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Thousand Oaks Groundwater Utilization Project

Public Draft CEQA Initial Study/Mitigated Negative Declaration

August 2020

Prepared for

City of Thousand Oaks
2100 Thousand Oaks Blvd.
Thousand Oaks, CA 91362

K/J Project No. 1744405*02

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List of Acronyms

AB	Assembly Bill
ACI	American Concrete Institute
AEP	Association of Environmental Professionals
AFY	Acre-Feet per Year

AQMP	Air Quality Management Plan
AWWA	American Water Works Association
BAT	Best Available Technology
BIOS	Biogeographic Information and Observation System
BMP	Best Management Practice
CAAQS	California Ambient Air Quality Standards
Cal-Am	California American Water
Cal Water	California Water Service Company
Caltrans	California Department of Transportation
CARB	California Air Resources Board
CBC	California Building Code
CCR	California Code of Regulations
CCRO	Closed Circuit Reverse Osmosis
CDFW	California Department of Fish and Wildlife
CEC	California Energy Commission
CEQA	California Environmental Quality Act
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CESA	California Environmental Species Act
CFGC	California Fish and Game Code
CH_4	methane
City	City of Thousand Oaks
CMP	congestion management plan
CMWD	Calleguas Municipal Water District
CNDDB	California Natural Diversity Database
CNEL	Community Noise Equivalent Level
CNPS	California Native Plant Society
CO	carbon monoxide
CO_2	carbon dioxide
CO_2e	carbon dioxide equivalent
COSA	Conejo Open Space Conservation Agency
CRHR	California Register of Historic Resources
CRW	Colorado River Water
CUPA	Certified Unified Program Agencies
CVGB	Conejo Valley Groundwater Basin
CWA	Clean Water Act
dB	decibel
dBA	A-weighted decibel
DDW	California Division of Drinking Water
DOC	California Department of Conservation
DPM	diesel particulate matter
DTSC	California Department of Toxic Substances Control
EIR	Environmental Impact Report
EPA	Environmental Protection Agency
FEMA	Federal Environmental Management Agency

FESA	Federal Endangered Species Act
FTA	Federal Transit Association
FHWA	Federal Highway Administration
GHG	greenhouse gas
gpm	gallons per minute
HFC	hydrofluorocarbon
HMBP	Hazard Material Business Plan
HMMP	Habitat Mitigation and Monitoring Plan
HVAC	heating, ventilation, and air conditioning
IPCC	Intergovernmental Panel on Climate Change
IS	Initial Study
kWh	kilowatt hours
Leq	equivalent noise level
LOS	level of service
LRGC	Los Robles Golf Course
MBTA	Migratory Bird Treaty Act
MG	Million gallons
Mg/L	milligram per liter
mgd	Million gallons per day
MLD	most likely descendant
MMRP	Mitigation and Monitoring Reporting Plan
MMT	million metric tons
MND	Mitigated Negative Declaration
mph	miles per hour
MT	metric ton
MWDSC	Metropolitan Water District of Southern California
NAAQS	National Ambient Air Quality Standard
NAHC	Native American Heritage Commission
N_2O	nitrous oxide
NM	noise measurement
NO_x	nitrogen oxide
NPDES	National Pollutant Discharge Elimination System
NRCS	Natural Resources Conservation Service
NRHP	National Register of Historic Places
NWI	National Wetlands Inventory
PE	Professional Engineer
PFC	perfluorocarbon
PM_{10}	particulate matter less than 10 microns in diameter
PRC	Public Resources Code
Project	Thousand Oaks Groundwater Utilization Project
QSD	Qualified SWPPP Developer
RCEM	Road Construction Emissions Model
RCRA	Resource Control and Recovery Act
RMS	root mean squared
RO	reverse osmosis

ROC	reactive organic gases
RTP	Regional Transportation Plan
RWQCB	Regional Water Quality Control Board
SB	Senate Bill
SCAQMD	South Coast Air Quality Management District
SCE	Southern California Edison
SCAG	Southern California Association of Governments
SCG	Southern California Gas Company
SCS	Sustainable Communities Strategy
SF_6	sulfur hexafluoride
SGMA	Sustainable Groundwater Management Act
SLF	Sacred Lands File
SoCalGas	Southern California Gas
sq. ft.	square feet
SRA	State Responsibility Areas
SSC	Species of Special Concern
SWP	State Water Project
SWPPP	Stormwater Pollution Prevention Plan
SWRCB	State Water Resources Control Board
TAC	toxic air contaminant
TDS	total dissolved solids
TMDL	total maximum daily load
TMP	Traffic Management Plan
UBC	Uniform Building Code
UCMP	University of California Museum of Paleontology
USACE	United States Army Corps of Engineers
USDA	United States Department of Agriculture
USFWS	United States Fish and Wildlife Service
USGS	United States Geological Survey
UWMP	Urban Water Management Plan
VCAPCD	Ventura County Air Pollution Control District
VCEHD	Ventura County Environmental Health Division
VdB	vibration decibels
VMT	vehicle miles traveled
VOC	volatile organic compound
WEAP	Worker Environmental Awareness Program
WDR	waste discharge requirements
WTP	Water Treatment Plant
WWTP	Wastewater Treatment Plant

Section 1: Mitigated Negative Declaration

1. Project Title

Thousand Oaks Groundwater Utilization Project

2. Lead Agency Name and Address

City of Thousand Oaks
2100 Thousand Oaks Blvd.
Thousand Oaks, CA 91362

3. Contact Person and Phone Number

Ayda Forouzan, PE, QSD, 805-449-2430, aforouzan@toaks.org

4. Project Location

Los Robles Golf Course
299 S Moorpark Road
Thousand Oaks, CA 91361
Latitude: 34.176717498580
Longitude: -118.8838858757

5. Project Sponsor Name and Address

City of Thousand Oaks
2100 Thousand Oaks Blvd.
Thousand Oaks, CA 91362

6. General Plan Designation

The Project traverses the following General Plan designations:

Existing park, golf course, open space.

7. Zoning

The area zoning is Public, Quasi-Public, and Institutional Lands and Facilities Zones (P-L), General Plan land use is Existing Parks, Golf Courses, and Open. Zoning is not proposed to change due to this project.

8. Description of Project

The City of Thousand Oaks (City) is considering a project that would provide groundwater treatment at an existing well site located at the Los Robles Golf Course (LRGC) to develop groundwater as a source of irrigation and municipal potable water. Historically, groundwater from the Conejo Valley Groundwater Basin was blended with potable water purchased

from California American Water (Cal-Am) to produce irrigation water at the LRGC. Poor groundwater quality, including elevated salinity, proved detrimental for irrigating golf course turf grass. As a result of the elevated salinity from the LRGC well, use of this groundwater for irrigation was ceased in 2014 and the source of irrigation water has since come predominantly from Cal-Am.

The primary objective of this project is to improve the water quality produced by the existing LRGC Well so it can be used for irrigation of the golf course as well as for potable water. The proposed project consists of equipping the existing well and constructing a new groundwater treatment facility called the Thousand Oaks Water Treatment Plant (WTP). Treated water produced from the treatment plant would be conveyed to the LRGC for irrigation and to the City's potable water distribution system. Achieving this objective would limit, and potentially eliminate, the need to purchase water from Cal-Am for LRGC irrigation, thereby reducing reliance on imported water and utilizing a local groundwater source from the underlying groundwater basin. In concert with achieving this objective, the goal is to reduce the operating costs for the City and provide the City with a new local potable water source.

9. Surrounding Land Uses and Setting

The majority of the project will be constructed within the boundary of the LRGC, which is bound by the US 101 Highway to the north, the Los Robles Mountains to the south, and residential neighborhoods to the east and west. A new underground pipeline will be installed within S. Moorpark Road to connect the treated groundwater to the City's distribution system.

10. Public Review

Copies of the Draft and Final Mitigated Negative Declaration (MND) and Initial Study (IS) are available for public review at:

City of Thousand Oaks
2100 Thousand Oaks Blvd.
Thousand Oaks, CA 91362

The documents can also be downloaded in digital format from the City's website at https://www.toaks.org/departments/public-works/construction/groundwater

Hardcopies of the draft document were provided to the following libraries for viewing:

Thousand Oaks Grant R. Brimhall Library
1401 E Janss Rd.
Thousand Oaks, CA 91362

Thousand Oaks Library (Newbury Park Branch)
2331 Borchard Rd.
Thousand Oaks, CA 91362

The public review period for the IS/MND began on August 14, 2020 and closed on September 14, 2020 after a 30-day review period. See below for other public agencies whose approval is required.

11. Other Public Agencies Whose Approval is Required

This Initial Study has been prepared in accordance with the California Environmental Quality Act (CEQA) of 1970 and Guidelines, as amended. Further, the Project would comply with the City of Thousand Oaks General Plan, Municipal Code, Zoning Code, City policies, Uniform Building Code (UBC), California Building Code (CBC), Fire Code and other applicable state regulations. The Project would also use the Best Management Practices (BMP) and is subject to the National Pollution Discharge Elimination System (NPDES), the Regional Water Quality Control Board (RWQCB), and Ventura County Air Pollution Control District (VCAPCD) regulations. Additional agencies who may need to provide permits and/or approvals for the project are listed in Table 2-4 and include the California Department of Transportation (Caltrans) and the State Water Resources Control Board (SWRCB).

12. California Native American Tribe Consultation

California Public Resources Code section 21080.3.1 and Assembly Bill (AB) 52 establish a formal consultation process for California tribes regarding tribal cultural resources. The consultation process must be completed before a CEQA document can be certified or adopted. Under AB 52, lead agencies are required to "begin consultation with a California Native American tribe that is traditionally and culturally affiliated with the geographic area of the proposed project." Native American tribes to be included in the process are those that have requested notice of projects proposed within the jurisdiction of the lead agency. The City has complied with the consultation process for the project. Details are provided in the IS/MND Section 3.1.18 and Appendix D.

13. Mitigation Measures

All mitigation measures identified in the Initial Study are prepared for adoption as conditions of the project and will be implemented through a mitigation monitoring and reporting program adopted with the MND.

ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED:

The environmental factors checked below would potentially be significantly affected by this Project as indicated by the checklist on the following pages.

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

DETERMINATION: (To be completed by the Lead Agency)

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 in 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 a "potentially significant impact" or "potentially significant unless mitigated" impact on the environment, 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 (EIR) 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 EIR or NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier EIR or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required.



Signature

7/17/20

Date

Deputy Public Works Director / City Engineer

Title

City of Thousand Oaks

For

1.1 Organization of this IS/MND

This IS/MND is comprised of six sections and technical appendices:

- **Section 1 – Mitigated Negative Declaration**. This section provides a summary of the project and the City's determination pursuant to CEQA.

- **Section 2 – Project Description**. This section provides a discussion of the project location, a summary of the existing environmental conditions, and a detailed description of the proposed project.

- **Section 3 – Environmental Checklist**. This section contains the CEQA checklist form (i.e., IS) that provides an overview of the project's potential impacts, as well as detailed analyses of the anticipated project-related and cumulative environmental impacts. Mitigation measures have been identified to eliminate potential significant effects or reduce them to a level that is considered less than significant. This section also includes the mandatory findings of significance, as required by CEQA.

- **Section 4 – Mitigation Monitoring and Reporting Plan**. This section includes a program for reporting on or monitoring the changes which the City has either required in the project or made a condition of approval to mitigate or avoid significant environmental effects, as required by CEQA Section 15074(d). Adoption of the monitoring and reporting plan by the City must occur at the same time it considers adoption of the IS/MND.

- **Section 5 – List of Preparers**. This section lists report authors and reviewers, including staff from the City, Kennedy Jenks, and Rincon Consultants, Inc.

- **Section 6 – References**. This section identifies those references used in preparation of this IS/MND

Section 2: Project Description

2.1 Overview of the Proposed Project

The City of Thousand Oaks (City) has historically irrigated the Los Robles Golf Course (LRGC) with groundwater supplied from the Conejo Valley Groundwater Basin (CVGB) via an existing groundwater well (LRGC Well) which was then blended with potable water purchased from California American Water (Cal-Am). The annual irrigation demand at the LRGC is approximately 195 acre-feet per year (AFY). Poor groundwater quality, including elevated salinity, proved detrimental for irrigating golf course turf grass. Historical groundwater quality indicates a total dissolved solids (TDS) concentration of approximately 1,500 milligrams per liter (mg/L).

Use of the LRGC groundwater for irrigation was ceased in 2014 as a result of the groundwater quality issues, and the source of irrigation water has since come predominantly from Cal-Am. The water purchased from Cal-Am is treated, imported surface water received from the Metropolitan Water District of Southern California's (MWDSC) Jensen and Weymouth Water Treatment Plants purchased from the Calleguas Municipal Water District (CMWD). The sources of the imported water are the California State Water Project (SWP) and the Colorado River Water (CRW).

The City would like to improve the water quality produced by the existing LRGC Well so it can be used again for LRGC irrigation, which would limit, or potentially eliminate, the need to purchase water from Cal-Am. In addition, the City would like to provide adequate treatment such that the groundwater could then be used as a new municipal supply to help meet City water demands and offset use of imported water. Accordingly, the proposed project (Project) would help the City increase local water self-reliance while reducing the cost it currently spends on importing water to meet demands.

The Project, which includes the construction of a new groundwater treatment facility, the Thousand Oaks WTP (WTP), is to be located within the LRGC on an existing parking lot, to treat the groundwater from the LRGC Well. The ultimate production capacity at the WTP will be approximately 1,059 AFY which will meet the LRGC annual average irrigation water demand of 195 AFY and provide approximately 1,013 AFY of potable water for municipal use.

Raw groundwater from the LRGC Well would be conveyed approximately 2,650 feet to the WTP via a new underground pipeline to treat for TDS, bicarbonate, calcium, chloride, iron, manganese, sodium, specific conductance, sulfate, alkalinity, hardness, magnesium, potassium, and turbidity to meet water quality goals for potable and irrigation use. After treatment the irrigation water will be conveyed to the existing irrigation pipeline tie-in location adjacent to the LRGC Well via a new pipeline. From the tie-in location, irrigation water will be conveyed in an existing pipeline to the existing irrigation pond. A new treated water transmission pipeline will be installed along South Moorpark Road to convey the treated potable water from the WTP approximately 1,300 feet to the City's potable water distribution system. The WTP will generate a concentrated brine stream that would be discharged to the City's sewer system and treated at the Hill Canyon Wastewater Treatment Plant (WWTP). Project components are shown on Figure 2.

2.2 City of Thousand Oaks

The City of Thousand Oaks (City) was incorporated in 1964 in the southeastern region of the Ventura County. At the time, the City accommodated 20,000 people and spanned an area of 9,140 acres (14.28 miles). Since then, the City has grown to approximately 130,000 in population and now encompasses an area of 34,700 acres (56 square miles) as of 2015. The vicinity map of the City is shown in Figure 1.

