45	35	49	5	4	19	9	26	33	17	350
4:15 PM	23	78	28	24	66	2	4	35	11	24	50	19	364
4:30 PM	20	80	45	18	55	3	9	37	9	32	42	22	372
4:45 PM	22	74	45	24	58	4	3	35	8	21	44	16	354
5:00 PM	14	96	48	18	49	8	10	26	6	20	50	17	362
5:15 PM	29	74	44	20	58	4	10	27	12	33	48	20	379
5:30 PM	21	78	44	26	64	2	4	25	11	32	57	14	378
5:45 PM	24	58	24	24	44	3	8	29	20	28	50	8	320
TOTAL VOLUMES :	NL 226	NT 886	NR 467	SL 308	ST 639	SR 52	EL 88	ET 389	ER 142	WL 346	WT 508	WR 198	TOTAL 4249
APPROACH %'s :	14.31%	56.11%	29.58%	30.83%	63.96%	5.21%	14.22%	62.84%	22.94%	32.89%	48.29%	18.82%	
PEAK HR START TIME :	445 PM												TOTAL
PEAK HR VOL :	86	322	181	88	229	18	27	113	37	106	199	67	1473
PEAK HR FACTOR :		0.932			0.910			0.903			0.903		0.972

UTURNS

NB	SB	EB	WB
0	0	0	0

CONTROL : Signalized

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: 16-5115-005 **Day:** Tuesday

City: Sylmar **Date:** 3/8/2016

AM

NS/EW Streets:	Roxford St			Roxford St			San Fernando Rd			San Fernando Rd			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL 1	NT 2	NR 0	SL 1	ST 2	SR 0	EL 1	ET 2	ER 0	WL 1	WT 2	WR 0	TOTAL
7:00 AM	5	104	28	14	145	20	22	53	4	34	26	15	470
7:15 AM	9	133	21	30	170	50	20	40	9	39	49	22	592
7:30 AM	14	132	26	29	154	74	10	53	8	41	48	25	614
7:45 AM	6	152	26	40	136	50	26	92	7	24	32	15	606
8:00 AM	9	108	24	20	115	16	24	71	10	41	22	19	479
8:15 AM	9	85	24	17	99	22	11	31	11	28	11	17	365
8:30 AM	6	84	28	10	80	23	8	38	6	25	22	10	340
8:45 AM	12	62	27	14	67	12	5	32	5	21	19	13	289
9:00 AM	6	68	32	13	75	14	10	24	5	18	14	13	292
9:15 AM	5	63	29	11	58	6	12	16	13	24	17	14	268
9:30 AM	1	63	25	15	72	13	8	22	7	23	15	16	280
9:45 AM	12	65	28	20	53	8	5	25	6	35	14	13	284
TOTAL VOLUMES :	NL 94	NT 1119	NR 318	SL 233	ST 1224	SR 308	EL 161	ET 497	ER 91	WL 353	WT 289	WR 192	TOTAL 4879
APPROACH %'s :	6.14%	73.09%	20.77%	13.20%	69.35%	17.45%	21.50%	66.36%	12.15%	42.33%	34.65%	23.02%	
PEAK HR START TIME :	715 AM												TOTAL
PEAK HR VOL :	38	525	97	119	575	190	80	256	34	145	151	81	2291
PEAK HR FACTOR :		0.897			0.860			0.740			0.827		0.933

UTURNS

	NB	SB	EB	WB
7:00 AM	0	0	0	0
7:15 AM	0	0	0	0
7:30 AM	0	0	0	0
7:45 AM	0	0	0	0
8:00 AM	0	0	0	0
8:15 AM	0	0	0	0
8:30 AM	0	0	0	0
8:45 AM	0	0	0	0
9:00 AM	0	0	0	0
9:15 AM	0	0	0	0
9:30 AM	0	0	0	0
9:45 AM	0	1	1	0
TOTAL VOLUMES :	NB 0	SB 1	EB 1	WB 0

CONTROL : Signalized

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: 16-5115-005 **Day:** Tuesday

City: Sylmar **Date:** 3/8/2016

PM

NS/EW Streets:	Roxford St			Roxford St			San Fernando Rd			San Fernando Rd				UTURNS			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND							
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL	NB	SB	EB	WB
LANES:	1	2	0	1	2	0	1	2	0	1	2	0					
3:00 PM	7	102	46	25	74	21	18	23	18	35	29	13	411	0	0	0	0
3:15 PM	9	88	32	14	86	16	13	26	7	43	31	24	389	0	0	0	0
3:30 PM	18	99	42	41	107	23	26	34	17	41	41	27	516	0	0	0	0
3:45 PM	14	107	42	17	86	17	11	42	11	38	40	24	449	0	0	0	0
4:00 PM	13	134	48	30	108	27	24	34	13	37	40	24	532	0	0	0	0
4:15 PM	12	97	45	19	95	20	11	33	6	40	46	21	445	0	0	0	0
4:30 PM	8	128	35	40	143	18	23	29	11	36	62	16	549	0	0	0	0
4:45 PM	9	100	25	16	97	21	33	38	12	49	49	27	476	0	0	0	0
5:00 PM	3	113	31	30	131	24	38	53	20	41	52	19	555	0	0	0	0
5:15 PM	8	99	27	15	87	14	26	43	13	34	54	25	445	0	0	0	0
5:30 PM	4	92	38	19	97	14	25	38	14	31	58	28	458	0	0	0	0
5:45 PM	6	112	20	31	92	11	16	30	7	29	48	13	415	0	0	0	0
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL	NB	SB	EB	WB
TOTAL VOLUMES :	111	1271	431	297	1203	226	264	423	149	454	550	261	5640	0	0	0	0
APPROACH %'s :	6.12%	70.10%	23.77%	17.21%	69.70%	13.09%	31.58%	50.60%	17.82%	35.89%	43.48%	20.63%					
PEAK HR START TIME :	430 PM												TOTAL				
PEAK HR VOL :	28	440	118	101	458	77	120	163	56	160	217	87	2025				
PEAK HR FACTOR :		0.857			0.791			0.764			0.928		0.912				

CONTROL : Signalized

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: 16-5115-006 **Day:** Tuesday

City: Sylmar **Date:** 3/8/2016

AM

NS/EW Streets:	Roxford St			Roxford St			Encinitas Ave			Encinitas Ave			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	1	2	0	1	2	0	1	0.5	0.5	1.5	1	0.5	
7:00 AM	2	165	71	9	156	17	48	11	18	99	28	1	625
7:15 AM	1	153	51	13	149	16	78	19	28	114	32	4	658
7:30 AM	4	184	53	11	170	24	72	19	28	124	43	6	738
7:45 AM	1	179	68	11	149	20	115	41	24	87	45	6	746
8:00 AM	2	155	73	15	89	31	101	44	27	94	29	5	665
8:15 AM	4	155	87	11	111	27	50	21	16	76	29	9	596
8:30 AM	7	164	44	5	92	12	35	12	15	57	27	7	477
8:45 AM	5	145	58	7	82	19	18	11	15	59	28	2	449
9:00 AM	7	150	55	9	85	18	13	4	17	51	24	5	438
9:15 AM	2	103	50	6	82	17	13	3	15	53	20	9	373
9:30 AM	8	83	56	13	78	16	9	4	19	56	13	9	364
9:45 AM	3	108	44	13	71	22	10	4	15	58	26	9	383
TOTAL VOLUMES :	46	1744	710	123	1314	239	562	193	237	928	344	72	6512
APPROACH %'s :	1.84%	69.76%	28.40%	7.34%	78.40%	14.26%	56.65%	19.46%	23.89%	69.05%	25.60%	5.36%	
PEAK HR START TIME :	715 AM												TOTAL
PEAK HR VOL :	8	671	245	50	557	91	366	123	107	419	149	21	2807
PEAK HR FACTOR :		0.931			0.851			0.828			0.851		0.941

CONTROL : Signalized

UTURNS

	NB	SB	EB	WB
7:00 AM	0	0	0	0
7:15 AM	0	0	0	0
7:30 AM	0	0	0	0
7:45 AM	0	0	0	0
8:00 AM	0	0	0	0
8:15 AM	0	0	0	0
8:30 AM	0	0	0	0
8:45 AM	0	0	0	0
9:00 AM	0	0	0	0
9:15 AM	0	0	0	0
9:30 AM	0	0	0	0
9:45 AM	0	0	0	0
TOTAL VOLUMES :	0	0	0	0

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: 16-5115-006 **Day:** Tuesday

City: Sylmar **Date:** 3/8/2016

PM

NS/EW Streets:	Roxford St			Roxford St			Encinitas Ave			Encinitas Ave			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	1	2	0	1	2	0	1	0.5	0.5	1.5	1	0.5	
3:00 PM	15	125	74	8	116	40	24	4	15	55	37	5	518
3:15 PM	12	132	77	5	110	41	11	3	21	65	37	7	521
3:30 PM	10	128	91	11	170	51	14	7	15	72	33	7	609
3:45 PM	5	148	84	7	139	30	14	7	10	62	47	10	563
4:00 PM	16	152	71	11	217	54	13	5	14	71	38	8	670
4:15 PM	3	129	96	6	125	35	17	2	17	67	34	12	543
4:30 PM	1	142	88	9	189	45	18	4	11	72	32	7	618
4:45 PM	6	132	103	8	181	44	7	4	16	78	44	3	626
5:00 PM	2	118	93	11	256	93	9	1	15	93	45	4	740
5:15 PM	3	108	98	5	188	68	12	2	22	87	37	3	633
5:30 PM	5	120	79	9	173	46	12	3	18	67	32	10	574
5:45 PM	1	114	102	14	116	47	13	3	17	69	32	5	533
TOTAL VOLUMES :	79	1548	1056	104	1980	594	164	45	191	858	448	81	7148
APPROACH %'s :	2.94%	57.70%	39.36%	3.88%	73.94%	22.18%	41.00%	11.25%	47.75%	61.86%	32.30%	5.84%	
PEAK HR START TIME :	430 PM												TOTAL
PEAK HR VOL :	12	500	382	33	814	250	46	11	64	330	158	17	2617
PEAK HR FACTOR :		0.927			0.762			0.840			0.889		0.884

UTURNS	NB	SB	EB	WB
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	1	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
TOTAL VOLUMES :	0	1	0	0

CONTROL : Signalized

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: 16-5115-007 **Day:** Tuesday

City: Sylmar **Date:** 3/8/2016

AM

NS/EW Streets:	Roxford St			Roxford St			I-5 EB Ramps			I-5 EB Ramps			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	0	1	1	1	2	0	0.5	1	0.5	0	0	0	
7:00 AM	0	2	138	232	28	0	51	0	2	0	0	0	453
7:15 AM	0	11	184	263	37	0	33	0	2	0	0	0	530
7:30 AM	0	10	148	284	38	0	45	1	1	0	0	0	527
7:45 AM	0	7	118	239	37	0	74	0	2	0	0	0	477
8:00 AM	0	9	127	178	32	0	69	0	2	0	0	0	417
8:15 AM	0	10	115	183	28	0	55	2	0	0	0	0	393
8:30 AM	0	8	96	152	23	0	54	0	2	0	0	0	335
8:45 AM	0	6	42	137	21	0	59	0	2	0	0	0	267
9:00 AM	0	8	27	140	19	0	58	0	2	0	0	0	254
9:15 AM	0	2	37	135	24	0	32	0	2	0	0	0	232
9:30 AM	0	7	33	137	29	0	42	0	0	0	0	0	248
9:45 AM	0	7	48	129	22	0	36	0	0	0	0	0	242
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
TOTAL VOLUMES :	0	87	1113	2209	338	0	608	3	17	0	0	0	4375
APPROACH %'s :	0.00%	7.25%	92.75%	86.73%	13.27%	0.00%	96.82%	0.48%	2.71%	#DIV/0!	#DIV/0!	#DIV/0!	
PEAK HR START TIME :	700 AM												TOTAL
PEAK HR VOL :	0	30	588	1018	140	0	203	1	7	0	0	0	1987
PEAK HR FACTOR :		0.792			0.899			0.694			0.000		0.937

UTURNS				
NB	SB	EB	WB	
NB	SB	EB	WB	
0	0	0	0	

CONTROL : Signalized

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: 16-5115-007 **Day:** Tuesday

City: Sylmar **Date:** 3/8/2016

PM

NS/EW Streets:	Roxford St			Roxford St			I-5 EB Ramps			I-5 EB Ramps			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	0	1	1	1	2	0	0.5	1	0.5	0	0	0	
3:00 PM	0	13	50	175	25	0	42	0	0	0	0	0	305
3:15 PM	0	17	46	174	29	0	47	0	3	0	0	0	316
3:30 PM	0	9	53	241	23	0	55	0	1	0	0	0	382
3:45 PM	0	5	43	191	21	0	56	0	0	0	0	0	316
4:00 PM	0	13	31	295	25	0	54	1	1	0	0	0	420
4:15 PM	0	6	27	198	23	0	66	0	0	0	0	0	320
4:30 PM	0	3	32	261	19	0	60	1	0	0	0	0	376
4:45 PM	0	7	27	259	25	0	54	0	0	0	0	0	372
5:00 PM	0	4	30	350	22	0	49	1	0	0	0	0	456
5:15 PM	0	2	22	268	33	0	57	1	0	0	0	0	383
5:30 PM	0	2	15	234	28	0	46	0	2	0	0	0	327
5:45 PM	0	4	11	195	18	0	58	0	1	0	0	0	287
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
TOTAL VOLUMES :	0	85	387	2841	291	0	644	4	8	0	0	0	4260
APPROACH %'s :	0.00%	18.01%	81.99%	90.71%	9.29%	0.00%	98.17%	0.61%	1.22%	#DIV/0!	#DIV/0!	#DIV/0!	
PEAK HR START TIME :	430 PM												TOTAL
PEAK HR VOL :	0	16	111	1138	99	0	220	3	0	0	0	0	1587
PEAK HR FACTOR :		0.907			0.831			0.914			0.000		0.870

UTURNS				
NB	SB	EB	WB	
0	0	0	0	

CONTROL : Signalized

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: 16-5115-008 **Day:** Tuesday

City: Sylmar **Date:** 3/8/2016

AM

NS/EW Streets:	Bledsoe St			Bledsoe St			Olive View Dr			Olive View Dr			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	0	1	0	0	1	0	0	2	0	0	2	0	
7:00 AM	18	5	5	2	5	3	10	16	14	7	29	3	117
7:15 AM	25	18	12	0	7	5	11	16	10	9	35	4	152
7:30 AM	24	11	17	4	12	26	19	33	11	27	42	7	233
7:45 AM	40	25	43	0	8	14	17	34	12	17	34	5	249
8:00 AM	25	17	14	2	6	2	11	23	12	2	24	3	141
8:15 AM	28	14	9	1	7	5	6	29	6	3	15	5	128
8:30 AM	26	6	3	0	6	7	7	8	13	3	10	2	91
8:45 AM	24	8	1	1	7	5	9	13	13	1	11	2	95
9:00 AM	11	8	4	1	7	4	6	10	20	3	8	2	84
9:15 AM	14	6	4	1	6	3	7	8	9	1	11	2	72
9:30 AM	11	10	4	0	8	6	7	4	9	2	18	5	84
9:45 AM	15	5	6	1	4	3	4	10	16	2	17	1	84
TOTAL VOLUMES :	261	133	122	13	83	83	114	204	145	77	254	41	1530
APPROACH %'s :	50.58%	25.78%	23.64%	7.26%	46.37%	46.37%	24.62%	44.06%	31.32%	20.70%	68.28%	11.02%	
PEAK HR START TIME :	715 AM												TOTAL
PEAK HR VOL :	114	71	86	6	33	47	58	106	45	55	135	19	775
PEAK HR FACTOR :		0.627			0.512			0.829			0.688		0.778

CONTROL : 4-Way Stop

UTURNS	NB	SB	EB	WB
	1	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	1	0
	0	0	0	0
	0	0	1	0
	0	0	1	0
	0	0	1	0
	0	0	1	0
TOTAL VOLUMES :	1	0	5	0

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: 16-5115-008 **Day:** Tuesday

City: Sylmar **Date:** 3/8/2016

PM

NS/EW Streets:	Bledsoe St			Bledsoe St			Olive View Dr			Olive View Dr			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 0	ET 2	ER 0	WL 0	WT 2	WR 0	TOTAL
3:00 PM	12	6	4	2	10	2	3	23	23	3	11	3	102
3:15 PM	12	7	4	1	4	4	4	9	19	1	23	0	88
3:30 PM	15	7	5	8	25	28	2	24	35	19	34	6	208
3:45 PM	6	12	6	6	10	15	2	15	21	4	21	3	121
4:00 PM	16	10	5	3	16	5	5	20	26	6	20	2	134
4:15 PM	13	8	8	1	5	14	2	10	14	3	21	1	100
4:30 PM	10	7	12	8	16	25	1	27	42	10	46	2	206
4:45 PM	19	2	8	4	9	17	6	24	19	5	31	2	146
5:00 PM	18	1	5	6	12	20	2	28	25	8	15	1	141
5:15 PM	15	8	7	2	5	16	5	12	28	8	29	2	137
5:30 PM	13	7	14	4	7	11	6	15	15	7	18	2	119
5:45 PM	18	5	11	5	6	8	1	18	13	7	17	2	111
TOTAL VOLUMES :	NL 167	NT 80	NR 89	SL 50	ST 125	SR 165	EL 39	ET 225	ER 280	WL 81	WT 286	WR 26	TOTAL 1613
APPROACH %'s :	49.70%	23.81%	26.49%	14.71%	36.76%	48.53%	7.17%	41.36%	51.47%	20.61%	72.77%	6.62%	
PEAK HR START TIME :	430 PM												TOTAL
PEAK HR VOL :	62	18	32	20	42	78	14	91	114	31	121	7	630
PEAK HR FACTOR :		0.933			0.714			0.782			0.685		0.765

UTURNS

	NB	SB	EB	WB
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	1	0	0	0
	0	0	0	0
	NB 1	SB 0	EB 0	WB 0

CONTROL : 4-Way Stop

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: 16-5115-009 **Day:** Tuesday

City: Sylmar **Date:** 3/8/2016

AM

NS/EW Streets:	Bledsoe St			Bledsoe St			Foothill Blvd			Foothill Blvd			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL 1	NT 1	NR 1	SL 1	ST 1	SR 0	EL 1	ET 2	ER 0	WL 1	WT 2	WR 0	TOTAL
7:00 AM	10	6	32	21	7	3	5	64	7	11	55	16	237
7:15 AM	8	16	39	20	17	8	11	82	7	28	82	27	345
7:30 AM	20	18	62	35	44	8	15	84	13	34	67	36	436
7:45 AM	13	37	64	22	22	8	31	69	12	36	79	56	449
8:00 AM	2	16	45	19	8	4	15	65	1	20	44	38	277
8:15 AM	1	10	18	15	8	3	12	64	2	4	33	41	211
8:30 AM	0	10	14	15	3	3	2	42	1	18	34	22	164
8:45 AM	1	8	11	22	2	2	3	48	1	13	25	23	159
9:00 AM	2	6	15	27	4	2	2	36	1	10	25	17	147
9:15 AM	3	6	15	9	7	3	5	31	2	5	34	15	135
9:30 AM	3	1	20	17	5	1	1	42	0	10	33	21	154
9:45 AM	3	8	15	15	4	4	3	35	2	5	42	15	151
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
TOTAL VOLUMES :	66	142	350	237	131	49	105	662	49	194	553	327	2865
APPROACH %'s :	11.83%	25.45%	62.72%	56.83%	31.41%	11.75%	12.87%	81.13%	6.00%	18.06%	51.49%	30.45%	
PEAK HR START TIME :	715 AM												TOTAL
PEAK HR VOL :	43	87	210	96	91	28	72	300	33	118	272	157	1507
PEAK HR FACTOR :		0.746			0.618			0.904			0.800		0.839

UTURNS	NB	SB	EB	WB
	0	0	0	0
	0	0	0	0
	0	0	1	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	NB	SB	EB	WB
	0	0	1	0

CONTROL : Signalized

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: 16-5115-009 **Day:** Tuesday

City: Sylmar **Date:** 3/8/2016

PM

NS/EW Streets:	Bledsoe St			Bledsoe St			Foothill Blvd			Foothill Blvd				UTURNS			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND							
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL	NB	SB	EB	WB
LANES:	1	1	1	1	1	0	1	2	0	1	2	0					
3:00 PM	4	9	23	28	15	3	5	59	2	25	43	17	233	0	0	0	0
3:15 PM	2	11	21	15	10	2	3	43	0	26	41	16	190	0	0	0	0
3:30 PM	3	4	26	54	15	4	4	54	2	25	44	20	255	0	0	0	0
3:45 PM	3	13	19	30	13	1	3	55	5	18	58	21	239	0	0	0	0
4:00 PM	10	9	30	37	11	2	4	79	4	24	57	27	294	0	0	0	0
4:15 PM	9	13	32	20	5	0	7	49	4	22	52	15	228	0	0	0	0
4:30 PM	10	6	22	50	12	6	8	70	1	22	71	24	302	0	0	0	0
4:45 PM	3	13	14	33	7	5	2	72	5	23	72	19	268	0	0	0	0
5:00 PM	5	8	23	39	10	3	4	78	4	20	65	19	278	0	0	0	0
5:15 PM	5	10	39	21	15	4	4	69	6	18	69	25	285	0	0	0	0
5:30 PM	6	19	27	23	6	5	3	69	3	25	78	20	284	0	0	0	0
5:45 PM	8	17	34	20	8	4	7	58	6	23	59	25	269	0	0	0	0
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL	NB	SB	EB	WB
TOTAL VOLUMES :	68	132	310	370	127	39	54	755	42	271	709	248	3125	0	0	0	0
APPROACH %'s :	13.33%	25.88%	60.78%	69.03%	23.69%	7.28%	6.35%	88.72%	4.94%	22.07%	57.74%	20.20%					
PEAK HR START TIME :	430 PM												TOTAL				
PEAK HR VOL :	23	37	98	143	44	18	18	289	16	83	277	87	1133				
PEAK HR FACTOR :		0.731			0.754			0.939			0.955		0.938				

CONTROL : Signalized

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: 16-5421-002 **Day:** Thursday

City: Sylmar **Date:** 6/9/2016

AM

NS/EW Streets:	Glenoaks Blvd			Glenoaks Blvd			Foothill Blvd			Foothill Blvd			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	1	2	0	1	2	0	1	1	0	1	1	0	
7:00 AM	19	2	4	9	9	26	5	41	42	0	35	3	195
7:15 AM	19	4	2	9	14	29	1	53	45	4	36	3	219
7:30 AM	32	2	1	10	15	32	2	80	43	3	38	2	260
7:45 AM	32	4	4	7	10	16	4	133	35	2	38	3	288
8:00 AM	31	5	2	7	6	9	4	55	41	3	21	4	188
8:15 AM	25	3	3	15	3	12	4	31	16	1	24	4	141
8:30 AM	17	4	2	8	1	12	8	29	20	3	21	3	128
8:45 AM	16	4	2	2	8	7	3	20	12	1	13	5	93
9:00 AM	16	1	2	4	5	11	9	31	16	2	19	0	116
9:15 AM	21	5	1	4	3	7	5	19	17	2	15	5	104
9:30 AM	15	7	3	7	3	12	7	22	14	1	26	11	128
9:45 AM	20	3	1	10	5	12	6	21	14	0	23	3	118
TOTAL VOLUMES :	263	44	27	92	82	185	58	535	315	22	309	46	1978
APPROACH %'s :	78.74%	13.17%	8.08%	25.63%	22.84%	51.53%	6.39%	58.92%	34.69%	5.84%	81.96%	12.20%	
PEAK HR START TIME :	700 AM												TOTAL
PEAK HR VOL :	102	12	11	35	48	103	12	307	165	9	147	11	962
PEAK HR FACTOR :		0.781			0.816			0.703			0.971		0.835

UTURNS				
NB	SB	EB	WB	
0	0	0	0	
0	0	0	0	
0	0	0	0	
0	0	0	0	
0	0	0	0	
0	0	0	0	
0	0	0	0	
0	0	0	0	
0	0	0	0	
0	0	0	0	
0	0	0	0	
0	0	0	0	
NB	SB	EB	WB	
0	0	0	0	

CONTROL : Signalized

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: 16-5421-002 **Day:** Thursday

City: Sylmar **Date:** 6/9/2016

PM

NS/EW Streets:	Glenoaks Blvd			Glenoaks Blvd			Foothill Blvd			Foothill Blvd			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL 1	NT 2	NR 0	SL 1	ST 2	SR 0	EL 1	ET 1	ER 0	WL 1	WT 1	WR 0	TOTAL
3:00 PM	27	8	1	2	3	8	9	28	33	0	29	7	155
3:15 PM	23	9	1	13	4	8	7	54	48	2	40	6	215
3:30 PM	28	7	5	4	6	7	11	64	33	0	26	11	202
3:45 PM	39	6	3	4	4	4	14	46	33	2	39	10	204
4:00 PM	35	6	7	9	0	10	12	52	25	4	39	8	207
4:15 PM	25	5	3	6	4	9	10	56	31	1	47	9	206
4:30 PM	40	8	3	8	5	8	17	56	40	6	48	6	245
4:45 PM	31	8	4	3	3	13	14	41	38	6	38	8	207
5:00 PM	28	7	2	3	7	10	15	55	30	3	31	7	198
5:15 PM	30	13	4	5	3	12	14	39	41	1	37	9	208
5:30 PM	36	7	5	5	3	9	7	55	21	2	40	7	197
5:45 PM	32	13	5	7	8	6	14	44	29	2	46	10	216
TOTAL VOLUMES :	NL 374	NT 97	NR 43	SL 69	ST 50	SR 104	EL 144	ET 590	ER 402	WL 29	WT 460	WR 98	TOTAL 2460
APPROACH %'s :	72.76%	18.87%	8.37%	30.94%	22.42%	46.64%	12.68%	51.94%	35.39%	4.94%	78.36%	16.70%	
PEAK HR START TIME :	400 PM												TOTAL
PEAK HR VOL :	131	27	17	26	12	40	53	205	134	17	172	31	865
PEAK HR FACTOR :		0.858			0.929			0.867			0.917		0.883

UTURNS	NB	SB	EB	WB
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	1	0
	0	1	0	0
TOTAL VOLUMES :	NB 0	SB 1	EB 1	WB 0

CONTROL : Signalized

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: 16-5115-010 **Day:** Tuesday

City: Sylmar **Date:** 3/8/2016

AM

NS/EW Streets:	Polk St			Polk St			I-210 WB Ramps			I-210 WB Ramps			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL 1	NT 2	NR 0	SL 0	ST 2	SR 0	EL 0	ET 2	ER 0	WL 0.5	WT 0.5	WR 1	TOTAL
7:00 AM	42	54	0	0	163	57	0	0	0	63	0	13	392
7:15 AM	59	66	0	0	178	89	0	0	0	105	1	24	522
7:30 AM	57	100	0	0	182	84	0	0	0	123	0	31	577
7:45 AM	44	142	0	0	190	65	0	0	0	134	0	35	610
8:00 AM	58	102	0	0	102	45	0	0	0	83	1	35	426
8:15 AM	29	52	0	0	100	31	0	0	0	73	0	26	311
8:30 AM	28	61	0	0	74	28	0	0	0	53	0	23	267
8:45 AM	36	42	0	0	81	22	0	0	0	68	1	19	269
9:00 AM	21	44	0	0	70	19	0	0	0	52	0	15	221
9:15 AM	23	37	0	0	67	9	0	0	0	51	0	17	204
9:30 AM	25	40	0	0	70	18	0	0	0	53	1	24	231
9:45 AM	29	45	0	0	74	14	0	0	0	39	0	14	215
TOTAL VOLUMES :	NL 451	NT 785	NR 0	SL 0	ST 1351	SR 481	EL 0	ET 0	ER 0	WL 897	WT 4	WR 276	TOTAL 4245
APPROACH %'s :	36.49%	63.51%	0.00%	0.00%	73.74%	26.26%	#DIV/0!	#DIV/0!	#DIV/0!	76.21%	0.34%	23.45%	
PEAK HR START TIME :	715 AM												TOTAL
PEAK HR VOL :	218	410	0	0	652	283	0	0	0	445	2	125	2135
PEAK HR FACTOR :		0.844			0.875			0.000			0.846		0.875

UTURNS	NB	SB	EB	WB
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	1	0	0	0
	0	0	0	0
	0	0	0	0
	NB 1	SB 0	EB 0	WB 0

CONTROL : Signalized

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: 16-5115-010 **Day:** Tuesday

City: Sylmar **Date:** 3/8/2016

PM

NS/EW Streets:	Polk St			Polk St			I-210 WB Ramps			I-210 WB Ramps				UTURNS			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND							
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL	NB	SB	EB	WB
LANES:	1	2	0	0	2	0	0	2	0	0.5	0.5	1					
3:00 PM	48	77	0	0	68	18	0	0	0	129	0	32	372	0	0	0	0
3:15 PM	35	88	0	0	74	27	0	0	0	115	0	57	396	0	0	0	0
3:30 PM	41	90	0	0	103	18	0	0	0	109	0	59	420	1	0	0	0
3:45 PM	35	103	0	0	108	24	0	0	0	97	0	57	424	0	0	0	0
4:00 PM	63	85	0	0	86	13	0	0	0	125	0	57	429	0	0	0	0
4:15 PM	48	111	0	0	83	21	0	0	0	132	0	58	453	0	0	0	0
4:30 PM	45	101	0	0	88	24	0	0	0	126	1	53	438	0	0	0	0
4:45 PM	48	119	0	0	100	21	0	0	0	126	0	60	474	0	0	0	0
5:00 PM	48	118	0	0	107	22	0	0	0	133	0	69	497	0	0	0	0
5:15 PM	38	120	0	0	105	27	0	0	0	146	1	62	499	1	0	0	0
5:30 PM	51	134	0	0	101	35	0	0	0	131	0	48	500	0	0	0	0
5:45 PM	49	100	0	0	121	20	0	0	0	137	0	68	495	1	0	0	0
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL	NB	SB	EB	WB
TOTAL VOLUMES :	549	1246	0	0	1144	270	0	0	0	1506	2	680	5397	3	0	0	0
APPROACH %'s :	30.58%	69.42%	0.00%	0.00%	80.91%	19.09%	#DIV/0!	#DIV/0!	#DIV/0!	68.83%	0.09%	31.08%					
PEAK HR START TIME :	500 PM												TOTAL				
PEAK HR VOL :	186	472	0	0	434	104	0	0	0	547	1	247	1991				
PEAK HR FACTOR :		0.889			0.954			0.000			0.951		0.996				

CONTROL : Signalized

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: 16-5115-011 **Day:** Tuesday

City: Sylmar **Date:** 3/8/2016

AM

NS/EW Streets:	Polk St			Polk St			I-210 EB Ramps			I-210 EB Ramps			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL 0	NT 2	NR 0	SL 1	ST 2	SR 0	EL 0	ET 0	ER 0	WL 0.5	WT 0.5	WR 1	TOTAL
7:00 AM	0	76	181	96	123	0	21	1	87	0	0	0	585
7:15 AM	0	107	183	78	211	0	22	0	70	0	0	0	671
7:30 AM	0	127	192	68	223	0	30	0	55	0	0	0	695
7:45 AM	0	155	199	81	252	0	33	2	47	0	0	0	769
8:00 AM	0	114	147	57	123	0	38	0	36	0	0	0	515
8:15 AM	0	69	146	60	116	0	10	0	31	0	0	0	432
8:30 AM	0	81	103	44	79	0	10	0	30	0	0	0	347
8:45 AM	0	66	104	40	110	0	10	0	38	0	0	0	368
9:00 AM	0	52	89	36	86	0	12	0	27	0	0	0	302
9:15 AM	0	52	73	40	77	0	9	0	32	0	0	0	283
9:30 AM	0	60	101	40	85	0	7	1	36	0	0	0	330
9:45 AM	0	66	75	35	74	0	7	0	33	0	0	0	290
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
TOTAL VOLUMES :	0	1025	1593	675	1559	0	209	4	522	0	0	0	5587
APPROACH %'s :	0.00%	39.15%	60.85%	30.21%	69.79%	0.00%	28.44%	0.54%	71.02%	#DIV/0!	#DIV/0!	#DIV/0!	
PEAK HR START TIME :	700 AM												TOTAL
PEAK HR VOL :	0	465	755	323	809	0	106	3	259	0	0	0	2720
PEAK HR FACTOR :		0.862			0.850			0.844			0.000		0.884

UTURNS	NB	SB	EB	WB
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	NB	SB	EB	WB
	0	0	0	0

CONTROL : Signalized

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: 16-5115-011 **Day:** Tuesday

City: Sylmar **Date:** 3/8/2016

PM

NS/EW Streets:	Polk St			Polk St			I-210 EB Ramps			I-210 EB Ramps			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL 0	NT 2	NR 0	SL 1	ST 2	SR 0	EL 0	ET 0	ER 0	WL 0.5	WT 0.5	WR 1	TOTAL
3:00 PM	0	107	110	27	171	0	21	0	56	0	0	0	492
3:15 PM	0	115	125	25	162	0	15	1	47	0	0	0	490
3:30 PM	0	101	97	50	164	0	19	2	39	0	0	0	472
3:45 PM	0	103	95	45	161	0	35	1	73	0	0	0	513
4:00 PM	0	142	121	30	179	0	13	0	48	0	0	0	533
4:15 PM	0	119	113	22	188	0	34	1	46	0	0	0	523
4:30 PM	0	128	125	46	172	0	28	0	43	0	0	0	542
4:45 PM	0	126	108	44	187	0	31	0	46	0	0	0	542
5:00 PM	0	145	122	48	186	0	25	0	55	0	0	0	581
5:15 PM	0	123	124	43	201	0	37	0	68	0	0	0	596
5:30 PM	0	151	116	45	189	0	27	0	60	0	0	0	588
5:45 PM	0	119	127	46	213	0	31	0	62	0	0	0	598
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
TOTAL VOLUMES :	0	1479	1383	471	2173	0	316	5	643	0	0	0	6470
APPROACH %'s :	0.00%	51.68%	48.32%	17.81%	82.19%	0.00%	32.78%	0.52%	66.70%	#DIV/0!	#DIV/0!	#DIV/0!	
PEAK HR START TIME :	500 PM												TOTAL
PEAK HR VOL :	0	538	489	182	789	0	120	0	245	0	0	0	2363
PEAK HR FACTOR :		0.962			0.937			0.869			0.000		0.988

UTURNS	NB	SB	EB	WB
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	1	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	NB	SB	EB	WB
	0	1	0	0

CONTROL : Signalized

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: 16-5115-012 **Day:** Tuesday

City: Sylmar **Date:** 3/8/2016

AM

NS/EW Streets:	Polk St			Polk St			Foothill Blvd			Foothill Blvd			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL 1	NT 2	NR 0	SL 1	ST 2	SR 0	EL 1	ET 2	ER 0	WL 1	WT 2	WR 0	TOTAL
7:00 AM	9	109	42	68	107	32	95	99	17	43	44	58	723
7:15 AM	7	137	45	64	143	76	90	116	24	35	76	56	869
7:30 AM	17	148	38	44	145	76	116	156	22	33	87	59	941
7:45 AM	28	177	61	42	170	97	103	144	19	39	94	61	1035
8:00 AM	18	115	49	31	79	47	79	106	14	20	67	64	689
8:15 AM	18	119	34	44	74	22	58	75	10	22	49	33	558
8:30 AM	9	91	17	29	51	30	56	60	6	18	53	36	456
8:45 AM	10	82	29	36	75	32	51	55	19	22	35	35	481
9:00 AM	2	55	19	27	56	25	45	68	6	24	48	40	415
9:15 AM	4	61	26	31	60	20	35	44	7	18	42	31	379
9:30 AM	5	60	27	34	50	29	51	64	7	20	47	44	438
9:45 AM	4	62	34	32	56	21	37	53	13	31	49	32	424
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
TOTAL VOLUMES :	131	1216	421	482	1066	507	816	1040	164	325	691	549	7408
APPROACH %'s :	7.41%	68.78%	23.81%	23.45%	51.87%	24.67%	40.40%	51.49%	8.12%	20.77%	44.15%	35.08%	
PEAK HR START TIME :	700 AM												TOTAL
PEAK HR VOL :	61	571	186	218	565	281	404	515	82	150	301	234	3568
PEAK HR FACTOR :		0.769			0.861			0.851			0.883		0.862

UTURNS	NB	SB	EB	WB
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	1
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	NB	SB	EB	WB
	0	0	0	1

CONTROL : Signalized

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: 16-5115-012 **Day:** Tuesday