Currently, the City is the water purveyor for approximately one third of the City. The allocation of purveyors serving the City is summarized below:

- City of Thousand Oaks: 31 percent
- California American Water Company (Cal-Am): 43 percent
- California Water Service Company (Cal Water): 23 percent
- Camrosa Water District: 2 percent
- Newbury Park Academy Mutual Water Company: less than 1 percent

The potable water distributed by the City is imported water from CMWD, which receives its supply from MWDSC's Jensen Water Treatment Plant (Jensen). Jensen's primary supply source is SWP water from the California Aqueduct. The City supplied approximately 9,600 acre-feet (AF) of water in 2015. According to its 2015 Urban Water Management Plan (UWMP), the City will be able to continue to meet demands with imported water through 2040 (Kennedy Jenks, 2016). However, the additional supply that the Project would make available would increase local supply reliability in the City's supply portfolio and decrease use of imported water. Approximately 75 percent of the City's demand comes from the residential sector.

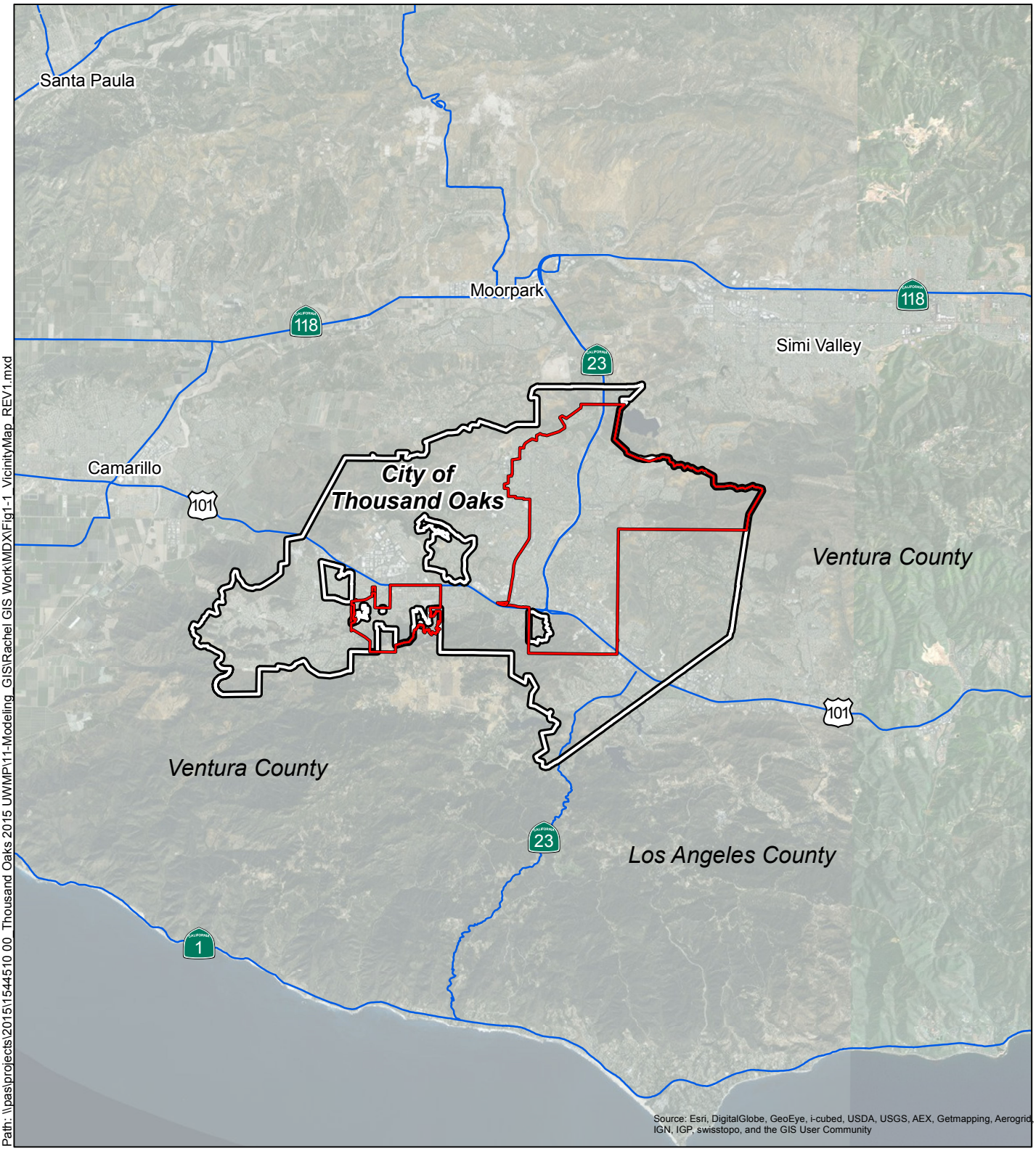
2.3 Project Goals and Objectives

The primary objective of this project is to provide a new local potable water source for the City. The second main objective is to improve the water quality produced by the existing LRGC Well so it can be used again for LRGC irrigation. Achieving these objectives would limit, and potentially eliminate, the need to purchase water from Cal-Am for LRGC irrigation, thereby reducing reliance on imported water and utilizing a local groundwater source from the CVGB. In concert with achieving this objective, the goal is to reduce the operating costs for the City. An additional objective and benefit of this project is providing the City with a new local potable water source thereby increasing water self-reliance.

2.4 Project Location

The WTP will be located at the existing LRGC parking lot, within the City of Thousand Oaks, west of South Moorpark Road and directly south of the 101 Freeway. Figure 1 provides a vicinity map.

Figure 2 shows an overall site plan for the WTP. The LRGC Well is located approximately 2,650 feet northwest of the proposed WTP. The figure shows the location of the LRGC Well, raw water pipeline, irrigation water pipeline, and potable water pipeline (described below).



Path: \\pas\projects\2015\15444510 00_Thousand Oaks 2015 UWMP\11-Modeling_GIS\Rachel GIS Work\MDX\Fig1-1_VicinityMap_REV1.mxd

Legend

City of Thousand Oaks Water Service Boundary

City of Thousand Oaks

N

0 1.5 3

Miles

Kennedy/Jenks Consultants
Thousand Oaks, California

City of Thousand Oaks
Vicinity Map

K/J 1744405.02
March 2019

Figure 1

Z:\Projects\CityOfThousandOaks\Events\20190502_CEQA\Fig01_ProposedProject.mxd Date: 5/2/2019 Printed by: MarioO

Sources: Esri, HERE, DeLorme, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), MapmyIndia, NGCC, © OpenStreetMap contributors, and the GIS User Community



Legend

Facilities

- Potable Water Pump Station
- Irrigation Water Pump Station
- Well Site (Existing)
- WTP (Proposed)

Pipelines

- Thousand Oaks (Existing)
- Potable Water Transmission Pipeline
- Irrigation and Raw Water Pipelines (Proposed)

N

0 200 400

Scale: Feet

Kennedy/Jenks Consultants

LRGC Groundwater Utilization Project
City Of Thousand Oaks

Proposed Project

K/J 1744405*02

Figure 2

2.5 Project Components

2.5.1 Site Improvements

The project will be constructed at an existing parking lot within the LRGC (see Figure 2), adjacent to a future maintenance building for the golf course. The maintenance building is a separate planned project. A CEQA Categorical Exemption (Section 15301[d]) was approved for the maintenance building project in March 2010.

It is projected that the construction of the maintenance facility will occur at the same time as the other proposed improvements to eliminate site work, optimize construction efforts in the same area, and minimize disruption to the LRGC and therefore it is discussed here so that potential cumulative construction related impacts can be identified.

The existing parking lot will be demolished, the area graded, necessary pipelines installed and then the lot will be repaved. The area of the site is approximately 36,000 square feet (sq. ft.). A construction staging area will be located adjacent to the site and will be used for both the proposed treatment plant and the maintenance facility.

2.5.2 Water Treatment Plant

A 6,000 sq. ft. WTP treating groundwater from the existing LRGC well will be constructed. A schematic of what the building and equipment will look like is shown on Figure 3. The site will include necessary fencing and/or site security measures consistent with regulatory guidelines and City requirements. The recommended treatment train to produce irrigation and potable water includes the following:

- **Pretreatment:** Oxidation and filtration system for removal of iron and manganese including sodium hypochlorite addition and greensand filtration; cartridge filtration for removal of suspended particulates and colloids; and sodium bisulfite, antiscalant and sulfuric acid for pre-reverse osmosis (pretreatment) chemical conditioning;

- **Primary Treatment**: Reverse osmosis (RO) or closed-circuit reverse osmosis (CCRO) treatment system for removing salts (TDS) to meet irrigation and potable water quality requirements;

- **Post-treatment**: Post-RO (post-treatment) chemical conditioning, blending, and disinfection systems to stabilize the RO treated water (RO permeate) for the distribution systems and to provide a residual disinfectant for potable water;

- **Product Water Conveyance**: Pumping and conveyance pipelines to connect irrigation and potable water to their respective distribution systems; and

- **Residuals Management**: Conveyance of RO concentrate and filter washwater sludge to the City's sanitary sewer.



Kennedy/Jenks Consultants

LRGC GROUNDWATER UTILIZATION PROJECT
CITY OF THOUSAND OAKS

GROUNDWATER WTP SCHEMATIC

KJ 1744405*00
Figure 3

The building will be built according to multiple design standards including the California Building Energy Efficiency Standards, California Energy Code, California Mechanical Code, heating, ventilation and air conditioning (HVAC) Duct Construction Standards, California Green Building Standards Code, California Plumbing Code, and the American Society of Mechanical Engineers.

The treatment building itself will be a pre-fabricated metal structure that will contain a treatment area, control room, electrical room, maintenance room, and restroom. The WTP will have both interior and exterior lighting. The overall aesthetic of the building will be consistent with the landscape (see Figure 3) and will conform to City's building design review procedures and recommendations.

Exterior finishes of the building will include: metal panel walls; standing seam metal panel roof; hollow metal exterior doors; commercial grade windows, and thermally broken aluminum frames. Interior finishes for the control room and general spaces include: sealed concrete floor finishes; painted gypsum board walls and ceiling; hollow metal interior doors; and stainless steel hardware.

The WTP site will include the following major equipment:

2.5.2.1 WTP Pump Stations

The treated groundwater will be conveyed to the LRGC irrigation system and the City's potable water distribution system. Two separate pump stations will be provided for irrigation water and potable water. The potable water pump station is proposed to be constructed below grade with vertical turbine pumps. The pump stations will share a common structure with a separation wall between each pump station. The pump stations will be outfitted with instrumentation and controls.

2.5.2.2 WTP Decant Tanks

The majority of the filter backwash water and filter-to-waste water at the WTP will be stored in two below-ground storage decant tanks. Two submersible solids pumps located in the decant tanks will periodically pump solids from the decant tank to the sewer system. This waste stream is low in total solids and will have little to no impact on the sewer system or wastewater treatment plant (WWTP) receiving the waste stream.

2.5.2.3 Chemical Storage

The site will contain a chemical storage tote area, and a chemical storage tank area. The tote area will be approximately 800 sq.ft. area covered by a canopy (no walls or doors), and will house hydrofluosilicic acid (a corrosive), antiscalant, sodium metabisulfite, and ammonium sulfate, chemical pumps and other accessories. The storage quantities are within the exempt amount for designation as an outdoor hazardous material storage area.

A 1,000 sq.ft. outdoor chemical storage tank area will be constructed across from the WTP and will contain sulfuric acid, hypochlorite, chemical metering pumps, and other accessories. The tank area will be covered by a non-combustible roof, and the walls will be coated with a chemical-resistant, high-performance coatings. The chemical storage tank area will be designated as an outdoor hazardous material storage area.

2.5.2.4 Appurtenances and Other Facilities

Planned buried utilities are anticipated to include power, chemical piping, gas, water and sewer facilities. Dry utilities shall be located within a utility corridor separated from wet utilities. Where applicable, water mains will be located within the road right-of-way, with a minimum of 36 inches of cover unless City Standards dictate otherwise. Water service laterals will lay a minimum of 24 inches below the finished street grade and no less than 13 inches in other areas. Sewer mains will be sized to maintain a flow depth of no more than 0.9 times the internal diameter of the main. Water and sewer utilities shall be separated horizontally by a minimum of ten feet. Sewage facilities shall include manholes at every change of grade, change of sewer main size, every change in alignment, and every junction of two or more sewer mains. Cleanouts will be installed at the upper reach of each sewer run. Each manhole or cleanout should comply with the uniform plumbing code.

2.5.3 Road Access

Access to the WTP shall be via an existing 600-ft long private road from West Rolling Oaks Drive owned by the LRGC. With the construction of the WTP over an existing parking lot, the private road will now serve as a fire access road. Onsite fire access roads will be designed for two-way access. The existing private road between West Rolling Oaks Drive and the WTP site should be considered adequate as a fire access road. The driving range entry may be regraded to accommodate a turnaround within the fire access road.

2.5.4 Pipeline Segments

2.5.4.1 Raw Water Transmission Pipeline

The raw water transmission pipeline will convey groundwater from the well site to the treatment plant site. The raw water pipeline will be 12-inch diameter and approximately 2,650 feet in length. The pipeline will run south of the existing ditch/swale and south of the golf cart path, buried 3-feet below ground. The trench will also contain the irrigation pipeline. An air relief valve will be located at any highpoints with a blow off valve at the low point in the line for draining the line, if necessary. Figure 2 illustrates a basic alignment of the raw water transmission pipeline.

2.5.4.2 Irrigation Water Pipeline

An 8-inch diameter irrigation water pipeline will be installed on the LRGC property, within the same trench as the raw water transmission pipeline. The pipeline will convey irrigation water from the proposed pump station, a distance of 2,650 feet to an existing irrigation pipeline connection located adjacent to the LRGC Well. The existing irrigation pipeline conveys water from the Cal-Am distribution system to the LRGC irrigation pond. This pipeline will remain unaltered.

2.5.4.3 Potable Water Pipeline

An 8-inch potable water pipeline will be routed along South Moorpark Road to convey potable water from the WTP approximately 1,300 feet to the City's distribution system tie-in location at Thousand Oaks Boulevard (see Figure 2). Prior to connecting to the distribution system, the new potable water line would then be pressure tested and disinfected.

2.5.5 Well Improvements

The LRGC Well, previously constructed, is located approximately 2,650 feet from the WTP. The existing wellhead is insufficiently sized for the LRGC Well improvements and shall be replaced with new piping, valves, a flow meter, and blow off. The well's discharge will be 8-inches in diameter and will include a pump to waste system. The pump to waste pipeline will be directed to a nearby blow off pond, which will be connected by an air-gap discharge pipe to provide positive control of potential cross-connections between the blow off pond and groundwater. A flow meter will be connected to the well discharge pipeline for flow monitoring.

The well will be protected by an existing perimeter fence, of which the north side of the fence requires replacement. The well will not be enclosed within a building.

A flow meter will be installed on the discharge of the well pump. A minimum straight pipe length of five pipe diameters upstream and two pipe diameters downstream of the flow meter will be provided.