City: Sylmar **Date:** 3/8/2016

PM

NS/EW Streets:	Polk St			Polk St			Foothill Blvd			Foothill Blvd			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL 1	NT 2	NR 0	SL 1	ST 2	SR 0	EL 1	ET 2	ER 0	WL 1	WT 2	WR 0	TOTAL
3:00 PM	11	98	33	63	111	47	43	88	8	39	77	65	683
3:15 PM	15	107	40	59	101	46	61	70	10	39	81	70	699
3:30 PM	6	95	40	52	104	49	52	105	10	49	57	46	665
3:45 PM	13	90	33	68	107	50	60	79	8	38	84	58	688
4:00 PM	18	131	45	59	107	54	52	82	17	44	91	76	776
4:15 PM	12	115	53	51	128	59	52	97	5	44	78	59	753
4:30 PM	16	136	62	49	99	62	67	87	19	36	100	61	794
4:45 PM	16	114	50	44	127	59	53	90	12	42	108	66	781
5:00 PM	11	147	52	52	127	63	55	95	15	32	84	64	797
5:15 PM	21	100	54	76	135	50	73	89	14	47	95	68	822
5:30 PM	20	135	54	72	117	68	48	91	13	35	102	81	836
5:45 PM	14	124	59	67	124	74	44	89	14	49	90	65	813
TOTAL VOLUMES :	NL 173	NT 1392	NR 575	SL 712	ST 1387	SR 681	EL 660	ET 1062	ER 145	WL 494	WT 1047	WR 779	TOTAL 9107
APPROACH %'s :	8.08%	65.05%	26.87%	25.61%	49.89%	24.50%	35.35%	56.88%	7.77%	21.29%	45.13%	33.58%	
PEAK HR START TIME :	500 PM												TOTAL
PEAK HR VOL :	66	506	219	267	503	255	220	364	56	163	371	278	3268
PEAK HR FACTOR :		0.942			0.967			0.909			0.931		0.977

UTURNS	NB	SB	EB	WB
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	NB 0	SB 0	EB 0	WB 0

CONTROL : Signalized

PREPARED BY NATIONAL DATA & SURVEYING SERVICES

PROJECT#: 16-5421-001
N/S Street: Bledsoe St
E/W Street: Glenoaks Blvd
DATE: 6/9/2016 DAY: Thursday
CITY: Sylmar

A M

PEDESTRIANS

TIME	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG	
	EB	WB	EB	WB	NB	SB	NB	SB
7:00 AM	0	0	1	1	0	2	0	2
7:15 AM	0	0	0	4	0	0	0	2
7:30 AM	1	1	0	13	0	3	0	4
7:45 AM	0	1	1	10	0	0	0	3
8:00 AM	0	0	0	4	0	0	0	3
8:15 AM	0	0	0	1	0	1	0	0
8:30 AM	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	1	0	0
9:00 AM	0	0	0	0	0	0	0	0
9:15 AM	0	0	0	0	2	0	0	0
9:30 AM	0	1	0	0	0	0	1	0
9:45 AM	0	0	1	0	0	0	0	0
TOTALS	**1**	**3**	**3**	**33**	**2**	**7**	**1**	**14**

BIKES

TIME	NB			SB			EB			WB		
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR
7:00 AM	0	0	0	0	0	0	0	1	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	1	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0	0	1	0
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	1	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0
9:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
9:15 AM	0	0	0	0	0	0	0	0	0	0	0	0
9:30 AM	0	0	0	0	0	0	0	0	0	0	0	0
9:45 AM	0	0	0	0	0	0	0	0	0	0	0	0
TOTALS	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**2**	**0**	**0**	**2**	**0**

P M

PEDESTRIANS

TIME	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG	
	EB	WB	EB	WB	NB	SB	NB	SB
3:00 PM	0	0	2	1	0	0	0	0
3:15 PM	0	0	15	0	0	0	0	0
3:30 PM	1	0	21	0	1	0	4	3
3:45 PM	0	0	10	0	0	1	7	0
4:00 PM	0	0	12	1	0	0	2	0
4:15 PM	0	1	1	0	0	0	2	0
4:30 PM	0	1	1	0	0	0	0	0
4:45 PM	1	0	1	0	0	1	0	0
5:00 PM	0	0	1	1	0	0	0	0
5:15 PM	0	0	2	0	1	0	0	0
5:30 PM	0	1	1	0	1	0	0	2
5:45 PM	0	0	1	2	0	0	0	0
TOTALS	**2**	**3**	**68**	**5**	**3**	**2**	**15**	**5**

BIKES

TIME	NB			SB			EB			WB		
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR
3:00 PM	0	0	0	0	0	0	0	1	0	0	0	0
3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0
3:30 PM	0	1	0	0	0	0	0	0	0	0	0	0
3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	1	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	2	0	1	0	0
5:00 PM	0	0	0	0	1	0	0	0	0	0	0	0
5:15 PM	0	0	1	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0
TOTALS	**0**	**1**	**1**	**0**	**1**	**0**	**0**	**4**	**0**	**1**	**0**	**0**

PREPARED BY NATIONAL DATA & SURVEYING SERVICES

PROJECT#: 16-5115-001
N/S Street: Roxford St
E/W Street: I-210 WB Ramps
DATE: 3/8/2016 DAY: Tuesday
CITY: Sylmar

A M

PEDESTRIANS

TIME	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG	
	EB	WB	EB	WB	NB	SB	NB	SB
7:00 AM	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	1
7:45 AM	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	1	0
8:15 AM	0	0	0	0	0	1	0	0
8:30 AM	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	3	2	0	0
9:00 AM	0	0	0	0	2	1	0	0
9:15 AM	0	0	0	0	0	1	0	0
9:30 AM	0	0	0	0	0	0	0	0
9:45 AM	0	0	0	0	0	0	0	0
TOTALS	**0**	**0**	**0**	**0**	**5**	**5**	**1**	**1**

BIKES

TIME	NB			SB			EB			WB		
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	1	0	0	1	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0
9:00 AM	0	0	0	0	1	0	0	0	0	0	0	0
9:15 AM	0	0	0	0	1	0	0	0	0	0	0	0
9:30 AM	0	0	0	0	0	0	0	0	0	0	0	0
9:45 AM	0	0	0	0	0	0	0	0	0	0	0	0
TOTALS	**0**	**1**	**0**	**0**	**3**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

P M

PEDESTRIANS

TIME	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG	
	EB	WB	EB	WB	NB	SB	NB	SB
3:00 PM	0	0	0	0	0	0	0	0
3:15 PM	0	0	0	0	0	0	0	0
3:30 PM	0	0	0	0	0	0	0	0
3:45 PM	0	0	0	0	0	0	0	0
4:00 PM	0	0	0	0	0	1	0	0
4:15 PM	0	0	0	0	0	3	0	0
4:30 PM	0	0	0	0	0	0	1	0
4:45 PM	0	0	0	0	0	1	0	0
5:00 PM	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	2	0	2	0
5:30 PM	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0
TOTALS	**0**	**0**	**0**	**0**	**2**	**5**	**3**	**0**

BIKES

TIME	NB			SB			EB			WB		
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR
3:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0
3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0
3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	3	0	0	1	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	1	0	0	0	0	0	0	0
TOTALS	**0**	**3**	**0**	**0**	**2**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

PREPARED BY NATIONAL DATA & SURVEYING SERVICES

PROJECT#: 16-5115-002
N/S Street: Roxford St
E/W Street: I-210 EB Ramps
DATE: 3/8/2016 DAY: Tuesday
CITY: Sylmar

A M

PEDESTRIANS

TIME	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG	
	EB	WB	EB	WB	NB	SB	NB	SB
7:00 AM	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	2
7:45 AM	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	1	0
8:15 AM	0	0	0	0	0	0	0	1
8:30 AM	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	3	2	0	0
9:00 AM	0	0	0	0	2	1	0	0
9:15 AM	0	0	0	0	0	1	0	0
9:30 AM	0	0	0	0	0	0	0	0
9:45 AM	0	0	0	0	0	0	0	0
TOTALS	**0**	**0**	**0**	**0**	**5**	**4**	**1**	**3**

BIKES

TIME	NB			SB			EB			WB		
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	1	0	0	1	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0
9:00 AM	0	0	0	0	1	0	0	0	0	0	0	0
9:15 AM	0	0	0	0	1	0	0	0	0	0	0	0
9:30 AM	0	0	0	0	0	0	0	0	0	0	0	0
9:45 AM	0	0	0	0	0	0	0	0	0	0	0	0
TOTALS	**0**	**1**	**0**	**0**	**3**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

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PEDESTRIANS

TIME	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG	
	EB	WB	EB	WB	NB	SB	NB	SB
3:00 PM	0	0	0	0	0	0	0	0
3:15 PM	0	0	0	0	0	0	0	0
3:30 PM	0	0	0	0	0	0	0	0
3:45 PM	0	0	0	0	0	0	0	0
4:00 PM	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	3	1	0
4:30 PM	0	0	0	0	0	0	0	0
4:45 PM	0	1	0	0	0	0	0	1
5:00 PM	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	2	0	1	0
5:30 PM	0	0	0	0	0	1	0	0
5:45 PM	0	0	0	0	0	0	0	0
TOTALS	**0**	**1**	**0**	**0**	**2**	**4**	**2**	**1**

BIKES

TIME	NB			SB			EB			WB		
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR
3:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0
3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0
3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	1	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	2	0	0	1	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	1	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	1	0	0	0	0	0	0	0
TOTALS	**0**	**4**	**0**	**0**	**2**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

PREPARED BY NATIONAL DATA & SURVEYING SERVICES

PROJECT#: 16-5115-003
N/S Street: Roxford St
E/W Street: Foothill Blvd
DATE: 3/8/2016 DAY: Tuesday
CITY: Sylmar

A M

PEDESTRIANS

TIME	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG	
	EB	WB	EB	WB	NB	SB	NB	SB
7:00 AM	0	0	0	1	0	0	0	0
7:15 AM	0	0	0	0	1	0	0	0
7:30 AM	1	0	0	0	0	0	0	0
7:45 AM	0	0	3	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	1	0	0	0	0
8:30 AM	2	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0
9:00 AM	0	2	0	0	0	0	0	0
9:15 AM	0	0	1	0	0	0	0	0
9:30 AM	2	0	0	0	0	2	0	0
9:45 AM	0	0	0	0	0	0	0	0
TOTALS	**5**	**2**	**4**	**2**	**1**	**2**	**0**	**0**

BIKES

TIME	NB			SB			EB			WB		
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	1	0	0
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	1	0	1	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	2	0
9:00 AM	0	0	0	0	0	1	0	2	0	0	0	0
9:15 AM	0	0	0	0	0	1	0	0	0	0	0	0
9:30 AM	0	0	0	0	0	0	0	0	0	0	0	0
9:45 AM	0	0	0	0	0	0	0	0	0	0	0	0
TOTALS	**0**	**0**	**0**	**0**	**1**	**2**	**1**	**2**	**0**	**1**	**2**	**0**

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PEDESTRIANS

TIME	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG	
	EB	WB	EB	WB	NB	SB	NB	SB
3:00 PM	0	0	0	0	0	0	0	0
3:15 PM	0	0	0	0	0	0	0	0
3:30 PM	0	0	0	0	0	2	0	0
3:45 PM	0	1	1	0	0	0	0	0
4:00 PM	0	1	0	0	0	0	0	1
4:15 PM	0	0	1	0	0	2	0	1
4:30 PM	0	0	0	0	0	0	0	0
4:45 PM	0	2	0	0	0	1	0	2
5:00 PM	0	0	0	0	0	0	0	0
5:15 PM	0	1	0	0	4	0	0	0
5:30 PM	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	1	0	0
TOTALS	**0**	**5**	**2**	**0**	**4**	**6**	**0**	**4**

BIKES

TIME	NB			SB			EB			WB		
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR
3:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
3:15 PM	0	0	0	0	0	0	0	1	0	0	0	0
3:30 PM	0	0	0	0	0	0	0	1	0	0	0	0
3:45 PM	0	0	0	0	0	0	0	2	0	0	0	0
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	1	0
4:30 PM	0	1	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	1	0	0	0	0	0	0	0	0	0	1
5:00 PM	0	0	1	0	0	0	0	1	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	1	0	1	0	0	1	0
TOTALS	**0**	**2**	**1**	**0**	**0**	**1**	**0**	**6**	**0**	**0**	**2**	**1**

PREPARED BY NATIONAL DATA & SURVEYING SERVICES

PROJECT#: 16-5115-004
N/S Street: Roxford St
E/W Street: Glenoaks Blvd
DATE: 3/8/2016 DAY: Tuesday
CITY: Sylmar

A M

PEDESTRIANS

TIME	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG	
	EB	WB	EB	WB	NB	SB	NB	SB
7:00 AM	3	0	2	0	0	2	0	0
7:15 AM	0	2	2	1	0	18	0	0
7:30 AM	8	3	0	2	2	20	3	0
7:45 AM	0	0	0	1	4	2	0	0
8:00 AM	0	1	1	2	0	2	1	1
8:15 AM	1	0	0	0	0	0	0	0
8:30 AM	3	0	1	0	4	2	0	0
8:45 AM	1	1	0	0	1	0	1	0
9:00 AM	0	0	1	0	0	0	0	0
9:15 AM	0	0	0	0	1	0	0	0
9:30 AM	1	0	0	0	1	1	1	3
9:45 AM	1	1	0	0	0	0	0	1
TOTALS	**18**	**8**	**7**	**6**	**13**	**47**	**6**	**5**

BIKES

TIME	NB			SB			EB			WB		
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR
7:00 AM	0	1	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	1	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	2	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0	0	1	0
8:30 AM	0	0	0	0	0	1	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0
9:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
9:15 AM	0	0	0	0	0	0	0	0	0	0	0	0
9:30 AM	0	1	0	0	0	0	0	0	0	0	0	0
9:45 AM	0	0	0	0	0	0	0	0	0	0	1	0
TOTALS	**0**	**2**	**0**	**0**	**2**	**1**	**0**	**0**	**1**	**0**	**2**	**0**

P M

PEDESTRIANS

TIME	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG	
	EB	WB	EB	WB	NB	SB	NB	SB
3:00 PM	1	1	2	4	0	3	2	2
3:15 PM	1	0	0	1	0	0	2	1
3:30 PM	0	2	2	6	0	0	1	3
3:45 PM	0	0	2	9	4	3	2	0
4:00 PM	0	6	1	3	0	1	1	4
4:15 PM	1	3	2	2	6	0	2	3
4:30 PM	5	1	0	7	0	0	2	2
4:45 PM	0	0	1	3	1	0	1	1
5:00 PM	0	0	0	3	1	0	6	2
5:15 PM	0	1	2	1	2	1	0	1
5:30 PM	0	1	0	0	1	0	1	0
5:45 PM	5	8	1	1	0	2	0	2
TOTALS	**13**	**23**	**13**	**40**	**15**	**10**	**20**	**21**

BIKES

TIME	NB			SB			EB			WB		
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR
3:00 PM	0	1	0	0	0	0	0	0	0	0	0	0
3:15 PM	0	0	0	0	0	0	0	1	1	0	0	0
3:30 PM	0	0	1	0	0	0	0	0	0	0	0	0
3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	1	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	1	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	1	1	0	1	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0
TOTALS	**0**	**3**	**2**	**0**	**1**	**0**	**0**	**1**	**1**	**0**	**1**	**0**

PREPARED BY NATIONAL DATA & SURVEYING SERVICES

PROJECT#: 16-5115-005
N/S Street: Roxford St
E/W Street: San Fernando Rd
DATE: 3/8/2016 DAY: Tuesday
CITY: Sylmar

A M

PEDESTRIANS

TIME	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG	
	EB	WB	EB	WB	NB	SB	NB	SB
7:00 AM	0	3	0	0	3	0	2	0
7:15 AM	0	6	0	0	2	1	1	2
7:30 AM	0	3	1	1	0	0	1	2
7:45 AM	0	0	1	0	0	0	1	0
8:00 AM	0	0	0	0	0	1	0	0
8:15 AM	0	3	1	1	0	0	0	1
8:30 AM	0	0	2	1	0	3	0	1
8:45 AM	0	0	0	1	0	1	0	0
9:00 AM	0	0	0	0	0	0	0	0
9:15 AM	0	0	0	0	0	0	0	0
9:30 AM	0	0	0	0	0	0	0	0
9:45 AM	0	0	0	1	0	2	0	0
TOTALS	**0**	**15**	**5**	**5**	**5**	**8**	**5**	**6**

BIKES

TIME	NB			SB			EB			WB		
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	1	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	1	0	0	0	1	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0
9:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
9:15 AM	0	0	0	0	0	0	0	0	0	0	0	0
9:30 AM	0	0	0	0	0	0	0	0	0	0	0	0
9:45 AM	0	0	0	0	0	0	0	0	0	0	0	0
TOTALS	**0**	**1**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**1**	**0**	**0**

P M

PEDESTRIANS

TIME	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG	
	EB	WB	EB	WB	NB	SB	NB	SB
3:00 PM	0	0	0	1	0	2	0	0
3:15 PM	0	0	1	0	0	0	0	0
3:30 PM	0	0	0	0	0	0	0	0
3:45 PM	1	0	0	0	0	0	0	0
4:00 PM	2	0	1	0	0	1	0	1
4:15 PM	0	0	0	0	1	2	0	0
4:30 PM	2	1	1	0	0	1	0	2
4:45 PM	0	0	1	0	1	0	0	0
5:00 PM	0	0	4	1	0	0	0	1
5:15 PM	0	0	0	0	0	1	0	0
5:30 PM	0	1	0	0	0	2	0	0
5:45 PM	0	0	1	1	0	2	0	0
TOTALS	**5**	**2**	**9**	**3**	**2**	**11**	**0**	**4**

BIKES

TIME	NB			SB			EB			WB		
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR
3:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0
3:30 PM	0	0	0	0	0	0	0	1	0	0	0	0
3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	1	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	1	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0
TOTALS	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**2**	**0**	**0**	**0**	**0**

PREPARED BY NATIONAL DATA & SURVEYING SERVICES

PROJECT#: 16-5115-006
N/S Street: Roxford St
E/W Street: Encinitas Ave
DATE: 3/8/2016 DAY: Tuesday
CITY: Sylmar

A M

PEDESTRIANS

TIME	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG	
	EB	WB	EB	WB	NB	SB	NB	SB
7:00 AM	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	1	0	0	0
8:15 AM	0	0	0	0	1	0	0	0
8:30 AM	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0
9:00 AM	0	0	0	0	1	0	0	0
9:15 AM	0	0	0	0	0	1	0	0
9:30 AM	0	0	0	0	0	0	0	0
9:45 AM	0	0	0	0	0	0	0	0
TOTALS	**0**	**0**	**0**	**0**	**3**	**1**	**0**	**0**

BIKES

TIME	NB			SB			EB			WB		
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	1	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0
9:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
9:15 AM	0	0	0	0	0	0	0	0	0	0	0	0
9:30 AM	0	0	0	0	0	0	0	0	0	0	0	0
9:45 AM	0	0	0	0	0	0	0	0	0	0	0	0
TOTALS	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

P M

PEDESTRIANS

TIME	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG	
	EB	WB	EB	WB	NB	SB	NB	SB
3:00 PM	0	0	0	0	2	0	0	0
3:15 PM	0	0	0	0	0	0	0	0
3:30 PM	0	0	0	0	1	0	0	0
3:45 PM	0	0	0	0	0	0	0	0
4:00 PM	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	2	0	0	0
4:30 PM	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	1	0	0	0
5:00 PM	0	0	0	0	0	2	0	0
5:15 PM	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	2	1	0	0
5:45 PM	0	0	0	0	1	1	0	0
TOTALS	**0**	**0**	**0**	**0**	**9**	**4**	**0**	**0**

BIKES

TIME	NB			SB			EB			WB		
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR
3:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0
3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0
3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0
TOTALS	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

PREPARED BY NATIONAL DATA & SURVEYING SERVICES

PROJECT#: 16-5115-007
N/S Street: Roxford St
E/W Street: I-5 EB Ramps
DATE: 3/8/2016 DAY: Tuesday
CITY: Sylmar

A M

PEDESTRIANS

TIME	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG	
	EB	WB	EB	WB	NB	SB	NB	SB
7:00 AM	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0
9:00 AM	0	0	0	0	0	0	0	0
9:15 AM	0	0	0	0	0	0	0	0
9:30 AM	0	0	0	0	0	0	0	0
9:45 AM	0	0	0	0	0	0	0	0
TOTALS	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

BIKES

TIME	NB			SB			EB			WB		
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0
9:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
9:15 AM	0	0	0	0	0	0	0	0	0	0	0	0
9:30 AM	0	0	0	0	0	0	0	0	0	0	0	0
9:45 AM	0	0	0	0	0	0	0	0	0	0	0	0
TOTALS	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

P M

PEDESTRIANS

TIME	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG	
	EB	WB	EB	WB	NB	SB	NB	SB
3:00 PM	0	0	0	0	0	0	0	0
3:15 PM	0	0	0	0	0	0	0	0
3:30 PM	0	0	0	0	0	0	0	0
3:45 PM	0	0	0	0	0	0	0	0
4:00 PM	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0
TOTALS	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

BIKES

TIME	NB			SB			EB			WB		
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR
3:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0
3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0
3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0
TOTALS	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

PREPARED BY NATIONAL DATA & SURVEYING SERVICES

PROJECT#: 16-5115-008
N/S Street: Bledsoe St
E/W Street: Olive View Dr
DATE: 3/8/2016 DAY: Tuesday
CITY: Sylmar

A M

PEDESTRIANS

TIME	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG	
	EB	WB	EB	WB	NB	SB	NB	SB
7:00 AM	0	1	0	0	2	0	2	0
7:15 AM	1	2	0	0	0	0	0	0
7:30 AM	0	1	0	0	0	0	0	0
7:45 AM	2	1	0	0	0	0	4	0
8:00 AM	0	0	0	0	0	0	0	0
8:15 AM	0	3	1	0	0	1	1	0
8:30 AM	0	0	1	0	0	0	1	0
8:45 AM	0	0	0	1	0	0	0	0
9:00 AM	0	1	0	0	0	0	1	0
9:15 AM	0	0	0	0	0	0	0	0
9:30 AM	0	0	0	0	0	0	0	0
9:45 AM	0	1	0	0	0	0	1	0
TOTALS	**3**	**10**	**2**	**1**	**2**	**1**	**10**	**0**

BIKES

TIME	NB			SB			EB			WB		
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	1	0	0	0	0	1
8:15 AM	0	0	0	0	0	0	0	0	0	0	1	0
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0
9:00 AM	1	0	0	1	0	0	0	0	0	0	0	0
9:15 AM	0	0	0	0	0	0	0	0	0	0	0	0
9:30 AM	0	0	0	0	0	0	0	0	0	0	0	0
9:45 AM	0	0	0	0	0	0	0	0	0	0	0	0
TOTALS	**1**	**0**	**0**	**1**	**0**	**0**	**1**	**0**	**0**	**0**	**1**	**1**

P M

PEDESTRIANS

TIME	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG	
	EB	WB	EB	WB	NB	SB	NB	SB
3:00 PM	1	1	1	1	0	0	2	2
3:15 PM	0	0	0	0	0	0	1	1
3:30 PM	8	2	1	1	0	4	0	2
3:45 PM	2	0	0	0	0	0	0	1
4:00 PM	1	2	1	0	1	0	1	0
4:15 PM	1	0	0	0	0	0	0	1
4:30 PM	1	1	0	0	0	0	1	2
4:45 PM	2	3	0	0	0	1	0	3
5:00 PM	0	0	0	0	2	0	0	2
5:15 PM	4	1	0	0	0	0	0	1
5:30 PM	3	2	0	0	2	3	0	1
5:45 PM	3	0	0	1	0	1	0	1
TOTALS	**26**	**12**	**3**	**3**	**5**	**9**	**5**	**17**

BIKES

TIME	NB			SB			EB			WB		
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR
3:00 PM	0	0	0	1	0	0	0	0	0	0	0	0
3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0
3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0
3:45 PM	0	0	0	0	0	0	0	0	0	0	0	1
4:00 PM	0	0	0	0	0	0	0	0	0	1	0	0
4:15 PM	0	0	0	0	0	0	0	0	1	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	1	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	1	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	2	0	0	0
5:45 PM	0	0	1	0	0	0	0	0	0	0	0	0
TOTALS	**0**	**0**	**1**	**1**	**0**	**0**	**0**	**0**	**5**	**1**	**0**	**1**

PREPARED BY NATIONAL DATA & SURVEYING SERVICES

PROJECT#: 16-5115-009
N/S Street: Bledsoe St
E/W Street: Foothill Blvd
DATE: 3/8/2016 DAY: Tuesday
CITY: Sylmar

A M

PEDESTRIANS

TIME	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG	
	EB	WB	EB	WB	NB	SB	NB	SB
7:00 AM	1	2	2	1	2	1	0	1
7:15 AM	0	0	2	0	1	6	0	0
7:30 AM	0	0	3	3	0	15	0	0
7:45 AM	0	0	1	0	2	8	2	0
8:00 AM	0	1	0	0	2	2	0	1
8:15 AM	0	0	1	0	0	0	0	0
8:30 AM	1	0	0	1	0	2	1	0
8:45 AM	3	1	0	0	0	0	1	0
9:00 AM	0	0	1	1	2	0	1	0
9:15 AM	0	0	0	0	0	0	0	0
9:30 AM	0	2	0	0	0	1	1	1
9:45 AM	0	1	3	0	1	1	0	0
TOTALS	**5**	**7**	**13**	**6**	**10**	**36**	**6**	**3**

BIKES

TIME	NB			SB			EB			WB		
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	1	0
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0	0	2	0
8:45 AM	0	0	0	0	0	0	0	1	0	0	0	0
9:00 AM	0	0	0	0	0	0	0	2	0	0	0	1
9:15 AM	0	0	0	0	0	0	0	0	0	0	0	0
9:30 AM	0	0	0	0	0	0	0	0	0	0	0	0
9:45 AM	0	0	0	0	0	0	0	0	0	0	0	0
TOTALS	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**3**	**0**	**0**	**3**	**1**

P M

PEDESTRIANS

TIME	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG	
	EB	WB	EB	WB	NB	SB	NB	SB
3:00 PM	0	0	0	1	2	0	0	1
3:15 PM	0	0	0	0	0	0	1	1
3:30 PM	0	0	0	1	0	2	0	0
3:45 PM	0	0	0	1	3	2	0	0
4:00 PM	0	0	1	1	4	1	0	0
4:15 PM	0	1	0	0	0	1	1	1
4:30 PM	2	0	1	0	0	0	2	0
4:45 PM	2	0	1	4	0	2	0	0
5:00 PM	0	0	0	1	1	0	0	0
5:15 PM	0	0	0	1	1	3	0	0
5:30 PM	0	0	2	0	4	0	0	0
5:45 PM	0	1	2	4	1	2	1	0
TOTALS	**4**	**2**	**7**	**14**	**16**	**13**	**5**	**3**

BIKES

TIME	NB			SB			EB			WB		
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR
3:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
3:15 PM	0	0	0	0	0	0	0	1	0	0	0	0
3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0
3:45 PM	0	0	1	0	0	0	0	2	0	0	0	0
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	1	0	0	0	0	0	0	1	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	1	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	1	1	0	0
5:15 PM	0	0	0	0	0	0	0	1	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	1	0	0	0	0	0	0	0	0	1	0
TOTALS	**0**	**1**	**1**	**1**	**1**	**0**	**0**	**4**	**1**	**1**	**2**	**0**

PREPARED BY NATIONAL DATA & SURVEYING SERVICES

PROJECT#: 16-5421-002
N/S Street: Glenoaks Blvd
E/W Street: Foothill Blvd
DATE: 6/9/2016 DAY: Thursday
CITY: Sylmar

A M

PEDESTRIANS

TIME	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG	
	EB	WB	EB	WB	NB	SB	NB	SB
7:00 AM	0	0	1	1	0	0	0	0
7:15 AM	0	0	2	0	0	0	0	0
7:30 AM	0	0	0	0	0	1	0	2
7:45 AM	0	0	1	1	0	0	0	0
8:00 AM	0	0	3	1	0	0	0	0
8:15 AM	0	0	0	0	1	0	0	0
8:30 AM	0	0	0	0	1	0	2	1
8:45 AM	0	0	0	0	0	0	0	0
9:00 AM	0	0	0	1	0	0	0	0
9:15 AM	0	0	0	0	0	0	0	0
9:30 AM	0	0	0	1	0	0	1	1
9:45 AM	0	0	0	0	0	0	0	0
TOTALS	**0**	**0**	**7**	**5**	**2**	**1**	**3**	**4**

BIKES

TIME	NB			SB			EB			WB		
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	1	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0	0	1	0
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	1	0	0	1	0
9:00 AM	0	0	0	0	0	1	0	1	0	0	1	0
9:15 AM	0	0	0	0	0	0	0	1	0	0	0	0
9:30 AM	0	0	0	0	0	0	0	0	0	0	0	0
9:45 AM	0	0	0	0	0	0	0	0	0	0	0	0
TOTALS	**1**	**0**	**0**	**0**	**0**	**1**	**0**	**3**	**0**	**0**	**3**	**0**

P M

PEDESTRIANS

TIME	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG	
	EB	WB	EB	WB	NB	SB	NB	SB
3:00 PM	0	0	0	0	0	0	0	0
3:15 PM	0	0	0	1	0	0	0	0
3:30 PM	0	0	0	0	0	0	0	0
3:45 PM	0	0	1	0	1	0	0	0
4:00 PM	0	0	0	0	0	0	0	1
4:15 PM	0	0	0	1	0	0	0	0
4:30 PM	0	0	1	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	1	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0
5:30 PM	0	0	1	5	0	0	0	0
5:45 PM	0	0	0	1	0	0	0	2
TOTALS	**0**	**0**	**3**	**9**	**1**	**0**	**0**	**3**

BIKES

TIME	NB			SB			EB			WB		
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR
3:00 PM	0	0	0	0	0	0	0	0	0	0	1	0
3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0
3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0
3:45 PM	0	0	0	0	0	0	0	0	1	0	0	0
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	2	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	1	0	0	0
5:00 PM	0	0	0	0	0	1	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	1	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	1	0
TOTALS	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**3**	**2**	**0**	**2**	**0**

PREPARED BY NATIONAL DATA & SURVEYING SERVICES

PROJECT#: 16-5115-010
N/S Street: Polk St
E/W Street: I-210 WB Ramps
DATE: 3/8/2016 DAY: Tuesday
CITY: Sylmar

A M

PEDESTRIANS

TIME	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG	
	EB	WB	EB	WB	NB	SB	NB	SB
7:00 AM	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	1	0
7:30 AM	0	0	0	0	0	1	0	0
7:45 AM	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	1	0
8:15 AM	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	1
9:00 AM	0	0	0	0	0	0	0	0
9:15 AM	0	0	0	0	0	0	0	1
9:30 AM	0	0	0	0	0	0	0	0
9:45 AM	0	0	0	0	0	1	0	0
TOTALS	**0**	**0**	**0**	**0**	**0**	**2**	**2**	**2**

BIKES

TIME	NB			SB			EB			WB		
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	1	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	1	0	0	0	0	0	0	0	0	0	0
9:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
9:15 AM	0	0	0	0	0	0	0	0	0	0	0	0
9:30 AM	0	0	0	0	0	0	0	0	0	0	0	0
9:45 AM	0	0	0	0	0	0	0	0	0	0	0	0
TOTALS	**0**	**1**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

P M

PEDESTRIANS

TIME	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG	
	EB	WB	EB	WB	NB	SB	NB	SB
3:00 PM	0	0	0	0	0	0	0	0
3:15 PM	0	0	0	0	0	1	0	0
3:30 PM	0	0	0	0	0	4	0	0
3:45 PM	0	0	0	0	1	1	0	0
4:00 PM	0	0	0	0	0	0	1	0
4:15 PM	0	0	0	0	1	0	1	0
4:30 PM	0	0	0	0	0	0	0	2
4:45 PM	0	0	0	0	0	1	0	0
5:00 PM	0	0	0	0	2	0	0	0
5:15 PM	0	0	0	0	2	4	1	1
5:30 PM	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0
TOTALS	**0**	**0**	**0**	**0**	**6**	**11**	**3**	**3**

BIKES

TIME	NB			SB			EB			WB		
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR
3:00 PM	0	1	0	0	1	0	0	0	0	0	0	0
3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0
3:30 PM	0	0	0	0	1	0	0	0	0	0	0	0
3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	1	0	0	0	0	0	0	0
4:45 PM	0	1	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0
TOTALS	**0**	**2**	**0**	**0**	**3**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

PREPARED BY NATIONAL DATA & SURVEYING SERVICES

PROJECT#: 16-5115-011
N/S Street: Polk St
E/W Street: I-210 EB Ramps
DATE: 3/8/2016 DAY: Tuesday
CITY: Sylmar

A M

PEDESTRIANS

TIME	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG	
	EB	WB	EB	WB	NB	SB	NB	SB
7:00 AM	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	1	0
7:30 AM	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	1	0
8:15 AM	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	1
9:00 AM	0	0	0	0	0	0	0	0
9:15 AM	0	0	0	0	0	0	0	1
9:30 AM	0	0	0	0	0	0	0	0
9:45 AM	0	0	0	0	0	1	0	0
TOTALS	**0**	**0**	**0**	**0**	**0**	**1**	**2**	**2**

BIKES

TIME	NB			SB			EB			WB		
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	1	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	1	0	0	0	0	0	0	0	0	0	0
9:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
9:15 AM	0	0	0	0	0	0	0	0	0	0	0	0
9:30 AM	0	0	0	0	0	0	0	0	0	0	0	0
9:45 AM	0	0	0	0	0	0	0	0	0	0	0	0
TOTALS	**0**	**1**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

P M

PEDESTRIANS

TIME	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG	
	EB	WB	EB	WB	NB	SB	NB	SB
3:00 PM	0	0	0	0	0	0	0	0
3:15 PM	0	0	0	0	0	1	0	0
3:30 PM	0	0	0	0	0	3	0	0
3:45 PM	0	0	0	0	1	2	1	0
4:00 PM	0	0	0	0	0	2	0	0
4:15 PM	0	0	0	0	3	0	1	0
4:30 PM	0	0	0	0	0	0	0	2
4:45 PM	0	0	0	0	0	1	0	0
5:00 PM	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	2	0	1
5:30 PM	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0
TOTALS	**0**	**0**	**0**	**0**	**4**	**11**	**2**	**3**

BIKES

TIME	NB			SB			EB			WB		
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR
3:00 PM	0	1	0	0	1	0	0	0	0	0	0	0
3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0
3:30 PM	0	0	1	0	1	0	0	0	0	0	0	0
3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	1	0	0	0	0	0	0	0
4:45 PM	0	1	1	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0
TOTALS	**0**	**2**	**2**	**0**	**3**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

PREPARED BY NATIONAL DATA & SURVEYING SERVICES

PROJECT#: 16-5115-012
N/S Street: Polk St
E/W Street: Foothill Blvd
DATE: 3/8/2016 DAY: Tuesday
CITY: Sylmar

A M

PEDESTRIANS

TIME	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG	
	EB	WB	EB	WB	NB	SB	NB	SB
7:00 AM	0	3	0	7	0	3	0	4
7:15 AM	2	2	6	10	0	15	1	2
7:30 AM	1	1	4	9	0	7	0	2
7:45 AM	6	1	7	5	4	0	1	0
8:00 AM	2	1	3	3	1	2	3	2
8:15 AM	1	2	1	3	1	1	1	0
8:30 AM	0	3	3	2	1	2	1	0
8:45 AM	0	0	2	1	0	0	0	1
9:00 AM	0	0	1	3	0	0	0	0
9:15 AM	1	0	1	2	0	0	0	1
9:30 AM	0	1	0	2	1	1	0	0
9:45 AM	0	1	1	0	2	1	0	0
TOTALS	**13**	**15**	**29**	**47**	**10**	**32**	**7**	**12**

BIKES

TIME	NB			SB			EB			WB		
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR
7:00 AM	0	0	1	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	1	0	0	0	0	0	1	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	1	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	1	0	0	0	0	0	0	1	0	0	2	0
8:45 AM	1	1	0	0	0	0	0	1	0	0	0	0
9:00 AM	0	0	0	0	0	0	0	2	1	0	0	0
9:15 AM	0	0	0	0	0	0	0	0	0	0	0	0
9:30 AM	0	0	0	0	0	0	0	0	0	0	0	0
9:45 AM	0	0	0	0	0	0	0	0	0	0	0	0
TOTALS	**2**	**1**	**1**	**0**	**2**	**0**	**0**	**4**	**1**	**0**	**3**	**0**

P M

PEDESTRIANS

TIME	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG	
	EB	WB	EB	WB	NB	SB	NB	SB
3:00 PM	1	0	5	8	5	1	1	1
3:15 PM	2	4	5	2	1	1	0	2
3:30 PM	2	0	3	5	2	8	3	2
3:45 PM	1	1	1	2	1	2	2	1
4:00 PM	0	1	0	1	1	0	0	1
4:15 PM	0	0	2	13	3	0	4	0
4:30 PM	0	1	0	3	1	1	0	0
4:45 PM	1	1	5	3	1	1	1	1
5:00 PM	1	2	6	7	4	2	1	1
5:15 PM	2	2	2	4	3	2	1	0
5:30 PM	1	3	1	2	3	0	1	1
5:45 PM	0	0	6	10	1	0	0	0
TOTALS	**11**	**15**	**36**	**60**	**26**	**18**	**14**	**10**

BIKES

TIME	NB			SB			EB			WB		
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR
3:00 PM	0	0	0	1	0	0	1	0	0	0	0	0
3:15 PM	0	0	0	0	0	0	0	1	0	0	0	0
3:30 PM	0	0	0	0	1	0	0	0	0	0	1	0
3:45 PM	0	0	0	0	0	0	0	3	0	0	0	0
4:00 PM	0	0	0	0	0	0	0	1	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	1	0	1	0	0
4:30 PM	0	0	1	0	1	0	0	1	0	0	0	0
4:45 PM	0	1	1	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	1	0	0
5:15 PM	0	0	0	0	0	0	0	1	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	1	0	0	0	0
TOTALS	**0**	**1**	**2**	**1**	**2**	**0**	**1**	**9**	**0**	**2**	**1**	**0**