2.6 Project Construction and Operation Activities

This section contains a description on construction and operation activities to implement the project.

2.6.1 Construction Activities

Construction at the WTP will entail the demolition of the existing parking lot, grading and trenching, installation of underground utilities, building construction, paving, and final finishes. The majority of the project pipelines will be placed underground and the ground surface restored to its pre-project condition. Construction of the proposed project would involve open cut construction.

Open Cut Construction. Most of the pipeline would be installed using open cut construction/trenching, measuring 3 to 5-feet in width. Construction would vary but it is expected that at any time approximately 700 to 1,000 feet of pipeline would be in the construction zone, with about 300 feet in active construction and a buffer on each side. The buffer would be used for the traffic control (placement of cones, lane closure, signage) necessary to move vehicles safely around the construction area. The width of the construction zone would vary but is anticipated to be 25 to 50 feet. Construction would progress along the alignment at about 150-250 feet a day, meaning any given location would not be in or adjacent to the construction zone for more than approximately 9 days. Dewatering may be required along portions of the alignments. If required, dewatering equipment would be installed along the active construction area. The quality of the water collected during dewatering operations will be tested prior to discharge. It is anticipated that dewatering water would be of adequate quality and the only treatment required prior to discharge to a local stream channel would be use of a sedimentation tank. However, if water quality testing indicates that the water collected in dewatering operations does not meet Regional Water Quality Control Board (RWQCB) standards for stream discharge, the water will be collected and trucked offsite.

It has been assumed that one open cut segment would be built at a time. Staging areas would be located adjacent to or in the vicinity of the pipeline corridors, at the west end of the parking

lot, at the existing maintenance yard and/or the current driving range. The construction crew is anticipated to involve the following construction workers:

- 1 inspector
- 1 superintendent
- 1 foreman
- 6 workers
- 3 heavy equipment operators
- 1 truck driver
- Up to 2 flaggers (dependent on segment)

Each segment of open cut construction would involve up to 20 truck hauls per day (for pipeline delivery, delivery of equipment, removal of spoils, and delivery of backfill materials) and up to 30 worker vehicle trips per day. Tables 2-1 and 2-2 summarize the major construction activities related to the project and the type of equipment anticipated to be used.

TABLE 2-1
SUMMARY OF MAJOR CONSTRUCTION ACTIVITIES

Construction Activity	***Quantity***
Ground Disturbance	1.34 acres
Estimated Excavation [1]	10,587 cubic yards
Material Disposal [1]	2,577 cubic yards
Maximum Daily Construction Personnel	15 persons [2]
External Vehicle Trips per Day	20 truck trips [3]
	30 worker vehicle trips [4]

1. See Appendix A for excavation calculations.
2. Open cut assumptions: *15 workers per day x 1 crew = 15 construction personnel*
3. Open cut assumptions: *20 hauls per day x 1crew = 20 truck trips*
4. Open cut assumptions: *15 workers per day x 2 trips (AM and PM) = 30 worker vehicle trips*

TABLE 2-2
EQUIPMENT ANTICIPATED IN CONSTRUCTION AREAS

Type of Equipment	Quantity Used	Duration (days) [1]	Maximum Daily Use (hours)
Grubbing and Pavement Removal			
Concrete saw	1	75	8
Loader	1	75	8
Water Truck	1	75	8
Backhoe	1	75	8
Pipeline Excavation & Installation			
Excavator	1	80	8
Loader	1	80	8
Welders	2	80	8
Water Truck	1	80	8
Sheepsfoot Compactor	1	80	8
Backhoe	1	80	8
Trailer Mounted Generator	1	80	24
Sump Pump	2	80	24
Pipe Delivery Truck	1	20	4
AC/Base/Bedding Delivery Truck	1	20	8
Concrete Truck	1	20	8
Road Restoration			
Paver	1	16	8
Roller	1	16	8
Dump Truck	1	16	8
Street Sweeper	1	16	8

1. Total use duration for all construction.

2.6.2 Construction Schedule

The construction schedule for the Project is provided in Table 2-3. Construction will occur during workdays (i.e., 5-day work week) during the hours of 7AM to 4PM.

TABLE 2-3
PROPOSED SCHEDULE

Project Activity	Start	Finish
Site Work	September 2022	November 2022
Grading/Trenching	December 2022	February 2023
Building Construction	March 2023	May 2023
Paving	March 2023	May 2023
Architectural Coating	June 2023	August 2023

2.7 Operation and Maintenance of New Facilities

The WTP classification will be determined by the Department of Drinking Water (DDW). It is estimated that the WTP classification will be a T2 treatment facility as pursuant to Title 22 Code of Regulations (CCR), Classification of Water Treatment Facilities. As such, the WTP will be required to have a chief operator who is certified as a grade T2 Treatment operator, or higher, to operate the plant. In addition to the Chief operator, it is anticipated that the facility will employ one (1) shift operator.

The daily operation of the WTP, and whether it needs to be operated 24/7 versus specific hours or days of the week will be determined during final design.

Average annual operating conditions by major process equipment and other systems at the WTP were evaluated during preliminary design. It was assumed that the WTP would be in operation year-round at 94 percent utilization, resulting in an estimated annual power consumption of 1,356,000 kilowatt hours (kWh).

Maintenance includes the routine maintenance of process equipment such as pumps, valves, and instrumentation.

2.8 Purpose and Intended Uses of the IS/MND

The City is the Lead Agency under CEQA. Other agencies will rely on information in this IS/MND to inform their decisions over the issuance of specific permits related to project construction or operation.

This IS/MND is an informational document for decision-makers and the public that identifies any significant environmental impacts and mitigation measures to avoid or reduce those significant impacts. This IS/MND is also intended to support the permitting processes of all agencies whose discretionary approvals must be obtained for this project.

2.9 Project Design Features/Applicant Proposed Measures

The proposed project includes, either as part of the project design or consistent with standard City practices, certain features and measures that would be implemented during project construction and/or operation to minimize potential environmental impacts. Additionally, there are applicable regulatory requirements to which the project will be required to adhere. These project design features, applicant proposed measures, and regulatory requirements are presented below.

Air Quality

The following air quality regulations are detailed in Section 3.1.3.2.2 and summarized below.

- Discharge from sources of air contaminants will comply with opacity standards.
- Discharging air contaminants or any other material from a source that would cause injury, detriment, nuisance, or annoyance to any considerable number of persons or the

public or which endangers the comfort, health, safety, or repose to any considerable number of persons or the public shall be prohibited.

- Fugitive dust generators, including construction and demolition projects, shall implement control measures limiting the amount of dust from vehicle track-out, earth moving, bulk material handling, and truck hauling activities.

- Fugitive dust generators shall begin the removal of visible roadway accumulation within 72 hours of any written notification from the VCAPCD. The use of blowers is expressly prohibited under any circumstances. The amount of dust from any construction activity or any earthmoving activity on a public unpaved road shall be limited.

- The project shall use PM10 efficient street sweepers for routine street sweeping and for removing vehicle track-out.

- The type of application and volatile organic compound (VOC) content of cutback and emulsified asphalt shall be limited.

Biological Resources

- The City implements ordinances and guidelines, which regulate removal and development around oak and landmark trees. The oak trees present within the project site are subject to the protections of the City's Oak Tree Preservation and Protection Guidelines and Landmark Tree Preservation and Protection Ordinance. These ordinances and guidelines will be adhered to throughout the project including addressing any potential impacts to riparian habitat and any other biological resources. Refer to Section 3.1.4 for proposed mitigation.

Construction/Traffic

- Construction will occur between the hours of 7:00AM to 4:00PM, Monday through Friday. No construction activities would occur on weekends, including Saturday, or federal holidays.

- The project shall develop procedures to notify the following governmental agencies and public:

    a. Emergency services affected by construction in the study area of possible lane and local access closures and the potential for traffic delays during construction.

        i. Ventura County Fire Department Station 30 Civic Center, 325 W Hillcrest Dr, Thousand Oaks, CA 91360
        ii. Ventura County Fire Department Station 31 Westlake, 151 Duesenberg Dr, Thousand Oaks, CA 91362
        iii. Ventura County Fire Station, 751 Mitchell Rd, Thousand Oaks, CA 91320

    b. City of Thousand Oaks Police Department.

c. City of Thousand Oaks Department of Transportation to assist in moderating congestion on local streets and notification of road work.

d. Conejo Valley Unified School District of possible temporary traffic congestion.

e. Transit providers of possible temporary traffic congestion (Thousand Oaks Transit Routes 1, 2 3 and 4).

f. The community-at-large of the construction limits/duration and timing.

- The project shall require the construction workers to park at a predetermined off-street parking area.

Geology/Soils

- All proposed facilities will be designed and built in accordance with all applicable seismic design provisions set forth by both the current California Building Code (CBC), the American Water Works Association (AWWA), and the American Concrete Institute (ACI). Additionally, all facets of excavation, trenching, construction, and design will meet the standards established during final engineering design. Specifically, this will include measures such as the over-excavation of an identified unsuitable base soils and geologic units; the proper composition, placement, and compaction of all construction fill; the use of additional foundation design techniques, as necessary; and the utilization of appropriate construction materials and methods.

Hazards/Hazardous Materials

- Hazardous materials will not be disposed of or released onto the ground, the underlying groundwater, or any surface water. Totally enclosed containment will be provided for all trash. All construction waste, including trash and litter, garbage, or other solid waste, petroleum products, and other potentially hazardous materials, will be removed to a waste facility permitted to treat, store, or dispose of such materials.

Hydrology/Water Quality

- The proposed project will be subject to the typical restrictions (e.g., best management practices) and requirements that address erosion and runoff, including those of the Federal and State Clean Water Act (CWA). Construction and operational BMPs will be implemented, as necessary, according to the Construction Stormwater Pollution Prevention Plan (SWPPP) that the Contractor will need to furnish for the project. These may include stormwater and sediment source control and treatment control BMPs and will be employed to address erosion, siltation, stormwater, drainage, and water quality issues.

Noise

- The City will require noise mitigation techniques to ensure that noise levels within the site, primarily affecting workers and staff, will be controlled. Methods to be used will include quieter equipment, best available technology (BAT), isolated foundations for

vibrating equipment, acoustic panels on walls and ceilings, and isolation connectors for machinery and equipment which has a propensity to vibrate. Pumps and other equipment will be designed to comply with maximum sound levels contained in the City of Thousand Oaks Municipal Code.

2.9.1 Permits Potentially Required to Implement the Project

Table 2-4 lists the permits that are anticipated to be necessary to implement the project.

TABLE 2-4
POTENTIALLY REQUIRED PERMITS

Agency	Permit Name
California Department of Transportation (Caltrans)	Standard Encroachment Permit (S. Moorpark Rd. crossing under 101 Freeway)
City of Thousand Oaks Department of Public Works	Encroachment Permit (S. Moorpark Rd.)
City of Thousand Oaks	Building Permit
Regional Water Quality Control Board (RWQCB)	National Pollutant Discharge Elimination System (NPDES) Permit
California State Water Resources Control Board (SWRCB) DDW	Domestic Water Supply Permit
SWRCB	NPDES General Permit for Storm Water Discharges Associated with Construction and Land Disturbance Activities

2.9.2 Funding

Possible outside funding sources for the project include the Local Resources Program (LRP) that is administered by The Metropolitan Water District of Southern California (Metropolitan). The LRP provides financial incentives to public and private water agencies to encourage local development of water recycling, groundwater recovery and seawater desalination. The City is also pursuing Proposition 1 Integrated Regional Water Management Round 1 Implementation funding.

Section 3: Environmental Checklist

This section describes the environmental setting, significance criteria, impacts and related mitigation measures for each environmental resource topic.

3.1 Initial Study Checklist

The City, as the CEQA Lead Agency, has prepared this IS/MND to identify potential environmental impacts associated with the proposed project. This document includes a checklist for each resource topic, supporting explanations, and a discussion of mitigation measures that have been incorporated into the proposed project design to minimize potential impacts in each resource area. The IS/MND uses the CEQA Guidelines (AEP, 2019) to evaluate resource impacts within the City.

3.1.1 AESTHETICS

Would the project:	**Potentially Significant Impact**	**Less Than Significant with Mitigation Incorporated**	**Less Than Significant Impact**	**No Impact**
a) Have a substantial adverse effect on a scenic vista?	☐	☐	☒	☐
b) Substantially damage scenic resources, including but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?	☐	☐	☒	☐
c) In nonurbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?	☐	☐	☐	☒
d) Create a new source of substantial light or glare that would adversely affect daytime or nighttime views in the area?	☐	☐	☒	☐

3.1.1.1 Environmental Setting

The proposed facilities will be installed within partially developed areas that include an existing golf course – the LRGC, and existing City rights-of-way traversing commercial and commercial/ residential land uses. The WTP will be located within the existing LRGC parking lot, in the southwestern corner of the intersection of the 101 Freeway offramp and South Moorpark Road. The LRGC parking lot is separated from the freeway offramp and Moorpark Road by a landscape strip that is partially vegetated with trees and small shrubs, in addition to a pedestrian path along Moorpark Road. The LRGC parking lot is partially visible from Moorpark Road and from the parking lot for the adjacent office building. The LRGC parking lot is located

just north of an office building and its related parking lot along Moorpark Road. Any construction related to the project is not anticipated to be visible from the nearby Highway 101.

The raw water and irrigation pipelines, will extend from the LRGC Well located approximately 2,650 feet northwest of the proposed WTP within the LRGC boundaries, along the existing golf cart path. The existing well site is walled in and located along the golf cart path within an area vegetated by trees and shrubs. The potable water transmission pipeline will extend from the WTP to an existing connection with the City's distribution system within Thousand Oaks Boulevard, via Moorpark Road. Pipelines and utilities will be installed below grade and surfaces will be returned to pre-project conditions.

The mountains and hillsides and open space surrounding the City of Thousand Oaks, are the primary scenic resources in the vicinity. The Santa Monica Mountains are a major prominent feature, the foothills of which are viewable from some areas of the LRGC and various sections of the 101 Freeway.

The Scenic Highways Element of the Thousand Oaks General Plan (City of Thousand Oaks, 1974) identifies various highways and Routes that have scenic value. In the project area, those include the 101 Freeway, Moorpark Road, and Hillcrest Drive, which is the continuation of Thousand Oaks Boulevard to the north of Moorpark Road. Scenic qualities of the 101 Freeway, include, among others, the long-range view of the Santa Monica Mountains and near views to either side of the Freeway of Thousand Oaks central commercial area and the golf course (the LRGC). The LRGC which provides scenic value as open space is partially hidden from view from the 101 Freeway in large part due to vegetation between the LRGC and the freeway. Scenic qualities of Hillcrest Drive (between Lynn Road and Moorpark Road) include among other things, views of nearby hills and residential development to the North and Santa Monica Mountains to the South. The scenic route of Moorpark Road extends from Oak Creek Drive to Santa Rosa Road nearly 5 miles north of the 101 Freeway. In the vicinity of the project area primary scenic qualities related to that road include views of the Santa Monica Mountains.

Existing nighttime lighting in the project area results primarily from streetlights within the main rights-of -way, nearby commercial properties and the LRGC itself, including its clubhouse and facilities.

3.1.1.2 Regulatory Setting

Development within the City is subject to various regulatory guidelines that aim to preserve the community's scenic resources and visual character. General Plan policies that may apply to the project include the following:

- As the City ages, it is important to maintain, improve and enhance the City's aesthetic appearance.

- Future development and redevelopment of existing built environment within Thousand Oaks should reflect sensitivity to its physical setting and natural scenic resources.

The General Plan Scenic Highways Element, noted above, includes policies to preserve and enhance the visual character of roadways within the City.

The City's Oak Tree and Landmark Tree Protection and Preservation ordinances contribute to retaining the aesthetics of the community by protecting oaks and landmark trees threatened by development conversion or re-development activities.

Resolution 2005-011 also outlines the City's current architectural design guidelines and standards for commercial projects. The guidelines are intended to preserve the natural scenic beauty of the City with integration of creative and innovative design for developing commercial, industrial and residential sections of the City.

3.1.1.3 Impact Analysis

3.1.1.3.1 Significance Thresholds

This evaluation assesses the visual resources existing within the project area against anticipated changes and compatibility of the project with the visual character of the area.

Pursuant to CEQA Guidelines, potentially significant impacts would occur if implementation of the project would:

a) Have a substantial adverse effect on a scenic vista;

b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway;

c) In nonurbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings. If in an urbanized area, conflict with applicable zoning and other regulations governing scenic quality;

d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area.

3.1.1.3.2 Project-Specific Impacts

Scenic Vistas (Significance Threshold a):

Less Than Significant Impact. The proposed project consists of a WTP to be located at the existing LRGC parking lot, as well as related pipelines and appurtenances that will be installed within the LRGC and nearby City rights-of-way, including Moorpark Road and Thousand Oaks Boulevard. The WTP will consist of a structure that will be visible upon installation and therefore has the potential to impact views and scenic vistas. Pipelines will be installed below grade and surfaces will be restored to pre-project conditions. As a result, these components do not have potential to impact scenic vistas.

As noted previously, the 101 Freeway and Moorpark Road have scenic value in large part for their views of the nearby Santa Monica Mountains. However, those views do not apply at the location of the proposed project. Long range views from the 101 Freeway along the LRGC are largely blocked by trees and other vegetation along the perimeter of the LRGC. This vegetation also blocks or at least partially obstructs views of the LRGC itself. Along Moorpark Road,

hillsides are viewable to the South. However, the LRGC parking lot is located west of Moorpark Road and therefore is not within line of site of the Santa Monica Mountains.

Scenic Resources (Significance Threshold b):

Less than Significant Impact. The trees present within the project site are subject to the protections of the City's Oak Tree Preservation and Protection Guidelines (Guidelines) and Landmark Tree Preservation and Protection Ordinance. Specifically, the Guidelines state new construction activities must not result in the removal or pruning of any oak trees with a trunk diameter greater than two inches, nor shall activity such as grading encroach upon the protected zone surrounding each tree, defined as the area extending five feet outward from a tree's dripline. If such impacts are anticipated, impacted trees must be replaced either on-site or off-site for consistency with the ordinance. A maintenance and care program must also be implemented to ensure the continued health of any trees for which pruning or encroachment is approved. Similar restrictions apply under the Landmark Tree Preservation and Protection Ordinance.

The proposed project will comply with the regulations contained in the Oak Tree Preservation Guidelines (Thousand Oaks Municipal Code Title 9, Chapter 4, Article 42) and Landmark Tree Preservation and Protection Ordinance (Thousand Oaks Municipal Code Title 9, Chapter 4, Article 43). Further, there will be no impact to any rock outcroppings, historic buildings, or scenic highways. Therefore, the project would not result in substantially damaging such scenic resources.

Visual Character and Quality (Significance Thresholds c):

No Impact. The project site is located within an urbanized area, dominated by the LRGC and commercial and residential land uses. The project will not conflict with applicable zoning and other regulations governing scenic quality. The main project components will be located within the LRGC parcel and would not require changes to related zoning. Pipelines placed within City rights-of-way would not require changes to applicable zoning. In addition, the LRGC parking lot is located directly adjacent to a parcel with an office building and related parking lot. The WTP would not significantly alter the character of the existing landscape or scenic quality along Moorpark Road.

Project activities would conform, if necessary, to the City's building design review procedures and applicable guidelines aimed at maintaining the City's aesthetic appearance, including, but not limited to, the architectural design guidelines and standards for commercial projects (Resolution 2005-011), as applicable.

Lighting and Glare (Significance Threshold d):

Less than Significant Impact. The project would include the installation of exterior lighting at the WTP. Nighttime lighting in the project area results primarily from streetlights within the main rights-of -way, the adjacent commercial properties and the LRGC itself. New lighting at the WTP would not be a new source of substantial light or glare which would adversely affect day or nighttime views in the area. The lighting would also have the necessary shields to direct the glow of the light and would be directed downwards so as to contain the lighting in the project

area only. The City's standard conditions to prevent light and glare impacts would be adhered to and would reduce any potential impacts to a less than significant level.

3.1.1.4 Mitigation Measures

Not applicable. Impacts would be less than significant; therefore, mitigation is not required.

3.1.1.5 Significance After Mitigation

Not applicable.

3.1.2 AGRICULTURAL AND FORESTRY RESOURCES

In determining whether impacts to 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 Dept. of Conservation as an optional model to use in assessing impacts on agriculture and farmland. In determining whether impacts to 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 forest land, including the Forest and Range Assessment Project and the Forest Legacy Assessment project; and forest carbon measurement methodology provided in Forest Protocols adopted by the California Air Resources Board. Would the project:	**Potentially Significant Impact**	**Less Than Significant with Mitigation Incorporated**	**Less Than Significant Impact**	**No Impact**
a) Convert Prime Farmland, Unique Farmland, Farmland of Statewide Importance (Farmland), as shown on maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?	☐	☐	☐	☒
b) Conflict with existing zoning for agricultural use or a Williamson Act contract?	☐	☐	☐	☒
c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code Section 12220(g)); timberland (as defined by Public Resources Code Section 4526); or timberland zoned Timberland Production (as defined by Government Code Section 51104(g))?	☐	☐	☐	☒
d) Result in the loss of forest land or conversion of forest land to non-forest use?	☐	☐	☐	☒
e) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland to non-agricultural use or conversion of forest land to non-forest use?	☐	☐	☐	☒

3.1.2.1 Environmental Setting

The City planning area boundary, within which the proposed project will be located, does not contain land uses designated for agriculture or forestland (City of Thousand Oaks, 2015). The vicinity of the project area consists of partially developed areas, and includes an existing golf course – the LRGC, and existing City rights-of-way traversing commercial and commercial/residential land uses. The WTP will be located within the existing LRGC parking lot, and raw water and irrigation pipelines, will extend from the LRGC well located

approximately 2,650 feet northwest of the proposed WTP within the LRGC boundaries, along the existing golf cart path. The potable water transmission pipeline will extend from the WTP to an existing connection with the City's distribution system. This pipeline will be routed along existing rights-of-way within commercial and commercial/residential land uses.

3.1.2.2 Impact Analysis

3.1.2.2.1 Significance Thresholds

Pursuant to CEQA Guidelines, potentially significant impacts would occur if implementation of the project would:

a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use;

b) Conflict with existing zoning for agricultural use, or a Williamson Act contract;

c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g));

d) Result in the loss of forest land or conversion of forest land to non-forest use;

e) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use.

3.1.2.2.2 Project-Specific Impacts

Agricultural and Forestry Resources (Significance Thresholds a through e):

No Impact. Project facilities are neither located within areas designated as farmland or forest land, nor are they located in the direct vicinity of such lands. As a result, project activities would not result in direct impacts to agricultural or forestry lands or related resources, or conflict with existing zoning. Further, the project-related shift of water sources, from imported water to local groundwater, is not expected to remove an impediment to population growth that could lead to indirect impacts to farmland or forest land such as through land use conversion.

3.1.2.3 Mitigation Measures

Not applicable. There would be no impacts; therefore, mitigation is not required.

3.1.2.4 Significance After Mitigation

Not applicable.

3.1.3 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:	**Potentially Significant Impact**	**Less Than Significant with Mitigation Incorporated**	**Less Than Significant Impact**	**No Impact**
a) Conflict with or obstruct implementation of the applicable air quality plan?	☐	☐	☐	☒
b) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?	☐	☒	☐	☐
c) Expose sensitive receptors to substantial pollutant concentrations?	☐	☐	☒	☐
d) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?	☐	☐	☒	☐

3.1.3.1 Environmental Setting

The project site is located in the South Central Coast Air Basin (Basin), which covers San Luis Obispo, Santa Barbara, and Ventura Counties. The Ventura County Air Pollution Control District (VCAPCD) monitors and regulates the local air quality in Ventura County and manages the Air Quality Management Plan (AQMP). The analysis presented in this section is based upon information found in the Ventura County Air Quality Assessment Guidelines (Guidelines), adopted by the VCAPCD in 2003.

Air quality is affected by stationary sources (e.g., industrial uses and oil and gas operations) and mobile sources (e.g., motor vehicles). Air quality at a given location is a function of several factors, including the quantity and type of pollutants emitted locally and regionally, and the dispersion rates of pollutants in the region. Primary factors affecting pollutant dispersion are wind speed and direction, atmospheric stability, temperature, the presence or absence of inversions, and topography. The project site is located in the southeastern portion of the Basin, which has moderate variability in temperatures, tempered by coastal processes. The air quality within the Basin is influenced by a wide range of emission sources, such as dense population centers, heavy vehicular traffic, industry, and weather.

3.1.3.1.1 Air Quality Standards and Attainment

The VCAPCD is required to monitor air pollutant levels to ensure that National Ambient Air Quality Standards (NAAQS) and California Ambient Air Quality Standards (CAAQS) are met. If the standards are met, the Basin is classified as being in “attainment.” If the standards are not met, the Basin is classified as being in “nonattainment,” and the VCAPCD is required to develop

strategies to meet the standards. According to the California Air Resources Board (CARB) Area Designation Maps, the project site is located in a region identified as being in nonattainment for ozone NAAQS and nonattainment for particulate matter less than 10 microns in diameter (PM_{10}) CAAQS (CARB, 2015). In February 2017, the VCAPCD adopted the 2016 Ventura County AQMP, which provides a strategy for the attainment of federal ozone standards (VCAPCD, 2017).

San Joaquin Valley Fever (formally known as Coccidioidomycosis) is an infectious disease caused by the fungus *Coccidioides immitis*. San Joaquin Valley Fever (Valley Fever) is a disease of concern in the Basin. Infection is caused by inhalation of *Coccidioides immitis* spores that have become airborne when dry, dusty soil or dirt is disturbed by natural processes, such as wind or earthquakes, or by human-induced ground-disturbing activities, such as construction, farming, or other activities (VCAPCD, 2003). From 2012 to 2017, the number of cases of Valley Fever reported in California averaged 4,314 per year, with an average of 87 cases per year reported in Ventura County (California Department of Public Health, 2018).

3.1.3.2 Regulatory Setting

3.1.3.2.1 Air Emission Thresholds

The VCAPCD Guidelines recommend specific air emission thresholds for determining whether a project may have a significant adverse impact on air quality within the Basin. The proposed project would have a significant impact if its mobile source emissions exceed 25 pounds per day of Reactive Organic Compounds (ROC; also referred to as Reactive Organic Gases) or 25 pounds per day of Nitrogen Oxides (NO_X). The 25 pounds per day threshold for ROC and NO_X is not intended to be applied to construction emissions since such emissions are temporary. Nevertheless, the VCAPCD Guidelines state that construction-related emissions should be mitigated if estimates of ROC or NO_X emissions from heavy-duty construction equipment exceed this threshold. Therefore, if emissions for these pollutants exceed 25 pounds per day, impacts would be considered significant.

The VCAPCD has not established quantitative thresholds for particulate matter for operation or construction. However, the VCAPCD indicates that a project that may generate fugitive dust emissions in such quantities as to cause injury, detriment, nuisance, or annoyance to any considerable number of persons, or which may endanger the comfort, repose, health, or safety of any such person, or which may cause or have a natural tendency to cause injury or damage to business or property, would have a significant air quality impact. This threshold is applicable to the generation of fugitive dust during construction grading and excavation activities. The VCAPCD Guidelines recommend fugitive dust mitigation measures that should be applied to all dust-generating activities. Such measures include minimizing the project disturbance area, watering the site prior to commencement of ground-disturbing activities, covering all truck loads, and limiting on-site vehicle speeds to 15 miles per hour (mph) or less.

3.1.3.2.2 Applicable VCAPCD Rules and Regulations

The VCAPCD implements rules and regulations for emissions that may be generated by various uses and activities. The rules and regulations detail pollution-reduction measures that must be implemented during construction and operation of projects. Relevant rules and regulations to the project include those listed below.

3.1.3.2.2.1 Rule 50 (Opacity)

This rule sets opacity standards on the discharge from sources of air contaminants. This rule would apply during construction of the proposed project.

3.1.3.2.2.2 Rule 51 (Nuisance)

This rule prohibits any person from discharging air contaminants or any other material from a source that would cause injury, detriment, nuisance, or annoyance to any considerable number of persons or the public or which endangers the comfort, health, safety, or repose to any considerable number of persons or the public. The rule would apply during construction and operational activities.

3.1.3.2.2.3 Rule 55 (Fugitive Dust)

This rule requires fugitive dust generators, including construction and demolition projects, to implement control measures limiting the amount of dust from vehicle track-out, earth moving, bulk material handling, and truck hauling activities. This rule would apply during construction and operational activities.

3.1.3.2.2.4 Rule 55.1 (Paved Roads and Public Unpaved Roads)

This rule requires fugitive dust generators to begin the removal of visible roadway accumulation within 72 hours of any written notification from the VCAPCD. The use of blowers is expressly prohibited under any circumstances. This rule also requires controls to limit the amount of dust from any construction activity or any earthmoving activity on a public unpaved road. This rule would apply throughout all construction activities.

3.1.3.2.2.5 Rule 55.2 (Street Sweeping Equipment)

This rule requires the use of PM_{10} efficient street sweepers for routine street sweeping and for removing vehicle track-out pursuant to Rule 55. This rule would apply during construction activities.

3.1.3.2.2.6 Rule 74.4 (Cutback Asphalt)

This rule sets limits on the type of application and volatile organic compound (VOC) content of cutback and emulsified asphalt. The proposed project is required to comply with the type of application and VOC-content standards set forth in this rule.

3.1.3.3 Impact Analysis

3.1.3.3.1 Significance Thresholds

This evaluation assesses potential impacts to air quality resulting from the proposed project.

Pursuant to CEQA Guidelines, potentially significant impacts would occur if implementation of the project would:

a) Conflict with or obstruct implementation of the applicable air quality plan;

b) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard;

c) Expose sensitive receptors to substantial pollutant concentrations; or

d) Create objectionable odors affecting a substantial number of people.