APPENDIX C: LOS ANALYSIS WORKSHEETS

Level of Service Worksheet
(Circular 212 Method)

I/S #:	PROJECT TITLE:	<Project Name>		
1	North-South Street:	Glenoaks Blvd	East-West Street:	Foothill Blvd
	Scenario:	Cumulative plus Project		
	Count Date:	1/0/1900	Analyst: <Fehr & Peers>	Date: <date>

		AM				PM			
	No. of Phases				2				2
	Opposed Ø'ing: N/S-1, E/W-2 or Both-3?				0				0
	Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB-- 0	SB--		0	NB-- 0	SB--		0
		EB-- 0	WB--		0	EB-- 0	WB--		0
	ATSAC-1 or ATSAC+ATCS-2?				2				2
	Override Capacity				0				0
	MOVEMENT	Volume	No. of Lanes	Lane Volume		Volume	No. of Lanes	Lane Volume	
NORTHBOUND	Left	111	1	**111**		143	1	**143**	
	Left-Through		0				0		
	Through	13	1	13		29	1	24	
	Through-Right		1				1		
	Right	12	0	12		18	0	18	
	Left-Through-Right		0				0		
	Left-Right		0				0		
SOUTHBOUND	Left	38	1	38		28	1	28	
	Left-Through		0				0		
	Through	53	1	53		13	1	13	
	Through-Right		1				1		
	Right	112	0	**106**		44	0	**15**	
	Left-Through-Right		0				0		
	Left-Right		0				0		
EASTBOUND	Left	13	1	13		58	1	**58**	
	Left-Through		0				0		
	Through	375	1	**375**		245	1	245	
	Through-Right		0				0		
	Right	180	1	125		146	1	75	
	Left-Through-Right		0				0		
	Left-Right		0				0		
WESTBOUND	Left	10	1	**10**		18	1	18	
	Left-Through		0				0		
	Through	182	0	194		226	0	**259**	
	Through-Right		1				1		
	Right	12	0	0		33	0	0	
	Left-Through-Right		0				0		
	Left-Right		0				0		
	CRITICAL VOLUMES		North-South:	217			North-South:	158	
			East-West:	385			East-West:	317	
			SUM:	602			SUM:	475	
	VOLUME/CAPACITY (V/C) RATIO:			0.401				0.317	
	V/C LESS ATSAC/ATCS ADJUSTMENT:			**0.301**				**0.217**	
	LEVEL OF SERVICE (LOS):			**A**				**A**	

Version: 1i Beta; 8/4/2011

Level of Service Worksheet
(Circular 212 Method)

I/S #:	PROJECT TITLE:	<Project Name>		
2	North-South Street:	Roxford Street	East-West Street:	I-210 WB Ramps
	Scenario:	Cumulative plus Project		
	Count Date:	1/0/1900	Analyst: <Fehr & Peers>	Date: <date>

		AM			PM		
	No. of Phases			2			2
	Opposed Ø'ing: N/S-1, E/W-2 or Both-3?			2			2
	Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB-- 0	SB--	0	NB-- 0	SB--	0
		EB-- 0	WB--	0	EB-- 0	WB--	0
	ATSAC-1 or ATSAC+ATCS-2?			2			2
	Override Capacity			0			0
	MOVEMENT	Volume	No. of Lanes	Lane Volume	Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	377	1	**377**	219	1	**219**
	Left-Through		0			0	
	Through	865	2	433	284	2	142
	Through-Right		0			0	
	Right	0	0	0	0	0	0
	Left-Through-Right		0			0	
	Left-Right		0			0	
SOUTHBOUND	Left	0	0	0	0	0	0
	Left-Through		0			0	
	Through	228	1	228	403	1	403
	Through-Right		1			1	
	Right	372	0	**372**	685	0	**685**
	Left-Through-Right		0			0	
	Left-Right		0			0	
EASTBOUND	Left	0	0	0	0	0	0
	Left-Through		0			0	
	Through	0	0	**0**	0	0	**0**
	Through-Right		0			0	
	Right	0	0	0	0	0	0
	Left-Through-Right		0			0	
	Left-Right		0			0	
WESTBOUND	Left	476	1	**364**	277	1	**197**
	Left-Through		0			0	
	Through	3	0	364	2	0	197
	Through-Right		0			0	
	Right	249	0	0	114	0	0
	Left-Through-Right		1			1	
	Left-Right		0			0	
	CRITICAL VOLUMES		*North-South:*	749		*North-South:*	904
			East-West:	364		*East-West:*	197
			SUM:	1113		*SUM:*	1101
	VOLUME/CAPACITY *(V/C)* RATIO:			0.742			0.734
	V/C LESS ATSAC/ATCS ADJUSTMENT:			**0.642**			**0.634**
	LEVEL OF SERVICE (LOS):			**B**			**B**

Version: 1i Beta; 8/4/2011

Level of Service Worksheet
(Circular 212 Method)

I/S #:	PROJECT TITLE:	<Project Name>		
3	North-South Street:	Roxford Street	East-West Street:	I-210 EB Ramps
	Scenario:	Cumulative plus Project		
	Count Date:	1/0/1900	Analyst: <Fehr & Peers>	Date: <date>

		AM			PM		
No. of Phases				3			3
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?				0			0
Right Turns: FREE-1, NRTOR-2 or OLA-3?		NB-- 0	SB--	0	NB-- 0	SB--	0
		EB-- 0	WB--	0	EB-- 0	WB--	0
ATSAC-1 or ATSAC+ATCS-2?				2			2
Override Capacity				0			0
	MOVEMENT	Volume	No. of Lanes	Lane Volume	Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	0	0	0	0	0	0
	Left-Through		0			0	
	Through	766	1	**538**	348	1	**336**
	Through-Right		1			1	
	Right	309	0	309	324	0	324
	Left-Through-Right		0			0	
	Left-Right		0			0	
SOUTHBOUND	Left	120	1	**120**	209	1	**209**
	Left-Through		0			0	
	Through	581	2	291	457	2	229
	Through-Right		0			0	
	Right	0	0	0	0	0	0
	Left-Through-Right		0			0	
	Left-Right		0			0	
EASTBOUND	Left	470	0	470	172	0	172
	Left-Through		1			1	
	Through	0	0	**470**	2	0	174
	Through-Right		0			0	
	Right	400	1	400	252	1	**252**
	Left-Through-Right		0			0	
	Left-Right		0			0	
WESTBOUND	Left	0	0	**0**	0	0	**0**
	Left-Through		0			0	
	Through	0	0	0	0	0	0
	Through-Right		0			0	
	Right	0	0	0	0	0	0
	Left-Through-Right		0			0	
	Left-Right		0			0	
CRITICAL VOLUMES			North-South:	658		North-South:	545
			East-West:	470		East-West:	252
			SUM:	1128		SUM:	797
VOLUME/CAPACITY (V/C) RATIO:				0.792			0.559
V/C LESS ATSAC/ATCS ADJUSTMENT:				**0.692**			**0.459**
LEVEL OF SERVICE (LOS):				**B**			**A**

Version: 1i Beta; 8/4/2011

Level of Service Worksheet
(Circular 212 Method)

I/S #:	
4	

PROJECT TITLE: <Project Name>
North-South Street: Roxford Street **East-West Street:** Foothill Blvd
Scenario: Cumulative plus Project
Count Date: 1/0/1900 **Analyst:** <Fehr & Peers> **Date:** <date>

		AM			PM		
No. of Phases				4			4
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?				0			0
Right Turns: FREE-1, NRTOR-2 or OLA-3?		NB-- 0	SB--	3	NB-- 0	SB--	3
		EB-- 3	WB--	3	EB-- 3	WB--	3
ATSAC-1 or ATSAC+ATCS-2?				2			2
Override Capacity				0			0
MOVEMENT		**Volume**	**No. of Lanes**	**Lane Volume**	**Volume**	**No. of Lanes**	**Lane Volume**
NORTHBOUND	Left	13	1	**13**	16	1	16
	Left-Through		0			0	
	Through	517	1	517	493	1	**493**
	Through-Right		0			0	
	Right	71	1	9	88	1	56
	Left-Through-Right		0			0	
	Left-Right		0			0	
SOUTHBOUND	Left	122	1	122	116	1	**116**
	Left-Through		0			0	
	Through	782	1	**782**	443	1	443
	Through-Right		0			0	
	Right	85	1	0	152	1	62
	Left-Through-Right		0			0	
	Left-Right		0			0	
EASTBOUND	Left	297	1	**297**	90	1	**90**
	Left-Through		0			0	
	Through	186	1	186	176	1	176
	Through-Right		0			0	
	Right	39	1	26	19	1	3
	Left-Through-Right		0			0	
	Left-Right		0			0	
WESTBOUND	Left	124	1	124	65	1	65
	Left-Through		0			0	
	Through	116	1	**116**	158	1	**158**
	Through-Right		0			0	
	Right	238	1	116	91	1	0
	Left-Through-Right		0			0	
	Left-Right		0			0	
CRITICAL VOLUMES			*North-South:*	795		*North-South:*	609
			East-West:	413		*East-West:*	248
			SUM:	1208		*SUM:*	857
VOLUME/CAPACITY *(V/C)* RATIO:				0.879			0.623
V/C LESS ATSAC/ATCS ADJUSTMENT:				**0.779**			**0.523**
LEVEL OF SERVICE (LOS):				**C**			**A**

Version: 1i Beta; 8/4/2011

Level of Service Worksheet
(Circular 212 Method)

I/S #:	
5	

PROJECT TITLE: <Project Name>
North-South Street: Roxford Street **East-West Street:** Glenoaks Blvd
Scenario: Cumulative plus Project
Count Date: 1/0/1900 **Analyst:** <Fehr & Peers> **Date:** <date>

		AM				PM			
No. of Phases					2				2
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?					0				0
Right Turns: FREE-1, NRTOR-2 or OLA-3?		NB-- 0	SB--		0	NB-- 0	SB--		0
		EB-- 0	WB--		0	EB-- 0	WB--		0
ATSAC-1 or ATSAC+ATCS-2?					2				2
Override Capacity					0				0
	MOVEMENT	Volume	No. of Lanes	Lane Volume		Volume	No. of Lanes	Lane Volume	
NORTHBOUND	Left	37	1	37		97	1	97	
	Left-Through		0				0		
	Through	336	1	**336**		418	1	**418**	
	Through-Right		0				0		
	Right	245	1	138		203	1	143	
	Left-Through-Right		0				0		
	Left-Right		0				0		
SOUTHBOUND	Left	406	1	**406**		162	1	**162**	
	Left-Through		0				0		
	Through	536	1	536		308	1	308	
	Through-Right		0				0		
	Right	18	1	4		19	1	5	
	Left-Through-Right		0				0		
	Left-Right		0				0		
EASTBOUND	Left	29	1	29		29	1	**29**	
	Left-Through		0				0		
	Through	254	1	**176**		124	1	84	
	Through-Right		1				1		
	Right	97	0	97		44	0	44	
	Left-Through-Right		0				0		
	Left-Right		0				0		
WESTBOUND	Left	214	1	**214**		120	1	120	
	Left-Through		0				0		
	Through	136	1	136		217	1	**176**	
	Through-Right		1				1		
	Right	174	0	0		135	0	135	
	Left-Through-Right		0				0		
	Left-Right		0				0		
CRITICAL VOLUMES			*North-South:*	742			*North-South:*	580	
			East-West:	390			*East-West:*	205	
			SUM:	1132			*SUM:*	785	
VOLUME/CAPACITY *(V/C)* RATIO:				0.755				0.523	
V/C LESS ATSAC/ATCS ADJUSTMENT:				**0.655**				**0.423**	
LEVEL OF SERVICE (LOS):				**B**				**A**	

Version: 1i Beta; 8/4/2011

Level of Service Worksheet
(Circular 212 Method)

I/S #:	PROJECT TITLE:	<Project Name>		
6	North-South Street:	Roxford Street	East-West Street:	San Fernando Road
	Scenario:	Cumulative plus Project		
	Count Date:	1/0/1900	Analyst: <Fehr & Peers>	Date: <date>

		AM			PM		
	No. of Phases			4			4
	Opposed Ø'ing: N/S-1, E/W-2 or Both-3?			0			0
	Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB-- 0	SB--	2	NB-- 0	SB--	2
		EB-- 0	WB--	0	EB-- 0	WB--	0
	ATSAC-1 or ATSAC+ATCS-2?			2			2
	Override Capacity			0			0
	MOVEMENT	Volume	No. of Lanes	Lane Volume	Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	149	1	**149**	76	1	76
	Left-Through		0			0	
	Through	603	1	356	495	1	**315**
	Through-Right		1			1	
	Right	109	0	109	135	0	135
	Left-Through-Right		0			0	
	Left-Right		0			0	
SOUTHBOUND	Left	135	1	135	119	1	**119**
	Left-Through		0			0	
	Through	642	1	**452**	534	1	320
	Through-Right		1			1	
	Right	261	0	261	106	0	106
	Left-Through-Right		0			0	
	Left-Right		0			0	
EASTBOUND	Left	101	1	101	186	1	186
	Left-Through		0			0	
	Through	308	1	**188**	233	1	**204**
	Through-Right		1			1	
	Right	68	0	68	175	0	175
	Left-Through-Right		0			0	
	Left-Right		0			0	
WESTBOUND	Left	163	1	**163**	180	1	**180**
	Left-Through		0			0	
	Through	213	1	154	277	1	189
	Through-Right		1			1	
	Right	95	0	95	100	0	100
	Left-Through-Right		0			0	
	Left-Right		0			0	
	CRITICAL VOLUMES		*North-South:*	601		*North-South:*	434
			East-West:	351		*East-West:*	384
			SUM:	952		*SUM:*	818
	VOLUME/CAPACITY *(V/C)* RATIO:			0.692			0.595
	V/C LESS ATSAC/ATCS ADJUSTMENT:			**0.592**			**0.495**
	LEVEL OF SERVICE (LOS):			**A**			**A**

Version: 1i Beta; 8/4/2011

Level of Service Worksheet
(Circular 212 Method)

I/S #:	PROJECT TITLE:	<Project Name>		
7	North-South Street:	Roxford Street	East-West Street:	Encinitas Ave/I-5 NB Ramps
	Scenario:	Cumulative plus Project		
	Count Date:	1/0/1900	Analyst: <Fehr & Peers>	Date: <date>

		AM				PM			
No. of Phases					3				3
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?					2				2
Right Turns: FREE-1, NRTOR-2 or OLA-3?		NB--	0	SB--	0	NB--	0	SB--	0
		EB--	0	WB--	0	EB--	0	WB--	0
ATSAC-1 or ATSAC+ATCS-2?					2				2
Override Capacity					0				0
MOVEMENT		Volume	No. of Lanes	Lane Volume		Volume	No. of Lanes	Lane Volume	
NORTHBOUND	Left	9	1	9		13	1	**13**	
	Left-Through		0				0		
	Through	872	1	**592**		605	1	536	
	Through-Right		1				1		
	Right	312	0	312		466	0	466	
	Left-Through-Right		0				0		
	Left-Right		0				0		
SOUTHBOUND	Left	62	1	**62**		44	1	44	
	Left-Through		0				0		
	Through	649	1	376		1021	1	**654**	
	Through-Right		1				1		
	Right	103	0	103		286	0	286	
	Left-Through-Right		0				0		
	Left-Right		0				0		
EASTBOUND	Left	399	1	**399**		51	1	51	
	Left-Through		0				0		
	Through	135	0	251		12	0	**82**	
	Through-Right		1				1		
	Right	116	0	0		70	0	0	
	Left-Through-Right		0				0		
	Left-Right		0				0		
WESTBOUND	Left	465	1	**256**		393	1	216	
	Left-Through		1				1		
	Through	175	0	200		192	0	**218**	
	Through-Right		1				1		
	Right	25	0	25		26	0	26	
	Left-Through-Right		0				0		
	Left-Right		0				0		
CRITICAL VOLUMES			North-South:	654			North-South:	667	
			East-West:	655			East-West:	300	
			SUM:	1309			SUM:	967	
VOLUME/CAPACITY (V/C) RATIO:				0.919				0.679	
V/C LESS ATSAC/ATCS ADJUSTMENT:				**0.819**				**0.579**	
LEVEL OF SERVICE (LOS):				**D**				**A**	

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Level of Service Worksheet
(Circular 212 Method)

I/S #:	PROJECT TITLE:	<Project Name>		
8	North-South Street:	Roxford Street	East-West Street:	I-5 SB Ramps
	Scenario:	Cumulative plus Project		
	Count Date:	1/0/1900	Analyst: <Fehr & Peers>	Date: <date>

		AM			PM		
No. of Phases				3			3
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?				1			1
Right Turns: FREE-1, NRTOR-2 or OLA-3?		NB-- 0	SB--	0	NB-- 0	SB--	0
		EB-- 0	WB--	0	EB-- 0	WB--	0
ATSAC-1 or ATSAC+ATCS-2?				2			2
Override Capacity				0			0
	MOVEMENT	Volume	No. of Lanes	Lane Volume	Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	0	0	0	0	0	0
	Left-Through		0			0	
	Through	32	1	32	17	1	17
	Through-Right		0			0	
	Right	641	1	**641**	122	1	**122**
	Left-Through-Right		0			0	
	Left-Right		0			0	
SOUTHBOUND	Left	1159	2	**637**	1407	2	**774**
	Left-Through		0			0	
	Through	153	1	153	108	1	108
	Through-Right		0			0	
	Right	0	0	0	0	0	0
	Left-Through-Right		0			0	
	Left-Right		0			0	
EASTBOUND	Left	251	0	**251**	265	0	**265**
	Left-Through		1			1	
	Through	1	0	9	3	0	3
	Through-Right		1			1	
	Right	8	0	0	0	0	0
	Left-Through-Right		0			0	
	Left-Right		0			0	
WESTBOUND	Left	0	0	0	0	0	0
	Left-Through		0			0	
	Through	0	0	**0**	0	0	**0**
	Through-Right		0			0	
	Right	0	0	0	0	0	0
	Left-Through-Right		0			0	
	Left-Right		0			0	
CRITICAL VOLUMES			*North-South:*	1278		*North-South:*	896
			East-West:	251		*East-West:*	265
			SUM:	1529		*SUM:*	1161
VOLUME/CAPACITY *(V/C)* RATIO:				1.073			0.815
V/C LESS ATSAC/ATCS ADJUSTMENT:				**0.973**			**0.715**
LEVEL OF SERVICE (LOS):				**E**			**C**

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Level of Service Worksheet
(Circular 212 Method)

I/S #:	
9	

PROJECT TITLE: <Project Name>
North-South Street: Bledsoe St **East-West Street:** Olive View Dr
Scenario: Cumulative plus Project
Count Date: 1/0/1900 **Analyst:** <Fehr & Peers> **Date:** <date>

		AM			PM		
No. of Phases				4			4
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?				0			0
Right Turns: FREE-1, NRTOR-2 or OLA-3?		NB-- 0	SB--	0	NB-- 0	SB--	0
		EB-- 0	WB--	0	EB-- 0	WB--	0
ATSAC-1 or ATSAC+ATCS-2?				0			0
Override Capacity				0			0

	MOVEMENT	Volume	No. of Lanes	Lane Volume	Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	147	0	147	75	0	**75**
	Left-Through		0			0	
	Through	86	0	**331**	22	0	132
	Through-Right		0			0	
	Right	98	0	0	35	0	0
	Left-Through-Right		1			1	
	Left-Right		0			0	
SOUTHBOUND	Left	7	0	**7**	25	0	25
	Left-Through		0			0	
	Through	39	0	121	55	0	**231**
	Through-Right		0			0	
	Right	75	0	0	151	0	0
	Left-Through-Right		1			1	
	Left-Right		0			0	
EASTBOUND	Left	126	0	**126**	37	0	37
	Left-Through		1			1	
	Through	146	0	165	117	0	**151**
	Through-Right		1			1	
	Right	57	0	165	147	0	151
	Left-Through-Right		0			0	
	Left-Right		0			0	
WESTBOUND	Left	61	0	61	37	0	**37**
	Left-Through		1			1	
	Through	165	0	**125**	165	0	106
	Through-Right		1			1	
	Right	23	0	125	9	0	106
	Left-Through-Right		0			0	
	Left-Right		0			0	
CRITICAL VOLUMES			*North-South:*	338		*North-South:*	306
			East-West:	251		*East-West:*	188
			SUM:	589		*SUM:*	494
VOLUME/CAPACITY *(V/C)* RATIO:				0.428			0.359
V/C LESS ATSAC/ATCS ADJUSTMENT:				0.428			0.359
LEVEL OF SERVICE (LOS):				A			A

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Level of Service Worksheet
(Circular 212 Method)

I/S #:	PROJECT TITLE:	<Project Name>		
10	North-South Street:	Bledsoe St	East-West Street:	Foothill Blvd
	Scenario:	Cumulative plus Project		
	Count Date:	1/0/1900	Analyst: <Fehr & Peers>	Date: <date>

		AM				PM			
No. of Phases					2				2
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?					0				0
Right Turns: FREE-1, NRTOR-2 or OLA-3?		NB-- 0	SB--		0	NB-- 0	SB--		0
		EB-- 0	WB--		0	EB-- 0	WB--		0
ATSAC-1 or ATSAC+ATCS-2?					2				2
Override Capacity					0				0
	MOVEMENT	Volume	No. of Lanes	Lane Volume		Volume	No. of Lanes	Lane Volume	
NORTHBOUND	Left	47	1	47		25	1	25	
	Left-Through		0				0		
	Through	98	1	98		42	1	42	
	Through-Right		0				0		
	Right	229	1	**165**		107	1	**62**	
	Left-Through-Right		0				0		
	Left-Right		0				0		
SOUTHBOUND	Left	115	1	**115**		189	1	**189**	
	Left-Through		0				0		
	Through	100	0	130		51	0	70	
	Through-Right		1				1		
	Right	30	0	0		19	0	0	
	Left-Through-Right		0				0		
	Left-Right		0				0		
EASTBOUND	Left	79	1	**79**		19	1	19	
	Left-Through		0				0		
	Through	339	1	188		326	1	**172**	
	Through-Right		1				1		
	Right	36	0	36		17	0	17	
	Left-Through-Right		0				0		
	Left-Right		0				0		
WESTBOUND	Left	129	1	129		90	1	**90**	
	Left-Through		0				0		
	Through	309	1	**256**		311	1	209	
	Through-Right		1				1		
	Right	203	0	203		106	0	106	
	Left-Through-Right		0				0		
	Left-Right		0				0		
CRITICAL VOLUMES			North-South:	280			North-South:	251	
			East-West:	335			East-West:	262	
			SUM:	615			SUM:	513	
VOLUME/CAPACITY (V/C) RATIO:				0.410				0.342	
V/C LESS ATSAC/ATCS ADJUSTMENT:				**0.310**				**0.242**	
LEVEL OF SERVICE (LOS):				**A**				**A**	

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Level of Service Worksheet
(Circular 212 Method)

I/S #:	PROJECT TITLE:	<Project Name>		
11	North-South Street:	Bledsoe St	East-West Street:	Glenoaks Blvd
	Scenario:	Cumulative plus Project		
	Count Date:	1/0/1900	Analyst: <Fehr & Peers>	Date: <date>

		AM				PM			
No. of Phases					2				2
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?					0				0
Right Turns: FREE-1, NRTOR-2 or OLA-3?		NB-- 0	SB--		0	NB-- 0	SB--		0
		EB-- 0	WB--		0	EB-- 0	WB--		0
ATSAC-1 or ATSAC+ATCS-2?					2				2
Override Capacity					0				0
MOVEMENT		Volume	No. of Lanes	Lane Volume		Volume	No. of Lanes	Lane Volume	
NORTHBOUND	Left	64	0	**64**		43	0	**43**	
	Left-Through		1				1		
	Through	102	0	166		82	0	125	
	Through-Right		0				0		
	Right	155	1	155		116	1	116	
	Left-Through-Right		0				0		
	Left-Right		0				0		
SOUTHBOUND	Left	67	0	67		48	0	48	
	Left-Through		0				0		
	Through	135	0	**230**		71	0	**145**	
	Through-Right		0				0		
	Right	28	0	0		26	0	0	
	Left-Through-Right		1				1		
	Left-Right		0				0		
EASTBOUND	Left	56	0	56		50	0	50	
	Left-Through		1				1		
	Through	682	0	**473**		568	0	**382**	
	Through-Right		1				1		
	Right	151	0	473		96	0	382	
	Left-Through-Right		0				0		
	Left-Right		0				0		
WESTBOUND	Left	123	0	**123**		90	0	**90**	
	Left-Through		1				1		
	Through	476	0	532		367	0	393	
	Through-Right		1				1		
	Right	96	0	532		58	0	393	
	Left-Through-Right		0				0		
	Left-Right		0				0		
CRITICAL VOLUMES			*North-South:*	294			*North-South:*	188	
			East-West:	596			*East-West:*	472	
			SUM:	890			*SUM:*	660	
VOLUME/CAPACITY *(V/C)* RATIO:				0.593				0.440	
V/C LESS ATSAC/ATCS ADJUSTMENT:				**0.493**				**0.340**	
LEVEL OF SERVICE (LOS):				**A**				**A**	

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Level of Service Worksheet
(Circular 212 Method)

I/S #:	PROJECT TITLE:	<Project Name>		
12	North-South Street:	Polk St	East-West Street:	I-210 WB Ramps
	Scenario:	Cumulative plus Project		
	Count Date:	1/0/1900	Analyst: <Fehr & Peers>	Date: <date>

		AM			PM		
	No. of Phases			2			2
	Opposed Ø'ing: N/S-1, E/W-2 or Both-3?			2			2
	Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB-- 0	SB--	0	NB-- 0	SB--	0
		EB-- 0	WB--	0	EB-- 0	WB--	0
	ATSAC-1 or ATSAC+ATCS-2?			2			2
	Override Capacity			0			0
	MOVEMENT	Volume	No. of Lanes	Lane Volume	Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	279	1	**279**	228	1	**228**
	Left-Through		0			0	
	Through	575	2	288	647	2	324
	Through-Right		0			0	
	Right	0	0	0	0	0	0
	Left-Through-Right		0			0	
	Left-Right		0			0	
SOUTHBOUND	Left	0	0	0	0	0	0
	Left-Through		0			0	
	Through	773	1	**551**	577	1	**367**
	Through-Right		1			1	
	Right	328	0	328	156	0	156
	Left-Through-Right		0			0	
	Left-Right		0			0	
EASTBOUND	Left	0	0	0	0	0	0
	Left-Through		0			0	
	Through	0	0	**0**	0	0	**0**
	Through-Right		0			0	
	Right	0	0	0	0	0	0
	Left-Through-Right		0			0	
	Left-Right		0			0	
WESTBOUND	Left	551	0	551	660	0	660
	Left-Through		1			1	
	Through	2	0	**553**	1	0	**661**
	Through-Right		0			0	
	Right	173	1	173	288	1	288
	Left-Through-Right		0			0	
	Left-Right		0			0	
	CRITICAL VOLUMES		*North-South:*	830		*North-South:*	595
			East-West:	553		*East-West:*	661
			SUM:	1383		*SUM:*	1256
	VOLUME/CAPACITY *(V/C)* RATIO:			0.922			0.837
	V/C LESS ATSAC/ATCS ADJUSTMENT:			**0.822**			**0.737**
	LEVEL OF SERVICE (LOS):			**D**			**C**

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Level of Service Worksheet
(Circular 212 Method)

I/S #:	PROJECT TITLE:	<Project Name>		
13	North-South Street:	Polk St	East-West Street:	I-210 EB Ramps
	Scenario:	Cumulative plus Project		
	Count Date:	1/0/1900	Analyst: <Fehr & Peers>	Date: <date>

		AM			PM		
No. of Phases				2			2
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?				2			2
Right Turns: FREE-1, NRTOR-2 or OLA-3?		NB-- 0	SB--	0	NB-- 0	SB--	0
		EB-- 0	WB--	0	EB-- 0	WB--	0
ATSAC-1 or ATSAC+ATCS-2?				2			2
Override Capacity				0			0
MOVEMENT		Volume	No. of Lanes	Lane Volume	Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	0	0	0	0	0	0
	Left-Through		0			0	
	Through	637	1	637	700	1	**650**
	Through-Right		1			1	
	Right	901	0	**901**	599	0	599
	Left-Through-Right		0			0	
	Left-Right		0			0	
SOUTHBOUND	Left	367	1	**367**	221	1	**221**
	Left-Through		0			0	
	Through	995	2	498	1005	2	503
	Through-Right		0			0	
	Right	0	0	0	0	0	0
	Left-Through-Right		0			0	
	Left-Right		0			0	
EASTBOUND	Left	154	0	154	175	0	175
	Left-Through		1			1	
	Through	3	0	157	0	0	175
	Through-Right		0			0	
	Right	309	1	**309**	299	1	**299**
	Left-Through-Right		0			0	
	Left-Right		0			0	
WESTBOUND	Left	0	0	0	0	0	0
	Left-Through		0			0	
	Through	0	0	**0**	0	0	**0**
	Through-Right		0			0	
	Right	0	0	0	0	0	0
	Left-Through-Right		0			0	
	Left-Right		0			0	
CRITICAL VOLUMES			North-South:	1268		North-South:	871
			East-West:	309		East-West:	299
			SUM:	1577		SUM:	1170
VOLUME/CAPACITY (V/C) RATIO:				1.051			0.780
V/C LESS ATSAC/ATCS ADJUSTMENT:				**0.951**			**0.680**
LEVEL OF SERVICE (LOS):				**E**			**B**

Version: 1i Beta; 8/4/2011

Level of Service Worksheet
(Circular 212 Method)

I/S #:	PROJECT TITLE:	<Project Name>		
14	North-South Street:	Polk St	East-West Street:	Foothill Blvd
	Scenario:	Cumulative plus Project		
	Count Date:	1/0/1900	Analyst: <Fehr & Peers>	Date: <date>

		AM				PM			
No. of Phases					4				4
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?					0				0
Right Turns: FREE-1, NRTOR-2 or OLA-3?		NB-- 0	SB--		0	NB-- 0	SB--		0
		EB-- 0	WB--		3	EB-- 0	WB--		3
ATSAC-1 or ATSAC+ATCS-2?					2				2
Override Capacity					0				0
MOVEMENT		Volume	No. of Lanes	Lane Volume		Volume	No. of Lanes	Lane Volume	
NORTHBOUND	Left	67	1	67		72	1	72	
	Left-Through		0				0		
	Through	660	1	**432**		590	1	**415**	
	Through-Right		1				1		
	Right	203	0	203		239	0	239	
	Left-Through-Right		0				0		
	Left-Right		0				0		
SOUTHBOUND	Left	326	1	**326**		399	1	**399**	
	Left-Through		0				0		
	Through	635	1	488		584	1	449	
	Through-Right		1				1		
	Right	340	0	340		314	0	314	
	Left-Through-Right		0				0		
	Left-Right		0				0		
EASTBOUND	Left	468	1	**468**		291	1	**291**	
	Left-Through		0				0		
	Through	572	1	331		414	1	238	
	Through-Right		1				1		
	Right	89	0	89		61	0	61	
	Left-Through-Right		0				0		
	Left-Right		0				0		
WESTBOUND	Left	164	1	164		178	1	178	
	Left-Through		0				0		
	Through	347	2	**174**		414	2	**207**	
	Through-Right		0				0		
	Right	399	1	73		392	1	0	
	Left-Through-Right		0				0		
	Left-Right		0				0		
CRITICAL VOLUMES			*North-South:*	758			*North-South:*	814	
			East-West:	642			*East-West:*	498	
			SUM:	1400			*SUM:*	1312	
VOLUME/CAPACITY *(V/C)* RATIO:				1.018				0.954	
V/C LESS ATSAC/ATCS ADJUSTMENT:				**0.918**				**0.854**	
LEVEL OF SERVICE (LOS):				**E**				**D**	

Version: 1i Beta; 8/4/2011

Level of Service Worksheet
(Circular 212 Method)

I/S #:	PROJECT TITLE:	<Project Name>		
1	North-South Street:	Glenoaks Blvd	East-West Street:	Foothill Blvd
	Scenario:	Cumulative		
	Count Date:	1/0/1900	Analyst: <Fehr & Peers>	Date: <date>

		AM			PM		
No. of Phases				2			2
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?				0			0
Right Turns: FREE-1, NRTOR-2 or OLA-3?		NB-- 0	SB--	0	NB-- 0	SB--	0
		EB-- 0	WB--	0	EB-- 0	WB--	0
ATSAC-1 or ATSAC+ATCS-2?				2			2
Override Capacity				0			0
MOVEMENT		Volume	No. of Lanes	Lane Volume	Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	111	1	**111**	143	1	**143**
	Left-Through		0			0	
	Through	13	1	13	29	1	24
	Through-Right		1			1	
	Right	12	0	12	18	0	18
	Left-Through-Right		0			0	
	Left-Right		0			0	
SOUTHBOUND	Left	38	1	38	28	1	28
	Left-Through		0			0	
	Through	53	1	53	13	1	13
	Through-Right		1			1	
	Right	112	0	**106**	44	0	**15**
	Left-Through-Right		0			0	
	Left-Right		0			0	
EASTBOUND	Left	13	1	13	58	1	**58**
	Left-Through		0			0	
	Through	347	1	**347**	235	1	235
	Through-Right		0			0	
	Right	180	1	125	146	1	75
	Left-Through-Right		0			0	
	Left-Right		0			0	
WESTBOUND	Left	10	1	**10**	18	1	18
	Left-Through		0			0	
	Through	172	0	184	196	0	**229**
	Through-Right		1			1	
	Right	12	0	0	33	0	0
	Left-Through-Right		0			0	
	Left-Right		0			0	
CRITICAL VOLUMES			North-South:	217		North-South:	158
			East-West:	357		East-West:	287
			SUM:	574		SUM:	445
VOLUME/CAPACITY (V/C) RATIO:				0.383			0.297
V/C LESS ATSAC/ATCS ADJUSTMENT:				**0.283**			**0.197**
LEVEL OF SERVICE (LOS):				**A**			**A**

Version: 1i Beta; 8/4/2011

Level of Service Worksheet
(Circular 212 Method)

I/S #:	PROJECT TITLE:	<Project Name>		
2	North-South Street:	Roxford Street	East-West Street:	I-210 WB Ramps
	Scenario:	Cumulative		
	Count Date:	1/0/1900	Analyst: <Fehr & Peers>	Date: <date>

		AM			PM		
	No. of Phases			2			2
	Opposed Ø'ing: N/S-1, E/W-2 or Both-3?			2			2
	Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB-- 0	SB--	0	NB-- 0	SB--	0
		EB-- 0	WB--	0	EB-- 0	WB--	0
	ATSAC-1 or ATSAC+ATCS-2?			2			2
	Override Capacity			0			0
	MOVEMENT	Volume	No. of Lanes	Lane Volume	Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	377	1	**377**	219	1	**219**
	Left-Through		0			0	
	Through	667	2	334	214	2	107
	Through-Right		0			0	
	Right	0	0	0	0	0	0
	Left-Through-Right		0			0	
	Left-Right		0			0	
SOUTHBOUND	Left	0	0	0	0	0	0
	Left-Through		0			0	
	Through	187	1	187	286	1	286
	Through-Right		1			1	
	Right	324	0	**324**	550	0	**550**
	Left-Through-Right		0			0	
	Left-Right		0			0	
EASTBOUND	Left	0	0	0	0	0	0
	Left-Through		0			0	
	Through	0	0	**0**	0	0	**0**
	Through-Right		0			0	
	Right	0	0	0	0	0	0
	Left-Through-Right		0			0	
	Left-Right		0			0	
WESTBOUND	Left	476	1	**343**	277	1	**189**
	Left-Through		0			0	
	Through	3	0	343	2	0	189
	Through-Right		0			0	
	Right	206	0	0	99	0	0
	Left-Through-Right		1			1	
	Left-Right		0			0	
	CRITICAL VOLUMES		*North-South:*	701		*North-South:*	769
			East-West:	343		*East-West:*	189
			SUM:	1044		*SUM:*	958
	VOLUME/CAPACITY *(V/C)* RATIO:			0.696			0.639
	V/C LESS ATSAC/ATCS ADJUSTMENT:			**0.596**			**0.539**
	LEVEL OF SERVICE (LOS):			**A**			**A**

Version: 1i Beta; 8/4/2011

Level of Service Worksheet
(Circular 212 Method)

I/S #:	PROJECT TITLE:	<Project Name>		
3	North-South Street:	Roxford Street	East-West Street:	I-210 EB Ramps
	Scenario:	Cumulative		
	Count Date:	1/0/1900	Analyst: <Fehr & Peers>	Date: <date>

		AM			PM		
No. of Phases				3			3
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?				0			0
Right Turns: FREE-1, NRTOR-2 or OLA-3?		NB-- 0	SB--	0	NB-- 0	SB--	0
		EB-- 0	WB--	0	EB-- 0	WB--	0
ATSAC-1 or ATSAC+ATCS-2?				2			2
Override Capacity				0			0