3.1.3.3.2 Project-Specific Impacts

Conflict with Air Quality Plan (Significance Threshold a):

No Impact. Based on the VCAPCD's *Ventura County Air Quality Assessment Guidelines* (VCAPCD, 2003), a significant air quality impact may occur if the project causes the existing population to exceed the growth forecast contained in the AQMP or if the project would be inconsistent with the emission reduction strategies contained in the AQMP. The VCAPCD adopted the 2016 Ventura County AQMP to demonstrate a strategy for and reasonable progress toward attainment of the federal 8-hour ozone standard. The 2016 Ventura County AQMP relies on the Southern California Association of Governments' (SCAG) 2016 Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS) forecasts of regional population growth in its projections for managing Ventura County's air quality.

The proposed project would involve installation of a WTP and pipeline segments to treat groundwater and provide the water for irrigation purposes and to the City's potable water system. The project is intended to improve the water quality produced by the existing LRGC well so it can be used again for LRGC irrigation and potable water supply. Achieving this objective would limit, or potentially eliminate, the need for reliance on imported water. The proposed project would not generate new housing or businesses. Consequently, it would not contribute directly or indirectly to population growth and would not cause exceedances of the growth forecasts employed in the 2016 Ventura County AQMP. Therefore, no impacts would occur.

Violate Air Quality Standards and Cumulatively Considerable Increase of Criteria Pollutant (Significance Threshold b):

Less than Significant Impact with Mitigation. See discussion below.

3.1.3.3.2.1 Methodology

Emissions for construction and operation of the WTP were estimated using the California Emissions Estimator Model Version 2016.3.2 (CalEEMod); emissions for construction of the pipelines were estimated in Road Construction Emissions Model (RCEM) Version 9.0.0. The RCEM model was used for the pipelines because it was designed specifically for linear construction projects. The analysis reflects the construction and operation of the project as described in the Project Description; minor changes include the two welders under the grading phase being inputted as generator sets as the welders would be anticipated to work off generator power, and the sheepsfoot compactor being inputted as a roller. Specific model inputs can be seen in the model outputs in Appendix B.

It was assumed the proposed project would comply with applicable regulatory standards. These inputs included project adherence to VCAPCD Rule 55 (Fugitive Dust) and Rule 74.2 (Architectural Coatings). This would include watering twice daily, a 12 percent unpaved road moisture content, and a 15 mph speed limit on unpaved roads. In addition, construction equipment was assumed to be a minimum Tier 2 equipment. This input is available in CalEEMod; however, RCEM does not allow for specifying Tier 2 or Tier 3 equipment; instead, RCEM uses a "Model Default Tier" which is based upon current regulations and is assumed to be a mix of tiers based upon CARB's database.

Pipeline construction would not involve a building construction or architectural coating phase; therefore, only the site preparation, grading, and paving phases were modeled for the pipelines. The emissions for overlapping phases between WTP construction and pipeline construction were summed to determine the maximum project emissions.

For operation, criteria pollutant emissions are generated from mobile sources and area sources. Mobile source emissions were assumed to be six roundtrips per day, with three daily roundtrips for chief operator (three shifts per day) and three daily roundtrips for shift operator (three shifts per day). Area source emissions include landscaping equipment and architectural coatings (painting).

3.1.3.3.2.2 Construction Emissions

Construction activities would generate temporary air pollutant emissions associated with fugitive dust (PM_{10} and $PM_{2.5}$), exhaust emissions from heavy construction vehicles, and ROC that would be released during the drying phase after application of architectural coatings. Table 3.1.3-1 summarizes maximum daily criteria pollutant emissions during construction of the project.

TABLE 3.1.3-1
CONSTRUCTION EMISSIONS

	Estimated Maximum Daily Emissions (pounds per day)					
	ROC	**NO_X**	**CO**	**SO_X**	**PM_{10}**	**$PM_{2.5}$**
WTP Construction						
Site Preparation	1.43	40.17	20.84	0.08	2.12	1.12
Grading	2.56	58.01	44.44	0.07	2.18	2.01
Building Construction	0.55	11.36	8.55	0.01	0.55	0.43
Paving	0.79	18.47	14.30	0.03	0.70	0.58
Architectural Coating	12.91	2.36	1.91	0.00	0.12	0.10
Pipeline Construction						
Site Preparation	1.37	12.38	11.84	0.03	0.60	0.56
Grading	3.47	31.96	31.79	0.07	1.54	1.46
Paving	1.27	11.84	10.34	0.02	0.59	0.54

	Estimated Maximum Daily Emissions (pounds per day)					
	ROC	**NO_X**	**CO**	**SO_X**	**PM_{10}**	**$PM_{2.5}$**
Combined WTP and Pipeline Phases						
Site Preparation	2.80	52.55	32.68	0.11	2.72	1.68
Grading	6.03	89.97	76.22	0.15	3.72	3.47
Paving/Building Construction	2.61	41.67	33.19	0.06	1.84	1.55
Maximum Emissions	**6.03**	**89.97**	**76.22**	**0.15**	**3.72**	**3.47**
VCAPCD Thresholds[1]	*25*	*25*	*N/A*	*N/A*	*N/A*	*N/A*
Threshold Exceeded?	**No**	**Yes**	**N/A**	**N/A**	**N/A**	**N/A**

[1] VCAPCD's Air Quality Assessment Guidelines state that these operational thresholds of significance (25 pounds per day) are not applicable for construction-related emissions because such emissions are temporary. However, the Guidelines state that emissions should be mitigated if they exceed these thresholds. There are no thresholds provided for CO, SO_X, PM_{10}, or $PM_{2.5}$

ROC: reactive organic compounds; NO_X: nitrogen oxides; CO: carbon monoxide; SO_X: sulfur oxides; PM_{10}: particulate matter less than 10 microns in diameter; $PM_{2.5}$: particulate matter less than 2.5 microns in diameter

WTP construction modeled in CalEEMod; pipeline construction modeled in RCEM; see Appendix B for model outputs.

As shown in Table 3.1.3-1, project emissions would exceed the NO_X threshold of 25 pounds per day during site preparation, grading, and the overlap of paving and building construction. As stated above, according to the VCAPCD Guidelines the 25 pounds per day threshold for NO_X does not apply to construction emissions since such emissions are temporary. However, the VCAPCD Guidelines also state that if construction emissions exceed 25 pounds per day, the emissions should be mitigated. Therefore, per this guidance, impacts from NO_X emissions are considered significant.

With respect to fugitive dust emissions, the VCAPCD states that significant construction-related air quality impacts result if fugitive dust emissions are generated in such quantities as to cause injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public, or which may endanger the comfort, repose, health, or safety of any such person or the public. For construction impacts, the VCAPCD recommends minimizing fugitive dust through dust control measures. Fugitive dust control measures are required by VCAPCD Rule 55. Such measures include securing tarps over truck loads, removing vehicle track-out using PM_{10} efficient sweepers, and watering bulk material to minimize fugitive dust. As a result, compliance with Rule 55 would ensure that construction emissions would not be generated in such quantities as to cause injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public, or that may endanger the comfort, repose, health, or safety of any such person or the public. Impacts from fugitive dust emissions would be less than significant.

3.1.3.3.2.3 Operational

Table 3.1.3-2 summarizes the project's operational emissions by emission source (area, energy, and mobile). As shown in Table 3.1.3-2, operational criteria pollutant emissions would be negligible, as the project would have minor area emissions from landscaping, the project would

not have energy sources of criteria pollutants, and as project-generated vehicle trips would be minor. Therefore, impacts would be less than significant.

TABLE 3.1.3-2
PROJECT OPERATIONAL EMISSIONS

	Maximum Daily Emissions (pounds per day)					
Emission Source	**ROC**	**NO_x**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
Area	1.0	<0.1	<0.1	<0.1	<0.1	<0.1
Energy	0	0	0	<0.1	0	0
Mobile	<0.1	<0.1	0.3	<0.1	<0.1	<0.1
Total Project Emissions	1.0	<0.1	0.3	<0.1	<0.1	<0.1
VCAPCD Thresholds	*25*	*25*	*N/A*	*N/A*	*N/A*	*N/A*
Threshold Exceeded?	**No**	**No**	**N/A**	**N/A**	**N/A**	**N/A**

N/A = not applicable

See Appendix B for model outputs.

3.1.3.3.2.4 Valley Fever

The population of Ventura County has been and will continue to be exposed to Valley Fever from agricultural and construction activities occurring throughout the region. The fungal spores responsible for Valley Fever generally grow in virgin, undisturbed soil. Soils along the project alignment are already disturbed from construction of roadways, parking lots, and the golf course. Due to the previous amount of disturbance along the alignment, disturbance of soils during construction activities is unlikely to pose a substantial risk of infection. Substantial increases in the number of reported cases of Valley Fever tend to occur only after major ground-disturbing events such as the 1994 Northridge earthquake (VPAPCD, 2003). Construction of the proposed project would not result in a comparable amount of ground disturbance. Furthermore, compliance with VCAPCD Rule 55 (fugitive dust) would reduce fugitive dust generation, which would further minimize the risk of infection. Therefore, construction of the proposed project would not significantly increase the risk to public health above existing background levels. Because the project site does not pose a substantial risk for Valley Fever, Valley Fever-specific mitigation measures detailed in the VCAPCD Guidelines would not be required.

Expose Sensitive Receptors (Significance Threshold c):

Less than Significant Impact. The VCAPCD defines sensitive receptors as facilities or land uses that include members of the population that are particularly sensitive to the effects of air pollutants, such as children, the elderly, and people with illnesses. Examples of sensitive receptors listed in the VCAPCD Guidelines include schools, hospitals, and daycare centers (VCAPCD, 2003). The WTP and pipeline alignments would occur as close as 600 feet to existing residences to the southeast; no schools, hospitals, or daycare centers are located within 0.25 mile of the WTP or pipeline alignments.

3.1.3.3.2.5 Construction

Construction-related activities would result in short-term, project-generated emissions of diesel particulate matter (DPM) exhaust emissions from off-road, heavy-duty diesel equipment for site preparation grading, building construction, and other construction activities. DPM was identified as a toxic air contaminant (TAC) by CARB in 1998. The potential cancer risk from the inhalation of DPM (discussed in the following paragraphs) outweighs the potential non-cancer health impacts (CARB, 2017). At this time, VCAPCD has not adopted a methodology for analyzing such impacts.

Generation of DPM from construction projects typically occurs in a single area for a short period. Construction of the proposed project would occur over approximately one year. The dose to which the receptors are exposed is the primary factor used to determine health risk. Dose is a function of the concentration of a substance or substances in the environment and the extent of exposure that person has with the substance. Dose is positively correlated with time, meaning that a longer exposure period would result in a higher exposure level for the Maximally Exposed Individual. The risks estimated for a Maximally Exposed Individual are higher if a fixed exposure occurs over a longer period of time. According to the Office of Environmental Health Hazard Assessment, health risk assessments, which determine the exposure of sensitive receptors to toxic emissions, should be based on a 70-year exposure period; however, such assessments should be limited to the period/duration of activities associated with the project. Thus, the duration of proposed construction activities, i.e., 12 months, is approximately one percent of the total exposure period used for health risk calculation. However, current models and methodologies for conducting health-risk assessments are associated with longer-term exposure periods of 9, 40, and 70 years, which do not correlate well with the temporary and highly variable nature of construction activities, resulting in difficulties in producing accurate estimates of health risk (Bay Area Air Quality Management District, 2017).

As shown in Table 3.1.3-1, the maximum PM_{10} and $PM_{2.5}$ emissions would occur during site preparation and grading activities. This period would last for approximately six months. PM emissions would decrease for the remaining construction period because construction activities such as building construction and paving would require less construction equipment. While the maximum DPM emissions associated with site preparation and grading activities would only occur for a portion of the overall construction period, these activities represent the worst-case condition for the total construction period. This would represent less than one percent of the total exposure period for health risk calculation. In addition, the closest sensitive receptors are located approximately 600 feet from construction activities. Therefore, given the aforementioned, DPM generated by project construction is not expected to create conditions where the probability is greater than 1 in 1 million of contracting cancer for the Maximally Exposed Individual or to generate ground-level concentrations of noncarcinogenic TACs that exceed a Hazard Index greater than 1 for the Maximally Exposed Individual. This impact would be less than significant.

3.1.3.3.2.6 Operation

Traffic-congested roadways and intersections have the potential to generate elevated localized carbon monoxide (CO) levels (i.e., CO hotspots). In general, CO hotspots occur in areas with poor circulation or areas with heavy traffic. Existing CO levels in Ventura County have been historically low enough that VCAPCD monitoring stations throughout the county ceased

monitoring ambient CO concentrations in March and July 2004 (VCAPCD, 2010). The proposed project would require a minor number of trips per day (six roundtrips). Therefore, the project would not result in CO hotspots on adjacent roadways. Operational equipment at the wellhead or WTP would not result in emissions of TACs. Therefore, the project would not expose sensitive receptors to substantial pollutant concentrations and impacts would be less than significant.

Create Objectionable Odors (Significance Threshold d):

Less than Significant Impact. Project construction could generate odors associated with heavy-duty equipment operation and earth-moving activities. Such odors would be temporary in nature and limited to the duration of construction in the vicinity of a given site along the project's development and alignment.

The proposed pipelines would be installed below ground and would not create objectionable odors during project operation. The WTP would result in hydrogen sulfide emissions. As part of project design, the project would incorporate iron sponges and/or biofilters to reduce hydrogen sulfide emissions. In addition, these emissions would occur approximately 600 feet from the nearest residences, allowing for atmospheric dispersion and attenuation of the emissions. Therefore, impacts from odors would be less than significant.

3.1.3.4 Mitigation Measures

Implementation of Mitigation Measure AQ-1 would reduce impacts from construction emissions of NO_X to a less than significant level.

MM AQ-1: Per VCAPCD Guidelines, when construction emissions exceed 25 pounds per day for NO_X, the following measures shall be implemented:

- Minimize equipment idling time.
- Maintain equipment engines in good condition and in proper tune as per manufacturers' specifications.
- Lengthen the construction period during smog season (May through October) to minimize the number of vehicles and equipment operating at the same time.
- Use alternatively fueled construction equipment, such as compressed natural gas, liquefied natural gas, or electric, if feasible.
- In addition, per recent VCAPCD guidance on other projects, project construction shall use Tier 3 or above construction equipment for all off-road diesel equipment that has greater than 50 horsepower. A copy of each unit's certified tier specification shall be provided at the time of mobilization of each applicable unit of equipment.

3.1.3.5 Significance After Mitigation

Project construction emissions with implementation of **MM AQ-1** are shown in Table 3.1.3-3. As shown in the table, emissions of NO_X would be reduced approximately 27 percent from the use of Tier 3 equipment compared to Tier 2 equipment. The VCAPCD does not require a project to mitigate below 25 pounds per day, and instead requires the implementation of the specified

measures outlined in **MM AQ-1**. Therefore, with implementation of **MM AQ-1**, impacts would be less than significant.

TABLE 3.1.3-3
MITIGATED CONSTRUCTION EMISSIONS

	Estimated Maximum Daily Emissions (pounds per day)					
	ROC	**NO_X**	**CO**	**SO_X**	**PM_{10}**	**$PM_{2.5}$**
WTP Construction						
Site Preparation	1.17	31.57	20.84	0.08	2.12	1.12
Grading	1.72	34.12	44.44	0.07	2.16	1.99
Building Construction	0.36	6.78	8.55	0.01	0.55	0.43
Paving	0.62	10.97	14.30	0.03	0.69	0.57
Architectural Coating	12.85	1.37	1.91	0.00	0.12	0.10
Pipeline Construction[1]						
Site Preparation	1.37	12.38	11.84	0.03	0.60	0.56
Grading	3.47	31.96	31.79	0.07	1.54	1.46
Paving	1.27	11.84	10.34	0.02	0.59	0.54
Combined WTP and Pipeline Phases						
Site Preparation	2.54	43.95	32.68	0.11	2.72	1.68
Grading	5.19	66.09	76.22	0.15	3.70	3.45
Paving/Building Construction	2.25	29.59	33.19	0.06	1.83	1.54
Maximum Emissions - Mitigated	**5.19**	**66.09**	**76.22**	**0.15**	**3.70**	**3.45**
Maximum Emissions – Unmitigated (3.1.3-1)	**6.03**	**89.97**	**76.22**	**0.15**	**3.72**	**3.47**
Reduction	**14%**	**27%**	**0%**	**3%**	**1%**	**0%**

[1]RCEM does not allow for specifying Tier 2 or Tier 3 equipment; instead, RCEM uses a "Model Default Tier" which is based upon current regulations and is assumed to be a mix of tiers based upon CARB's database. Therefore, the results for pipeline construction are the same as under the unmitigated results. Equipment under pipeline construction will still be equipped with Tier 3 equipment per Mitigation Measure AQ-1.
ROC: reactive organic compounds; NO_X: nitrogen oxides; CO: carbon monoxide; SO_X: sulfur oxides; PM_{10}: particulate matter less than 10 microns in diameter; $PM_{2.5}$: particulate matter less than 2.5 microns in diameter
WTP construction modeled in CalEEMod; pipeline construction modeled in RCEM; see Appendix B for model outputs.

3.1.4 BIOLOGICAL RESOURCES

Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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 U.S. Fish and Wildlife Service?	☐	☒	☐	☐
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 U.S. Fish and Wildlife Service?	☐	☒	☐	☐
c) Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?	☐	☒	☐	☐
d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?	☐	☐	☐	☒
e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?	☐	☒	☒	☐
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?	☐	☐	☐	☒

3.1.4.1 Environmental Setting

3.1.4.1.1 Literature and Database Review

Rincon completed a desktop review to obtain baseline information about the biological resources with potential to occur at the project site and surrounding areas. The desktop review included information from standard biological reference materials, regionally applicable regulatory guiding documents, and relevant scientific databases, including (but not limited to) the following:

- The Jepson Manual (Baldwin et al. 2012)
- A Manual of California Vegetation (Sawyer et al. 2009)
- California Department of Fish and Wildlife (CDFW) California Natural Diversity Database (CNDDB) (CDFW 2019a)
- Biogeographic Information and Observation System (BIOS) (CDFW 2019b)
- CDFW Special Animals List (CDFW 2018a)
- Calflora (Calflora 2019)
- United States Fish and Wildlife Service (USFWS) Critical Habitat Portal (USFWS 2019a)
- National Wetlands Inventory (NWI; USFWS 2019b)
- United States Department of Agriculture (USDA), Natural Resources Conservation Service (NRCS) Web Soil Survey (USDA NRCS 2019)
- California Native Plant Society (CNPS) Online Inventory of Rare and Endangered Plants of California (CNPS 2019)

The database queries included the *Thousand Oaks, California* United States Geological Survey (USGS) 7.5-minute topographic quadrangle and the surrounding eight USGS quadrangles (*Newbury Park, Triunfo Pass, Point Mugu, Camarillo, Santa Paula, Moorpark, Simi, and Point Dume, California*). The database results for all nine quadrangles (referred to herein as the project region) were reviewed and further focus of potentially occurring special-status species was narrowed into the project vicinity of a 5-mile radius around the project site.

Rincon compiled a list of special-status species previously documented within the nine quadrangles. Rincon analyzed this list to determine which of these species have the potential to occur within the project site based on existing conditions observed during the field survey. The habitat requirements for each species listed were assessed and compared to the type and quality of habitats observed on-site during a field survey, discussed in Section 1.1.1.1.2.

This analysis documents floral nomenclature for native and non-native flora and vegetation categories as derived from the Jepson Manual, 2nd Edition (Baldwin et al. 2012) and as updated by the Jepson Flora Project (University of California 2018). Additionally, A Manual of California Vegetation, Second Edition (Sawyer et al. 2009) was used as guidance in classifying

vegetation alliances. Zoological nomenclature is based upon the American Ornithologists Union's (2010) Check-list of North American Birds for avian species and based upon Mammals of North America (Bowers et. al. 2004) for mammals.

3.1.4.1.2 Field Survey

The field reconnaissance survey consisted of a 100% pedestrian survey of the project site, plus a 50-foot buffer, identified as the survey area. Binoculars were used to scan areas outside of the property boundaries (project site) where access to private property was limited or restricted. Rincon Senior Biologist, Robin Murray, conducted the field survey from 0800 to 1000 on April 4, 2019. Weather conditions during the survey were fair, with 100 percent cloud cover, and a temperature of approximately 58 degrees Fahrenheit.

During the field survey, Rincon's biologist identified the plant and wildlife species encountered, including special-status species and protected trees, assessed the suitability of habitats within the survey area for special-status species, and documented potentially jurisdictional waters and wildlife connectivity/movement features. The survey area was photographed, and any significant findings on-site were mapped on aerial imagery.

Subsequent to the field survey, the jurisdictional limits of drainages within the survey area were established using desktop review of aerial photography. The jurisdictional boundary was determined as the edge of riparian vegetation, which is typically the greatest lateral extent of CDFW jurisdiction and inclusive of USACE and LARWQCB jurisdictional areas. The regulatory agencies make the final determination regarding their jurisdictional limits.

3.1.4.1.3 Site Location and Description

The project site occurs in a developed portion of the City, with portions of the project site within the Los Robles Golf Course (LRGC). To the north of the project is U.S. Route (U.S.) 101. The topography of the project site is flat, with elevations ranging from approximately 690 to 760 feet above mean sea level. The raw water and irrigation water line would be installed underground directly adjacent to an existing paved golf cart pathway. South of the path is the developed golf course. To the north of and parallel to the path is a narrow strip of trees and other vegetation along a natural and unimproved stormwater drainage. North of the drainage is a major freeway (U.S. 101). The southeastern extent of the project site includes a limited use paved parking lot.

3.1.4.1.4 Soils

The western half of the raw water line alignment consists of the mapped soil unit Riverwash. The remainder of the project areas consist of Cropley clay, two to nine percent slopes. Cropley clay occurs on terraces and alluvial fans consisting of well drained clay soils. The majority of the project area is either landscaped as part of the LRGC or paved with roads and a parking lot to the southeast of the project site.

3.1.4.1.5 Potentially Jurisdictional Water Features

Two potentially jurisdictional features were observed within the study area. The NWI (USFWS 2019b) depicts an excavated drainage immediately to the north of the paved golf cart pathway, adjacent to the proposed raw water and irrigation water line location. This drainage feature is

classified as PSSAx[1] in the NWI Wetlands and Deepwater Habitats Classification. The feature is mostly an earthen drainage and did not contain flowing water at the time of the survey; however, it contained a few areas of standing water. The feature occurs entirely north of the paved pathway. No jurisdictional delineation was completed at the time of the survey; however, this drainage is likely within the regulatory jurisdiction of the United States Army Corps of Engineers (USACE), CDFW, and/or SWRCB.

A second water feature depicted in the NWI is classified as R4SBC[2], and is located within the landscaped portion of the golf course. During the site visit, there was no indication of this feature, or any evidence of a water resource, including hydrologic indicators, saturated soils, surface soil cracks, or wetland indicator botanical species. This feature is not likely to be delineated as a jurisdictional water or wetland due to the absence of these indicators.

While the drainage is likely within the regulatory jurisdiction of the USACE, CDFW, and/or SWRCB, the pipeline has been designed to avoid these potentially jurisdictional areas by being aligned outside of the edge of riparian vegetation, which is typically the most conservative estimate of these agencies' jurisdictional limits. Therefore, a formal jurisdictional delineation was not conducted.

3.1.4.1.6 Vegetation

The survey area consists primarily of the landscaped golf course and the vegetated drainage to the north of the golf cart pathway (Figure 2). The golf course consists primarily of non-native and ornamental species, including blue gum eucalyptus (*Eucalyptus globulus*) and European olive (*Olea europaea*), as well as ornamental golf course grasses. The area north of the golf cart pathway is a drainage consisting of a mix of native and non-native species characterized as a disturbed mixed woodland. This community is dominated by California sycamore (*Platanus racemosa),* coast live oak (*Quercus agrifolia*), oleander (*Nerium oleander*), Fremont cottonwood (*Populus fremontii*), arroyo willow (*Salix lasiolepis*) and Mexican fan palm (*Washingtonia robusta*) in the tree layer. The shrub layer consists of primarily of poison oak (*Toxicodendron diversilobum*), mulefat (*Baccharis salicifolia*), and lollypop tree (*Myoporum laetum*). The herbaceous layer is dominated by non-native species such as tocalote (*Centaurea melitensis*), redstem filaree (*Erodium cicutarium*), and Bermuda grass (*Cynodon dactylon*). The drainage is disturbed by historical drainage modification and frequented by the homeless. It is bound between U.S. 101 and the golf course.

3.1.4.1.7 Wildlife

The survey area provides marginally suitable habitat for wildlife species that commonly occur in mixed woodland edge habitats and open foraging areas. The only avian species identified during the field survey was dark-eyed junco (*Junco hyemalis*). However, a number of common avian species likely occur within the survey area, including, but not limited to, house finch (*Carpodacus mexicanus*), red-tailed hawk (*Buteo jamaicensis*), oak titmouse (*Baeolophus inornatus*), and black phoebe (*Sayornis nigricans*). Some waterfowl species may occupy the golf

[1] Wetlands and Deepwater Habitats Classification (USFWS 2019b): PSSAx: Palustrine, Scrub-Shrub, Temporarily Flooded, Excavated

[2] Wetlands and Deepwater Habitats Classification (USFWS 2019b): R4SBC: Riverine, Intermittent, Streambed, Seasonally Flooded

course area including American coot (*Fulica americana*) and mallard (*Anas platyrhynchos*). No mammals, reptiles, or amphibians were observed during the field survey. Common wildlife species likely to occur in the survey area for cover, forage, and breeding, included, Coast Range fence lizard (*Sceloporus occidentalis bocourtii)*, western side-blotched lizard (*Uta stansburiana elegans*), Baja California treefrog (*Pseudacris hypochondriaca*), and gopher snake (*Pituophis catenifer*). The drainage does not hold water long enough to support aquatic habitat for fish species.

3.1.4.2 Regulatory Setting

Regulated resources reviewed and analyzed herein include special-status plant and animal species, nesting birds and raptors, sensitive plant communities, jurisdictional waters and wetlands, wildlife movement, and other locally protected resources, such as protected trees. Regulatory authority over biological resources is shared by federal, state, and local authorities. Primary authority for regulation of general biological resources lies within the land use control and planning authority of local jurisdictions (in this instance, the City of Thousand Oaks).

For this report, potential impacts to biological resources were analyzed based on the following statutes:

- California Environmental Quality Act (CEQA)
- Federal Endangered Species Act (FESA)
- California Endangered Species Act (CESA)
- Federal Clean Water Act (CWA)
- California Fish and Game Code (CFGC)
- Migratory Bird Treaty Act (MBTA)
- Bald and Golden Eagle Protection Act
- Porter-Cologne Water Quality Control Act
- City of Thousand Oaks General Plan and Municipal Code
- City of Thousand Oaks Oak Tree Preservation and Protection Ordinance
- City of Thousand Oaks Landmark Tree Preservation and Protection Ordinance

This section discusses regulated biological resources observed within the survey area and evaluates the potential for the project site to support additional regulated biological resources. Assessments for the potential occurrence of special-status species are based upon known ranges, habitat preferences for the species, species occurrence records from the CNDDB, species occurrence records from other sites in the vicinity of the project site, previous reports for

the project site, and the results of a survey of the project site. The potential for each special-status species to occur in the project site was evaluated according to the following criteria:

- **No Potential.** Habitat on and adjacent to the site is clearly unsuitable for the species requirements (foraging, breeding, cover, substrate, elevation, hydrology, plant community, site history, disturbance regime), and species would have been identifiable on-site if present.

- **Low Potential.** Few of the habitat components meeting the species requirements are present, and/or the majority of habitat on and adjacent to the site is unsuitable or of very poor quality. The species is not likely to be found on the site.

- **Moderate Potential.** Some of the habitat components meeting the species requirements are present, and/or only some of the habitat on or adjacent to the site is unsuitable. The species has a moderate probability of being found on the site.

- **High Potential.** Most or all of the habitat components meeting the species requirements are present and/or most of the habitat on or adjacent to the site is highly suitable. The species has a high probability of being found on the site.

- **Present.** Species is observed on the site or has been recorded (e.g., CNDDB, other reports) on the site recently (within the last 5 years).

The results of the reconnaissance-level field survey, review of relevant literature, and database queries are further discussed below.

3.1.4.2.1 Special-Status Species

Special-status species determined to have the potential to occur within the project site are discussed below. Several regionally occurring special-status species were considered absent due to lack of suitable habitat within the project site, range in elevation, and/or geographic distribution. Special-status species determined not to have potential to occur within the project site are not discussed further.

Special-Status Plants

Appendix C – Table 1 provides a list of special-status plant species known to occur within the region (within the nine-quadrangle database search) and rationale for potential occurrence. Special-status plant species have very specialized habitat requirements, including plant communities, soils, and elevation limits. The proposed project occurs within a previously developed golf course that lacks these requirements. Therefore, no special-status plant species are expected to occur within the site.

Special-Status Animals

Appendix C –Table 2 provides a list of special-status animal species known to occur within the region and rationale for potential occurrence. Seven regionally occurring special-status animal species have low potential to occur in or near the project site:

- California legless lizard (*Anniella sp.*) – CDFW Species of Special Concern (SSC)

- Coastal whiptail (*Aspidoscelis tigris stejnegeri*) – CDFW SSC
- Western pond turtle (*Emys marmorata*) – CDFW SSC
- Two-striped garter snake (*Thamnophis hammondii*) – CDFW SSC
- Cooper's hawk (*Accipiter cooperii*) – CDFW SSC
- Western mastiff bat (*Eumops perotis californicus*) – CDFW SSC
- Western red bat (*Lasiurus blossevillii*) – CDFW SSC

These species were not identified in the survey area; however, they may potentially occur in the project site based on presence of marginal habitat and nearest documented occurrences.