	MOVEMENT	Volume	No. of Lanes	Lane Volume	Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	0	0	0	0	0	0
	Left-Through		0			0	
	Through	697	1	**503**	324	1	**324**
	Through-Right		1			1	
	Right	309	0	309	324	0	324
	Left-Through-Right		0			0	
	Left-Right		0			0	
SOUTHBOUND	Left	104	1	**104**	164	1	**164**
	Left-Through		0			0	
	Through	556	2	278	385	2	193
	Through-Right		0			0	
	Right	0	0	0	0	0	0
	Left-Through-Right		0			0	
	Left-Right		0			0	
EASTBOUND	Left	341	0	341	126	0	126
	Left-Through		1			1	
	Through	0	0	341	2	0	128
	Through-Right		0			0	
	Right	400	1	**400**	252	1	**252**
	Left-Through-Right		0			0	
	Left-Right		0			0	
WESTBOUND	Left	0	0	**0**	0	0	**0**
	Left-Through		0			0	
	Through	0	0	0	0	0	0
	Through-Right		0			0	
	Right	0	0	0	0	0	0
	Left-Through-Right		0			0	
	Left-Right		0			0	
CRITICAL VOLUMES			*North-South:*	607		*North-South:*	488
			East-West:	400		*East-West:*	252
			SUM:	1007		*SUM:*	740
VOLUME/CAPACITY *(V/C)* RATIO:				0.707			0.519
V/C LESS ATSAC/ATCS ADJUSTMENT:				**0.607**			**0.419**
LEVEL OF SERVICE (LOS):				**B**			**A**

Version: 1i Beta; 8/4/2011

Level of Service Worksheet
(Circular 212 Method)

I/S #:	PROJECT TITLE:	<Project Name>		
4	North-South Street:	Roxford Street	East-West Street:	Foothill Blvd
	Scenario:	Cumulative		
	Count Date:	1/0/1900	Analyst: <Fehr & Peers>	Date: <date>

		AM			PM		
No. of Phases				4			4
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?				0			0
Right Turns: FREE-1, NRTOR-2 or OLA-3?		NB-- 0	SB--	3	NB-- 0	SB--	3
		EB-- 3	WB--	3	EB-- 3	WB--	3
ATSAC-1 or ATSAC+ATCS-2?				2			2
Override Capacity				0			0

	MOVEMENT	Volume	No. of Lanes	Lane Volume	Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	13	1	**13**	16	1	16
	Left-Through		0			0	
	Through	476	1	476	479	1	**479**
	Through-Right		0			0	
	Right	71	1	9	88	1	56
	Left-Through-Right		0			0	
	Left-Right		0			0	
SOUTHBOUND	Left	122	1	122	116	1	**116**
	Left-Through		0			0	
	Through	767	1	**767**	401	1	401
	Through-Right		0			0	
	Right	75	1	0	122	1	42
	Left-Through-Right		0			0	
	Left-Right		0			0	
EASTBOUND	Left	269	1	**269**	80	1	80
	Left-Through		0			0	
	Through	186	1	186	176	1	**176**
	Through-Right		0			0	
	Right	39	1	26	19	1	3
	Left-Through-Right		0			0	
	Left-Right		0			0	
WESTBOUND	Left	124	1	124	65	1	**65**
	Left-Through		0			0	
	Through	116	1	**116**	158	1	158
	Through-Right		0			0	
	Right	238	1	116	91	1	0
	Left-Through-Right		0			0	
	Left-Right		0			0	
CRITICAL VOLUMES			*North-South:*	780		*North-South:*	595
			East-West:	385		*East-West:*	241
			SUM:	1165		*SUM:*	836
VOLUME/CAPACITY *(V/C)* RATIO:				0.847			0.608
V/C LESS ATSAC/ATCS ADJUSTMENT:				**0.747**			**0.508**
LEVEL OF SERVICE (LOS):				**C**			**A**

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Level of Service Worksheet
(Circular 212 Method)

I/S #:	PROJECT TITLE:	<Project Name>		
5	North-South Street:	Roxford Street	East-West Street:	Glenoaks Blvd
	Scenario:	Cumulative		
	Count Date:	1/0/1900	Analyst: <Fehr & Peers>	Date: <date>

		AM				PM			
No. of Phases					2				2
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?					0				0
Right Turns: FREE-1, NRTOR-2 or OLA-3?		NB-- 0	SB--		0	NB-- 0	SB--		0
		EB-- 0	WB--		0	EB-- 0	WB--		0
ATSAC-1 or ATSAC+ATCS-2?					2				2
Override Capacity					0				0
	MOVEMENT	Volume	No. of Lanes	Lane Volume		Volume	No. of Lanes	Lane Volume	
NORTHBOUND	Left	37	1	37		97	1	97	
	Left-Through		0				0		
	Through	301	1	**301**		406	1	**406**	
	Through-Right		0				0		
	Right	245	1	138		203	1	143	
	Left-Through-Right		0				0		
	Left-Right		0				0		
SOUTHBOUND	Left	404	1	**404**		156	1	**156**	
	Left-Through		0				0		
	Through	523	1	523		272	1	272	
	Through-Right		0				0		
	Right	18	1	4		19	1	5	
	Left-Through-Right		0				0		
	Left-Right		0				0		
EASTBOUND	Left	29	1	29		29	1	29	
	Left-Through		0				0		
	Through	254	1	**176**		124	1	**84**	
	Through-Right		1				1		
	Right	97	0	97		44	0	44	
	Left-Through-Right		0				0		
	Left-Right		0				0		
WESTBOUND	Left	214	1	**214**		120	1	**120**	
	Left-Through		0				0		
	Through	136	1	136		217	1	175	
	Through-Right		1				1		
	Right	168	0	0		133	0	133	
	Left-Through-Right		0				0		
	Left-Right		0				0		
CRITICAL VOLUMES			North-South:	705			North-South:	562	
			East-West:	390			East-West:	204	
			SUM:	1095			SUM:	766	
VOLUME/CAPACITY (V/C) RATIO:				0.730				0.511	
V/C LESS ATSAC/ATCS ADJUSTMENT:				**0.630**				**0.411**	
LEVEL OF SERVICE (LOS):				**B**				**A**	

Version: 1i Beta; 8/4/2011

Level of Service Worksheet
(Circular 212 Method)

I/S #:	PROJECT TITLE:	<Project Name>		
6	North-South Street:	Roxford Street	East-West Street:	San Fernando Road
	Scenario:	Cumulative		
	Count Date:	1/0/1900	Analyst: <Fehr & Peers>	Date: <date>

		AM			PM		
No. of Phases				4			4
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?				0			0
Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB-- 0	SB--	2	NB-- 0	SB--	2
	EB-- 0	WB--	0	EB-- 0	WB--	0
ATSAC-1 or ATSAC+ATCS-2?			2			2
Override Capacity			0			0

	MOVEMENT	Volume	No. of Lanes	Lane Volume	Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	149	1	**149**	76	1	76
	Left-Through		0			0	
	Through	574	1	342	485	1	**310**
	Through-Right		1			1	
	Right	109	0	109	135	0	135
	Left-Through-Right		0			0	
	Left-Right		0			0	
SOUTHBOUND	Left	133	1	133	113	1	**113**
	Left-Through		0			0	
	Through	631	1	**446**	504	1	305
	Through-Right		1			1	
	Right	261	0	261	106	0	106
	Left-Through-Right		0			0	
	Left-Right		0			0	
EASTBOUND	Left	101	1	101	186	1	186
	Left-Through		0			0	
	Through	308	1	**188**	233	1	**204**
	Through-Right		1			1	
	Right	68	0	68	175	0	175
	Left-Through-Right		0			0	
	Left-Right		0			0	
WESTBOUND	Left	163	1	**163**	180	1	**180**
	Left-Through		0			0	
	Through	213	1	151	277	1	188
	Through-Right		1			1	
	Right	89	0	89	98	0	98
	Left-Through-Right		0			0	
	Left-Right		0			0	
CRITICAL VOLUMES			*North-South:*	595		*North-South:*	423
			East-West:	351		*East-West:*	384
			SUM:	946		*SUM:*	807
VOLUME/CAPACITY *(V/C)* RATIO:				0.688			0.587
V/C LESS ATSAC/ATCS ADJUSTMENT:				**0.588**			**0.487**
LEVEL OF SERVICE (LOS):				**A**			**A**

Version: 1i Beta; 8/4/2011

Level of Service Worksheet
(Circular 212 Method)

I/S #:	PROJECT TITLE:	<Project Name>		
7	North-South Street:	Roxford Street	East-West Street:	Encinitas Ave/I-5 NB Ramps
	Scenario:	Cumulative		
	Count Date:	1/0/1900	Analyst: <Fehr & Peers>	Date: <date>

		AM				PM			
No. of Phases					3				3
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?					2				2
Right Turns: FREE-1, NRTOR-2 or OLA-3?		NB-- 0	SB--	0		NB-- 0	SB--	0	
		EB-- 0	WB--	0		EB-- 0	WB--	0	
ATSAC-1 or ATSAC+ATCS-2?					2				2
Override Capacity					0				0
	MOVEMENT	Volume	No. of Lanes	Lane Volume		Volume	No. of Lanes	Lane Volume	
NORTHBOUND	Left	9	1	9		13	1	**13**	
	Left-Through		0				0		
	Through	843	1	**578**		595	1	531	
	Through-Right		1				1		
	Right	312	0	312		466	0	466	
	Left-Through-Right		0				0		
	Left-Right		0				0		
SOUTHBOUND	Left	62	1	**62**		44	1	44	
	Left-Through		0				0		
	Through	638	1	371		991	1	**639**	
	Through-Right		1				1		
	Right	103	0	103		286	0	286	
	Left-Through-Right		0				0		
	Left-Right		0				0		
EASTBOUND	Left	399	1	**399**		51	1	51	
	Left-Through		0				0		
	Through	135	0	251		12	0	**82**	
	Through-Right		1				1		
	Right	116	0	0		70	0	0	
	Left-Through-Right		0				0		
	Left-Right		0				0		
WESTBOUND	Left	465	1	**256**		393	1	216	
	Left-Through		1				1		
	Through	175	0	200		192	0	**218**	
	Through-Right		1				1		
	Right	25	0	25		26	0	26	
	Left-Through-Right		0				0		
	Left-Right		0				0		
CRITICAL VOLUMES			North-South:	640			North-South:	652	
			East-West:	655			East-West:	300	
			SUM:	1295			SUM:	952	
VOLUME/CAPACITY (V/C) RATIO:				0.909				0.668	
V/C LESS ATSAC/ATCS ADJUSTMENT:				**0.809**				**0.568**	
LEVEL OF SERVICE (LOS):				**D**				**A**	

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Level of Service Worksheet
(Circular 212 Method)

I/S #:	PROJECT TITLE:	<Project Name>		
8	North-South Street:	Roxford Street	East-West Street:	I-5 SB Ramps
	Scenario:	Cumulative		
	Count Date:	1/0/1900	Analyst: <Fehr & Peers>	Date: <date>

		AM			PM		
No. of Phases				3			3
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?				1			1
Right Turns: FREE-1, NRTOR-2 or OLA-3?		NB-- 0	SB--	0	NB-- 0	SB--	0
		EB-- 0	WB--	0	EB-- 0	WB--	0
ATSAC-1 or ATSAC+ATCS-2?				2			2
Override Capacity				0			0
MOVEMENT		Volume	No. of Lanes	Lane Volume	Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	0	0	0	0	0	0
	Left-Through		0			0	
	Through	32	1	32	17	1	17
	Through-Right		0			0	
	Right	641	1	**641**	122	1	**122**
	Left-Through-Right		0			0	
	Left-Right		0			0	
SOUTHBOUND	Left	1148	2	**631**	1377	2	**757**
	Left-Through		0			0	
	Through	153	1	153	108	1	108
	Through-Right		0			0	
	Right	0	0	0	0	0	0
	Left-Through-Right		0			0	
	Left-Right		0			0	
EASTBOUND	Left	251	0	**251**	265	0	**265**
	Left-Through		1			1	
	Through	1	0	9	3	0	3
	Through-Right		1			1	
	Right	8	0	0	0	0	0
	Left-Through-Right		0			0	
	Left-Right		0			0	
WESTBOUND	Left	0	0	0	0	0	0
	Left-Through		0			0	
	Through	0	0	**0**	0	0	**0**
	Through-Right		0			0	
	Right	0	0	0	0	0	0
	Left-Through-Right		0			0	
	Left-Right		0			0	
CRITICAL VOLUMES			*North-South:*	1272		*North-South:*	879
			East-West:	251		*East-West:*	265
			SUM:	1523		*SUM:*	1144
VOLUME/CAPACITY *(V/C)* RATIO:				1.069			0.803
V/C LESS ATSAC/ATCS ADJUSTMENT:				**0.969**			**0.703**
LEVEL OF SERVICE (LOS):				**E**			**C**

Version: 1i Beta; 8/4/2011

Level of Service Worksheet
(Circular 212 Method)

I/S #:	PROJECT TITLE:	<Project Name>		
9	North-South Street:	Bledsoe St	East-West Street:	Olive View Dr
	Scenario:	Cumulative		
	Count Date:	1/0/1900	Analyst: <Fehr & Peers>	Date: <date>

		AM				PM			
No. of Phases					4				4
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?					0				0
Right Turns: FREE-1, NRTOR-2 or OLA-3?		NB-- 0	SB--		0	NB-- 0	SB--		0
		EB-- 0	WB--		0	EB-- 0	WB--		0
ATSAC-1 or ATSAC+ATCS-2?					0				0
Override Capacity					0				0
MOVEMENT		Volume	No. of Lanes	Lane Volume		Volume	No. of Lanes	Lane Volume	
NORTHBOUND	Left	125	0	125		68	0	**68**	
	Left-Through		0				0		
	Through	77	0	**296**		19	0	121	
	Through-Right		0				0		
	Right	94	0	0		34	0	0	
	Left-Through-Right		1				1		
	Left-Right		0				0		
SOUTHBOUND	Left	6	0	**6**		22	0	22	
	Left-Through		0				0		
	Through	36	0	94		46	0	**153**	
	Through-Right		0				0		
	Right	52	0	0		85	0	0	
	Left-Through-Right		1				1		
	Left-Right		0				0		
EASTBOUND	Left	63	0	**63**		15	0	15	
	Left-Through		1				1		
	Through	115	0	114		99	0	114	
	Through-Right		1				1		
	Right	50	0	114		125	0	**125**	
	Left-Through-Right		0				0		
	Left-Right		0				0		
WESTBOUND	Left	60	0	60		33	0	**33**	
	Left-Through		1				1		
	Through	147	0	**114**		132	0	87	
	Through-Right		1				1		
	Right	20	0	114		8	0	87	
	Left-Through-Right		0				0		
	Left-Right		0				0		
CRITICAL VOLUMES			North-South:	302			North-South:	221	
			East-West:	177			East-West:	158	
			SUM:	479			SUM:	379	
VOLUME/CAPACITY (V/C) RATIO:				0.348				0.276	
V/C LESS ATSAC/ATCS ADJUSTMENT:				0.348				0.276	
LEVEL OF SERVICE (LOS):				A				A	

Version: 1i Beta; 8/4/2011

Level of Service Worksheet
(Circular 212 Method)

I/S #:	PROJECT TITLE:	<Project Name>		
10	North-South Street:	Bledsoe St	East-West Street:	Foothill Blvd
	Scenario:	Cumulative		
	Count Date:	1/0/1900	Analyst: <Fehr & Peers>	Date: <date>

		AM				PM			
No. of Phases					2				2
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?					0				0
Right Turns: FREE-1, NRTOR-2 or OLA-3?		NB-- 0	SB--		0	NB-- 0	SB--		0
		EB-- 0	WB--		0	EB-- 0	WB--		0
ATSAC-1 or ATSAC+ATCS-2?					2				2
Override Capacity					0				0
MOVEMENT		Volume	No. of Lanes	Lane Volume		Volume	No. of Lanes	Lane Volume	
NORTHBOUND	Left	47	1	47		25	1	25	
	Left-Through		0				0		
	Through	95	1	95		41	1	41	
	Through-Right		0				0		
	Right	229	1	**165**		107	1	**62**	
	Left-Through-Right		0				0		
	Left-Right		0				0		
SOUTHBOUND	Left	104	1	**104**		156	1	**156**	
	Left-Through		0				0		
	Through	99	0	129		48	0	67	
	Through-Right		1				1		
	Right	30	0	0		19	0	0	
	Left-Through-Right		0				0		
	Left-Right		0				0		
EASTBOUND	Left	79	1	**79**		19	1	19	
	Left-Through		0				0		
	Through	339	1	188		326	1	**172**	
	Through-Right		1				1		
	Right	36	0	36		17	0	17	
	Left-Through-Right		0				0		
	Left-Right		0				0		
WESTBOUND	Left	129	1	129		90	1	**90**	
	Left-Through		0				0		
	Through	309	1	**240**		311	1	203	
	Through-Right		1				1		
	Right	171	0	171		95	0	95	
	Left-Through-Right		0				0		
	Left-Right		0				0		
CRITICAL VOLUMES			*North-South:*	269			*North-South:*	218	
			East-West:	319			*East-West:*	262	
			SUM:	588			*SUM:*	480	
VOLUME/CAPACITY *(V/C)* RATIO:				0.392				0.320	
V/C LESS ATSAC/ATCS ADJUSTMENT:				**0.292**				**0.220**	
LEVEL OF SERVICE (LOS):				**A**				**A**	

Version: 1i Beta; 8/4/2011

Level of Service Worksheet
(Circular 212 Method)

I/S #:	PROJECT TITLE:	<Project Name>		
11	North-South Street:	Bledsoe St	East-West Street:	Glenoaks Blvd
	Scenario:	Cumulative		
	Count Date:	1/0/1900	Analyst: <Fehr & Peers>	Date: <date>

		AM			PM		
	No. of Phases			2			2
	Opposed Ø'ing: N/S-1, E/W-2 or Both-3?			0			0
	Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB-- 0	SB--	0	NB-- 0	SB--	0
		EB-- 0	WB--	0	EB-- 0	WB--	0
	ATSAC-1 or ATSAC+ATCS-2?			2			2
	Override Capacity			0			0
	MOVEMENT	Volume	No. of Lanes	Lane Volume	Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	64	0	**64**	43	0	**43**
	Left-Through		1			1	
	Through	102	0	166	82	0	125
	Through-Right		0			0	
	Right	155	1	155	116	1	116
	Left-Through-Right		0			0	
	Left-Right		0			0	
SOUTHBOUND	Left	66	0	66	45	0	45
	Left-Through		0			0	
	Through	135	0	**229**	71	0	**142**
	Through-Right		0			0	
	Right	28	0	0	26	0	0
	Left-Through-Right		1			1	
	Left-Right		0			0	
EASTBOUND	Left	56	0	56	50	0	50
	Left-Through		1			1	
	Through	680	0	**472**	562	0	**379**
	Through-Right		1			1	
	Right	151	0	472	96	0	379
	Left-Through-Right		0			0	
	Left-Right		0			0	
WESTBOUND	Left	123	0	**123**	90	0	**90**
	Left-Through		1			1	
	Through	470	0	528	365	0	391
	Through-Right		1			1	
	Right	93	0	528	57	0	391
	Left-Through-Right		0			0	
	Left-Right		0			0	
	CRITICAL VOLUMES		*North-South:*	293		*North-South:*	185
			East-West:	595		*East-West:*	469
			SUM:	888		*SUM:*	654
	VOLUME/CAPACITY *(V/C)* RATIO:			0.592			0.436
	V/C LESS ATSAC/ATCS ADJUSTMENT:			**0.492**			**0.336**
	LEVEL OF SERVICE (LOS):			**A**			**A**

Version: 1i Beta; 8/4/2011

Level of Service Worksheet
(Circular 212 Method)

I/S #:	PROJECT TITLE:	<Project Name>		
12	North-South Street:	Polk St	East-West Street:	I-210 WB Ramps
	Scenario:	Cumulative		
	Count Date:	1/0/1900	Analyst: <Fehr & Peers>	Date: <date>

		AM			PM		
	No. of Phases			2			2
	Opposed Ø'ing: N/S-1, E/W-2 or Both-3?			2			2
	Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB-- 0	SB--	0	NB-- 0	SB--	0
		EB-- 0	WB--	0	EB-- 0	WB--	0
	ATSAC-1 or ATSAC+ATCS-2?			2			2
	Override Capacity			0			0
	MOVEMENT	Volume	No. of Lanes	Lane Volume	Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	279	1	**279**	228	1	**228**
	Left-Through		0			0	
	Through	574	2	287	644	2	322
	Through-Right		0			0	
	Right	0	0	0	0	0	0
	Left-Through-Right		0			0	
	Left-Right		0			0	
SOUTHBOUND	Left	0	0	0	0	0	0
	Left-Through		0			0	
	Through	767	1	**548**	567	1	**362**
	Through-Right		1			1	
	Right	328	0	328	156	0	156
	Left-Through-Right		0			0	
	Left-Right		0			0	
EASTBOUND	Left	0	0	0	0	0	0
	Left-Through		0			0	
	Through	0	0	**0**	0	0	**0**
	Through-Right		0			0	
	Right	0	0	0	0	0	0
	Left-Through-Right		0			0	
	Left-Right		0			0	
WESTBOUND	Left	531	0	531	653	0	653
	Left-Through		1			1	
	Through	2	0	**533**	1	0	**654**
	Through-Right		0			0	
	Right	164	1	164	285	1	285
	Left-Through-Right		0			0	
	Left-Right		0			0	
	CRITICAL VOLUMES		*North-South:*	827		*North-South:*	590
			East-West:	533		*East-West:*	654
			SUM:	1360		*SUM:*	1244
	VOLUME/CAPACITY *(V/C)* RATIO:			0.907			0.829
	V/C LESS ATSAC/ATCS ADJUSTMENT:			**0.807**			**0.729**
	LEVEL OF SERVICE (LOS):			**D**			**C**

Version: 1i Beta; 8/4/2011

Level of Service Worksheet
(Circular 212 Method)

I/S #:	PROJECT TITLE:	<Project Name>		
13	North-South Street:	Polk St	East-West Street:	I-210 EB Ramps
	Scenario:	Cumulative		
	Count Date:	1/0/1900	Analyst: <Fehr & Peers>	Date: <date>

		AM			PM		
	No. of Phases			2			2
	Opposed Ø'ing: N/S-1, E/W-2 or Both-3?			2			2
	Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB-- 0	SB--	0	NB-- 0	SB--	0
		EB-- 0	WB--	0	EB-- 0	WB--	0
	ATSAC-1 or ATSAC+ATCS-2?			2			2
	Override Capacity			0			0
	MOVEMENT	Volume	No. of Lanes	Lane Volume	Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	0	0	0	0	0	0
	Left-Through		0			0	
	Through	636	1	636	697	1	**638**
	Through-Right		1			1	
	Right	894	0	**894**	578	0	578
	Left-Through-Right		0			0	
	Left-Right		0			0	
SOUTHBOUND	Left	364	1	**364**	212	1	**212**
	Left-Through		0			0	
	Through	972	2	486	997	2	499
	Through-Right		0			0	
	Right	0	0	0	0	0	0
	Left-Through-Right		0			0	
	Left-Right		0			0	
EASTBOUND	Left	154	0	154	175	0	175
	Left-Through		1			1	
	Through	3	0	157	0	0	175
	Through-Right		0			0	
	Right	309	1	**309**	299	1	**299**
	Left-Through-Right		0			0	
	Left-Right		0			0	
WESTBOUND	Left	0	0	0	0	0	0
	Left-Through		0			0	
	Through	0	0	**0**	0	0	**0**
	Through-Right		0			0	
	Right	0	0	0	0	0	0
	Left-Through-Right		0			0	
	Left-Right		0			0	
	CRITICAL VOLUMES		North-South:	1258		North-South:	850
			East-West:	309		East-West:	299
			SUM:	1567		SUM:	1149
	VOLUME/CAPACITY (V/C) RATIO:			1.045			0.766
	V/C LESS ATSAC/ATCS ADJUSTMENT:			**0.945**			**0.666**
	LEVEL OF SERVICE (LOS):			**E**			**B**

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Level of Service Worksheet
(Circular 212 Method)

I/S #:	PROJECT TITLE:	<Project Name>		
14	North-South Street:	Polk St	East-West Street:	Foothill Blvd
	Scenario:	Cumulative		
	Count Date:	1/0/1900	Analyst: <Fehr & Peers>	Date: <date>

		AM				PM			
No. of Phases					4				4
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?					0				0
Right Turns: FREE-1, NRTOR-2 or OLA-3?		NB-- 0	SB--		0	NB-- 0	SB--		0
		EB-- 0	WB--		3	EB-- 0	WB--		3
ATSAC-1 or ATSAC+ATCS-2?					2				2
Override Capacity					0				0
	MOVEMENT	Volume	No. of Lanes	Lane Volume		Volume	No. of Lanes	Lane Volume	
NORTHBOUND	Left	67	1	67		72	1	72	
	Left-Through		0				0		
	Through	660	1	**432**		590	1	**415**	
	Through-Right		1				1		
	Right	203	0	203		239	0	239	
	Left-Through-Right		0				0		
	Left-Right		0				0		
SOUTHBOUND	Left	326	1	**326**		399	1	**399**	
	Left-Through		0				0		
	Through	635	1	476		584	1	445	
	Through-Right		1				1		
	Right	317	0	317		306	0	306	
	Left-Through-Right		0				0		
	Left-Right		0				0		
EASTBOUND	Left	460	1	**460**		267	1	**267**	
	Left-Through		0				0		
	Through	569	1	329		405	1	233	
	Through-Right		1				1		
	Right	89	0	89		61	0	61	
	Left-Through-Right		0				0		
	Left-Right		0				0		
WESTBOUND	Left	164	1	164		178	1	178	
	Left-Through		0				0		
	Through	338	2	**169**		411	2	**206**	
	Through-Right		0				0		
	Right	399	1	73		392	1	0	
	Left-Through-Right		0				0		
	Left-Right		0				0		
CRITICAL VOLUMES			*North-South:*	758			*North-South:*	814	
			East-West:	629			*East-West:*	473	
			SUM:	1387			*SUM:*	1287	
VOLUME/CAPACITY *(V/C)* RATIO:				1.009				0.936	
V/C LESS ATSAC/ATCS ADJUSTMENT:				**0.909**				**0.836**	
LEVEL OF SERVICE (LOS):				**E**				**D**	

Version: 1i Beta; 8/4/2011

Level of Service Worksheet
(Circular 212 Method)

I/S #:	PROJECT TITLE:	<Project Name>		
1	North-South Street:	Glenoaks Blvd	East-West Street:	Foothill Blvd
	Scenario:	Existing plus Project		
	Count Date:	1/0/1900	Analyst: <Fehr & Peers>	Date: <date>

		AM			PM		
No. of Phases				2			2
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?				0			0
Right Turns: FREE-1, NRTOR-2 or OLA-3?		NB-- 0	SB--	0	NB-- 0	SB--	0
		EB-- 0	WB--	0	EB-- 0	WB--	0
ATSAC-1 or ATSAC+ATCS-2?				2			2
Override Capacity				0			0
	MOVEMENT	Volume	No. of Lanes	Lane Volume	Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	103	1	**103**	133	1	**133**
	Left-Through		0			0	
	Through	12	1	12	27	1	22
	Through-Right		1			1	
	Right	11	0	11	17	0	17
	Left-Through-Right		0			0	
	Left-Right		0			0	
SOUTHBOUND	Left	35	1	35	26	1	26
	Left-Through		0			0	
	Through	49	1	49	12	1	12
	Through-Right		1			1	
	Right	104	0	**98**	41	0	**14**
	Left-Through-Right		0			0	
	Left-Right		0			0	
EASTBOUND	Left	12	1	12	54	1	**54**
	Left-Through		0			0	
	Through	339	1	**339**	218	1	218
	Through-Right		0			0	
	Right	167	1	116	136	1	70
	Left-Through-Right		0			0	
	Left-Right		0			0	
WESTBOUND	Left	9	1	**9**	17	1	17
	Left-Through		0			0	
	Through	159	0	170	204	0	**235**
	Through-Right		1			1	
	Right	11	0	0	31	0	0
	Left-Through-Right		0			0	
	Left-Right		0			0	
CRITICAL VOLUMES			North-South:	201		North-South:	147
			East-West:	348		East-West:	289
			SUM:	549		SUM:	436
VOLUME/CAPACITY (V/C) RATIO:				0.366			0.291
V/C LESS ATSAC/ATCS ADJUSTMENT:				**0.266**			**0.191**
LEVEL OF SERVICE (LOS):				**A**			**A**

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Level of Service Worksheet
(Circular 212 Method)

I/S #:	PROJECT TITLE:	<Project Name>		
2	North-South Street:	Roxford Street	East-West Street:	I-210 WB Ramps
	Scenario:	Existing plus Project		
	Count Date:	1/0/1900	Analyst: <Fehr & Peers>	Date: <date>

		AM				PM			
	No. of Phases				2				2
	Opposed Ø'ing: N/S-1, E/W-2 or Both-3?				2				2
	Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB-- 0	SB--		0	NB-- 0	SB--		0
		EB-- 0	WB--		0	EB-- 0	WB--		0
	ATSAC-1 or ATSAC+ATCS-2?				2				2
	Override Capacity				0				0
	MOVEMENT	Volume	No. of Lanes	Lane Volume		Volume	No. of Lanes	Lane Volume	
NORTHBOUND	Left	278	1	**278**		148	1	**148**	
	Left-Through		0				0		
	Through	818	2	409		269	2	135	
	Through-Right		0				0		
	Right	0	0	0		0	0	0	
	Left-Through-Right		0				0		
	Left-Right		0				0		
SOUTHBOUND	Left	0	0	0		0	0	0	
	Left-Through		0				0		
	Through	215	1	215		383	1	383	
	Through-Right		1				1		
	Right	349	0	**349**		646	0	**646**	
	Left-Through-Right		0				0		
	Left-Right		0				0		
EASTBOUND	Left	0	0	0		0	0	0	
	Left-Through		0				0		
	Through	0	0	**0**		0	0	**0**	
	Through-Right		0				0		
	Right	0	0	0		0	0	0	
	Left-Through-Right		0				0		
	Left-Right		0				0		
WESTBOUND	Left	393	1	**315**		237	1	**173**	
	Left-Through		0				0		
	Through	3	0	315		2	0	173	
	Through-Right		0				0		
	Right	234	0	0		107	0	0	
	Left-Through-Right		1				1		
	Left-Right		0				0		
	CRITICAL VOLUMES		*North-South:*	627			*North-South:*	794	
			East-West:	315			*East-West:*	173	
			SUM:	942			*SUM:*	967	
	VOLUME/CAPACITY *(V/C)* RATIO:			0.628				0.645	
	V/C LESS ATSAC/ATCS ADJUSTMENT:			**0.528**				**0.545**	
	LEVEL OF SERVICE (LOS):			**A**				**A**	

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Level of Service Worksheet
(Circular 212 Method)

I/S #:	PROJECT TITLE:	<Project Name>		
3	North-South Street:	Roxford Street	East-West Street:	I-210 EB Ramps
	Scenario:	Existing plus Project		
	Count Date:	1/0/1900	Analyst: <Fehr & Peers>	Date: <date>

		AM			PM		
No. of Phases				3			3
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?				0			0
Right Turns: FREE-1, NRTOR-2 or OLA-3?		NB-- 0	SB--	0	NB-- 0	SB--	0
		EB-- 0	WB--	0	EB-- 0	WB--	0
ATSAC-1 or ATSAC+ATCS-2?				2			2
Override Capacity				0			0
	MOVEMENT	Volume	No. of Lanes	Lane Volume	Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	0	0	0	0	0	0
	Left-Through		0			0	
	Through	644	1	**459**	269	1	**260**
	Through-Right		1			1	
	Right	274	0	274	250	0	250
	Left-Through-Right		0			0	
	Left-Right		0			0	
SOUTHBOUND	Left	113	1	**113**	197	1	**197**
	Left-Through		0			0	
	Through	492	2	246	409	2	205
	Through-Right		0			0	
	Right	0	0	0	0	0	0
	Left-Through-Right		0			0	
	Left-Right		0			0	
EASTBOUND	Left	446	0	446	163	0	163
	Left-Through		1			1	
	Through	0	0	**446**	2	0	165
	Through-Right		0			0	
	Right	260	1	260	178	1	**178**
	Left-Through-Right		0			0	
	Left-Right		0			0	
WESTBOUND	Left	0	0	**0**	0	0	**0**
	Left-Through		0			0	
	Through	0	0	0	0	0	0
	Through-Right		0			0	
	Right	0	0	0	0	0	0
	Left-Through-Right		0			0	
	Left-Right		0			0	
CRITICAL VOLUMES			North-South:	572		North-South:	457
			East-West:	446		East-West:	178
			SUM:	1018		SUM:	635
VOLUME/CAPACITY (V/C) RATIO:				0.714			0.446
V/C LESS ATSAC/ATCS ADJUSTMENT:				**0.614**			**0.346**
LEVEL OF SERVICE (LOS):				**B**			**A**

Version: 1i Beta; 8/4/2011

Level of Service Worksheet
(Circular 212 Method)

I/S #:	
4	

PROJECT TITLE: <Project Name>
North-South Street: Roxford Street **East-West Street:** Foothill Blvd
Scenario: Existing plus Project
Count Date: 1/0/1900 **Analyst:** <Fehr & Peers> **Date:** <date>

		AM			PM		
No. of Phases				4			4
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?				0			0
Right Turns: FREE-1, NRTOR-2 or OLA-3?		NB-- 0	SB--	3	NB-- 0	SB--	3
		EB-- 3	WB--	3	EB-- 3	WB--	3
ATSAC-1 or ATSAC+ATCS-2?				2			2
Override Capacity				0			0

	MOVEMENT	Volume	No. of Lanes	Lane Volume	Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	12	1	**12**	15	1	15
	Left-Through		0			0	
	Through	398	1	398	352	1	**352**
	Through-Right		0			0	
	Right	66	1	9	82	1	52
	Left-Through-Right		0			0	
	Left-Right		0			0	
SOUTHBOUND	Left	113	1	113	108	1	**108**
	Left-Through		0			0	
	Through	567	1	**567**	338	1	338
	Through-Right		0			0	
	Right	80	1	0	143	1	59
	Left-Through-Right		0			0	
	Left-Right		0			0	
EASTBOUND	Left	278	1	**278**	84	1	**84**
	Left-Through		0			0	
	Through	162	1	162	153	1	153
	Through-Right		0			0	
	Right	36	1	24	18	1	3
	Left-Through-Right		0			0	
	Left-Right		0			0	
WESTBOUND	Left	115	1	115	60	1	60
	Left-Through		0			0	
	Through	97	1	97	138	1	**138**
	Through-Right		0			0	
	Right	221	1	**108**	85	1	0
	Left-Through-Right		0			0	
	Left-Right		0			0	
CRITICAL VOLUMES			*North-South:*	579		*North-South:*	460
			East-West:	386		*East-West:*	222
			SUM:	965		*SUM:*	682
VOLUME/CAPACITY *(V/C)* RATIO:				0.702			0.496
V/C LESS ATSAC/ATCS ADJUSTMENT:				**0.602**			**0.396**
LEVEL OF SERVICE (LOS):				**B**			**A**

Version: 1i Beta; 8/4/2011

Level of Service Worksheet
(Circular 212 Method)

I/S #:	
5	

PROJECT TITLE: <Project Name>
North-South Street: Roxford Street **East-West Street:** Glenoaks Blvd
Scenario: Existing plus Project
Count Date: 1/0/1900 **Analyst:** <Fehr & Peers> **Date:** <date>

		AM			PM		
No. of Phases				2			2
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?				0			0
Right Turns: FREE-1, NRTOR-2 or OLA-3?		NB-- 0	SB--	0	NB-- 0	SB--	0
		EB-- 0	WB--	0	EB-- 0	WB--	0
ATSAC-1 or ATSAC+ATCS-2?				2			2
Override Capacity				0			0
MOVEMENT		**Volume**	**No. of Lanes**	**Lane Volume**	**Volume**	**No. of Lanes**	**Lane Volume**
NORTHBOUND	Left	33	1	33	87	1	87
	Left-Through		0			0	
	Through	302	1	**302**	338	1	**338**
	Through-Right		0			0	
	Right	227	1	130	184	1	131
	Left-Through-Right		0			0	
	Left-Right		0			0	
SOUTHBOUND	Left	266	1	**266**	95	1	**95**
	Left-Through		0			0	
	Through	450	1	450	268	1	268
	Through-Right		0			0	
	Right	17	1	4	18	1	5
	Left-Through-Right		0			0	
	Left-Right		0			0	
EASTBOUND	Left	27	1	27	27	1	27
	Left-Through		0			0	
	Through	236	1	**162**	115	1	**77**
	Through-Right		1			1	
	Right	87	0	87	38	0	38
	Left-Through-Right		0			0	
	Left-Right		0			0	
WESTBOUND	Left	195	1	**195**	107	1	**107**
	Left-Through		0			0	
	Through	126	1	108	202	1	136
	Through-Right		1			1	
	Right	90	0	90	70	0	70
	Left-Through-Right		0			0	
	Left-Right		0			0	
CRITICAL VOLUMES			*North-South:*	568		*North-South:*	433
			East-West:	357		*East-West:*	184
			SUM:	925		*SUM:*	617
VOLUME/CAPACITY *(V/C)* RATIO:				0.617			0.411
V/C LESS ATSAC/ATCS ADJUSTMENT:				**0.517**			**0.311**
LEVEL OF SERVICE (LOS):				**A**			**A**

Version: 1i Beta; 8/4/2011

Level of Service Worksheet
(Circular 212 Method)

I/S #:	PROJECT TITLE:	<Project Name>		
6	North-South Street:	Roxford Street	East-West Street:	San Fernando Road
	Scenario:	Existing plus Project		
	Count Date:	1/0/1900	Analyst: <Fehr & Peers>	Date: <date>

		AM			PM		
	No. of Phases			4			4
	Opposed Ø'ing: N/S-1, E/W-2 or Both-3?			0			0
	Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB-- 0	SB--	2	NB-- 0	SB--	2
		EB-- 0	WB--	0	EB-- 0	WB--	0
	ATSAC-1 or ATSAC+ATCS-2?			2			2
	Override Capacity			0			0
	MOVEMENT	Volume	No. of Lanes	Lane Volume	Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	39	1	39	28	1	28
	Left-Through		0			0	
	Through	561	1	**330**	456	1	**288**
	Through-Right		1			1	
	Right	98	0	98	120	0	120
	Left-Through-Right		0			0	
	Left-Right		0			0	
SOUTHBOUND	Left	123	1	**123**	108	1	**108**
	Left-Through		0			0	
	Through	594	1	394	494	1	286
	Through-Right		1			1	
	Right	193	0	193	78	0	78
	Left-Through-Right		0			0	
	Left-Right		0			0	
EASTBOUND	Left	81	1	81	122	1	**122**
	Left-Through		0			0	
	Through	260	1	**147**	165	1	111
	Through-Right		1			1	
	Right	34	0	34	57	0	57
	Left-Through-Right		0			0	
	Left-Right		0			0	
WESTBOUND	Left	147	1	**147**	162	1	162
	Left-Through		0			0	
	Through	153	1	121	220	1	**155**
	Through-Right		1			1	
	Right	88	0	88	90	0	90
	Left-Through-Right		0			0	
	Left-Right		0			0	
	CRITICAL VOLUMES		*North-South:*	453		*North-South:*	396
			East-West:	294		*East-West:*	277
			SUM:	747		*SUM:*	673
	VOLUME/CAPACITY *(V/C)* RATIO:			0.543			0.489
	V/C LESS ATSAC/ATCS ADJUSTMENT:			**0.443**			**0.389**
	LEVEL OF SERVICE (LOS):			**A**			**A**

Version: 1i Beta; 8/4/2011

Level of Service Worksheet
(Circular 212 Method)

I/S #:	PROJECT TITLE:	<Project Name>		
7	North-South Street:	Roxford Street	East-West Street:	Encinitas Ave/I-5 NB Ramps
	Scenario:	Existing plus Project		
	Count Date:	1/0/1900	Analyst: <Fehr & Peers>	Date: <date>

		AM				PM			
No. of Phases					3				3
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?					2				2
Right Turns: FREE-1, NRTOR-2 or OLA-3?		NB-- 0	SB--		0	NB-- 0	SB--		0
		EB-- 0	WB--		0	EB-- 0	WB--		0
ATSAC-1 or ATSAC+ATCS-2?					2				2
Override Capacity					0				0
MOVEMENT		Volume	No. of Lanes	Lane Volume		Volume	No. of Lanes	Lane Volume	
NORTHBOUND	Left	8	1	8		12	1	**12**	
	Left-Through		0				0		
	Through	709	1	**479**		517	1	452	
	Through-Right		1				1		
	Right	248	0	248		387	0	387	
	Left-Through-Right		0				0		
	Left-Right		0				0		
SOUTHBOUND	Left	51	1	**51**		33	1	33	
	Left-Through		0				0		
	Through	576	1	334		855	1	**554**	
	Through-Right		1				1		
	Right	92	0	92		253	0	253	
	Left-Through-Right		0				0		
	Left-Right		0				0		
EASTBOUND	Left	371	1	**371**		47	1	47	
	Left-Through		0				0		
	Through	125	0	233		11	0	**76**	
	Through-Right		1				1		
	Right	108	0	0		65	0	0	
	Left-Through-Right		0				0		
	Left-Right		0				0		
WESTBOUND	Left	425	1	**234**		335	1	**184**	
	Left-Through		1				1		
	Through	151	0	172		160	0	177	
	Through-Right		1				1		
	Right	21	0	21		17	0	17	
	Left-Through-Right		0				0		
	Left-Right		0				0		
CRITICAL VOLUMES			North-South:	530			North-South:	566	
			East-West:	605			East-West:	260	
			SUM:	1135			SUM:	826	
VOLUME/CAPACITY (V/C) RATIO:				0.796				0.580	
V/C LESS ATSAC/ATCS ADJUSTMENT:				**0.696**				**0.480**	
LEVEL OF SERVICE (LOS):				**B**				**A**	

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Level of Service Worksheet
(Circular 212 Method)

I/S #:	PROJECT TITLE:	<Project Name>		
8	North-South Street:	Roxford Street	East-West Street:	I-5 SB Ramps
	Scenario:	Existing plus Project		
	Count Date:	1/0/1900	Analyst: <Fehr & Peers>	Date: <date>

		AM			PM		
No. of Phases				3			3
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?				1			1
Right Turns: FREE-1, NRTOR-2 or OLA-3?		NB-- 0	SB--	0	NB-- 0	SB--	0
		EB-- 0	WB--	0	EB-- 0	WB--	0
ATSAC-1 or ATSAC+ATCS-2?				2			2
Override Capacity				0			0
MOVEMENT		Volume	No. of Lanes	Lane Volume	Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	0	0	0	0	0	0
	Left-Through		0			0	
	Through	30	1	30	16	1	16
	Through-Right		0			0	
	Right	596	1	**596**	113	1	**113**
	Left-Through-Right		0			0	
	Left-Right		0			0	
SOUTHBOUND	Left	1043	2	**574**	1184	2	**651**
	Left-Through		0			0	
	Through	142	1	142	100	1	100
	Through-Right		0			0	
	Right	0	0	0	0	0	0
	Left-Through-Right		0			0	
	Left-Right		0			0	
EASTBOUND	Left	206	0	**206**	223	0	**223**
	Left-Through		1			1	
	Through	1	0	8	3	0	3
	Through-Right		1			1	
	Right	7	0	0	0	0	0
	Left-Through-Right		0			0	
	Left-Right		0			0	
WESTBOUND	Left	0	0	0	0	0	0
	Left-Through		0			0	
	Through	0	0	**0**	0	0	**0**
	Through-Right		0			0	
	Right	0	0	0	0	0	0
	Left-Through-Right		0			0	
	Left-Right		0			0	
CRITICAL VOLUMES			*North-South:*	1170		*North-South:*	764
			East-West:	206		*East-West:*	223
			SUM:	1376		*SUM:*	987
VOLUME/CAPACITY *(V/C)* RATIO:				0.966			0.693
V/C LESS ATSAC/ATCS ADJUSTMENT:				**0.866**			**0.593**
LEVEL OF SERVICE (LOS):				**D**			**A**

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Level of Service Worksheet
(Circular 212 Method)

I/S #:	PROJECT TITLE:	<Project Name>		
9	North-South Street:	Bledsoe St	East-West Street:	Olive View Dr
	Scenario:	Existing plus Project		
	Count Date:	1/0/1900	Analyst: <Fehr & Peers>	Date: <date>

		AM			PM		
No. of Phases				4			4
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?				0			0
Right Turns: FREE-1, NRTOR-2 or OLA-3?		NB-- 0	SB--	0	NB-- 0	SB--	0
		EB-- 0	WB--	0	EB-- 0	WB--	0
ATSAC-1 or ATSAC+ATCS-2?				0			0
Override Capacity				0			0

	MOVEMENT	Volume	No. of Lanes	Lane Volume	Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	138	0	138	70	0	**70**
	Left-Through		0			0	
	Through	81	0	**310**	21	0	124
	Through-Right		0			0	
	Right	91	0	0	33	0	0
	Left-Through-Right		1			1	
	Left-Right		0			0	
SOUTHBOUND	Left	7	0	**7**	23	0	23
	Left-Through		0			0	
	Through	36	0	114	52	0	**220**
	Through-Right		0			0	
	Right	71	0	0	145	0	0
	Left-Through-Right		1			1	
	Left-Right		0			0	
EASTBOUND	Left	122	0	**122**	36	0	36
	Left-Through		1			1	
	Through	138	0	157	110	0	**142**
	Through-Right		1			1	
	Right	53	0	157	138	0	142
	Left-Through-Right		0			0	
	Left-Right		0			0	
WESTBOUND	Left	57	0	57	35	0	**35**
	Left-Through		1			1	
	Through	155	0	**117**	156	0	100
	Through-Right		1			1	
	Right	22	0	117	8	0	100
	Left-Through-Right		0			0	
	Left-Right		0			0	
CRITICAL VOLUMES			*North-South:*	317		*North-South:*	290
			East-West:	239		*East-West:*	177
			SUM:	556		*SUM:*	467
VOLUME/CAPACITY *(V/C)* RATIO:				0.404			0.340
V/C LESS ATSAC/ATCS ADJUSTMENT:				0.404			0.340
LEVEL OF SERVICE (LOS):				A			A

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Level of Service Worksheet
(Circular 212 Method)

I/S #:	PROJECT TITLE:	<Project Name>		
10	North-South Street:	Bledsoe St	East-West Street:	Foothill Blvd
	Scenario:	Existing plus Project		
	Count Date:	1/0/1900	Analyst: <Fehr & Peers>	Date: <date>

		AM				PM			
No. of Phases					2				2
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?					0				0
Right Turns: FREE-1, NRTOR-2 or OLA-3?		NB-- 0	SB--		0	NB-- 0	SB--		0
		EB-- 0	WB--		0	EB-- 0	WB--		0
ATSAC-1 or ATSAC+ATCS-2?					2				2
Override Capacity					0				0
MOVEMENT		Volume	No. of Lanes	Lane Volume		Volume	No. of Lanes	Lane Volume	
NORTHBOUND	Left	44	1	44		23	1	23	
	Left-Through		0				0		
	Through	91	1	91		39	1	39	
	Through-Right		0				0		
	Right	213	1	**153**		99	1	**57**	
	Left-Through-Right		0				0		
	Left-Right		0				0		
SOUTHBOUND	Left	108	1	**108**		178	1	**178**	
	Left-Through		0				0		
	Through	93	0	121		48	0	66	
	Through-Right		1				1		
	Right	28	0	0		18	0	0	
	Left-Through-Right		0				0		
	Left-Right		0				0		
EASTBOUND	Left	73	1	**73**		18	1	18	
	Left-Through		0				0		
	Through	304	1	169		293	1	**155**	
	Through-Right		1				1		
	Right	33	0	33		16	0	16	
	Left-Through-Right		0				0		
	Left-Right		0				0		
WESTBOUND	Left	120	1	120		84	1	**84**	
	Left-Through		0				0		
	Through	276	1	**234**		281	1	190	
	Through-Right		1				1		
	Right	191	0	191		99	0	99	
	Left-Through-Right		0				0		
	Left-Right		0				0		
CRITICAL VOLUMES			North-South:	261			North-South:	235	
			East-West:	307			East-West:	239	
			SUM:	568			SUM:	474	
VOLUME/CAPACITY (V/C) RATIO:				0.379				0.316	
V/C LESS ATSAC/ATCS ADJUSTMENT:				**0.279**				**0.216**	
LEVEL OF SERVICE (LOS):				**A**				**A**	

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Level of Service Worksheet
(Circular 212 Method)

I/S #:	PROJECT TITLE:	<Project Name>		
11	North-South Street:	Bledsoe St	East-West Street:	Glenoaks Blvd
	Scenario:	Existing plus Project		
	Count Date:	1/0/1900	Analyst: <Fehr & Peers>	Date: <date>

		AM			PM		
No. of Phases				2			2
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?				0			0
Right Turns: FREE-1, NRTOR-2 or OLA-3?		NB-- 0	SB--	0	NB-- 0	SB--	0
		EB-- 0	WB--	0	EB-- 0	WB--	0
ATSAC-1 or ATSAC+ATCS-2?				2			2
Override Capacity				0			0
	MOVEMENT	Volume	No. of Lanes	Lane Volume	Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	22	0	**22**	21	0	**21**
	Left-Through		1			1	
	Through	95	0	117	76	0	97
	Through-Right		0			0	
	Right	144	1	144	108	1	108
	Left-Through-Right		0			0	
	Left-Right		0			0	
SOUTHBOUND	Left	62	0	62	45	0	45
	Left-Through		0			0	
	Through	125	0	**213**	66	0	**135**
	Through-Right		0			0	
	Right	26	0	0	24	0	0
	Left-Through-Right		1			1	
	Left-Right		0			0	
EASTBOUND	Left	52	0	**52**	46	0	46
	Left-Through		1			1	
	Through	634	0	427	528	0	**346**
	Through-Right		1			1	
	Right	116	0	427	71	0	346
	Left-Through-Right		0			0	
	Left-Right		0			0	
WESTBOUND	Left	114	0	114	84	0	**84**
	Left-Through		1			1	
	Through	443	0	**494**	341	0	282
	Through-Right		1			1	
	Right	89	0	494	54	0	282
	Left-Through-Right		0			0	
	Left-Right		0			0	
CRITICAL VOLUMES			*North-South:*	235		*North-South:*	156
			East-West:	546		*East-West:*	430
			SUM:	781		*SUM:*	586
VOLUME/CAPACITY *(V/C)* RATIO:				0.521			0.391
V/C LESS ATSAC/ATCS ADJUSTMENT:				**0.421**			**0.291**
LEVEL OF SERVICE (LOS):				**A**			**A**

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Level of Service Worksheet
(Circular 212 Method)

I/S #:	PROJECT TITLE:	<Project Name>		
12	North-South Street:	Polk St	East-West Street:	I-210 WB Ramps
	Scenario:	Existing plus Project		
	Count Date:	1/0/1900	Analyst: <Fehr & Peers>	Date: <date>

		AM			PM		
	No. of Phases			2			2
	Opposed Ø'ing: N/S-1, E/W-2 or Both-3?			2			2
	Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB-- 0	SB--	0	NB-- 0	SB--	0
		EB-- 0	WB--	0	EB-- 0	WB--	0
	ATSAC-1 or ATSAC+ATCS-2?			2			2
	Override Capacity			0			0
	MOVEMENT	Volume	No. of Lanes	Lane Volume	Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	221	1	**221**	189	1	**189**
	Left-Through		0			0	
	Through	417	2	209	482	2	241
	Through-Right		0			0	
	Right	0	0	0	0	0	0
	Left-Through-Right		0			0	
	Left-Right		0			0	
SOUTHBOUND	Left	0	0	0	0	0	0
	Left-Through		0			0	
	Through	667	1	**477**	450	1	**278**
	Through-Right		1			1	
	Right	287	0	287	105	0	105
	Left-Through-Right		0			0	
	Left-Right		0			0	
EASTBOUND	Left	0	0	0	0	0	0
	Left-Through		0			0	
	Through	0	0	**0**	0	0	**0**
	Through-Right		0			0	
	Right	0	0	0	0	0	0
	Left-Through-Right		0			0	
	Left-Right		0			0	
WESTBOUND	Left	471	0	471	562	0	562
	Left-Through		1			1	
	Through	2	0	**473**	1	0	**563**
	Through-Right		0			0	
	Right	136	1	136	253	1	253
	Left-Through-Right		0			0	
	Left-Right		0			0	
	CRITICAL VOLUMES		North-South:	698		North-South:	467
			East-West:	473		East-West:	563
			SUM:	1171		SUM:	1030
	VOLUME/CAPACITY (V/C) RATIO:			0.781			0.687
	V/C LESS ATSAC/ATCS ADJUSTMENT:			**0.681**			**0.587**
	LEVEL OF SERVICE (LOS):			**B**			**A**

Version: 1i Beta; 8/4/2011

Level of Service Worksheet
(Circular 212 Method)

I/S #:	PROJECT TITLE:	<Project Name>		
13	North-South Street:	Polk St	East-West Street:	I-210 EB Ramps
	Scenario:	Existing plus Project		
	Count Date:	1/0/1900	Analyst: <Fehr & Peers>	Date: <date>

		AM			PM		
	No. of Phases			2			2
	Opposed Ø'ing: N/S-1, E/W-2 or Both-3?			2			2
	Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB-- 0	SB--	0	NB-- 0	SB--	0
		EB-- 0	WB--	0	EB-- 0	WB--	0
	ATSAC-1 or ATSAC+ATCS-2?			2			2
	Override Capacity			0			0
	MOVEMENT	Volume	No. of Lanes	Lane Volume	Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	0	0	0	0	0	0
	Left-Through		0			0	
	Through	472	1	472	548	1	**533**
	Through-Right		1			1	
	Right	772	0	**772**	517	0	517
	Left-Through-Right		0			0	
	Left-Right		0			0	
SOUTHBOUND	Left	330	1	**330**	194	1	**194**
	Left-Through		0			0	
	Through	843	2	422	808	2	404
	Through-Right		0			0	
	Right	0	0	0	0	0	0
	Left-Through-Right		0			0	
	Left-Right		0			0	
EASTBOUND	Left	107	0	107	122	0	122
	Left-Through		1			1	
	Through	3	0	110	0	0	122
	Through-Right		0			0	
	Right	263	1	**263**	248	1	**248**
	Left-Through-Right		0			0	
	Left-Right		0			0	
WESTBOUND	Left	0	0	0	0	0	0
	Left-Through		0			0	
	Through	0	0	**0**	0	0	**0**
	Through-Right		0			0	
	Right	0	0	0	0	0	0
	Left-Through-Right		0			0	
	Left-Right		0			0	
	CRITICAL VOLUMES		North-South:	1102		North-South:	727
			East-West:	263		East-West:	248
			SUM:	1365		SUM:	975
	VOLUME/CAPACITY (V/C) RATIO:			0.910			0.650
	V/C LESS ATSAC/ATCS ADJUSTMENT:			**0.810**			**0.550**
	LEVEL OF SERVICE (LOS):			**D**			**A**

Version: 1i Beta; 8/4/2011

Level of Service Worksheet
(Circular 212 Method)

I/S #:	PROJECT TITLE:	<Project Name>		
14	North-South Street:	Polk St	East-West Street:	Foothill Blvd
	Scenario:	Existing plus Project		
	Count Date:	1/0/1900	Analyst: <Fehr & Peers>	Date: <date>

		AM			PM		
No. of Phases				4			4
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?				0			0
Right Turns: FREE-1, NRTOR-2 or OLA-3?		NB-- 0	SB--	0	NB-- 0	SB--	0
		EB-- 0	WB--	3	EB-- 0	WB--	3
ATSAC-1 or ATSAC+ATCS-2?				2			2
Override Capacity				0			0

	MOVEMENT	Volume	No. of Lanes	Lane Volume	Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	62	1	62	67	1	67
	Left-Through		0			0	
	Through	579	1	**384**	513	1	**368**
	Through-Right		1			1	
	Right	189	0	189	222	0	222
	Left-Through-Right		0			0	
	Left-Right		0			0	
SOUTHBOUND	Left	221	1	**221**	271	1	**271**
	Left-Through		0			0	
	Through	573	1	441	510	1	389
	Through-Right		1			1	
	Right	308	0	308	267	0	267
	Left-Through-Right		0			0	
	Left-Right		0			0	
EASTBOUND	Left	418	1	**418**	247	1	**247**
	Left-Through		0			0	
	Through	525	1	304	378	1	218
	Through-Right		1			1	
	Right	83	0	83	57	0	57
	Left-Through-Right		0			0	
	Left-Right		0			0	
WESTBOUND	Left	152	1	152	165	1	165
	Left-Through		0			0	
	Through	314	2	**157**	379	2	**190**
	Through-Right		0			0	
	Right	237	1	16	282	1	11
	Left-Through-Right		0			0	
	Left-Right		0			0	
CRITICAL VOLUMES			North-South:	605		North-South:	639
			East-West:	575		East-West:	437
			SUM:	1180		SUM:	1076
VOLUME/CAPACITY (V/C) RATIO:				0.858			0.783
V/C LESS ATSAC/ATCS ADJUSTMENT:				**0.758**			**0.683**
LEVEL OF SERVICE (LOS):				**C**			**B**

Version: 1i Beta; 8/4/2011

Level of Service Worksheet
(Circular 212 Method)

I/S #:	
1	

PROJECT TITLE: <Project Name>
North-South Street: Glenoaks Blvd **East-West Street:** Foothill Blvd
Scenario: Existing
Count Date: 1/0/1900 **Analyst:** <Fehr & Peers> **Date:** <date>

		AM			PM		
No. of Phases				2			2
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?				0			0
Right Turns: FREE-1, NRTOR-2 or OLA-3?		NB-- 0	SB--	0	NB-- 0	SB--	0
		EB-- 0	WB--	0	EB-- 0	WB--	0
ATSAC-1 or ATSAC+ATCS-2?				2			2
Override Capacity				0			0
MOVEMENT		Volume	No. of Lanes	Lane Volume	Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	103	1	**103**	133	1	**133**
	Left-Through		0			0	
	Through	12	1	12	27	1	22
	Through-Right		1			1	
	Right	11	0	11	17	0	17
	Left-Through-Right		0			0	
	Left-Right		0			0	
SOUTHBOUND	Left	35	1	35	26	1	26
	Left-Through		0			0	
	Through	49	1	49	12	1	12
	Through-Right		1			1	
	Right	104	0	**98**	41	0	**14**
	Left-Through-Right		0			0	
	Left-Right		0			0	
EASTBOUND	Left	12	1	12	54	1	**54**
	Left-Through		0			0	
	Through	311	1	**311**	208	1	208
	Through-Right		0			0	
	Right	167	1	116	136	1	70
	Left-Through-Right		0			0	
	Left-Right		0			0	
WESTBOUND	Left	9	1	**9**	17	1	17
	Left-Through		0			0	
	Through	149	0	160	174	0	**205**
	Through-Right		1			1	
	Right	11	0	0	31	0	0
	Left-Through-Right		0			0	
	Left-Right		0			0	
CRITICAL VOLUMES			*North-South:*	201		*North-South:*	147
			East-West:	320		*East-West:*	259
			SUM:	521		*SUM:*	406
VOLUME/CAPACITY *(V/C)* RATIO:				0.347			0.271
V/C LESS ATSAC/ATCS ADJUSTMENT:				**0.247**			**0.171**
LEVEL OF SERVICE (LOS):				**A**			**A**

Version: 1i Beta; 8/4/2011

Level of Service Worksheet
(Circular 212 Method)

I/S #:	PROJECT TITLE:	<Project Name>		
2	North-South Street:	Roxford Street	East-West Street:	I-210 WB Ramps
	Scenario:	Existing		
	Count Date:	1/0/1900	Analyst: <Fehr & Peers>	Date: <date>

		AM			PM		
No. of Phases				2			2
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?				2			2
Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB-- 0	SB--	0	NB-- 0	SB--	0
	EB-- 0	WB--	0	EB-- 0	WB--	0
ATSAC-1 or ATSAC+ATCS-2?			2			2
Override Capacity			0			0

	MOVEMENT	Volume	No. of Lanes	Lane Volume	Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	278	1	**278**	148	1	**148**
	Left-Through		0			0	
	Through	620	2	310	199	2	100
	Through-Right		0			0	
	Right	0	0	0	0	0	0
	Left-Through-Right		0			0	
	Left-Right		0			0	
SOUTHBOUND	Left	0	0	0	0	0	0
	Left-Through		0			0	
	Through	174	1	174	266	1	266
	Through-Right		1			1	
	Right	301	0	**301**	511	0	**511**
	Left-Through-Right		0			0	
	Left-Right		0			0	
EASTBOUND	Left	0	0	0	0	0	0
	Left-Through		0			0	
	Through	0	0	**0**	0	0	**0**
	Through-Right		0			0	
	Right	0	0	0	0	0	0
	Left-Through-Right		0			0	
	Left-Right		0			0	
WESTBOUND	Left	393	1	**294**	237	1	**166**
	Left-Through		0			0	
	Through	3	0	294	2	0	166
	Through-Right		0			0	
	Right	191	0	0	92	0	0
	Left-Through-Right		1			1	
	Left-Right		0			0	
CRITICAL VOLUMES			*North-South:*	579		*North-South:*	659
			East-West:	294		*East-West:*	166
			SUM:	873		*SUM:*	825
VOLUME/CAPACITY *(V/C)* RATIO:				0.582			0.550
V/C LESS ATSAC/ATCS ADJUSTMENT:				**0.482**			**0.450**
LEVEL OF SERVICE (LOS):				**A**			**A**

Version: 1i Beta; 8/4/2011

Level of Service Worksheet
(Circular 212 Method)

I/S #:	PROJECT TITLE:	<Project Name>		
3	North-South Street:	Roxford Street	East-West Street:	I-210 EB Ramps
	Scenario:	Existing		
	Count Date:	1/0/1900	Analyst: <Fehr & Peers>	Date: <date>

		AM			PM		
No. of Phases				3			3
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?				0			0
Right Turns: FREE-1, NRTOR-2 or OLA-3?		NB-- 0	SB--	0	NB-- 0	SB--	0
		EB-- 0	WB--	0	EB-- 0	WB--	0
ATSAC-1 or ATSAC+ATCS-2?				2			2
Override Capacity				0			0

	MOVEMENT	Volume	No. of Lanes	Lane Volume	Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	0	0	0	0	0	0
	Left-Through		0			0	
	Through	575	1	**425**	245	1	245
	Through-Right		1			1	
	Right	274	0	274	250	0	**250**
	Left-Through-Right		0			0	
	Left-Right		0			0	
SOUTHBOUND	Left	97	1	**97**	152	1	**152**
	Left-Through		0			0	
	Through	467	2	234	337	2	169
	Through-Right		0			0	
	Right	0	0	0	0	0	0
	Left-Through-Right		0			0	
	Left-Right		0			0	
EASTBOUND	Left	317	0	317	117	0	117
	Left-Through		1			1	
	Through	0	0	**317**	2	0	119
	Through-Right		0			0	
	Right	260	1	260	178	1	**178**
	Left-Through-Right		0			0	
	Left-Right		0			0	
WESTBOUND	Left	0	0	**0**	0	0	**0**
	Left-Through		0			0	
	Through	0	0	0	0	0	0
	Through-Right		0			0	
	Right	0	0	0	0	0	0
	Left-Through-Right		0			0	
	Left-Right		0			0	
CRITICAL VOLUMES			*North-South:*	522		*North-South:*	402
			East-West:	317		*East-West:*	178
			SUM:	839		*SUM:*	580
VOLUME/CAPACITY *(V/C)* RATIO:				0.589			0.407
V/C LESS ATSAC/ATCS ADJUSTMENT:				**0.489**			**0.307**
LEVEL OF SERVICE (LOS):				**A**			**A**

Version: 1i Beta; 8/4/2011

Level of Service Worksheet
(Circular 212 Method)

I/S #:	PROJECT TITLE:	<Project Name>		
4	North-South Street:	Roxford Street	East-West Street:	Foothill Blvd
	Scenario:	Existing		
	Count Date:	1/0/1900	Analyst: <Fehr & Peers>	Date: <date>

		AM			PM		
No. of Phases				4			4
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?				0			0
Right Turns: FREE-1, NRTOR-2 or OLA-3?		NB-- 0	SB--	3	NB-- 0	SB--	3
		EB-- 3	WB--	3	EB-- 3	WB--	3
ATSAC-1 or ATSAC+ATCS-2?				2			2
Override Capacity				0			0

	MOVEMENT	Volume	No. of Lanes	Lane Volume	Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	12	1	**12**	15	1	15
	Left-Through		0			0	
	Through	357	1	357	338	1	**338**
	Through-Right		0			0	
	Right	66	1	9	82	1	52
	Left-Through-Right		0			0	
	Left-Right		0			0	
SOUTHBOUND	Left	113	1	113	108	1	**108**
	Left-Through		0			0	
	Through	552	1	**552**	296	1	296
	Through-Right		0			0	
	Right	70	1	0	113	1	39
	Left-Through-Right		0			0	
	Left-Right		0			0	
EASTBOUND	Left	250	1	**250**	74	1	74
	Left-Through		0			0	
	Through	162	1	162	153	1	**153**
	Through-Right		0			0	
	Right	36	1	24	18	1	3
	Left-Through-Right		0			0	
	Left-Right		0			0	
WESTBOUND	Left	115	1	115	60	1	**60**
	Left-Through		0			0	
	Through	97	1	97	138	1	138
	Through-Right		0			0	
	Right	221	1	**108**	85	1	0
	Left-Through-Right		0			0	
	Left-Right		0			0	
CRITICAL VOLUMES			*North-South:*	564		*North-South:*	446
			East-West:	358		*East-West:*	213
			SUM:	922		*SUM:*	659
VOLUME/CAPACITY *(V/C)* RATIO:				0.671			0.479
V/C LESS ATSAC/ATCS ADJUSTMENT:				**0.571**			**0.379**
LEVEL OF SERVICE (LOS):				**A**			**A**

Version: 1i Beta; 8/4/2011

Level of Service Worksheet
(Circular 212 Method)

I/S #:	PROJECT TITLE:	<Project Name>		
5	North-South Street:	Roxford Street	East-West Street:	Glenoaks Blvd
	Scenario:	Existing		
	Count Date:	1/0/1900	Analyst: <Fehr & Peers>	Date: <date>

		AM				PM			
No. of Phases					2				2
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?					0				0
Right Turns: FREE-1, NRTOR-2 or OLA-3?		NB-- 0	SB--		0	NB-- 0	SB--		0
		EB-- 0	WB--		0	EB-- 0	WB--		0
ATSAC-1 or ATSAC+ATCS-2?					2				2
Override Capacity					0				0
	MOVEMENT	Volume	No. of Lanes	Lane Volume		Volume	No. of Lanes	Lane Volume	
NORTHBOUND	Left	33	1	33		87	1	87	
	Left-Through		0				0		
	Through	267	1	**267**		326	1	**326**	
	Through-Right		0				0		
	Right	227	1	130		184	1	131	
	Left-Through-Right		0				0		
	Left-Right		0				0		
SOUTHBOUND	Left	264	1	**264**		89	1	**89**	
	Left-Through		0				0		
	Through	437	1	437		232	1	232	
	Through-Right		0				0		
	Right	17	1	4		18	1	5	
	Left-Through-Right		0				0		
	Left-Right		0				0		
EASTBOUND	Left	27	1	27		27	1	27	
	Left-Through		0				0		
	Through	236	1	**162**		115	1	**77**	
	Through-Right		1				1		
	Right	87	0	87		38	0	38	
	Left-Through-Right		0				0		
	Left-Right		0				0		
WESTBOUND	Left	195	1	**195**		107	1	**107**	
	Left-Through		0				0		
	Through	126	1	105		202	1	135	
	Through-Right		1				1		
	Right	84	0	84		68	0	68	
	Left-Through-Right		0				0		
	Left-Right		0				0		
CRITICAL VOLUMES			North-South:	531			North-South:	415	
			East-West:	357			East-West:	184	
			SUM:	888			SUM:	599	
VOLUME/CAPACITY (V/C) RATIO:				0.592				0.399	
V/C LESS ATSAC/ATCS ADJUSTMENT:				**0.492**				**0.299**	
LEVEL OF SERVICE (LOS):				**A**				**A**	

Version: 1i Beta; 8/4/2011

Level of Service Worksheet
(Circular 212 Method)

I/S #:	PROJECT TITLE:	<Project Name>		
6	North-South Street:	Roxford Street	East-West Street:	San Fernando Road
	Scenario:	Existing		
	Count Date:	1/0/1900	Analyst: <Fehr & Peers>	Date: <date>

		AM				PM			
No. of Phases					4				4
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?					0				0
Right Turns: FREE-1, NRTOR-2 or OLA-3?		NB-- 0	SB--		2	NB-- 0	SB--		2
		EB-- 0	WB--		0	EB-- 0	WB--		0
ATSAC-1 or ATSAC+ATCS-2?					2				2
Override Capacity					0				0
MOVEMENT		Volume	No. of Lanes	Lane Volume		Volume	No. of Lanes	Lane Volume	
NORTHBOUND	Left	39	1	39		28	1	28	
	Left-Through		0				0		
	Through	532	1	**315**		446	1	**283**	
	Through-Right		1				1		
	Right	98	0	98		120	0	120	
	Left-Through-Right		0				0		
	Left-Right		0				0		
SOUTHBOUND	Left	121	1	**121**		102	1	**102**	
	Left-Through		0				0		
	Through	583	1	388		464	1	271	
	Through-Right		1				1		
	Right	193	0	193		78	0	78	
	Left-Through-Right		0				0		
	Left-Right		0				0		
EASTBOUND	Left	81	1	81		122	1	**122**	
	Left-Through		0				0		
	Through	260	1	**147**		165	1	111	
	Through-Right		1				1		
	Right	34	0	34		57	0	57	
	Left-Through-Right		0				0		
	Left-Right		0				0		
WESTBOUND	Left	147	1	**147**		162	1	162	
	Left-Through		0				0		
	Through	153	1	118		220	1	**154**	
	Through-Right		1				1		
	Right	82	0	82		88	0	88	
	Left-Through-Right		0				0		
	Left-Right		0				0		
CRITICAL VOLUMES			*North-South:*	436			*North-South:*	385	
			East-West:	294			*East-West:*	276	
			SUM:	730			*SUM:*	661	
VOLUME/CAPACITY *(V/C)* RATIO:				0.531				0.481	
V/C LESS ATSAC/ATCS ADJUSTMENT:				**0.431**				**0.381**	
LEVEL OF SERVICE (LOS):				**A**				**A**	

Version: 1i Beta; 8/4/2011

Level of Service Worksheet
(Circular 212 Method)

I/S #:	PROJECT TITLE:	<Project Name>		
7	North-South Street:	Roxford Street	East-West Street:	Encinitas Ave/I-5 NB Ramps
	Scenario:	Existing		
	Count Date:	1/0/1900	Analyst: <Fehr & Peers>	Date: <date>

		AM			PM		
No. of Phases				3			3
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?				2			2
Right Turns: FREE-1, NRTOR-2 or OLA-3?		NB-- 0	SB--	0	NB-- 0	SB--	0
		EB-- 0	WB--	0	EB-- 0	WB--	0
ATSAC-1 or ATSAC+ATCS-2?				2			2
Override Capacity				0			0
MOVEMENT		Volume	No. of Lanes	Lane Volume	Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	8	1	8	12	1	**12**
	Left-Through		0			0	
	Through	680	1	**464**	507	1	447
	Through-Right		1			1	
	Right	248	0	248	387	0	387
	Left-Through-Right		0			0	
	Left-Right		0			0	
SOUTHBOUND	Left	51	1	**51**	33	1	33
	Left-Through		0			0	
	Through	565	1	329	825	1	**539**
	Through-Right		1			1	
	Right	92	0	92	253	0	253
	Left-Through-Right		0			0	
	Left-Right		0			0	
EASTBOUND	Left	371	1	**371**	47	1	47
	Left-Through		0			0	
	Through	125	0	233	11	0	**76**
	Through-Right		1			1	
	Right	108	0	0	65	0	0
	Left-Through-Right		0			0	
	Left-Right		0			0	
WESTBOUND	Left	425	1	**234**	335	1	**184**
	Left-Through		1			1	
	Through	151	0	172	160	0	177
	Through-Right		1			1	
	Right	21	0	21	17	0	17
	Left-Through-Right		0			0	
	Left-Right		0			0	
CRITICAL VOLUMES			North-South:	515		North-South:	551
			East-West:	605		East-West:	260
			SUM:	1120		SUM:	811
VOLUME/CAPACITY (V/C) RATIO:				0.786			0.569
V/C LESS ATSAC/ATCS ADJUSTMENT:				**0.686**			**0.469**
LEVEL OF SERVICE (LOS):				**B**			**A**

Version: 1i Beta; 8/4/2011

Level of Service Worksheet
(Circular 212 Method)

I/S #:	PROJECT TITLE:	<Project Name>		
8	North-South Street:	Roxford Street	East-West Street:	I-5 SB Ramps
	Scenario:	Existing		
	Count Date:	1/0/1900	Analyst: <Fehr & Peers>	Date: <date>

		AM			PM		
	No. of Phases			3			3
	Opposed Ø'ing: N/S-1, E/W-2 or Both-3?			1			1
	Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB-- 0	SB--	0	NB-- 0	SB--	0
		EB-- 0	WB--	0	EB-- 0	WB--	0
	ATSAC-1 or ATSAC+ATCS-2?			2			2
	Override Capacity			0			0
	MOVEMENT	Volume	No. of Lanes	Lane Volume	Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	0	0	0	0	0	0
	Left-Through		0			0	
	Through	30	1	30	16	1	16
	Through-Right		0			0	
	Right	596	1	**596**	113	1	**113**
	Left-Through-Right		0			0	
	Left-Right		0			0	
SOUTHBOUND	Left	1032	2	**568**	1154	2	**635**
	Left-Through		0			0	
	Through	142	1	142	100	1	100
	Through-Right		0			0	
	Right	0	0	0	0	0	0
	Left-Through-Right		0			0	
	Left-Right		0			0	
EASTBOUND	Left	206	0	**206**	223	0	**223**
	Left-Through		1			1	
	Through	1	0	8	3	0	3
	Through-Right		1			1	
	Right	7	0	0	0	0	0
	Left-Through-Right		0			0	
	Left-Right		0			0	
WESTBOUND	Left	0	0	0	0	0	0
	Left-Through		0			0	
	Through	0	0	**0**	0	0	**0**
	Through-Right		0			0	
	Right	0	0	0	0	0	0
	Left-Through-Right		0			0	
	Left-Right		0			0	
	CRITICAL VOLUMES		North-South:	1164		North-South:	748
			East-West:	206		East-West:	223
			SUM:	1370		SUM:	971
	VOLUME/CAPACITY (V/C) RATIO:			0.961			0.681
	V/C LESS ATSAC/ATCS ADJUSTMENT:			**0.861**			**0.581**
	LEVEL OF SERVICE (LOS):			**D**			**A**