3.1.4.2.2 Sensitive Natural Communities

Natural communities with ranks of S1-S3[3], listed within the CDFW CNDDB are considered sensitive natural communities. Sensitive natural communities identified within the project region are summarized in Appendix C – Table 3.

No defined sensitive communities were identified in the survey area. During the field survey, guidance from Sawyer et al. (2009) was used to assist in defining vegetation communities. The community identified within the northern drainage was characterized as a disturbed mixed woodland consisting of native and non-native vegetation, which is not considered sensitive by the CDFW. This vegetation community, however, may support species consistent with plant species that occur in riparian habitat, such as willows and sycamores. Plant species occuring in this area may also support bed and bank stabilization of the adjacent drainage, thus, this habitat may be regulated by the CDFW. The remainder of the survey area was a landscaped golf course and developed areas.

No USFWS or National Marine Fisheries Services defined critical habitat for listed species occurs within or adjacent to the project site.

3.1.4.2.3 Wildlife Movement

Wildlife movement corridors, or habitat linkages, are generally defined as connections between habitat patches that allow for physical and genetic exchange between otherwise isolated animal populations. The project site is located in Thousand Oaks adjacent to a heavily trafficked intersection into a commercial development. The site is located in an area where habitat has been highly fragmented by urban, industrial, and golf course developments. It is also located directly adjacent to U.S. 101. Due to the presence of developed or disturbed areas on all sides of the site, it does not serve as a regional wildlife corridor.

[3] Natural Communities are evaluated using NatureServe's Heritage Methodology, the same system used to assign global and state rarity ranks for plant and animal species in the CNDDB. Natural Communities with ranks of S1-S3 are considered Sensitive Natural Communities to be addressed in the environmental review processes of CEQA and its equivalents. For more information: https://www.wildlife.ca.gov/data/vegcamp

3.1.4.2.4 Local Policies and Ordinances

The City implements ordinances and guidelines, which regulate removal and development around oak and landmark trees. The oak trees present within the project site are subject to the protections of the City's Oak and Landmark Tree Preservation and Protection Guidelines.

3.1.4.2.5 Adopted and Approved Plans

The project site does not occur within any Habitat Conservation Plan, Natural Conservation Community Plan, or other approved local, regional, or state habitat conservation plans.

3.1.4.3 Impact Analysis

3.1.4.3.1 Significance Thresholds

This evaluation assesses potential impacts to biological resources resulting from the proposed project.

Pursuant to CEQA Guidelines, potentially significant impacts would occur if implementation of the project would:

a) *Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as candidate, sensitive, or special-status 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*.

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 U.S. Fish and Wildlife Service.*

c) *Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means.*

d) *Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors or impede the use of native wildlife nursery sites.*

e) *Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance.*

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.*

3.1.4.3.2 Project-Specific Impacts

a) *Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as candidate, sensitive, or special-status 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*. (Significance Threshold a):

Less than Significant Impact with Mitigation Incorporated. Seven special-status animal species were determined to have low potential to occur within the project site (see Appendix C – Table 2 for further details). Rationale for potential for occurrence was based on the presence of potentially suitable habitat within, or adjacent to, the project site, and documented occurrences within the project vicinity. No special-status species were identified during the biological survey on April 4, 2019.

Potentially significant impacts to the special-status animal species could occur during ground disturbance, vegetation trimming, and construction equipment transport and operation of heavy equipment in the vicinity of the vegetated drainage feature in the form of harassment and/or injury, noise disruption, and potential water quality degradation, if water is present. In addition, nesting birds protected under the MBTA and CFGC may also be impacted as suitable habitat for nesting occurs in the project site.

With the implementation of mitigation measures BIO-1 through BIO-3, impacts to special-status species would be less than significant.

> *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 U.S. Fish and Wildlife Service (Significance Threshold b):*

Less than Significant Impact with Mitigation Incorporated. No sensitive natural communities were identified within the project site. The disturbed mixed woodland identified within the survey area is degraded and currently disturbed by the homeless, reducing the quality it provides as wildlife habitat. This vegetation community, however, may support species consistent with plant species occurring in riparian habitat, such as willows and sycamores.

Plant species occurring in this area may also support bed and bank stabilization of the adjacent drainage, thus, this habitat may be regulated by the CDFW. If work limits are not accurately demarcated and maintained, direct impacts to this habitat could occur through trampling of vegetation or damage to trees. Implementation of mitigation measures BIO-4a and BIO-4b would reduce potential impacts to native riparian vegetation adjacent to the project site to less than significant.

> *c) Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means (Significance Threshold c):*

Less than Significant Impact with Mitigation Incorporated. The drainage identified directly north of the project site within the survey area is likely a water of the U.S. and/or state subject to the jurisdiction of the USACE, RWQCB, and/or CDFW. Direct impacts to water resources due to excavation and grading activities within the jurisdictional area of the drainage would be avoided by maintaining a minimum 10-foot construction buffer from the edge of jurisdictional areas. Indirect impacts may occur through contaminated run-off into the drainage channel and equipment and vehicle use within the project site.

Implementation of mitigation measure BIO-4 would reduce potential indirect impacts to the drainage channel to less than significant.

d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors or impede the use of native wildlife nursery sites (Significance Threshold d):

No Impact. The project would not result in any permanent impediments to existing migratory pathways or movement corridors. The proposed new water lines will all be underground and will not result in any above ground barriers to movement. The proposed pump station structures will be located adjacent to existing paved roadways at the northeast corner of the LRGC and would not substantially alter movement patterns in this area.

e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance (Significance Threshold e):

Less than Significant Impact with Mitigation Incorporated. The oak trees present within the project site are subject to the protections of the City's Oak Tree Preservation and Protection Guidelines (Guidelines) as well as the Landmark Tree Preservation and Protection Ordinance. Specifically, the Guidelines state new construction activities must not result in the removal or pruning of any oak trees with a trunk diameter greater than two inches, nor shall activity such as grading encroach upon the Tree Protection Zone (TPZ), defined as the area extending five feet outward from a tree's dripline. If such impacts are anticipated, impacted trees must be replaced either on-site or off-site for consistency with the ordinance. A maintenance and care program must also be implemented to ensure the continued health of any trees for which pruning or encroachment is approved.

The Landmark Tree Preservation and Protection Ordinance protects California sycamore which exceed 12 inches diameter at 4.5 feet height, California bay laurel (*Umbellularia californica*) which exceed 8 inches diameter at 4.5 feet height, California black walnut (*Juglans californica*) which exceed 8 inches diameter at 4.5 feet height, and toyon (*Heteromeles arbutifolia*) which exceeds 8 inches diameter at 4.5 feet height.

A Rincon certified arborist completed an Oak and Landmark Tree Report (Rincon 2019, Appendix C1) to map and evaluate protected trees within or adjacent to the project site. Of the 30 protected trees identified within the site, three trees are recommended for removal because more than 30% of the trees' TPZs would be impacted, five trees could have up to 20% of their TPZs impacted, 16 trees are anticipated to have less than 5% of their TPZs impacted, and six trees are not anticipated to be impacted. Three protected oak trees are currently recommended for removal due to their close proximity to the project components, which is likely to result in impacts exceeding 30% of the canopy or roots. The project plans, however, have not been finalized and the project components may be adjusted to the point that protected tree removal is not required.

While the aforementioned protected trees may be encroached upon or removed by the project, the proposed project will comply with the regulations contained in the Oak Tree Preservation and Protection Guidelines (Thousand Oaks Municipal Code Title 9, Chapter 4, Article 42) as well as the Landmark Tree Preservation and Protection Ordinance (Thousand Oaks Municipal Code Title 9, Chapter 4, Article 43). Project construction shall avoid impacts to the protected zone of these trees, where feasible. If impacts to these protected resources are unavoidable, a Protected Tree Replacement and Planting Plan will be developed for the project in accordance with City Guidelines. In addition, MM BIO-5 shall be implemented to assure impacts to protected

trees are avoided or minimized during project construction. With implementation of MM BIO-5, the project would not conflict with local policies or ordinances protecting biological resources and potential impacts would be less than significant.

> *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 (Significance Threshold f):*

No Impact. The project site does not occur within any Habitat Conservation Plan, Natural Conservation Community Plan, or other approved local, regional, or state habitat conservation plans. Therefore, the proposed project would not conflict with approved local, regional, or state habitat conservation plans.

3.1.4.4 Mitigation Measures

The following mitigation measures would be required to reduce impacts to special-status species, sensitive natural communities, and potentially jurisdictional waters and wetlands to a less than significant level.

BIO-1 Worker Environmental Awareness Program

Prior to initiation of all construction activities (including staging and mobilization), all personnel associated with project construction shall attend a Worker Environmental Awareness Program (WEAP) training, conducted by a qualified biologist, to aid workers in recognizing special-status biological resources that may occur in the project area. This training will include information about the special-status species with potential to occur in the project area.

The specifics of the WEAP shall include identification of special-status species and habitats, a description of the regulatory status and general ecological characteristics of regulated resources, and review of the limits of construction and measures required to avoid and minimize impacts to biological resources within the work area. A fact sheet conveying this information shall also be prepared for distribution to all contractors, their employees, and other personnel involved with construction of the project. All employees shall sign a form, provided by the trainer, documenting they have attended the WEAP, and understand the information presented to them. The crew foreman shall be responsible for ensuring that crew members adhere to the guidelines and restrictions designed to avoid impacts to regulated species.

BIO-2 Pre-Construction Wildlife Surveys and Avoidance/Relocation

Within five days prior to the commencement of project activities, a qualified biologist shall conduct pre-construction surveys in all portions of the access and construction area, particularly those containing natural vegetation. The biologist conducting the survey will document existing conditions and search for special-status species. In the event legless lizard, coastal whiptail, western pond turtle, or two-striped garter snake are found, the on-site qualified biologist may relocate the animal to similar habitat away from construction activities, at least 200-feet from any area of project construction. This survey may be timed during the nesting bird survey, if necessary, outlined in BIO-3.

BIO-3 Nesting Birds

To avoid disturbance of nesting birds, including raptors, activities related to the project including, but not limited to, vegetation removal, tree and brush trimming, ground disturbance, and construction activities shall occur outside of the bird breeding season (February 1 through August 31). If vegetation clearing or other project construction activities must be initiated during the bird breeding season (February 1 through August 31), pre-construction/grading surveys must be conducted by a qualified biologist.

Surveys must be conducted no more than five days prior to the initiation of clearance/ construction work. If any active non-raptor bird nests are found, a suitable buffer area (varying from 50-300 feet depending on the particular species found), must be established from the nest, and that area must be avoided until the nest becomes inactive (vacated). If any active raptor bird nests are found, a suitable buffer area of typically 50-500 feet from the nest must be established, and that area must be avoided until the nest becomes inactive (vacated). The limits of construction to avoid a nest will be established in the field with flagging and stakes or construction fencing. Construction personnel must be instructed on the sensitivity of the area by a qualified biologist. Encroachment into buffers around active nests may occur only at the discretion of the qualified biologist. Results of the recommended protective measures described above shall be recorded to document compliance with applicable state and federal laws pertaining to the protection of nesting birds.

BIO-4 Jurisdictional Waters Avoidance and Minimization

The drainage channel shall be avoided by maintaining a 10-foot construction buffer from jurisdictional limits.

The following Best Management Practices shall be implemented by the construction team to minimize potential indirect impacts to the drainage:

- Prior to the start of project activities, all limits of construction work adjacent to the drainage shall be clearly delineated with orange construction fencing or similar highly visible material and maintained throughout the duration of construction.

- Any material/spoils generated from project activities shall be located away from the jurisdictional limit to the extent practicable and protected from stormwater run-off using temporary perimeter sediment barriers such as berms, silt fences, fiber rolls, covers, sand/gravel bags, and straw bale barriers, as appropriate.

- Materials shall be stored on impervious surfaces or plastic ground covers to prevent spills or leakage from contaminating the ground and generally at least 50 feet from the top of bank.

- Any spillage of material shall be stopped if it can be done safely. The contaminated area will be cleaned and any contaminated materials properly disposed. For all spills, the project foreman shall be notified.

- All vehicles and equipment shall be in good working condition and free of leaks.

- Erosion control and landscaping specifications shall allow only natural-fiber, biodegradable meshes and coir rolls, (i.e., no plastic-mesh temporary erosion control measures).

- Equipment and vehicles shall be free of caked on mud and weed seeds/propagules before accessing and leaving the project site.

BIO-5 Protected Tree Avoidance and Minimization

Impacts to protected trees will be avoided to the extent feasible through implementation of the following measures.

Construction Phase

Oversight of Impacts to Trees

No person should impact protected trees without oversight by a certified arborist or qualified personnel under the arborist's direct supervision. A daily log will be completed by the arborist that documents all root and branch cuts (size, number, and location) for each tree. In addition, a copy of this report, the protected tree location map, and the approved City permit, if applicable, should be on site at all times.

Fencing/Signage

The project is located on private property or public right of ways and generally linear in nature. Typical fencing around protected trees is not required during linear construction because establishing fencing, then moving the fencing daily for construction, is not feasible. As an alternative, portable standalone signs should be placed at TPZs when construction activities are within 10 feet of protected trees. The signs should say "Tree Protection Zone, Contact LRGC Representative" and should remain in place throughout the temporary period of construction (i.e., may be moved overnight and replaced at the start of the work day, or left in place until construction activities in the area are completed). The signs should be moved along the right-of-way as the linear construction progresses.

In areas where typical fencing is feasible (i.e., in the parking lot within the project limits), a chain-link fence at least five feet in height should be installed around the TPZs and shown on a site plan. Additionally, signs should be installed at four locations equidistant around each tree; around a grove of trees, signs shall be placed at approximately 50-foot intervals. The size of each sign must be two (2') feet by two (2') feet in size. The signs shall say "WARNING. This fence shall not be removed or relocated without the written authorization from the Community Development Director" and should remain in place throughout the period of construction. The TPZs should be shown on site plans. Presence of the signs should be confirmed by a representative of the Community Development Director or certified arborist.

Grading/Excavation/Trenching

Where potholing, trenching, or any other ground disturbing activity occurs and/or is specifically shown on the project plans within a tree's TPZ, the activity should be done slowly so that when roots are encountered, they are not ripped or damaged by equipment. Hand tools or small hand-

held power equipment should be utilized, as feasible. Cutting roots two inches in diameter or greater should be avoided wherever possible.

Root Severance

When root cutting occurs, exposed major roots that are greater than one inch in diameter (per the Guidelines) should not be ripped by construction equipment and should be preserved to the extent feasible. If roots greater than one inch are required to be cut to allow for construction, cuts should be clean and made at right angles to the roots. New cuts should be covered with absorbent tarp or heavy cloth fabric.