Version: 1i Beta; 8/4/2011

Level of Service Worksheet
(Circular 212 Method)

I/S #:	PROJECT TITLE:	<Project Name>		
9	North-South Street:	Bledsoe St	East-West Street:	Olive View Dr
	Scenario:	Existing		
	Count Date:	1/0/1900	Analyst: <Fehr & Peers>	Date: <date>

		AM			PM		
No. of Phases				4			4
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?				0			0
Right Turns: FREE-1, NRTOR-2 or OLA-3?		NB-- 0	SB--	0	NB-- 0	SB--	0
		EB-- 0	WB--	0	EB-- 0	WB--	0
ATSAC-1 or ATSAC+ATCS-2?				0			0
Override Capacity				0			0

	MOVEMENT	Volume	No. of Lanes	Lane Volume	Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	116	0	116	63	0	**63**
	Left-Through		0			0	
	Through	72	0	**275**	18	0	113
	Through-Right		0			0	
	Right	87	0	0	32	0	0
	Left-Through-Right		1			1	
	Left-Right		0			0	
SOUTHBOUND	Left	6	0	**6**	20	0	20
	Left-Through		0			0	
	Through	33	0	87	43	0	**142**
	Through-Right		0			0	
	Right	48	0	0	79	0	0
	Left-Through-Right		1			1	
	Left-Right		0			0	
EASTBOUND	Left	59	0	**59**	14	0	14
	Left-Through		1			1	
	Through	107	0	106	92	0	106
	Through-Right		1			1	
	Right	46	0	106	116	0	**116**
	Left-Through-Right		0			0	
	Left-Right		0			0	
WESTBOUND	Left	56	0	56	31	0	**31**
	Left-Through		1			1	
	Through	137	0	**106**	123	0	81
	Through-Right		1			1	
	Right	19	0	106	7	0	81
	Left-Through-Right		0			0	
	Left-Right		0			0	
CRITICAL VOLUMES			*North-South:*	281		*North-South:*	205
			East-West:	165		*East-West:*	147
			SUM:	446		*SUM:*	352
VOLUME/CAPACITY *(V/C)* RATIO:				0.324			0.256
V/C LESS ATSAC/ATCS ADJUSTMENT:				0.324			0.256
LEVEL OF SERVICE (LOS):				A			A

Version: 1i Beta; 8/4/2011

Level of Service Worksheet
(Circular 212 Method)

I/S #:	PROJECT TITLE:	<Project Name>		
10	North-South Street:	Bledsoe St	East-West Street:	Foothill Blvd
	Scenario:	Existing		
	Count Date:	1/0/1900	Analyst: <Fehr & Peers>	Date: <date>

		AM				PM			
No. of Phases					2				2
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?					0				0
Right Turns: FREE-1, NRTOR-2 or OLA-3?		NB--	0	SB--	0	NB--	0	SB--	0
		EB--	0	WB--	0	EB--	0	WB--	0
ATSAC-1 or ATSAC+ATCS-2?					2				2
Override Capacity					0				0
MOVEMENT		Volume	No. of Lanes	Lane Volume		Volume	No. of Lanes	Lane Volume	
NORTHBOUND	Left	44	1	44		23	1	23	
	Left-Through		0				0		
	Through	88	1	88		38	1	38	
	Through-Right		0				0		
	Right	213	1	**153**		99	1	**57**	
	Left-Through-Right		0				0		
	Left-Right		0				0		
SOUTHBOUND	Left	97	1	**97**		145	1	**145**	
	Left-Through		0				0		
	Through	92	0	120		45	0	63	
	Through-Right		1				1		
	Right	28	0	0		18	0	0	
	Left-Through-Right		0				0		
	Left-Right		0				0		
EASTBOUND	Left	73	1	**73**		18	1	18	
	Left-Through		0				0		
	Through	304	1	169		293	1	**155**	
	Through-Right		1				1		
	Right	33	0	33		16	0	16	
	Left-Through-Right		0				0		
	Left-Right		0				0		
WESTBOUND	Left	120	1	120		84	1	**84**	
	Left-Through		0				0		
	Through	276	1	**218**		281	1	185	
	Through-Right		1				1		
	Right	159	0	159		88	0	88	
	Left-Through-Right		0				0		
	Left-Right		0				0		
CRITICAL VOLUMES			North-South:	250			North-South:	202	
			East-West:	291			East-West:	239	
			SUM:	541			SUM:	441	
VOLUME/CAPACITY (V/C) RATIO:				0.361				0.294	
V/C LESS ATSAC/ATCS ADJUSTMENT:				**0.261**				**0.194**	
LEVEL OF SERVICE (LOS):				**A**				**A**	

Version: 1i Beta; 8/4/2011

Level of Service Worksheet
(Circular 212 Method)

I/S #:	PROJECT TITLE:	<Project Name>		
11	North-South Street:	Bledsoe St	East-West Street:	Glenoaks Blvd
	Scenario:	Existing		
	Count Date:	1/0/1900	Analyst: <Fehr & Peers>	Date: <date>

		AM				PM			
No. of Phases					2				2
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?					0				0
Right Turns: FREE-1, NRTOR-2 or OLA-3?		NB-- 0	SB--		0	NB-- 0	SB--		0
		EB-- 0	WB--		0	EB-- 0	WB--		0
ATSAC-1 or ATSAC+ATCS-2?					2				2
Override Capacity					0				0
MOVEMENT		Volume	No. of Lanes	Lane Volume		Volume	No. of Lanes	Lane Volume	
NORTHBOUND	Left	22	0	**22**		21	0	**21**	
	Left-Through		1				1		
	Through	95	0	117		76	0	97	
	Through-Right		0				0		
	Right	144	1	144		108	1	108	
	Left-Through-Right		0				0		
	Left-Right		0				0		
SOUTHBOUND	Left	61	0	61		42	0	42	
	Left-Through		0				0		
	Through	125	0	**212**		66	0	**132**	
	Through-Right		0				0		
	Right	26	0	0		24	0	0	
	Left-Through-Right		1				1		
	Left-Right		0				0		
EASTBOUND	Left	52	0	**52**		46	0	46	
	Left-Through		1				1		
	Through	632	0	426		522	0	**343**	
	Through-Right		1				1		
	Right	116	0	426		71	0	343	
	Left-Through-Right		0				0		
	Left-Right		0				0		
WESTBOUND	Left	114	0	114		84	0	**84**	
	Left-Through		1				1		
	Through	437	0	**490**		339	0	280	
	Through-Right		1				1		
	Right	86	0	490		53	0	280	
	Left-Through-Right		0				0		
	Left-Right		0				0		
CRITICAL VOLUMES			*North-South:*	234			*North-South:*	153	
			East-West:	542			*East-West:*	427	
			SUM:	776			*SUM:*	580	
VOLUME/CAPACITY *(V/C)* RATIO:				0.517				0.387	
V/C LESS ATSAC/ATCS ADJUSTMENT:				**0.417**				**0.287**	
LEVEL OF SERVICE (LOS):				**A**				**A**	

Version: 1i Beta; 8/4/2011

Level of Service Worksheet
(Circular 212 Method)

I/S #:	PROJECT TITLE:	<Project Name>		
12	North-South Street:	Polk St	East-West Street:	I-210 WB Ramps
	Scenario:	Existing		
	Count Date:	1/0/1900	Analyst: <Fehr & Peers>	Date: <date>

		AM			PM		
No. of Phases				2			2
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?				2			2
Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB-- 0	SB--	0	NB-- 0	SB--	0
	EB-- 0	WB--	0	EB-- 0	WB--	0
ATSAC-1 or ATSAC+ATCS-2?			2			2
Override Capacity			0			0

	MOVEMENT	Volume	No. of Lanes	Lane Volume	Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	221	1	**221**	189	1	**189**
	Left-Through		0			0	
	Through	416	2	208	479	2	240
	Through-Right		0			0	
	Right	0	0	0	0	0	0
	Left-Through-Right		0			0	
	Left-Right		0			0	
SOUTHBOUND	Left	0	0	0	0	0	0
	Left-Through		0			0	
	Through	661	1	**474**	440	1	**273**
	Through-Right		1			1	
	Right	287	0	287	105	0	105
	Left-Through-Right		0			0	
	Left-Right		0			0	
EASTBOUND	Left	0	0	0	0	0	0
	Left-Through		0			0	
	Through	0	0	**0**	0	0	**0**
	Through-Right		0			0	
	Right	0	0	0	0	0	0
	Left-Through-Right		0			0	
	Left-Right		0			0	
WESTBOUND	Left	451	0	451	555	0	555
	Left-Through		1			1	
	Through	2	0	**453**	1	0	**556**
	Through-Right		0			0	
	Right	127	1	127	250	1	250
	Left-Through-Right		0			0	
	Left-Right		0			0	
CRITICAL VOLUMES			*North-South:*	695		*North-South:*	462
			East-West:	453		*East-West:*	556
			SUM:	1148		*SUM:*	1018
VOLUME/CAPACITY *(V/C)* RATIO:				0.765			0.679
V/C LESS ATSAC/ATCS ADJUSTMENT:				**0.665**			**0.579**
LEVEL OF SERVICE (LOS):				**B**			**A**

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Level of Service Worksheet
(Circular 212 Method)

I/S #:	PROJECT TITLE:	<Project Name>		
13	North-South Street:	Polk St	East-West Street:	I-210 EB Ramps
	Scenario:	Existing		
	Count Date:	1/0/1900	Analyst: <Fehr & Peers>	Date: <date>

		AM			PM		
	No. of Phases			2			2
	Opposed Ø'ing: N/S-1, E/W-2 or Both-3?			2			2
	Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB-- 0	SB--	0	NB-- 0	SB--	0
		EB-- 0	WB--	0	EB-- 0	WB--	0
	ATSAC-1 or ATSAC+ATCS-2?			2			2
	Override Capacity			0			0
	MOVEMENT	Volume	No. of Lanes	Lane Volume	Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	0	0	0	0	0	0
	Left-Through		0			0	
	Through	471	1	471	545	1	**521**
	Through-Right		1			1	
	Right	765	0	**765**	496	0	496
	Left-Through-Right		0			0	
	Left-Right		0			0	
SOUTHBOUND	Left	327	1	**327**	185	1	**185**
	Left-Through		0			0	
	Through	820	2	410	800	2	400
	Through-Right		0			0	
	Right	0	0	0	0	0	0
	Left-Through-Right		0			0	
	Left-Right		0			0	
EASTBOUND	Left	107	0	107	122	0	122
	Left-Through		1			1	
	Through	3	0	110	0	0	122
	Through-Right		0			0	
	Right	263	1	**263**	248	1	**248**
	Left-Through-Right		0			0	
	Left-Right		0			0	
WESTBOUND	Left	0	0	0	0	0	0
	Left-Through		0			0	
	Through	0	0	**0**	0	0	**0**
	Through-Right		0			0	
	Right	0	0	0	0	0	0
	Left-Through-Right		0			0	
	Left-Right		0			0	
	CRITICAL VOLUMES		North-South:	1092		North-South:	706
			East-West:	263		East-West:	248
			SUM:	1355		SUM:	954
	VOLUME/CAPACITY (V/C) RATIO:			0.903			0.636
	V/C LESS ATSAC/ATCS ADJUSTMENT:			**0.803**			**0.536**
	LEVEL OF SERVICE (LOS):			**D**			**A**

Version: 1i Beta; 8/4/2011

Level of Service Worksheet
(Circular 212 Method)

I/S #:	PROJECT TITLE:	<Project Name>		
14	North-South Street:	Polk St	East-West Street:	Foothill Blvd
	Scenario:	Existing		
	Count Date:	1/0/1900	Analyst: <Fehr & Peers>	Date: <date>

		AM			PM		
No. of Phases				4			4
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?				0			0
Right Turns: FREE-1, NRTOR-2 or OLA-3?		NB-- 0	SB--	0	NB-- 0	SB--	0
		EB-- 0	WB--	3	EB-- 0	WB--	3
ATSAC-1 or ATSAC+ATCS-2?				2			2
Override Capacity				0			0

	MOVEMENT	Volume	No. of Lanes	Lane Volume	Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	62	1	62	67	1	67
	Left-Through		0			0	
	Through	579	1	**384**	513	1	**368**
	Through-Right		1			1	
	Right	189	0	189	222	0	222
	Left-Through-Right		0			0	
	Left-Right		0			0	
SOUTHBOUND	Left	221	1	**221**	271	1	**271**
	Left-Through		0			0	
	Through	573	1	429	510	1	385
	Through-Right		1			1	
	Right	285	0	285	259	0	259
	Left-Through-Right		0			0	
	Left-Right		0			0	
EASTBOUND	Left	410	1	**410**	223	1	**223**
	Left-Through		0			0	
	Through	522	1	303	369	1	213
	Through-Right		1			1	
	Right	83	0	83	57	0	57
	Left-Through-Right		0			0	
	Left-Right		0			0	
WESTBOUND	Left	152	1	152	165	1	165
	Left-Through		0			0	
	Through	305	2	**153**	376	2	**188**
	Through-Right		0			0	
	Right	237	1	16	282	1	11
	Left-Through-Right		0			0	
	Left-Right		0			0	
CRITICAL VOLUMES			North-South:	605		North-South:	639
			East-West:	563		East-West:	411
			SUM:	1168		SUM:	1050
VOLUME/CAPACITY (V/C) RATIO:				0.849			0.764
V/C LESS ATSAC/ATCS ADJUSTMENT:				**0.749**			**0.664**
LEVEL OF SERVICE (LOS):				**C**			**B**

Version: 1i Beta; 8/4/2011

APPENDIX D: QUEUING ANALYSIS WORKSHEETS

Lane Group	WBL	WBT	NBL	NBT	SBT
Lane Group Flow (vph)	333	305	302	674	516
v/c Ratio	0.65	0.54	0.67	0.36	0.28
Control Delay	23.1	12.0	23.7	10.0	4.0
Queue Delay	0.0	0.0	0.0	0.5	0.0
Total Delay	23.1	12.0	23.7	10.4	4.0
Queue Length 50th (ft)	106	50	73	67	16
Queue Length 95th (ft)	152	95	#228	127	47
Internal Link Dist (ft)		1110		192	297
Turn Bay Length (ft)	520		150		
Base Capacity (vph)	703	730	451	1879	1854
Starvation Cap Reductn	0	0	0	704	0
Spillback Cap Reductn	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0
Reduced v/c Ratio	0.47	0.42	0.67	0.57	0.28

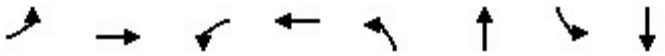
Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBT	EBR	NBT	SBL	SBT
Lane Group Flow (vph)	345	283	923	105	508
v/c Ratio	0.69	0.44	0.65	0.51	0.26
Control Delay	27.1	4.9	16.4	34.4	7.7
Queue Delay	0.0	0.0	0.0	0.0	0.4
Total Delay	27.1	4.9	16.4	34.4	8.1
Queue Length 50th (ft)	107	0	128	36	47
Queue Length 95th (ft)	187	46	192	#81	71
Internal Link Dist (ft)	1050		137		192
Turn Bay Length (ft)		550		220	
Base Capacity (vph)	528	670	1411	206	1957
Starvation Cap Reductn	0	0	0	0	886
Spillback Cap Reductn	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0
Reduced v/c Ratio	0.65	0.42	0.65	0.51	0.47

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Group Flow (vph)	403	253	231	418	9	1009	55	714
v/c Ratio	1.22	0.37	0.66	0.49	0.07	1.48	0.14	0.91
Control Delay	150.2	13.3	30.9	19.3	22.9	248.7	24.0	43.8
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	150.2	13.3	30.9	19.3	22.9	248.7	24.0	43.8
Queue Length 50th (ft)	~197	46	79	64	3	~313	17	138
Queue Length 95th (ft)	#441	129	#241	140	14	#364	53	#310
Internal Link Dist (ft)		1500		424		127		291
Turn Bay Length (ft)	190		80		40		60	
Base Capacity (vph)	329	693	350	853	130	681	395	793
Starvation Cap Reductn	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0
Reduced v/c Ratio	1.22	0.37	0.66	0.49	0.07	1.48	0.14	0.90

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBT	NBT	NBR	SBL	SBT
Lane Group Flow (vph)	233	33	648	1122	154
v/c Ratio	0.47	0.05	0.74	0.97	0.25
Control Delay	31.8	18.2	10.1	47.0	19.5
Queue Delay	0.0	0.0	0.0	0.0	0.0
Total Delay	31.8	18.2	10.1	47.0	19.5
Queue Length 50th (ft)	51	10	33	254	50
Queue Length 95th (ft)	84	30	157	#410	98
Internal Link Dist (ft)	980	121			183
Turn Bay Length (ft)			30	140	
Base Capacity (vph)	1132	601	880	1154	626
Starvation Cap Reductn	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0
Reduced v/c Ratio	0.21	0.05	0.74	0.97	0.25

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	WBT	WBR	NBL	NBT	SBT
Lane Group Flow (vph)	492	138	240	452	1030
v/c Ratio	0.52	0.15	1.94	0.41	0.90
Control Delay	11.5	2.0	467.4	16.9	30.8
Queue Delay	0.0	0.0	0.0	0.0	0.0
Total Delay	11.5	2.0	467.4	16.9	30.8
Queue Length 50th (ft)	104	0	~141	71	164
Queue Length 95th (ft)	176	20	#260	81	#281
Internal Link Dist (ft)	930			194	221
Turn Bay Length (ft)		460			
Base Capacity (vph)	946	908	124	1108	1140
Starvation Cap Reductn	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0
Reduced v/c Ratio	0.52	0.15	1.94	0.41	0.90

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBT	EBR	NBT	SBL	SBT
Lane Group Flow (vph)	119	286	1344	355	891
v/c Ratio	0.27	0.66	0.60	2.31	0.42
Control Delay	17.7	22.7	4.6	615.1	6.8
Queue Delay	0.0	0.0	0.0	0.0	0.4
Total Delay	17.7	22.7	4.6	615.1	7.2
Queue Length 50th (ft)	35	75	41	~218	67
Queue Length 95th (ft)	58	118	120	m#306	m104
Internal Link Dist (ft)	1180		226		194
Turn Bay Length (ft)		690			
Base Capacity (vph)	799	742	2244	154	2115
Starvation Cap Reductn	0	0	0	0	670
Spillback Cap Reductn	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0
Reduced v/c Ratio	0.15	0.39	0.60	2.31	0.62

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

m Volume for 95th percentile queue is metered by upstream signal.

Queues
2: Roxford St & Foothill Fwy WB Ramp

03/07/2019

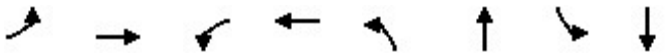
Lane Group	WBL	WBT	NBL	NBT	SBT
Lane Group Flow (vph)	186	174	161	216	844
v/c Ratio	0.51	0.42	0.45	0.10	0.38
Control Delay	25.2	12.0	12.3	5.3	2.6
Queue Delay	0.0	0.0	0.0	0.0	0.0
Total Delay	25.2	12.0	12.3	5.3	2.6
Queue Length 50th (ft)	64	24	24	13	17
Queue Length 95th (ft)	106	63	87	31	50
Internal Link Dist (ft)		1110		192	297
Turn Bay Length (ft)	520		150		
Base Capacity (vph)	703	721	359	2201	2193
Starvation Cap Reductn	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0
Reduced v/c Ratio	0.26	0.24	0.45	0.10	0.38

Intersection Summary

Lane Group	EBT	EBR	NBT	SBL	SBT
Lane Group Flow (vph)	129	193	538	165	366
v/c Ratio	0.34	0.39	0.39	0.55	0.17
Control Delay	21.1	5.7	8.5	32.7	5.8
Queue Delay	0.0	0.0	0.0	0.0	0.0
Total Delay	21.1	5.7	8.5	32.7	5.8
Queue Length 50th (ft)	40	0	35	53	25
Queue Length 95th (ft)	72	39	71	#140	52
Internal Link Dist (ft)	1050		137		192
Turn Bay Length (ft)		550		150	
Base Capacity (vph)	530	608	1413	299	2189
Starvation Cap Reductn	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0
Reduced v/c Ratio	0.24	0.32	0.38	0.55	0.17

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Group Flow (vph)	51	83	182	374	13	972	36	1172
v/c Ratio	0.14	0.13	0.41	0.38	0.12	1.20	0.09	1.46
Control Delay	17.3	6.6	20.7	17.6	24.6	121.6	23.6	236.6
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	17.3	6.6	20.7	17.6	24.6	121.6	23.6	236.6
Queue Length 50th (ft)	13	3	56	54	5	~225	11	~331
Queue Length 95th (ft)	45	34	146	119	18	#255	40	#572
Internal Link Dist (ft)		1500		156		127		291
Turn Bay Length (ft)	190		80		40		60	
Base Capacity (vph)	353	647	442	979	109	813	394	805
Starvation Cap Reductn	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.14	0.13	0.41	0.38	0.12	1.20	0.09	1.46

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBT	NBT	NBR	SBL	SBT
Lane Group Flow (vph)	245	17	123	1254	109
v/c Ratio	0.39	0.05	0.32	0.82	0.13
Control Delay	23.6	21.9	8.0	21.4	11.6
Queue Delay	0.0	0.0	0.0	0.0	0.0
Total Delay	23.6	21.9	8.0	21.4	11.6
Queue Length 50th (ft)	42	5	0	201	23
Queue Length 95th (ft)	71	20	39	#340	52
Internal Link Dist (ft)	980	121			183
Turn Bay Length (ft)			30	140	
Base Capacity (vph)	1506	798	748	1533	832
Starvation Cap Reductn	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0
Reduced v/c Ratio	0.16	0.02	0.16	0.82	0.13

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	WBT	WBR	NBL	NBT	SBT
Lane Group Flow (vph)	604	272	205	521	592
v/c Ratio	1.14	0.41	0.49	0.27	0.31
Control Delay	107.3	4.6	13.9	8.3	6.9
Queue Delay	0.0	0.0	0.0	0.3	0.0
Total Delay	107.3	4.6	13.9	8.5	6.9
Queue Length 50th (ft)	~263	0	54	59	46
Queue Length 95th (ft)	#435	45	85	46	72
Internal Link Dist (ft)	930			194	221
Turn Bay Length (ft)		460			
Base Capacity (vph)	531	665	416	1934	1913
Starvation Cap Reductn	0	0	0	752	0
Spillback Cap Reductn	0	0	0	0	19
Storage Cap Reductn	0	0	0	0	0
Reduced v/c Ratio	1.14	0.41	0.49	0.44	0.31

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBT	EBR	NBT	SBL	SBT
Lane Group Flow (vph)	133	270	1131	201	870
v/c Ratio	0.32	0.65	0.52	0.88	0.40
Control Delay	19.1	22.4	5.5	43.8	4.8
Queue Delay	0.0	0.0	0.0	0.0	0.6
Total Delay	19.1	22.4	5.5	43.8	5.4
Queue Length 50th (ft)	40	69	52	20	22
Queue Length 95th (ft)	66	112	133	m#113	m114
Internal Link Dist (ft)	1180		226		194
Turn Bay Length (ft)		780			
Base Capacity (vph)	796	744	2183	228	2159
Starvation Cap Reductn	0	0	0	0	808
Spillback Cap Reductn	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0
Reduced v/c Ratio	0.17	0.36	0.52	0.88	0.64

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.
m Volume for 95th percentile queue is metered by upstream signal.

Lane Group	WBL	WBT	NBL	NBT	SBT
Lane Group Flow (vph)	359	325	302	889	613
v/c Ratio	0.67	0.61	0.78	0.48	0.33
Control Delay	23.4	17.8	33.7	11.5	4.3
Queue Delay	0.0	0.0	0.0	0.9	0.0
Total Delay	23.4	17.8	33.7	12.4	4.3
Queue Length 50th (ft)	113	78	83	101	21
Queue Length 95th (ft)	167	131	#245	177	55
Internal Link Dist (ft)		1110		192	297
Turn Bay Length (ft)	520		150		
Base Capacity (vph)	703	685	386	1840	1850
Starvation Cap Reductn	0	0	0	621	0
Spillback Cap Reductn	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0
Reduced v/c Ratio	0.51	0.47	0.78	0.73	0.33

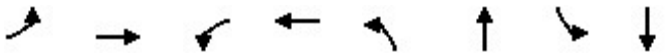
Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBT	EBR	NBT	SBL	SBT
Lane Group Flow (vph)	485	283	998	123	535
v/c Ratio	0.90	0.42	0.75	0.60	0.29
Control Delay	43.6	4.6	20.2	39.3	8.2
Queue Delay	0.0	0.0	0.0	0.0	0.5
Total Delay	43.6	4.6	20.2	39.3	8.7
Queue Length 50th (ft)	167	0	150	43	50
Queue Length 95th (ft)	#331	46	#250	#105	75
Internal Link Dist (ft)	1050		137		192
Turn Bay Length (ft)		550		150	
Base Capacity (vph)	541	680	1322	206	1899
Starvation Cap Reductn	0	0	0	0	878
Spillback Cap Reductn	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0
Reduced v/c Ratio	0.90	0.42	0.75	0.60	0.52

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Group Flow (vph)	403	253	231	418	9	1041	55	726
v/c Ratio	1.23	0.37	0.66	0.49	0.07	1.54	0.14	0.92
Control Delay	153.2	13.3	31.2	19.4	22.9	273.4	24.0	44.7
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	153.2	13.3	31.2	19.4	22.9	273.4	24.0	44.7
Queue Length 50th (ft)	~198	46	79	64	3	~329	17	141
Queue Length 95th (ft)	#441	129	#241	140	14	#384	53	#317
Internal Link Dist (ft)		1500		424		127		291
Turn Bay Length (ft)	190		80		40		60	
Base Capacity (vph)	327	691	348	849	128	677	394	791
Starvation Cap Reductn	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0
Reduced v/c Ratio	1.23	0.37	0.66	0.49	0.07	1.54	0.14	0.92

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBT	NBT	NBR	SBL	SBT
Lane Group Flow (vph)	233	33	648	1134	154
v/c Ratio	0.47	0.05	0.74	0.98	0.25
Control Delay	31.8	18.2	10.1	49.2	19.5
Queue Delay	0.0	0.0	0.0	0.0	0.0
Total Delay	31.8	18.2	10.1	49.2	19.5
Queue Length 50th (ft)	51	10	33	259	50
Queue Length 95th (ft)	84	30	157	#417	98
Internal Link Dist (ft)	980	121			183
Turn Bay Length (ft)			30	140	
Base Capacity (vph)	1132	601	880	1154	626
Starvation Cap Reductn	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0
Reduced v/c Ratio	0.21	0.05	0.74	0.98	0.25

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	WBT	WBR	NBL	NBT	SBT
Lane Group Flow (vph)	514	148	240	453	1037
v/c Ratio	0.54	0.16	1.94	0.41	0.91
Control Delay	11.9	2.0	467.3	16.9	31.6
Queue Delay	0.0	0.0	0.0	0.0	0.0
Total Delay	11.9	2.0	467.3	16.9	31.6
Queue Length 50th (ft)	111	0	~141	70	167
Queue Length 95th (ft)	187	21	#260	81	#284
Internal Link Dist (ft)	930			194	221
Turn Bay Length (ft)		460			
Base Capacity (vph)	946	913	124	1108	1139
Starvation Cap Reductn	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0
Reduced v/c Ratio	0.54	0.16	1.94	0.41	0.91

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBT	EBR	NBT	SBL	SBT
Lane Group Flow (vph)	119	286	1352	359	916
v/c Ratio	0.27	0.66	0.60	2.41	0.44
Control Delay	17.6	23.0	4.7	665.4	6.9
Queue Delay	0.0	0.0	0.0	0.0	0.4
Total Delay	17.6	23.0	4.7	665.4	7.3
Queue Length 50th (ft)	35	76	42	~223	71
Queue Length 95th (ft)	58	120	122	m#311	m109
Internal Link Dist (ft)	1180		226		194
Turn Bay Length (ft)		690			
Base Capacity (vph)	799	739	2241	149	2105
Starvation Cap Reductn	0	0	0	0	657
Spillback Cap Reductn	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0
Reduced v/c Ratio	0.15	0.39	0.60	2.41	0.63

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

m Volume for 95th percentile queue is metered by upstream signal.

Lane Group	WBL	WBT	NBL	NBT	SBT
Lane Group Flow (vph)	196	180	161	292	1118
v/c Ratio	0.52	0.41	0.67	0.13	0.50
Control Delay	24.9	10.4	29.0	5.7	3.3
Queue Delay	0.0	0.0	0.0	0.0	0.0
Total Delay	24.9	10.4	29.0	5.7	3.3
Queue Length 50th (ft)	67	20	31	18	27
Queue Length 95th (ft)	108	58	#146	43	73
Internal Link Dist (ft)		1110		192	297
Turn Bay Length (ft)	520		150		
Base Capacity (vph)	703	725	240	2175	2242
Starvation Cap Reductn	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0
Reduced v/c Ratio	0.28	0.25	0.67	0.13	0.50

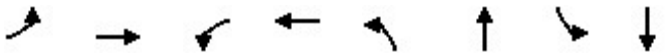
Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBT	EBR	NBT	SBL	SBT
Lane Group Flow (vph)	179	193	564	214	445
v/c Ratio	0.43	0.37	0.47	0.59	0.21
Control Delay	21.8	5.2	10.0	34.4	6.5
Queue Delay	0.0	0.0	0.0	0.0	0.0
Total Delay	21.8	5.2	10.0	34.4	6.5
Queue Length 50th (ft)	55	0	44	67	34
Queue Length 95th (ft)	94	38	75	#200	64
Internal Link Dist (ft)	1050		137		192
Turn Bay Length (ft)		550		150	
Base Capacity (vph)	532	609	1304	361	2124
Starvation Cap Reductn	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0
Reduced v/c Ratio	0.34	0.32	0.43	0.59	0.21

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Group Flow (vph)	51	83	182	374	13	983	36	1204
v/c Ratio	0.14	0.13	0.41	0.38	0.12	1.22	0.09	1.50
Control Delay	17.3	6.6	20.7	17.6	24.6	129.7	23.6	255.0
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	17.3	6.6	20.7	17.6	24.6	129.7	23.6	255.0
Queue Length 50th (ft)	13	3	56	54	5	~233	11	~347
Queue Length 95th (ft)	45	34	146	119	18	#267	40	#592
Internal Link Dist (ft)		1500		156		127		291
Turn Bay Length (ft)	190		80		40		60	
Base Capacity (vph)	353	647	442	979	109	809	394	803
Starvation Cap Reductn	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.14	0.13	0.41	0.38	0.12	1.22	0.09	1.50

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBT	NBT	NBR	SBL	SBT
Lane Group Flow (vph)	245	17	123	1287	109
v/c Ratio	0.39	0.05	0.32	0.84	0.13
Control Delay	23.6	21.9	8.0	22.5	11.6
Queue Delay	0.0	0.0	0.0	0.0	0.0
Total Delay	23.6	21.9	8.0	22.5	11.6
Queue Length 50th (ft)	42	5	0	209	23
Queue Length 95th (ft)	71	20	39	#355	52
Internal Link Dist (ft)	980	121			183
Turn Bay Length (ft)			30	140	
Base Capacity (vph)	1506	798	748	1533	832
Starvation Cap Reductn	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0
Reduced v/c Ratio	0.16	0.02	0.16	0.84	0.13

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	WBT	WBR	NBL	NBT	SBT
Lane Group Flow (vph)	612	275	205	524	603
v/c Ratio	1.15	0.41	0.50	0.27	0.32
Control Delay	112.9	4.6	14.1	8.2	7.0
Queue Delay	0.0	0.0	0.0	0.3	0.0
Total Delay	112.9	4.6	14.1	8.5	7.0
Queue Length 50th (ft)	~269	0	54	58	48
Queue Length 95th (ft)	#442	45	85	46	74
Internal Link Dist (ft)	930			194	221
Turn Bay Length (ft)		460			
Base Capacity (vph)	531	667	410	1934	1914
Starvation Cap Reductn	0	0	0	758	0
Spillback Cap Reductn	0	0	0	0	21
Storage Cap Reductn	0	0	0	0	0
Reduced v/c Ratio	1.15	0.41	0.50	0.45	0.32

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBT	EBR	NBT	SBL	SBT
Lane Group Flow (vph)	133	270	1158	211	878
v/c Ratio	0.32	0.64	0.53	0.97	0.41
Control Delay	19.0	22.4	5.6	61.6	4.9
Queue Delay	0.0	0.0	0.0	0.0	0.6
Total Delay	19.0	22.4	5.6	61.6	5.4
Queue Length 50th (ft)	40	69	54	46	22
Queue Length 95th (ft)	66	112	137	m#125	m116
Internal Link Dist (ft)	1180		226		194
Turn Bay Length (ft)		780			
Base Capacity (vph)	796	743	2181	217	2155
Starvation Cap Reductn	0	0	0	0	799
Spillback Cap Reductn	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0
Reduced v/c Ratio	0.17	0.36	0.53	0.97	0.65

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.
m Volume for 95th percentile queue is metered by upstream signal.

Lane Group	WBL	WBT	NBL	NBT	SBT
Lane Group Flow (vph)	414	377	410	940	652
v/c Ratio	0.72	0.66	1.20	0.54	0.36
Control Delay	23.8	19.3	139.5	13.0	4.7
Queue Delay	0.0	0.0	0.0	1.2	0.0
Total Delay	23.8	19.3	139.5	14.2	4.7
Queue Length 50th (ft)	127	95	~192	120	25
Queue Length 95th (ft)	200	163	#354	190	58
Internal Link Dist (ft)		861		192	297
Turn Bay Length (ft)	520		150		
Base Capacity (vph)	703	683	341	1746	1788
Starvation Cap Reductn	0	0	0	539	0
Spillback Cap Reductn	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0
Reduced v/c Ratio	0.59	0.55	1.20	0.78	0.36

Intersection Summary

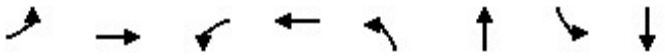
~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBT	EBR	NBT	SBL	SBT
Lane Group Flow (vph)	511	435	1169	130	632
v/c Ratio	0.97	0.68	0.87	0.63	0.33
Control Delay	56.6	14.8	26.9	41.5	8.5
Queue Delay	0.0	0.0	0.0	0.0	0.6
Total Delay	56.6	14.8	26.9	41.5	9.1
Queue Length 50th (ft)	180	57	196	46	61
Queue Length 95th (ft)	#354	149	#331	#113	90
Internal Link Dist (ft)	961		137		192
Turn Bay Length (ft)		550		150	
Base Capacity (vph)	528	637	1343	206	1899
Starvation Cap Reductn	0	0	0	0	847
Spillback Cap Reductn	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0
Reduced v/c Ratio	0.97	0.68	0.87	0.63	0.60

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Group Flow (vph)	434	273	252	470	10	1287	67	817
v/c Ratio	1.45	0.40	0.76	0.56	0.09	1.90	0.17	1.03
Control Delay	244.5	14.0	37.8	20.7	23.4	431.5	24.3	69.3
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	244.5	14.0	37.8	20.7	23.4	431.5	24.3	69.3
Queue Length 50th (ft)	~236	52	91	75	3	~442	21	166
Queue Length 95th (ft)	#491	141	#278	160	15	#529	62	#373
Internal Link Dist (ft)		332		424		127		291
Turn Bay Length (ft)			80		40		60	
Base Capacity (vph)	299	691	333	837	117	678	394	790
Starvation Cap Reductn	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0
Reduced v/c Ratio	1.45	0.40	0.76	0.56	0.09	1.90	0.17	1.03

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBT	NBT	NBR	SBL	SBT
Lane Group Flow (vph)	283	35	697	1260	166
v/c Ratio	0.97dl	0.06	0.80	1.10	0.27
Control Delay	32.7	18.9	13.9	86.5	20.3
Queue Delay	0.0	0.0	0.0	0.0	0.0
Total Delay	32.7	18.9	13.9	86.5	20.3
Queue Length 50th (ft)	63	11	53	~347	55
Queue Length 95th (ft)	100	32	#272	#500	108
Internal Link Dist (ft)	318	121			183
Turn Bay Length (ft)			30	140	
Base Capacity (vph)	1120	594	875	1141	619
Starvation Cap Reductn	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0
Reduced v/c Ratio	0.25	0.06	0.80	1.10	0.27

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

dl Defacto Left Lane. Recode with 1 though lane as a left lane.

Lane Group	WBT	WBR	NBL	NBT	SBT
Lane Group Flow (vph)	601	188	303	625	1197
v/c Ratio	0.64	0.21	2.44	0.56	1.05
Control Delay	13.7	5.2	685.8	18.6	63.2
Queue Delay	0.0	0.0	0.0	0.6	15.7
Total Delay	13.7	5.2	685.8	19.2	78.8
Queue Length 50th (ft)	139	18	~155	80	~241
Queue Length 95th (ft)	234	46	m#267	m114	#358
Internal Link Dist (ft)	906			194	221
Turn Bay Length (ft)		460			
Base Capacity (vph)	946	879	124	1108	1137
Starvation Cap Reductn	0	0	0	195	0
Spillback Cap Reductn	0	0	0	0	41
Storage Cap Reductn	0	0	0	0	0
Reduced v/c Ratio	0.64	0.21	2.44	0.68	1.09

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

m Volume for 95th percentile queue is metered by upstream signal.

Lane Group	EBT	EBR	NBT	SBL	SBT
Lane Group Flow (vph)	170	336	1671	399	1082
v/c Ratio	0.32	0.68	0.80	3.24	0.56
Control Delay	16.1	23.1	11.9	1029.1	8.7
Queue Delay	0.0	0.0	0.0	0.0	0.7
Total Delay	16.1	23.1	11.9	1029.1	9.5
Queue Length 50th (ft)	47	96	124	~262	100
Queue Length 95th (ft)	71	140	#361	m#326	m125
Internal Link Dist (ft)	983		226		194
Turn Bay Length (ft)		780			
Base Capacity (vph)	798	727	2082	123	1930
Starvation Cap Reductn	0	0	0	0	483
Spillback Cap Reductn	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0
Reduced v/c Ratio	0.21	0.46	0.80	3.24	0.75

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

m Volume for 95th percentile queue is metered by upstream signal.

Lane Group	WBL	WBT	NBL	NBT	SBT
Lane Group Flow (vph)	220	207	238	309	1183
v/c Ratio	0.56	0.45	1.14	0.14	0.53
Control Delay	25.0	10.9	125.8	6.2	3.7
Queue Delay	0.0	0.0	0.0	0.0	0.0
Total Delay	25.0	10.9	125.8	6.2	3.7
Queue Length 50th (ft)	74	26	~101	21	31
Queue Length 95th (ft)	116	66	#178	47	84
Internal Link Dist (ft)		861		192	297
Turn Bay Length (ft)	520		150		
Base Capacity (vph)	703	733	209	2134	2229
Starvation Cap Reductn	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0
Reduced v/c Ratio	0.31	0.28	1.14	0.14	0.53

Intersection Summary

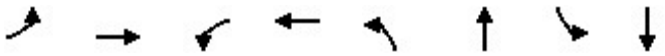
~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBT	EBR	NBT	SBL	SBT
Lane Group Flow (vph)	189	274	730	227	497
v/c Ratio	0.43	0.46	0.58	0.66	0.24
Control Delay	21.4	5.3	10.6	40.7	6.9
Queue Delay	0.0	0.0	0.0	0.0	0.0
Total Delay	21.4	5.3	10.6	40.7	6.9
Queue Length 50th (ft)	56	0	58	74	41
Queue Length 95th (ft)	101	46	96	#213	70
Internal Link Dist (ft)	961		137		192
Turn Bay Length (ft)		550		150	
Base Capacity (vph)	530	665	1339	343	2082
Starvation Cap Reductn	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0
Reduced v/c Ratio	0.36	0.41	0.55	0.66	0.24

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Group Flow (vph)	55	89	218	446	14	1165	48	1421
v/c Ratio	0.18	0.14	0.50	0.45	0.13	1.43	0.12	1.77
Control Delay	18.0	6.5	22.6	18.4	24.8	222.4	23.8	376.3
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	18.0	6.5	22.6	18.4	24.8	222.4	23.8	376.3
Queue Length 50th (ft)	14	3	69	67	5	~314	15	~448
Queue Length 95th (ft)	48	35	178	143	19	#390	49	#721
Internal Link Dist (ft)		332		156		127		291
Turn Bay Length (ft)			80		40		60	
Base Capacity (vph)	312	650	439	981	109	815	394	801
Starvation Cap Reductn	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.18	0.14	0.50	0.45	0.13	1.43	0.12	1.77

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBT	NBT	NBR	SBL	SBT
Lane Group Flow (vph)	291	18	133	1529	117
v/c Ratio	0.45	0.05	0.34	1.00	0.14
Control Delay	24.0	22.4	8.1	45.2	12.1
Queue Delay	0.0	0.0	0.0	0.0	0.0
Total Delay	24.0	22.4	8.1	45.2	12.1
Queue Length 50th (ft)	50	6	0	~324	25
Queue Length 95th (ft)	83	21	40	#473	57
Internal Link Dist (ft)	318	121			183
Turn Bay Length (ft)			30	140	
Base Capacity (vph)	1495	792	750	1522	826
Starvation Cap Reductn	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0
Reduced v/c Ratio	0.19	0.02	0.18	1.00	0.14

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	WBT	WBR	NBL	NBT	SBT
Lane Group Flow (vph)	718	313	248	703	797
v/c Ratio	1.35	0.51	0.79	0.36	0.42
Control Delay	194.1	9.8	29.9	7.6	7.8
Queue Delay	0.2	0.0	0.0	0.5	0.0
Total Delay	194.4	9.8	29.9	8.1	7.8
Queue Length 50th (ft)	~352	30	81	50	68
Queue Length 95th (ft)	#535	89	m#166	58	103
Internal Link Dist (ft)	906			194	221
Turn Bay Length (ft)		460			
Base Capacity (vph)	531	617	312	1934	1913
Starvation Cap Reductn	0	0	0	733	0
Spillback Cap Reductn	16	0	0	0	83
Storage Cap Reductn	0	0	0	0	0
Reduced v/c Ratio	1.39	0.51	0.79	0.59	0.44

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

m Volume for 95th percentile queue is metered by upstream signal.

Lane Group	EBT	EBR	NBT	SBL	SBT
Lane Group Flow (vph)	190	325	1412	240	1092
v/c Ratio	0.36	0.67	0.70	1.94	0.56
Control Delay	17.1	23.1	10.7	452.9	7.9
Queue Delay	0.0	0.0	0.0	0.0	0.7
Total Delay	17.1	23.1	10.7	452.9	8.6
Queue Length 50th (ft)	54	93	116	~130	94
Queue Length 95th (ft)	80	136	#308	m#184	m156
Internal Link Dist (ft)	983		226		194
Turn Bay Length (ft)		780			
Base Capacity (vph)	796	726	2008	124	1952
Starvation Cap Reductn	0	0	0	0	492
Spillback Cap Reductn	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0
Reduced v/c Ratio	0.24	0.45	0.70	1.94	0.75

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

m Volume for 95th percentile queue is metered by upstream signal.

APPENDIX E: SIGNAL WARRANT ANALYSIS

EXISTING

FEHR PEERS

Project	Olive View-UCLA MP TIA
Major Street	Olive View Drive
Scenario	Existing Conditions
Minor Street	Bledsoe St
Peak Hour	AM

Turn Movement Volumes

	NB	SB	EB	WB
Left	114	6	58	55
Through	71	33	106	135
Right	86	47	45	19
Total	271	86	209	209

Major Street Direction

	North/South
x	East/West

Intersection Geometry

Number of Approach Lanes for Minor Street	1
Total Approaches	4

Worst Case Delay for Minor Street

Stopped Delay (seconds per vehicle)	12.1
Approach with Worst Case Delay	NB
Total Vehicles on Approach	271

Warrant 3A, Peak Hour			
	Peak Hour Delay on Minor Approach (vehicle-hours)	**Peak Hour Volume on Minor Approach (vph)**	**Peak Hour Entering Volume Serviced (vph)**
Existing Conditions	**0.9**	**271**	**775**
Limiting Value	**4**	**100**	**800**
Condition Satisfied?	**Not Met**	**Met**	**Not Met**
Warrant Met	**NO**		

FEHR PEERS

Major Street	Olive View Drive	Project	Olive View-UCLA MP TIA
Minor Street	Bledsoe St	Scenario	Existing Conditions
		Peak Hour	PM

Turn Movement Volumes

	NB	SB	EB	WB
Left	62	20	14	31
Through	18	42	91	121
Right	32	78	114	7
Total	112	140	219	159

Major Street Direction

	North/South
x	East/West

Intersection Geometry

Number of Approach Lanes for Minor Street	1
Total Approaches	4

Worst Case Delay for Minor Street

Stopped Delay (seconds per vehicle)	9.2
Approach with Worst Case Delay	SB
Total Vehicles on Approach	112

Warrant 3A, Peak Hour			
	Peak Hour Delay on Minor Approach (vehicle-hours)	**Peak Hour Volume on Minor Approach (vph)**	**Peak Hour Entering Volume Serviced (vph)**
Existing Conditions	**0.3**	**140**	**630**
Limiting Value	**4**	**100**	**800**
Condition Satisfied?	**Not Met**	**Met**	**Not Met**
Warrant Met	**NO**		

FEHR PEERS

Major Street	Roxford St	Project	Olive View-UCLA MP TIA
Minor Street	I-210 EB Ramps	Scenario	Existing Conditions
		Peak Hour	AM

Turn Movement Volumes

	NB	SB	EB	WB
Left	0	96	313	0
Through	567	461	0	0
Right	270	0	256	0
Total	837	557	569	0

Major Street Direction

x	North/South
	East/West

Intersection Geometry

Number of Approach Lanes for Minor Street	2
Total Approaches	3

Worst Case Delay for Minor Street

Stopped Delay (seconds per vehicle)	213.3
Approach with Worst Case Delay	EB
Total Vehicles on Approach	569

Warrant 3A, Peak Hour			
	Peak Hour Delay on Minor Approach (vehicle-hours)	**Peak Hour Volume on Minor Approach (vph)**	**Peak Hour Entering Volume Serviced (vph)**
Existing Conditions	**33.7**	**569**	**1,963**
Limiting Value	**5**	**150**	**650**
Condition Satisfied?	**Met**	**Met**	**Met**
Warrant Met	**YES**		

FEHR PEERS

Major Street	Roxford St	Project	Olive View-UCLA MP TIA
Minor Street	I-210 EB Ramps	Scenario	Existing Conditions
		Peak Hour	PM

Turn Movement Volumes

	NB	SB	EB	WB
Left	0	150	115	0
Through	242	332	2	0
Right	247	0	176	0
Total	489	482	293	0

Major Street Direction

x	North/South
	East/West

Intersection Geometry

Number of Approach Lanes for Minor Street	1
Total Approaches	3

Worst Case Delay for Minor Street

Stopped Delay (seconds per vehicle)	18.6
Approach with Worst Case Delay	EB
Total Vehicles on Approach	293

Warrant 3A, Peak Hour			
	Peak Hour Delay on Minor Approach (vehicle-hours)	**Peak Hour Volume on Minor Approach (vph)**	**Peak Hour Entering Volume Serviced (vph)**
Existing Conditions	**1.5**	**293**	**1,264**
Limiting Value	**4**	**100**	**650**
Condition Satisfied?	**Not Met**	**Met**	**Met**
Warrant Met	**NO**		

EXISTING PLUS PROJECT

FEHR PEERS

Major Street	Olive View Drive	Project	Olive View-UCLA MP TIA
Minor Street	Bledsoe St	Scenario	Existing plus Project Conditions
		Peak Hour	AM

Turn Movement Volumes

	NB	SB	EB	WB
Left	132	7	88	57
Through	79	37	119	148
Right	89	61	53	22
Total	300	105	260	227

Major Street Direction

	North/South
x	East/West

Intersection Geometry

Number of Approach Lanes for Minor Street	1
Total Approaches	4

Worst Case Delay for Minor Street

Stopped Delay (seconds per vehicle)	14
Approach with Worst Case Delay	NB
Total Vehicles on Approach	300

Warrant 3A, Peak Hour			
	Peak Hour Delay on Minor Approach (vehicle-hours)	**Peak Hour Volume on Minor Approach (vph)**	**Peak Hour Entering Volume Serviced (vph)**
Existing plus Project Conditions	**1.2**	**300**	**892**
Limiting Value	**4**	**100**	**800**
Condition Satisfied?	**Not Met**	**Met**	**Met**
Warrant Met	**NO**		

FEHR PEERS

Major Street	Olive View Drive	Project	Olive View-UCLA MP TIA
Minor Street	Bledsoe St	Scenario	Existing plus Project Conditions
		Peak Hour	PM

Turn Movement Volumes

	NB	SB	EB	WB
Left	71	23	30	34
Through	22	50	104	134
Right	34	105	131	8
Total	127	178	265	176

Major Street Direction

	North/South
x	East/West

Intersection Geometry

Number of Approach Lanes for Minor Street	1
Total Approaches	4

Worst Case Delay for Minor Street

Stopped Delay (seconds per vehicle)	10
Approach with Worst Case Delay	SB
Total Vehicles on Approach	178

Warrant 3A, Peak Hour			
	Peak Hour Delay on Minor Approach (vehicle-hours)	**Peak Hour Volume on Minor Approach (vph)**	**Peak Hour Entering Volume Serviced (vph)**
Existing plus Project Conditions	**0.5**	**178**	**746**
Limiting Value	**4**	**100**	**800**
Condition Satisfied?	**Not Met**	**Met**	**Not Met**
Warrant Met	**NO**		

FEHR PEERS

Major Street	Roxford St	Project	Olive View-UCLA MP TIA
Minor Street	I-210 EB Ramps	Scenario	Existing plus Project Conditions
		Peak Hour	AM

Turn Movement Volumes

	NB	SB	EB	WB
Left	0	107	438	0
Through	590	472	0	0
Right	270	0	256	0
Total	860	579	694	0

Major Street Direction

x	North/South
	East/West

Intersection Geometry

Number of Approach Lanes for Minor Street	2
Total Approaches	3

Worst Case Delay for Minor Street

Stopped Delay (seconds per vehicle)	498.6
Approach with Worst Case Delay	EB
Total Vehicles on Approach	694

Warrant 3A, Peak Hour			
	Peak Hour Delay on Minor Approach (vehicle-hours)	**Peak Hour Volume on Minor Approach (vph)**	**Peak Hour Entering Volume Serviced (vph)**
Existingplus Project Conditions	**96.1**	**694**	**2,133**
Limiting Value	**5**	**150**	**650**
Condition Satisfied?	**Met**	**Met**	**Met**
Warrant Met	**YES**		

FEHR PEERS

Major Street	Roxford St	Project	Olive View-UCLA MP TIA
Minor Street	I-210 EB Ramps	Scenario	Existing plus Project Conditions
		Peak Hour	PM

Turn Movement Volumes

	NB	SB	EB	WB
Left	0	172	182	0
Through	254	354	2	0
Right	247	0	176	0
Total	501	526	360	0

Major Street Direction

x	North/South
	East/West

Intersection Geometry

Number of Approach Lanes for Minor Street	2
Total Approaches	3

Worst Case Delay for Minor Street

Stopped Delay (seconds per vehicle)	44.5
Approach with Worst Case Delay	EB
Total Vehicles on Approach	360

Warrant 3A, Peak Hour			
	Peak Hour Delay on Minor Approach (vehicle-hours)	**Peak Hour Volume on Minor Approach (vph)**	**Peak Hour Entering Volume Serviced (vph)**
Existing plus Project Conditions	**4.5**	**360**	**1,387**
Limiting Value	**5**	**150**	**650**
Condition Satisfied?	**Not Met**	**Met**	**Met**
Warrant Met	**NO**		

CUMULATIVE

FEHR PEERS

Project	Olive View-UCLA MP TIA
Major Street	Olive View Drive
Scenario	Cumulative Conditions
Minor Street	Bledsoe St
Peak Hour	AM

Turn Movement Volumes

	NB	SB	EB	WB
Left	124	7	63	60
Through	77	36	116	147
Right	94	51	49	21
Total	295	94	228	228

Major Street Direction

	North/South
x	East/West

Intersection Geometry

Number of Approach Lanes for Minor Street	1
Total Approaches	4

Worst Case Delay for Minor Street

Stopped Delay (seconds per vehicle)	13.2
Approach with Worst Case Delay	NB
Total Vehicles on Approach	295

Warrant 3A, Peak Hour			
	Peak Hour Delay on Minor Approach (vehicle-hours)	**Peak Hour Volume on Minor Approach (vph)**	**Peak Hour Entering Volume Serviced (vph)**
Cumulative Conditions	**1.1**	**295**	**845**
Limiting Value	**4**	**100**	**800**
Condition Satisfied?	**Not Met**	**Met**	**Met**
Warrant Met	**NO**		

FEHR PEERS

Major Street	Olive View Drive	Project	Olive View-UCLA MP TIA
Minor Street	Bledsoe St	Scenario	Cumulative Conditions
		Peak Hour	PM

Turn Movement Volumes

	NB	SB	EB	WB
Left	68	22	15	34
Through	20	46	99	132
Right	35	85	124	8
Total	123	153	238	174

Major Street Direction

	North/South
x	East/West

Intersection Geometry

Number of Approach Lanes for Minor Street	1
Total Approaches	4

Worst Case Delay for Minor Street

Stopped Delay (seconds per vehicle)	9.5
Approach with Worst Case Delay	SB
Total Vehicles on Approach	123

Warrant 3A, Peak Hour			
	Peak Hour Delay on Minor Approach (vehicle-hours)	**Peak Hour Volume on Minor Approach (vph)**	**Peak Hour Entering Volume Serviced (vph)**
Cumulative Conditions	**0.3**	**153**	**688**
Limiting Value	**4**	**100**	**800**
Condition Satisfied?	**Not Met**	**Met**	**Not Met**
Warrant Met	**NO**		

FEHR PEERS

Major Street	Roxford St	Project	Olive View-UCLA MP TIA
Minor Street	I-210 EB Ramps	Scenario	Cumulative Conditions
		Peak Hour	AM

Turn Movement Volumes

	NB	SB	EB	WB
Left	0	105	342	0
Through	697	556	0	0
Right	309	0	399	0
Total	1,006	661	741	0

Major Street Direction

x	North/South
	East/West

Intersection Geometry

Number of Approach Lanes for Minor Street	2
Total Approaches	3

Worst Case Delay for Minor Street

Stopped Delay (seconds per vehicle)	370.1
Approach with Worst Case Delay	EB
Total Vehicles on Approach	741

Warrant 3A, Peak Hour			
	Peak Hour Delay on Minor Approach (vehicle-hours)	**Peak Hour Volume on Minor Approach (vph)**	**Peak Hour Entering Volume Serviced (vph)**
Cumulative Conditions	**76.2**	**741**	**2,408**
Limiting Value	**5**	**150**	**650**
Condition Satisfied?	**Met**	**Met**	**Met**
Warrant Met	**YES**		

FEHR PEERS

Major Street	Roxford St	Project	Olive View-UCLA MP TIA
Minor Street	I-210 EB Ramps	Scenario	Cumulative Conditions
		Peak Hour	PM

Turn Movement Volumes

	NB	SB	EB	WB
Left	0	164	125	0
Through	324	384	2	0
Right	325	0	252	0
Total	649	548	379	0

Major Street Direction

	North/South
x	East/West

Intersection Geometry

Number of Approach Lanes for Minor Street	2
Total Approaches	3

Worst Case Delay for Minor Street

Stopped Delay (seconds per vehicle)	25.4
Approach with Worst Case Delay	EB
Total Vehicles on Approach	379

Warrant 3A, Peak Hour			
	Peak Hour Delay on Minor Approach (vehicle-hours)	**Peak Hour Volume on Minor Approach (vph)**	**Peak Hour Entering Volume Serviced (vph)**
Cumulative Conditions	**2.7**	**649**	**1,576**
Limiting Value	**5**	**150**	**650**
Condition Satisfied?	**Not Met**	**Met**	**Met**
Warrant Met	**NO**		

CUMULATIVE PLUS PROJECT

FEHR PEERS

Major Street	Olive View Drive	Project	Olive View-UCLA MP TIA
Minor Street	Bledsoe St	Scenario	Cumulative plus Project Conditions
		Peak Hour	AM

Turn Movement Volumes

	NB	SB	EB	WB
Left	142	8	93	62
Through	85	40	129	160
Right	97	65	57	24
Total	324	113	279	246

Major Street Direction

	North/South
x	East/West

Intersection Geometry

Number of Approach Lanes for Minor Street	1
Total Approaches	4

Worst Case Delay for Minor Street

Stopped Delay (seconds per vehicle)	15.6
Approach with Worst Case Delay	NB
Total Vehicles on Approach	324

Warrant 3A, Peak Hour			
	Peak Hour Delay on Minor Approach (vehicle-hours)	**Peak Hour Volume on Minor Approach (vph)**	**Peak Hour Entering Volume Serviced (vph)**
Cumulative plus Project Conditions	**1.4**	**324**	**962**
Limiting Value	**4**	**100**	**800**
Condition Satisfied?	**Not Met**	**Met**	**Met**
Warrant Met	**NO**		

FEHR PEERS

Major Street	Olive View Drive	Project	Olive View-UCLA MP TIA
Minor Street	Bledsoe St	Scenario	Cumulative plus Project Conditions
		Peak Hour	PM

Turn Movement Volumes

	NB	SB	EB	WB
Left	77	25	31	37
Through	24	54	112	145
Right	37	112	141	9
Total	138	191	284	191

Major Street Direction

	North/South
x	East/West

Intersection Geometry

Number of Approach Lanes for Minor Street	1
Total Approaches	4

Worst Case Delay for Minor Street

Stopped Delay (seconds per vehicle)	10.5
Approach with Worst Case Delay	SB
Total Vehicles on Approach	191

Warrant 3A, Peak Hour			
	Peak Hour Delay on Minor Approach (vehicle-hours)	**Peak Hour Volume on Minor Approach (vph)**	**Peak Hour Entering Volume Serviced (vph)**
Cumulative plus Project Conditions	**0.6**	**191**	**804**
Limiting Value	**4**	**100**	**800**
Condition Satisfied?	**Not Met**	**Met**	**Met**
Warrant Met	**NO**		

FEHR PEERS

Major Street	Roxford St	Project	Olive View-UCLA MP TIA
Minor Street	I-210 EB Ramps	Scenario	Cumulative plus Project Conditions
		Peak Hour	AM

Turn Movement Volumes

	NB	SB	EB	WB
Left	0	116	467	0
Through	720	567	0	0
Right	309	0	399	0
Total	1,029	683	866	0

Major Street Direction

x	North/South
	East/West

Intersection Geometry

Number of Approach Lanes for Minor Street	2
Total Approaches	3

Worst Case Delay for Minor Street

Stopped Delay (seconds per vehicle)	750.6
Approach with Worst Case Delay	EB
Total Vehicles on Approach	866

Warrant 3A, Peak Hour			
	Peak Hour Delay on Minor Approach (vehicle-hours)	**Peak Hour Volume on Minor Approach (vph)**	**Peak Hour Entering Volume Serviced (vph)**
Cumulative plus Project Conditions	**180.6**	**866**	**2,578**
Limiting Value	**5**	**150**	**650**
Condition Satisfied?	**Met**	**Met**	**Met**
Warrant Met	**YES**		

FEHR PEERS

Project	Olive View-UCLA MP TIA
Major Street	Roxford St
Scenario	Cumulative plus Project Conditions
Minor Street	I-210 EB Ramps
Peak Hour	PM

Turn Movement Volumes

	NB	SB	EB	WB
Left	0	186	192	0
Through	336	406	2	0
Right	325	0	252	0
Total	661	592	446	0

Major Street Direction

	North/South
x	East/West

Intersection Geometry

Number of Approach Lanes for Minor Street	2
Total Approaches	3

Worst Case Delay for Minor Street

Stopped Delay (seconds per vehicle)	85.7
Approach with Worst Case Delay	EB
Total Vehicles on Approach	446

Warrant 3A, Peak Hour			
	Peak Hour Delay on Minor Approach (vehicle-hours)	**Peak Hour Volume on Minor Approach (vph)**	**Peak Hour Entering Volume Serviced (vph)**
Cumulative plus Project Conditions	**10.6**	**661**	**1,699**
Limiting Value	**5**	**150**	**650**
Condition Satisfied?	**Met**	**Met**	**Met**
Warrant Met	**YES**		

APPENDIX F: MEMORANDUM OF UNDERSTANDING

SCOPING FOR TRAFFIC STUDY

Project Name:	Olive View-UCLA Medical Center Master Plan

This Memorandum of Understanding (MOU) acknowledges Los Angeles County Department of Public Works, Traffic and Lighting Division (TLD) requirements of traffic impact analysis for the project and is subject to change:

Project Address:	14445 Olive View Dr, Los Angeles, CA 91342		
Project Description:	The proposed project is an update to the Olive View-UCLA Medical Center Master Plan. The project includes both the redevelopment of existing land uses and the construction of new related land uses (research and development space). The master plan will be implemented in two tiers. Only Tier 1 will be analyzed quantitatively as part of this study. The attached Figures 1 and 2 show the existing uses on the site and the Tier 1 boundaries, respectively. The net change on the project site would be composed of: • Addition of 43,700 square feet of administrative office • Addition of 26,000 square feet of central utilities • Addition of 312,700 square feet of hospital • Addition of 20,000 square feet of community center • Addition of 18,800 square feet of warehouse/storage space • 80 units of crisis residential housing and 48 units of recuperative housing		
City:	Los Angeles		
Project Build-out Year:	2035	**Ambient or CMP Growth Rate Per Year:**	0.46%
Closest Intersection (Xtn) to the Project			
Xtn N/S Street Name:	Olive View Drive		
Xtn E/W Street Name:	Bledsoe Drive		
Thomas Guide Pg+Grid:	481, J1 482, A1	**Los Angeles County Supervisorial District:**	5

	Consultant	Developer
Company:	Fehr & Peers	Olive View-UCLA Medical Ctr
Name:	Netai Basu	Hoda El Sokkary, P.E., M.Sc.
Address:	600 Wilshire Blvd, Suite 1050	900 S. Fremont Ave.
City, State, Zip Code:	Los Angeles, CA 90017	Alhambra, CA 91803
Phone #:	(213) 261-3073	(626) 300-2332
Fax #:		
Email:	nbasu@fehrandpeers.com	HELSOKKARY@dpw.lacounty.gov

For General Questions, please contact Traffic Studies Section at (626) 300-4740

By: GS
Date: 1/24/19

SCOPING FOR TRAFFIC STUDY

Project Name:	Olive View-UCLA Medical Center Master Plan

By: _____

Print Name: Netai Basu

Phone: 213-261-3073

Email: n.basu@fehrandpeers.com

1.24.19

Consultant/Developer's Representative **Date**

Reviewed By: _____

Print Name: Ghassan Shelleh

Phone: 626.300.4820

Email: gshelleh@dpw.lacounty.gov

1/24/19

TLD's Representative **Date**

By: Durre Shamsi

Print Name: Durre Shamsi

Phone: 818-374-4699

Email: durre.shamsi@lacity.org

City of Los Angeles DOT Representative **Date**

1. Traffic Distribution: Figure(s) illustrating project trip distribution in percentages and volumes at the studied intersections analyzed.

See Figure 3.

Trip Credit/Reduction: Exact amount of credit subject to approval by TLD.

Existing Active Land Use Credit	Yes/no	Yes
Previous Land Use Credit	Yes/no	No
Internal Trip Reduction	Yes/no	Yes
Retail Pass-by Trip Reduction (10%)	Yes/no	No

SCOPING FOR TRAFFIC STUDY

Project Name:	Olive View-UCLA Medical Center Master Plan

2. Trip Generation

Trip Generation Rate(s) Source: ITE Trip Generation	I – Institute of Transportation Engineers; S – San Diego Traffic Generators; C – County; O – Other:									

	Land Use Description (Code)	Trip Generation Source	*AVTE vs.	Quantity	Daily Trips Generated	Weekday a.m. peak		Weekday p.m. peak		Weekend peak hour	
						In	Out	In	Out	In	Out
	See Exhibits A and B	I, O				X	X	X	X	N/A	N/A

* - Average Vehicle Trip Ends.

By: GS
Date: 1/24/19

SCOPING FOR TRAFFIC STUDY

Project Name:	Olive View-UCLA Medical Center Master Plan

3. Study Intersections: At minimum, the study shall include the following intersections. The list is subject to change after related projects, trip generation and distribution are determined. Consultant should check with adjoining Cities regarding their requirements in addition to the following County/City intersections. Documentation of the consultation from these agencies shall be included in the traffic study.

Xtn #	Jurisdictional Split	Thomas Guide Page+Grid	N/S and E/W Street Names	Signalized	CMP
1	Los Angeles City 100%	481, H2	Glenoaks Boulevard & Foothill Boulevard	Yes	No
2	Los Angeles City 100%	481, H2	Roxford Street & I-210 WB Ramps	Yes	No
3	Los Angeles City 100%	481, H2	Roxford Street & I-210 EB Ramps	No	No
4	Los Angeles City 100%	481, H2	Roxford Street & Foothill Boulevard	Yes	No
5	Los Angeles City 100%	481, H2	Roxford Street & Glenoaks Boulevard	Yes	No
6	Los Angeles City 100%	481, G4	Roxford Street & San Fernando Road	Yes	No
7	Los Angeles City 100%	481, F4	Roxford Street & Encinitas Avenue/I-5 NB Ramps	Yes	No
8	Los Angeles City 100%	481, F4	Roxford Street & I-5 SB Ramps	Yes	No
9	Los Angeles City 100%	482, A2	Bledsoe Street & Olive View Drive	No	No
10	Los Angeles City 100%	482, A2	Bledsoe Street & Foothill Boulevard	Yes	No

For General Questions, please contact Traffic Studies Section at (626) 300-4740

By: GS
Date: 1/24/19

SCOPING FOR TRAFFIC STUDY

Project Name:	Olive View-UCLA Medical Center Master Plan

Xtn #	Jurisdictional Split	Thomas Guide Page+Grid	N/S and E/W Street Names	Signalized	CMP
11	Los Angeles City 100%	482, B3	Glenoaks Boulevard & Bledsoe Street	Yes	No
12	Los Angeles City 100%	482, B3	Polk Street & I-210 WB Ramps	Yes	No
13	Los Angeles City 100%	482, A3	Polk Street & I-210 EB Ramps	Yes	No
14	Los Angeles City 100%	482, A3	Polk Street & Foothill Boulevard	Yes	No

For General Questions, please contact Traffic Studies Section at (626) 300-4740

By: GS
Date: 1/24/19

SCOPING FOR TRAFFIC STUDY

Project Name:	Olive View-UCLA Medical Center Master Plan

4. Related Projects: Project Consultant shall consultant with Los Angeles County Department of Regional Planning and planning departments of adjoining Cities to identify planned development in the vicinity of the project site.

5. Congested Management Program (CMP): Project Consultant shall conduct CMP analysis in accordance with the County's Traffic Impact Analysis Report Guidelines.

6. Freeway Analysis: Project Consultant shall consult with the State of California Department of Transportation (Caltrans) to determine the California Environmental Quality Act levels of significance with regard to traffic impacts on Caltrans' freeway facilities. This consultation shall also include a determination of Caltrans requirements for the study of traffic impacts to its facilities and the mitigation of any such impacts. This analysis must follow the most current Caltrans' Guide for the Preparation of Traffic Impact Studies (December 2002). If Caltrans finds that the project has a significant impact on the freeway, Caltrans shall be requested to include the basis for this finding in their response. If fees are proposed to mitigate the freeway impact, Caltrans shall be requested to identify the specific project to which the fees will apply. These written comments from Caltrans shall be included with the traffic study and submitted to Public Works for review and approval. If a documented good faith effort is made to consult with Caltrans and written comments cannot be obtained from within a reasonable amount of time, an analysis of the freeway impact shall be made using the County of Los Angeles' CMP Land Use Analysis Guidelines.

7. Site Access Analysis: Project's in rural areas shall conduct a site access analysis in accordance with the County's Access Management for Private Developments Guidelines Manual. All schools, waste/recycling collection or other projects as determined by TLD shall conduct a queuing analysis to ensure queues do not spill-over onto County roads. For schools, provide boundary map and information on neighboring schools including day care facilities. The traffic study will also document pick-up and drop-off procedures.

8. Other Instructions:

Traffic counts may be conducted immediately per the following:
• Must be taken on Tuesdays, Wednesdays or Thursdays.
• Must exclude holidays, and the first weekdays before and after the holiday.
• Must be taken on days when local schools or colleges are in session.
• Must be taken on days of good weather, and avoid atypical conditions (e.g., road construction, detours, or major traffic incidents).
• Traffic counts used for other traffic studies in the area shall **NOT** be reused again, unless 25% of the counts conducted for that particular traffic study are validated with new counts. The difference in volumes between the old and new counts at each corresponding movement should not be more than 10%.
• New traffic counts shall be checked to ensure the difference in volumes at corresponding approaches, if applicable, between two adjacent intersections is no more than 10% unless the difference can be justified.
For all proposed mitigation measures to address project specific impacts, the project shall include conceptual plans for the improvements in the traffic study which shall be made part of the review and approval of the traffic study. All proposed improvements shall be within public the right-of-way.

For General Questions, please contact Traffic Studies Section at (626) 300-4740

By: CS
Date: 1/24/19

Project Name:	Olive View-UCLA Medical Center Master Plan

For all proposed mitigation measures to address cumulative impacts, the project shall include conceptual plans and cost estimates for the improvements in the traffic study which shall be made part of the review and approval of the traffic study.

Unless otherwise approved by TLD, level-of-service analysis shall be performed based on the following scenarios:

(a) Traffic conditions in the vicinity of the project as they exist at the time the notice of preparation (NOP) is published, or if no NOP is published, at the time environmental analysis is commenced;
(b) Traffic in (a) plus project traffic;
(c) Traffic in (b) with the proposed mitigation measures (if necessary);
(d) Traffic in (b) plus the cumulative traffic that includes project and other known developments at the time the notice of preparation (NOP) is published, or if no NOP is published, at the time environmental analysis is commenced; and
(e) Traffic in (d) with the proposed mitigation measures (if necessary).
(f) Traffic in the cumulative base year, in accordance with City of Los Angeles guidelines.

Any required Traffic Index calculations shall be prepared in accordance with the latest version of the Caltrans Highway Design Manual

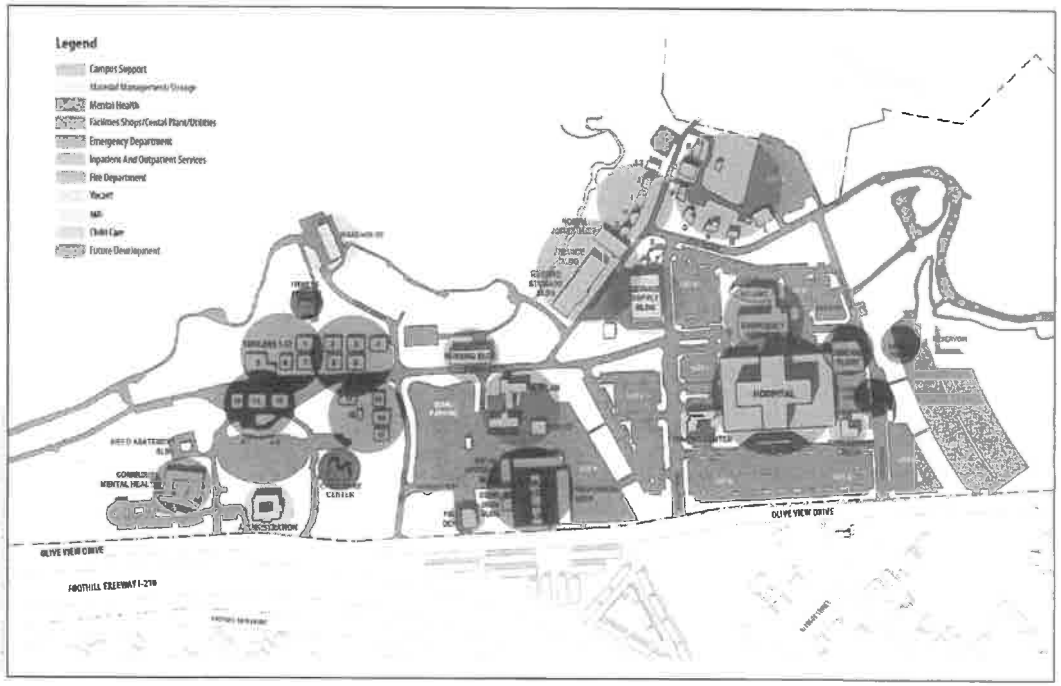
The comment period for the Notice of Preparation for the EIR ended on May 2, 2016. Existing traffic

counts collected in March and June of 2016 will be used in this traffic study.

By: GS
Date: 7/24/19

LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS
TRAFFIC AND LIGHTING DIVISION
APPLICATION FOR ENVIRONMENTAL IMPACT REPORT
TRAFFIC STUDY REVIEW SERVICES, ORDINANCE NO. 91-0101

Department Receipt No.:		**Date:**	
Project No.:	P14445AC	**Studies No.:**	
Project Name:	Olive View-UCLA Medical Center Master Plan		
Applicant/Engineer:	Netai Basu (Traffic Study Project Mgr.)	**Telephone No.:**	(213) 261-3073
Company:	Fehr & Peers	**Fax No.:**	
Address:	600 Wilshire Blvd, Suite 1050		
City, State:	Los Angeles, CA	**Zip:**	90017



Existing Campus Land Use Plan

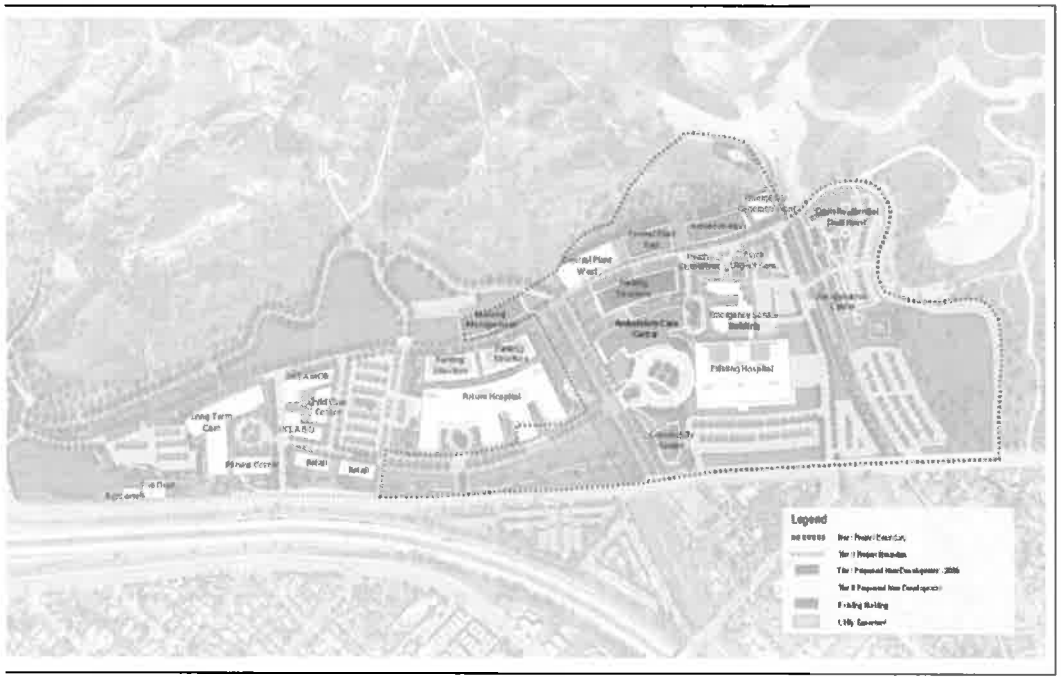
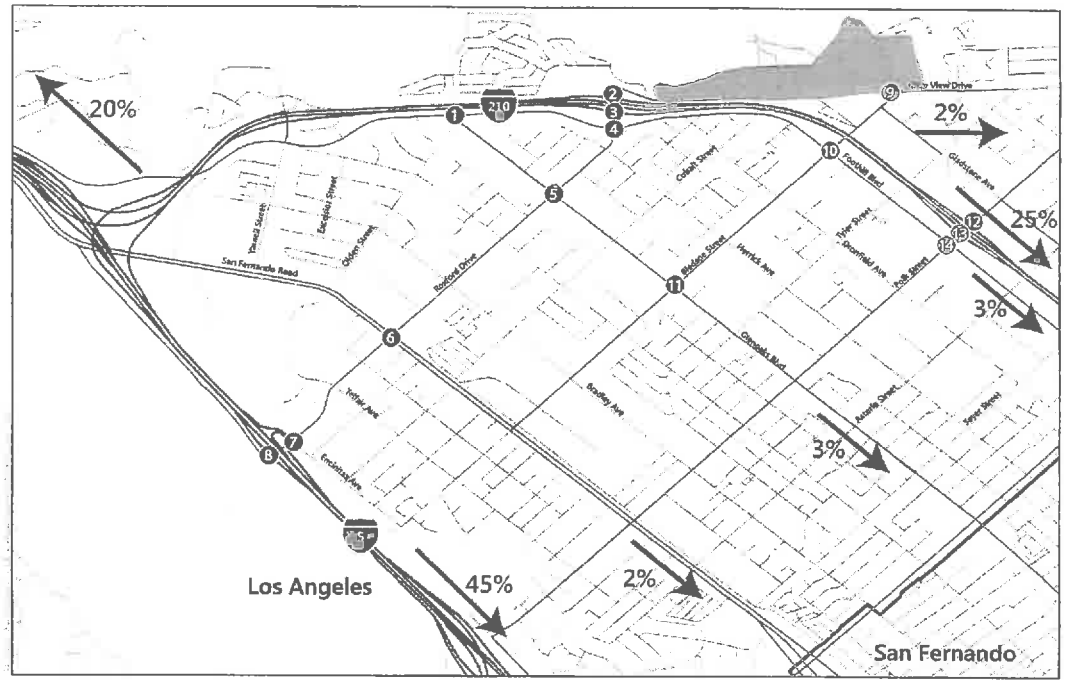


Figure 2

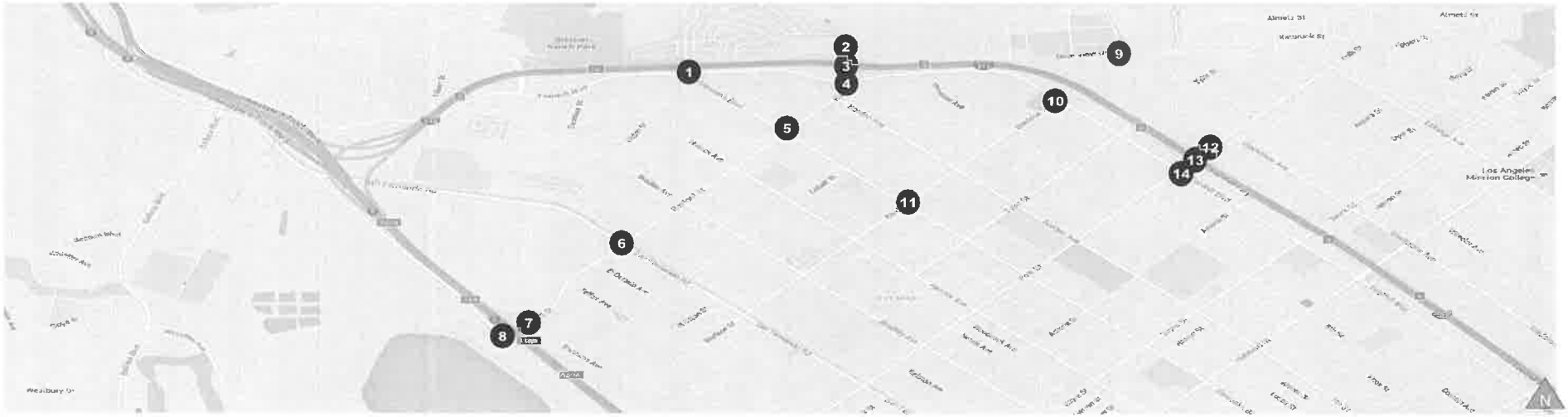
Site Map with Tier 1 Boundaries

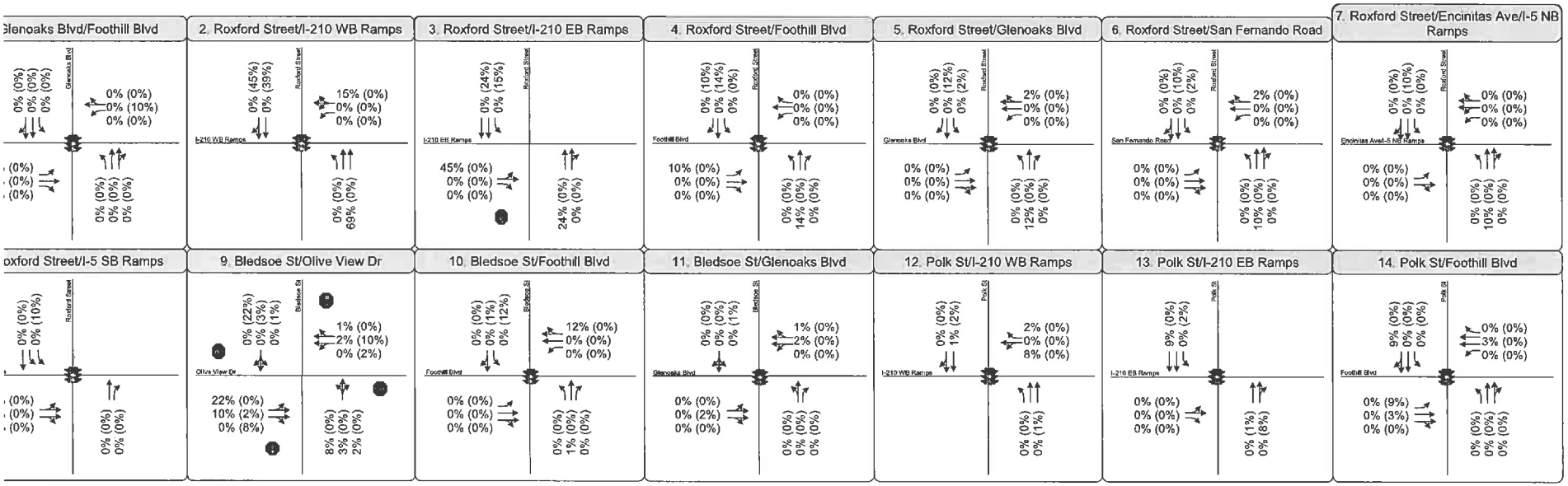


Source: County staff home ZIP codes for current employees; current and future patient data from Hospital Master Plan.

Figure 3

Distribution





LEGEND

- (#) Study Intersection
- XX% (XX%) Inbound (Outbound) Distribution
- Lane Configuration

Project Driveway Volumes:

Project trips were assigned to three sets of driveways: west of Bledsoe Street & Olive View Drive, Bledsoe Street & Olive View Drive, and east of Bledsoe Street & Olive View Drive. As shown in intersection #9, 26% of traffic is expected to access the project using the driveway at Bledsoe Street & Olive View Drive. There is only one driveway east of Bledsoe Street & Olive View Drive, which is assigned 12%. The remaining 62% of trips are assigned to the six driveways west of Bledsoe Street & Olive View Drive.

Figure 4
Project Distribution

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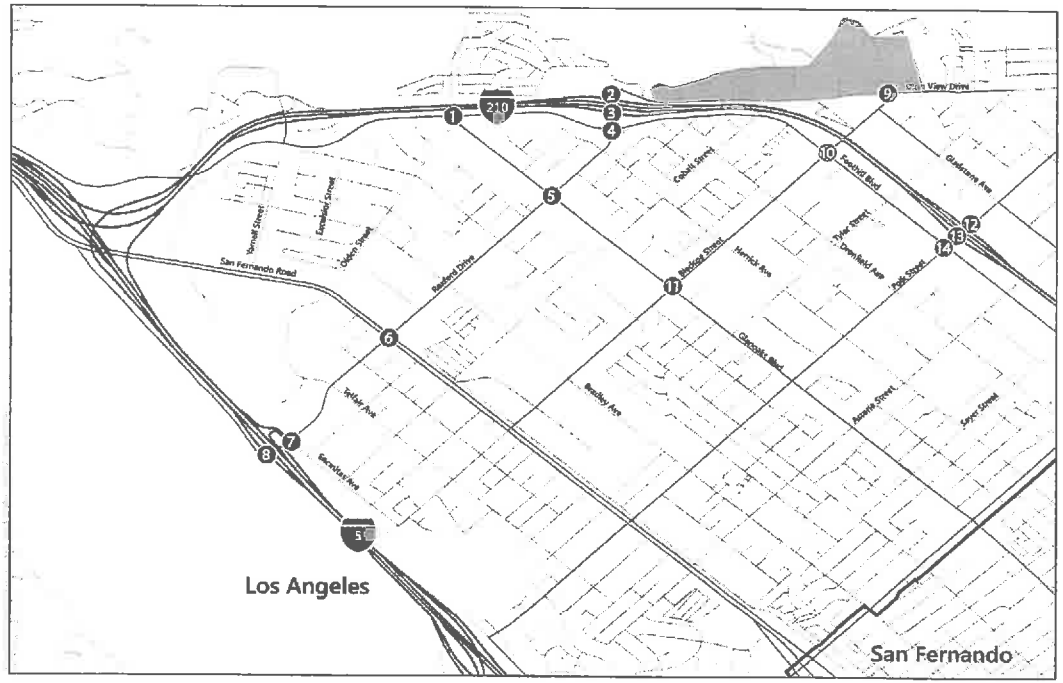


Project Site

4 Study Intersection

Figure 5

Study Area

EXHIBIT A
PROPOSED PROJECT TRIP GENERATION
OLIVE VIEW-UCLA MEDICAL CENTER MASTER PLAN TIER I DEVELOPMENT

	Land Use	ITE Land Use Code	Size [a]	Trip Generation Rates [b]						Estimated Trip Generation						
				Daily	AM Peak Hour			PM Peak Hour			Daily	AM Peak Hour Trips			PM Peak Hour Trips		
				Rate	Rate	% In	% Out	Rate	% In	% Out	Trips	In	Out	Total	In	Out	Total
Existing	**EXISTING USE**																
	Administrative Office	710	108.000 ksf	[c]	[c]	86%	14%	[c]	16%	84%	1,143	110	18	128	19	103	122
	Day Care Center	565	82 Students	4.09	[d]	53%	47%	[d]	47%	53%	335	34	29	63	29	33	62
	Central Utilities/Industrial /Infrastructure [e]	120	51.000 ksf	1.5	0.51	88%	12%	0.68	12%	88%	77	23	3	26	4	31	35
	Hospital/Inpatient	610	534.300 ksf	10.72	[f]	68%	32%	[f]	32%	68%	5,726	355	167	522	175	374	549
	Warehouse/Storage	150	49.300 ksf	[g]	[g]	77%	23%	[g]	27%	73%	123	24	7	31	9	25	34
	Mental Health	720	11.000 ksf	[h]	[h]	78%	22%	[h]	28%	72%	335	24	7	31	11	28	39
	Project Site Subtotal										**7,742**	**570**	**231**	**801**	**247**	**594**	**841**
	Internal Capture (10%) [j]										*-774*	*-57*	*-23*	*-80*	*-25*	*-59*	*-84*
	Transit/Walk/Bike Credit (2%) [k]										*-139*	*-10*	*-4*	*-14*	*-4*	*-11*	*-15*
	Carpool (10%) [l]										*-697*	*-51*	*-21*	*-72*	*-22*	*-54*	*-76*
	Total Existing Trips										**6,132**	**452**	**183**	**635**	**196**	**470**	**666**
Proposed	**PROPOSED PROJECT (TIER 1)**																
	Administrative Office	710	151.700 ksf	[c]	[c]	86%	14%	[c]	16%	84%	1,590	145	24	169	27	142	169
	Day Care Center	565	82 Students	4.09	[d]	53%	47%	[d]	47%	53%	335	34	29	63	29	33	62
	Central Utilities/Industrial /Infrastructure [e]	120	77.600 ksf	1.5	0.51	88%	12%	0.68	12%	88%	116	34	5	39	6	46	52
	Hospital/Inpatient	610	847.000 ksf	10.72	[f]	68%	32%	[f]	32%	68%	9,080	512	241	753	260	552	812
	Community Center	495	20.000 ksf	23.82	[i]	66%	34%	[i]	47%	53%	576	51	26	77	34	38	72
	Warehouse/Storage	150	68.100 ksf	[g]	[g]	77%	23%	[g]	27%	73%	153	25	8	33	10	26	36
	Mental Health	720	10.000 ksf	[h]	[h]	78%	22%	[h]	28%	72%	297	23	6	29	10	26	36
	Crisis Residential Housing	[m]	80 Units								306	74	20	94	0	74	74
	Recuperative Housing	[m]	48 Units								48	12	0	12	0	12	12
	Project Site Subtotal										**12,500**	**911**	**359**	**1,270**	**376**	**949**	**1,325**
	Internal Capture (10%) [j]										*-1,215*	*-82*	*-34*	*-116*	*-38*	*-86*	*-124*
	Transit/Walk/Bike Credit (2%) [k]										*-219*	*-15*	*-6*	*-21*	*-7*	*-15*	*-22*
	Carpool (10%) [l]										*-1,093*	*-74*	*-31*	*-105*	*-34*	*-78*	*-112*
	Total Proposed Trips										**9,973**	**740**	**288**	**1,028**	**297**	**770**	**1,067**
Net Change	**Net New Project**										**3,841**	**288**	**105**	**393**	**101**	**300**	**401**

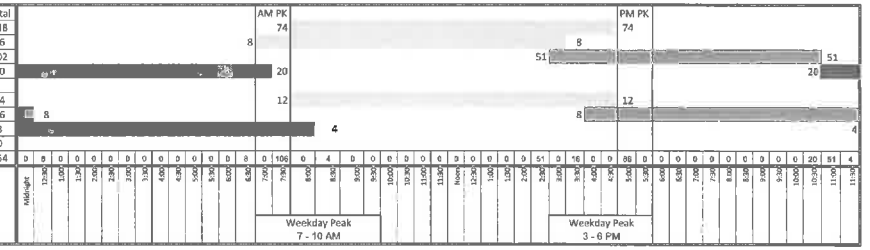
a. Size in thousand square feet (ksf) unless otherwise noted.
b. Source: Institute of Transportation Engineers (ITE), *Trip Generation, 10th Edition*, 2018, and *Trip Generation Handbook* (3rd Edition).
c. ITE administrative office trip generation equations used rather than linear trip generation rate:
   Daily: Ln(T) = 0.97 * Ln(A) + 2.50, where T = trips, A = area in ksf
   AM Peak Hour: T = 0.94(A) + 26.49, where T = trips, A = area in ksf
   PM Peak Hour: Ln(T) = 0.95 * Ln(A) + 0.36, where T = trips, A = area in ksf
d. ITE day care center trip generation equation used rather than linear trip generation rate for AM and PM periods:
   AM Peak Hour: T = 0.66(X) + 8.42, where T = trips, X = number of students
   PM Peak Hour: Ln(T) = 0.87 * Ln(X) + 0.29, where T = trips, X = number of students
e. ITE Code 120 not included in 10th Edition "Trip Generation." Rates and directional distribution taken from ITE 9th Edition code 120, General Heavy Industrial.
f. ITE hospital trip generation equation used rather than linear trip generation rate for AM and PM periods:
   AM Peak Hour: T = 0.74(A) + 126.36, where T = trips, A = area in ksf
   PM Peak Hour: T = 0.84(A) + 100.56, where T = trips, A = area in ksf
g. ITE warehousing trip generation equation used rather than linear trip generation rate:
   Daily: T = 1.58(A) + 45.54, where T = trips, A = area in ksf
   AM Peak Hour: T = 0.12(A) + 25.32, where T = trips, A = area in ksf
   PM Peak Hour: T = 0.12(A) + 27.82, where T = trips, A = area in ksf
h. ITE medical-dental office building trip generation equation used rather than linear trip generation rate:
   Daily: T = 36.42(A) - 87.62, where T = trips, A = area in ksf
   AM Peak Hour: Ln(T) = 0.85 * Ln(A) + 1.31, where T = trips, A = area in ksf
   PM Peak Hour: T = 3.39(A) + 2.02, where T = trips, A = area in ksf
i. ITE Recreational Community Center trip generation equations used rather than linear trip generation rate:
   AM Peak Hour: Ln(T) = 0.54 * Ln(A) + 2.73, where T = trips, A = area in ksf
   PM Peak Hour: Ln(T) = 0.76 * Ln(A) + 2.00, where T = trips, A = area in ksf
j. Internal capture represents the percentage of trips between land uses that occur within the site.
k. Transit/Walk/Bike Credit informed by data from the 2016 AQMD survey
l. Carpool Credit informed by data from the 2016 AQMD survey.
m. See Exhibit B for detailed trip generation estimates for this project element.

Exhibit B
Estimated Weekday Trip Generation of Special Needs Housing
AVR = 1.22

	in	out	total
AM Pk Hr	86	20	106
PM Pk Hr	0	86	86

Day shift
Swing shift
Graveyard shift

	Staff	In	Out	Total
Crisis Res - Clinical	90	74	74	148
Crisis Res - Resid Care	10	8	8	16
Crisis Residential	62	51	51	102
Crisis Residential	26	20	20	40
Recuperative Care	15	12	12	24
Recuperative Care	10	8	8	16
Recuperative Care	5	4	4	8
				0
Total Trips		177	177	354



Time Beginning

Appendix K

Utilities Assessment

Olive View UCLA Medical Center
Tier 1 Calculated Total Additional Water Demand

Demand Type	Quantity	Unit	Standard Water Use Factor [a,b] (gpd/unit)	Conservation Water Use Factor[c]	Water Use (gpd)	afy	% of Total
Existing Conditions							
Existing Conditions Indoor Water Demand							
Inpatient Hospital	355	beds	70.00	n/a	24,850	27.84	23.3%
Community Center--daycare	186	children	9.00	n/a	1,674	1.88	1.6%
Administrative Offices	108,000	sq ft	0.12	n/a	12,960	14.52	12.1%
Mental Health (Outpatient)	11,000	sq ft	0.25	n/a	2,750	3.08	2.6%
Materials Management	32,500	sq ft	0.03	n/a	975	1.09	0.9%
Central Utility Plant	51,000	sq ft	0.05	n/a	2,550	2.86	2.4%
Support Services Buildings	16,800	sq ft	0.12	n/a	2,016	2.26	1.9%
Storage Trailers	61,000	sq ft	0.03	n/a	1,830	2.05	1.7%
Parking Facilities	1,090,000	sq ft	0.02	n/a	21,800	24.42	20.4%
Total Indoor Water Demand	-	-	-	-	71,405	79.98	66.8%
Existing Conditions Landscape Irrigation[d,e]							
Hydrozone 1	13,550	sq ft	-	-	1,276	1.43	1.2%
Hydrozone 2	580,555	sq ft	-	-	34,163	38.27	32.0%
Total Landscape Irrigation	594,106	sq ft	-	-	35,439	39.70	33.2%
Existing Conditions Water Demand					**106,844**	**119.68**	100.0%
Proposed Conditions[f]							
Proposed Conditions Indoor Water Demand							
Inpatient Hospital	355	beds	70.00	45.50	16,153	18.09	10.4%
Ambulatory Care Center	296,000	sq ft	0.25	0.16	48,100	53.88	30.9%
Community Center--daycare	186	children	9.00	5.85	1,088	1.22	0.7%
Community Center	600	occupants	3.00	1.95	1,170	1.31	0.8%
Administrative Offices	151,700	sq ft	0.12	0.08	11,833	13.25	7.6%
Mental Health (Outpatient)	11,000	sq ft	0.25	0.16	1,788	2.00	1.1%
Materials Management	30,500	sq ft	0.03	0.02	595	0.67	0.4%
Central Utility Plant	52,000	sq ft	0.05	0.03	1,690	1.89	1.1%
Central Utility Plant Offices	25,000	sq ft	0.12	0.08	1,950	2.18	1.3%
Support Services Building	16,800	sq ft	0.12	0.08	1,310	1.47	0.8%
Storage Trailers	61,000	sq ft	0.03	0.02	1,190	1.33	0.8%
Parking Facilities	894,000	sq ft	0.02	0.01	11,622	13.02	7.5%
Total Indoor Water Demand	-	-	-	-	98,487	110.32	63.4%
Proposed Conditions Landscape Irrigation[d,e]							
Hydrozone 1	103,431	sq ft	-	-	9,017	10.10	5.8%
Hydrozone 2	197,914	sq ft	-	-	10,784	12.08	6.9%
Hydrozone 3	428,778	sq ft	-	-	18,690	20.94	12.0%
Hydrozone 4	237,806	sq ft	-	-	7,774	8.71	5.0%
Hydrozone 5	490,474	sq ft	-	-	10,690	11.97	6.9%
Total Landscape Irrigation	1,354,972	sq ft	-	-	56,955	63.80	36.6%
Proposed Conditions Water Demand					**155,442**	**174.12**	100.0%
Total Net Potable Water Demand[g]					**48,598**	**54.44**	45.5%

a) Bureau of Sanitation. Sewerage Facilities Charge, Sewage Generation Factors for Residential and Commercial Categories. Effective April 6, 2012.

b) Input on sewage generation factors was provided by LA County staff for all facility categories except Inpatient Hospital and Parking Facilities.

c) Standard multiplied by (1-conservation reduction, or 65%) for Proposed Conditions only. Minimum conservation reduction required in Master Plan is 35%.

d) Hydrozone 1 is high water use plants (e.g. turf), Hydrozone 2 is medium water use plants (e.g. trees), Hydrozone 3 is medium-low water use plants (e.g. bioretention plants), Hydrozone 4 is low water use plants (e.g. drought-tolerant), and Hydrozone 5 is areas with initially high water use to establish plants and then little to no irrigation required (e.g. native woodland rehabilitaiton).

e) Irrigation water use was calculated using the Estimated Total Water Use (ETWU) as required by the California Department of Water Resources Code of Regulations Title 23, Division 2, Chapter 2. Model Water Efficient Landscape Ordinance.

f) Proposed conditions include Tier 1 new development and existing conditions that will remain in place after Tier 1 completion.

g) Net potable water demand determined by subtracting Existing Conditions Water Demand from Proposed Conditions Water Demand. Net increase is 45.5%

COUNTY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS

"To Enrich Lives Through Effective and Caring Service"

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GAIL FARBER, Director

ADDRESS ALL CORRESPONDENCE TO:
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April 24, 2019

IN REPLY PLEASE
REFER TO FILE: PJ-2

Richard F. Harasick
Senior Assistant General Manager – Water Systems
City of Los Angeles
Department of Water and Power
111 North Hope Street, Room 1455
Los Angeles, CA 90012-5701

Attention Ms. Jin Hwang

Dear Mr. Harasick:

OLIVE VIEW-UCLA MEDICAL CENTER CAMPUS MASTER PLAN PROJECT WATER CONSERVATION COMMITMENTS

The County of Los Angeles (County) proposes to develop the Olive View-UCLA Medical Center Campus Master Plan Project (Proposed Project). The campus sits on 230 acres and currently consists of 804,200 square feet of developed area. The Proposed Project is divided into two tiers, Tier 1, which is anticipated to be completed by 2035, and Tier 2, which would only be implemented if needed after 2035, with an anticipated completion in 2050.

The Proposed Project when completed will develop approximately 40,000 square feet of retail space; 600,000 square feet of hospital space; 296,000 square feet of ambulatory care center; 120,000 square feet of research and development facilities; a 20,000-square-foot community center; approximately 96,000 square feet of administrative offices; an 83,000-square foot Restorative Care Village (including recuperative care center, residential treatment program facility, psychiatric urgent care, and mental health wellness center); 68,000 square feet of materials management facilities; a 154,000-square-foot central utility plant; and over 2,000,000 square feet of landscaped and rehabilitated outdoor courtyards and gathering spaces. The Proposed Project would also include 132,000 square feet of new/replacement surface parking and a 380,000-square-foot parking structure. As part of the Proposed Project, existing facilities that collectively comprise approximately 285,000 square feet of floor area on-site would be removed. The Proposed Project new landscaping would cover approximately 1,610,000 square feet, or approximately 37 acres.

The County has committed to comply with the City of Los Angeles Low Impact Development Ordinances (City Ordinance No. 181899 and No. 183833) and to implement

Best Management Practices that have stormwater recharge or reuse benefits for the Proposed Project as applicable:

- Bioretention – captures first-flush storm water, removes pollutants through a variety of physical, biological, and chemical treatment processes, and contributes towards recharging groundwater.
- Dry Wells (alternative to bioretention in parking lots) – captures and infiltrates storm water (similar to pervious pavements) and allows storm water to infiltrate into the groundwater basin.
- Pervious pavements – captures runoff by allowing storm water to pass through the pavement surface and then infiltrate into the groundwater basin.
- Catch basin screens.

The County understands the City of Los Angeles policy that future water needs shall be met by expanding water recycling and conservation. The County has committed to implementing the following water conservation measures, which are in addition to those required by codes and ordinances for the entire Proposed Project:

- Drip/ Subsurface Irrigation (Micro-Irrigation)
- Proper Hydro-zoning/ Zoned Irrigation (groups plants with similar water requirements together)
- Landscaping Contouring to minimize precipitation runoff
- Drought Tolerant Plants – 77% of total new landscaping (approximately 1,245,000 square feet or 28.6 acres)
- Water Conserving turf – 100% of new turf added to landscaping (approximately 119,800 square feet or 2.8 acres)
- Remaining Proposed Project landscaping (242,000 square feet or 5.6 acres) be medium water use plants with a maximum average plant factor of 0.50
- Average total Proposed Project landscaping plant factor will be 0.42 or less (calculated required maximum plant factor is 0.45)

The following is the information on estimated plumbing fixture and appliance counts. Table 1 provides the estimated fixture and appliance counts for the buildings that will be removed in Tier 1 and in Tier 2. Table 2 provides the estimated fixture and appliance counts for the proposed new buildings in Tier 1 and Tier 2. Table 3 provides the net increase in fixtures and appliances as a result of Tier 1 and Tier 2 demolition and construction. The total estimates include Tier 1 and Tier 2 and reflect the net increase after the entire project proposed demolition and development is completed. Table 3 is based on the difference between the values in Table 1 and the values in Table 2. Occupancy load factors and minimum required fixture estimates were derived from the 2013 California Plumbing Code, Chapter 4, Section 422. Some of the plumbing fixture and appliance counts were increased from the minimum required values.

TABLE 1: EXISTING FIXTURE AND APPLIANCE COUNTS TO BE REMOVED

Existing Use to be Removed	Toilets	Urinals	Bath Faucets	Kitchen Faucets	Commercial Kitchen Pre-Rinse Spray Faucets	Showerheads	Clothes washer (Commercial)	Dishwasher (Commercial)	Clothes washer (Residentiall)	Dishwasher (Residential)
Tier I										
Inpatient Hospital: Clinical & General Support[1]	2	1	2	1	0	0	0	0	0	0
Administration Office[1]	12	3	6	1	0	0	0	0	0	0
Materials Management[1]	6	2	4	1	0	0	0	0	0	0
Central Utility Plant Maintenance[3]	2	0	2	1	0	2	0	0	0	0
Central Utility Plant Office[1]	4	1	2	1	0	0	0	0	0	0
Support Services Building[1]	4	1	2	1	0	0	0	0	0	0
Tier II										
Inpatient Hospital: Clinical & General Support (includes 5,000 sq ft/150 seat cafeteria)[1]	12	4	7	2	2	0	0	2	0	0
Inpatient Hospital: Inpatient Care (355 beds)[8]	178	0	178	0	0	178	0	0	0	0
Inpatient Hospital: Diagnostic & Treatment[1]	16	4	12	1	0	0	0	0	0	0
Inpatient Hospital: Administrative Services[1]	12	4	8	1	0	0	0	0	0	0
Inpatient Hospital: Department Office[1]	6	2	4	1	0	0	0	0	0	0
Inpatient Hospital: Hospital/Campus Support[1]	16	4	10	1	0	0	5	4	0	0
Inpatient Hospital: Vacant Buildings[1]	6	2	4	1	0	0	0	0	0	0
Community Center Child Care[2]	12	2	5	1	0	0	0	0	0	0
Administration Office[1]	12	2	5	1	0	0	0	0	0	0
Mental Health Office[1]	4	1	2	1	0	0	0	0	0	0
Storage Trailers[4]	2	0	2	1	0	0	0	0	0	0

[1]Occupancy load to determine minimum fixtures was 200 square feet per person
[2]Occupancy load was 186 children for child care and 600 occupants/20,000 square feet for community center (600 occupants Tier 1 and 921 occupants Tier 2)
[3]Occupancy load to determine minimum fixtures was 2,000 square feet per person
[4]Occupancy load to determine minimum fixtures was 5,000 square feet per person
[5]Based on building square foot and occupancy load of 200 square feet per person with a minimum number of toilets, bath faucets, and showerheads based on 24 rooms.
[6]Based on building square foot and occupancy load of 200 square feet per person with a minimum number of toilets, bath faucets, and showerheads based on 40 rooms.
[7]Based on building square foot and occupancy load of 200 square feet per person with a minimum number of toilets, bath faucets, and showerheads based on 8 rooms.
[8]Based on 355 beds and double occupancy with one fixture (toilet, bath faucet, and shower) per room.
[9]Based on 120 studios and 60 rooms with toilets, bath faucets, showerheads, and residential kitchens based on number of studios or rooms.

TABLE 2: PROPOSED FIXTURE AND APPLIANCE COUNTS TO BE ADDED

Proposed Use	Toilets	Urinals	Bath Faucets	Kitchen Faucets	Commercial Kitchen Pre-Rinse Spray Faucets	Showerheads	Clothes washer (Commercial)	Dishwasher (Commercial)	Clothes washer (Residentiall)	Dishwasher (Residential)
Tier I										
Ambulatory Care Center Outpatient Facility[1]	25	5	15	1	0	0	0	0	0	0
Community Center[2]	17	2	7	1	1	0	0	1	0	0
Recuperative Care Center[5]	28	1	30	1	1	24	1	1	0	0
Residential Treatment Program Facility[6]	51	2	55	2	1	40	1	1	0	0
Psychiatric Urgent Care[7]	11	1	10	1	1	8	1	1	0	0
Mental Health Wellness Center[1]	3	1	2	1	0	0	0	0	0	0
Administration Office[1]	16	6	10	1	0	0	0	0	0	0
Materials Management[1]	13	5	9	3	0	1	0	0	0	0
Central Utility Plant Maintenance[3]	2	0	2	2	0	3	0	0	0	0
Central Utility Plant Office[1]	6	2	4	1	0	0	0	0	0	0
Tier II										
Repurposed Inpatient Hospital: Medical Office[1]	32	10	20	1	0	0	0	0	0	0
New Inpatient Hospital: Inpatient Care (355 beds)[8]	178	0	178	0	0	178	5	4	0	0
New Inpatient Hospital: Diagnostic & Treatment[1]	16	4	10	1	0	0	0	0	0	0
New Inpatient Hospital: Clinical & General Support (includes 5,000 sq ft/150 seat cafeteria)[1]	12	3	6	4	2	0	0	2	0	0
New Inpatient Hospital: Administration Office[1]	6	2	4	1	0	0	0	0	0	0
New Inpatient Hospital: Department Office[1]	18	6	14	1	0	0	0	0	0	0
Research and Development[1]	16	4	10	8	0	0	0	0	0	0
Community Center Child Care[2]	9	0	6	2	0	0	1	1	0	0
Community Center[2]	7	2	4	1	1	0	0	1	0	0
Retail[1]	4	2	2	0	0	0	0	0	0	0
Central Utility Plant Maintenance[3]	2	0	2	2	0	3	0	0	0	0
Central Utility Plant Office[1]	6	2	4	1	0	0	0	0	0	0
Long-Term Care Residential with Kitchen (studio)[9]	120	0	120	120	4	120	4	4	120	120
Long-Term Care Residential with Kitchen (room)[9]	60	0	60	60	2	60	2	2	60	60

[1]Occupancy load to determine minimum fixtures was 200 square feet per person
[2]Occupancy load was 186 children for child care and 600 occupants/20,000 square feet for community center (600 occupants Tier 1 and 921 occupants Tier 2)
[3]Occupancy load to determine minimum fixtures was 2,000 square feet per person
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[5]Based on building square foot and occupancy load of 200 square feet per person with a minimum number of toilets, bath faucets, and showerheads based on 24 rooms.
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[7]Based on building square foot and occupancy load of 200 square feet per person with a minimum number of toilets, bath faucets, and showerheads based on 8 rooms.
[8]Based on 355 beds and double occupancy with one fixture (toilet, bath faucet, and shower) per room.
[9]Based on 120 studios and 60 rooms with toilets, bath faucets, showerheads, and residential kitchens based on number of studios or rooms.

TABLE 3: NET INCREASE IN FIXTURE AND APPLIANCE COUNTS

Project Phase	Toilets	Urinals	Bath Faucets	Kitchen Faucets	Commercial Kitchen Pre-Rinse Spray Faucets	Showerheads	Clothes washer (Commercial)	Dishwasher (Commercial)	Clothes washer (Residentiall)	Dishwasher (Residential)
Tier 1[1]	142	17	126	8	4	74	3	4	0	0
Tier 2[2]	210	10	203	191	7	183	7	8	180	180
TOTAL[3]	352	27	329	199	11	257	10	12	180	180

[1]The Tier 1 values were determined by adding up the total counts for Tier 1 for each fixture and appliance in Tier 1 that will be removed due to demolition (Table 1) and subtracting it from the total counts for Tier 1 for each fixture and appliance that will be added due to new development (Table 2).
[2]The Tier 2 values were determined by adding up the total counts for Tier 2 for each fixture and appliance in that will be removed due to demolition (Table 1) and subtracting it from the total counts for Tier 2 for each fixture and appliance that will be added due to new development (Table 2).
[3]The total fixture and appliance counts are the sum of Tier 1 and Tier 2 and represent the total net increase in fixture and appliance counts due to demolition and new development.

Please note that since the proposed project is a master plan, detailed designs of future campus facilities have not yet been completed. As such, the information presented above is preliminary and may change as the project moves into detailed design phases.

If you have any questions, please contact Ms. Clarice Nash of my staff at (626) 300-2363 or at cnash@dpw.lacounty.gov.

Very truly yours,

GAIL FARBER
Director of Public Works

ANDREW K. MOEY
Assistant Deputy Director
Project Management Division I

CN:ms
U:\pmdI\health\OV-UCLA MP\Admin\Corres\Letter\DWP
cc: Chief Executive Office (Arena Turner)
ICF International (Lee Lisecki)
bc: Project Management I (Nash, McGauhey)