Pruning/Trimming

All pruning/trimming should be performed consistent with the ANSI A300 Pruning Standard (ANSI 2017) and should adhere to the most recent edition of ANSI Z133.1. Pruning/trimming of protected trees will be limited to only what is necessary for construction. Climbing spurs and spikes should not be used, except in cases of emergency.

Soil Compaction

Soil compaction imposes a complex set of physical, chemical, and biological constraints on tree growth. Principal components leading to limited growth are the loss of aeration and pore space, poor gas exchange with the atmosphere, lack of available water, and mechanical impedance of root growth. Soil compaction is the largest single factor responsible for the decline of trees on construction sites. Given the current site conditions (golf course, pathways, and bare dirt), most of the existing protected trees likely already have compacted soil within the project limits. The following guidelines are recommended to protect trees from any additional soil compaction that may occur due to project activities:

- No equipment or materials will be stored under canopies, or within the TPZ of protected trees (except in areas of paved asphalt or concrete sidewalks). On-site staging, storage and washing of construction materials and equipment will be limited to designated and approved areas. Steel traffic plates should be employed to protect sensitive root zones as needed.
- In areas of paved asphalt or concrete sidewalks, equipment may travel within TPZs without a monitor present. If pavement or asphalt is being removed within TPZs, or equipment must travel in areas of exposed soil, a certified arborist should monitor and document the activity.

Exhaust Exposure

Equipment should limit or avoid travel within TPZs (under tree canopies) to reduce impacts from equipment exhaust exposure. If equipment must operate within TPZs, the exhaust should be directed away from the foliage of protected trees, as feasible. When equipment is operating within TPZs, a certified arborist should monitor and document the activity.

Mechanical Damage

Damage to limbs and branches from project equipment (mechanical damage) may occur if work, including staging and access, occurs within TPZs. If damage occurs to limbs and branches, immediate trimming with clean cuts should occur in accordance with the ANSI

standards discussed above. If damage to the bark or trunk occurs, wound dressings are not recommended. Treatment of said damages may be applied in accordance with the ANSI A300 Management of Trees and Shrubs during Site Planning, Site Development, and Construction (ANSI 2012). A certified arborist or qualified personnel under the arborist's direct supervision should monitor and document this activity.

Post-Construction Phase

The Guidelines provide detailed standards and requirements for protected oak removal replacement. The Landmark Tree Ordinance; however, does not provide specific standards and requirements for landmark tree removal replacement. As such, replacement standards may largely be dependent on the decisions of the Director of Planning and Community Development. If protected tree removals are required based on final design plans, then a Protected Tree Replacement and Planting Plan may be needed.

Oak Tree Replacement

If any protected oak tree is removed, dies, or is damaged to the point of requiring removal during construction activities, the Community Development Department requires the following oak and landmark tree replacement ratios:

- Dead or Hazardous oak removed shall be replaced with one fifteen-gallon oak tree.
- Healthy oak removed exceeding forty-eight (48") inches in diameter to be replaced with two twenty-four (24")-inch box trees and either the largest available nursery grown tree or two sixty (60")-inch box trees.
- Healthy oak removed not exceeding forty-eight (48") inches in diameter to be replaced with two twenty-four (24") inch box trees and either one thirty-six (36") inch box tree or a single sixty (60") box tree.

The location of replacement trees shall consider, but not be limited to the following:

- The vegetative character of the surrounding area near the project site
- The number of oak trees subject to this resolution which are proposed to be removed in relation to the number of such trees currently existing on the project site
- The probability of long-term success of the replacement oak trees in a healthy condition with no or minimal conflict with the approved construction on the site over time
- The development plans submitted by the applicant of the proposed construction or the proposed use of this project site. If the project site is unsuitable for planting one or more of the replacement trees, the Community Development Director may approve other options as follows:
    1. Planting replacement oak trees on public property such as designated open space areas, public parks, etc.
    2. Cash payment to the City's Open Space Conservation Fund in an amount equal to the value (stock and installation) of the required replacement trees that were removed, as determined by the current tree valuation formula of the International Society of Arborists

In certain cases the City may consider the relocation of oak trees from one area in the project to another. The tree(s) being recommended for relocation must be approved by the Community Development Department and the size should not exceed 6 inches in diameter. A refundable cash security deposit will be made prior to tree relocation to ensure the survival of the relocated tree.

Landmark Tree Replacement

If any protected landmark tree is removed, dies, or is damaged to the point of requiring removal during construction activities, the City may require any of the following:

- A condition requiring the replacement or placement of additional trees on the subject property to offset the impacts associated with the loss of a tree, limbs, or encroachment into the protected zone
- The relocating of a tree on-site or off-site, or the planting of a new tree off-site to offset the loss of a tree
- A condition requiring an objectively observable maintenance and care program to be initiated to insure the continued health and care of landmark trees on the property
- Payment of a fee or donation of a boxed tree to the City or other public agency to be used elsewhere in the community should a suitable replacement location of the tree not be possible on-site or offsite

For the purpose of replacement for landmark trees removed, the method of valuation shall be the Guide for Plant Appraisal (10th Edition), by the Council of Tree and Landscape Appraisers (ISA 2018). The number, size, and location of replacement trees may also be determined by the Director of Planning and Community Development.

3.1.4.5 Significance After Mitigation

Implementation of BIO-1 through BIO-5 would be incorporated into the project to reduce, avoid and mitigate impacts to potentially occurring special-status species, nesting birds, jurisdictional resources, and protected trees. With the incorporation of these measures, impacts from project activities would be reduced to a less than significant level.

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3.1.5 CULTURAL RESOURCES

Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Cause a substantial adverse change in the significance of a historical resource pursuant to §15064.5?	☐	☐	☐	☒
b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?	☐	☒	☐	☐
c) Disturb any human remains, including those interred outside of formal cemeteries?	☐	☐	☒	☐

3.1.5.1 Environmental Setting

The project site is in the south central portion of Thousand Oaks city limits in the Conejo Valley, north of the Santa Monica Mountain Range. The project site is on a developed golf course and adjacent roadways situated on terrace, alluvial fan, and backslope remnants, where the landform is approximately 710 feet above mean sea level. Surficial sediments in the area have been heavily disturbed from construction and maintenance of the LRGC. Soils within the project site include a Cropley clay series consisting of very deep, well-drained soils formed in alluvium from mixed rock sources (California Soil Resource Lab 2019). The nearest water source is Arroyo Conejo, located just north of United States Route 101. Vegetation on the project site consists primarily of mature oak, pepper and eucalyptus trees, ornamentals and manicured grass.

3.1.5.2 Regulatory Setting

CEQA requires a lead agency to determine if a project may have a significant effect on historical resources (Public Resources Code [PRC] Section 21084.1) or tribal cultural resources (PRC Section 21074[a][1][A]-[B]). A historical resource is a resource listed or determined to be eligible for listing in the California Register of Historical Resources (CRHR); a resource included in a local register of historical resources; or an object, building, structure, site, area, place, record, or manuscript that a lead agency determines to be *historically significant* (CEQA Guidelines Section15064.5[a][1-3]).

A resource shall be considered *historically significant* if it meets any of the following criteria:

1) Is associated with events that have made a significant contribution to the broad patterns of California's history and cultural heritage;
2) Is associated with the lives of persons important to our past;
3) Embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of an important creative individual, or possesses high artistic values; or

4) Has yielded, or may be likely to yield, information important in prehistory or history.

A historical resource is one listed in or determined to be eligible for listing in the CRHR, a resource included in a local register of historical resources or any object, building, structure, site, area, place, record, or manuscript that a lead agency determines to be historically significant (CEQA Guidelines Section 15064.5[a][1-3]). Section 15064.5(a)(3) also states that a resource shall be considered by the lead agency to be "historically significant" if the resource meets the criteria for listing on the CRHR.

In addition, if it can be demonstrated that a project will cause damage to a *unique archaeological resource*, the lead agency may require reasonable efforts be made to permit any or all resources to be preserved in place or left in an undisturbed state. To the extent that resources cannot be left undisturbed, mitigation measures are required (PRC Section 21083.2[a], [b]).

PRC Section 21083.2(g) defines a *unique archaeological resource* as an artifact, object, or site about which it can be clearly demonstrated that, without merely adding to the current body of knowledge, there is a high probability that it meets any of the following criteria:

1) Contains information needed to answer important scientific research questions and that there is a demonstrable public interest in that information;
2) Has a special and particular quality such as being the oldest of its type or the best available example of its type; or
3) Is directly associated with a scientifically recognized important prehistoric or historic event or person.

3.1.5.3 Impact Analysis

3.1.5.3.1 Significance Thresholds

This evaluation assesses potential impacts to cultural resources resulting from the proposed project. Pursuant to CEQA Guidelines, potentially significant impacts would occur if implementation of the project would:

a) Cause a substantial adverse change in the significance of a historical resource.

b) Cause a substantial adverse change in the significance of an archaeological resource.

c) Disturb any human remains, including those interred outside of formal cemeteries.

3.1.5.3.2 *Project-Specific Impacts*

Cause a substantial adverse change in the significance of a historical resource (Significance Threshold a):

No Impact. The results of the cultural resources records search, Native American outreach, historical imagery review, and field survey identified one historic period built environment resource, the LRGC, within the project site (Appendix D). An evaluation of the resource indicates it does not meet the criteria to be considered a historical resource under CEQA. Two additional historic period built environment resources (Case Study House No. 28 and the Janss

House [P-56-152479]) have been recorded within the project vicinity, the former of which is listed on the CRHR. Both of these resources are situated at more than 0.4 mile from any above-ground project components. As such, the project would not result in any indirect (e.g., visual) impacts to the two historic period built-environment resources.

Cause a substantial adverse change in the significance of an archaeological resource as (Significance Threshold b):

Less than Significant Impact with Mitigation Incorporated. No archaeological resources were identified in the project site by the cultural resource study. However previously recorded isolated prehistoric archaeological resource (P-56-000490), a single projectile point, was documented approximately 150 feet from the project boundary. Although the lack of surface evidence of archaeological resources does not preclude their subsurface existence, the absence of substantial prehistoric or historic period archaeological resources within the immediate vicinity, along with the existing level of disturbance in the project site, suggest the area exhibits a low sensitivity for buried archaeological deposits. Nevertheless, there is still a potential for subsurface archaeological resources to be discovered during project construction. Should unanticipated archaeological resources be discovered, impacts would be reduced to a less than significant level with the implementation of **MM CUL-1**.

Disturb any human remains (Significance Threshold c):

Less than Significant Impact. The discovery of human remains is always a possibility during ground disturbing activities. If human remains are found, the state of California Health and Safety Code Section 7050.5 states that no further disturbance shall occur until the County Coroner has made a determination of origin and disposition pursuant to Public Resources Code Section 5097.98. In the event of an unanticipated discovery of human remains, the County Coroner must be notified immediately. If the human remains are determined to be prehistoric, the Coroner would notify the Native American Heritage Commission which will determine and notify a most likely descendant (MLD). The MLD must complete the inspection of the site and provide recommendations for treatment to the landowner within 48 hours of being granted access. With adherence to existing regulations, impacts to human remains would be less than significant.

3.1.5.4 Mitigation Measures

Implementation of **MM CUL-1** would reduce impacts on archaeological resources to a less than significant level.

MM CUL-1: If cultural resources are encountered during ground-disturbing activities, work in the immediate area must halt and an archaeologist meeting the Secretary of the Interior's Professional Qualifications Standards for archaeology (National Park Service 1983) shall be contacted immediately to evaluate the find. If the discovery proves to be eligible for listing on the CRHR, additional work may be warranted, such as data recovery excavation, Native American consultation, and archaeological monitoring to mitigate any significant impacts under CEQA.

3.1.5.5 Significance After Mitigation

Less than significant impact.

3.1.6 ENERGY

Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Result in a potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy, or wasteful use of energy resources, during project construction or operation?	☐	☐	☒	☐
b) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?	☐	☐	☐	☒

3.1.6.1 Environmental Setting

The project is located within an urban setting of the City supplied by the major utilities. Electricity in the City and most parts across the County is provided by the Southern California Edison (SCE) Company. The Southern California Gas Company (SoCalGas) provides natural gas service to all the cities and communities in Ventura County. Distribution and transmission facilities are located throughout these areas of service.

With the exception of the Hill Canyon WWTP, all City facilities receive 100 percent renewable energy for electricity supply through a Direct Access provider.

3.1.6.2 Regulatory Setting

State

As denoted in the Warren-Alquist State Energy Resources Conservation and Development Act, "it is further the policy of the state and the intent of the Legislature to employ a range of measures to reduce wasteful, uneconomical, and unnecessary uses of energy resources."

City of Thousand Oaks

The City of Thousand Oaks General Plan Conservation Element (2013) has policies related to climate change that also address energy use. The following may apply to the proposed project:

- *Support efforts to reduce greenhouse gas emissions, consistent with the intent of the State of California's California Global Warming Solutions Act of 2006 (Assembly Bill 32)*
    - *Implementation measure: Reduce energy use and utilize sustainable energy sources at City facilities where feasible, in accordance with City-adopted Energy Action Plan.*

The City is also working in partnership with the Ventura County Regional Energy Alliance to create a community-wide level Energy Action Plan to reduce energy consumption and be more energy resilient (City of Thousand Oaks 2019).

3.1.6.3 Impact Analysis

3.1.6.3.1 Significance Thresholds

Pursuant to CEQA Guidelines, potentially significant impacts would occur if implementation of the project would:

a) Result in a potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy, or wasteful use of energy resources, during project construction or operation; or

b) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency.

3.1.6.3.2 Project-Specific Impacts

Wasteful Energy Use (Significance Threshold a):

Less than Significant Impact. The project would not result in significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy, or wasteful use of energy resources during project operation. While the project would use energy for project operations, the project would help the City to produce local groundwater which has much lower energy requirements than imported water upon which the City currently depends.
The City could thereby offset energy-intensive imported water with more energy efficient groundwater supplies. The electrical demands of the proposed facilities are overall not anticipated to be significant within the existing urban setting and appropriate design elements would ensure avoidance of wasteful, inefficient, or unnecessary consumption during operation.

During construction, equipment and vehicles utilized by construction workers would utilize fuel and other energy resources. However, the contractor and workers are incentivized to not be wasteful or inefficient with energy resources as this increases their cost of doing business and diminishes profits. Therefore, it is anticipated that the project construction would not result in wasteful, inefficient, or unnecessary consumption of energy.

Conflict with or Obstruct a State or Local Plan for Renewable Energy or Energy Efficiency (Significance Threshold b):

No Impact. The proposed project would not prevent or conflict with any statewide or local plans for renewable energy.

3.1.6.4 Mitigation Measures

Not applicable. There would be no impacts; therefore, mitigation is not required.

3.1.6.5 Significance After Mitigation

Not applicable.

3.1.7 GEOLOGY AND SOILS

Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Directly or indirectly cause 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	☐	☒	☐	☐
ii) Strong seismic ground shaking?	☐	☒	☐	☐
iii) Seismic-related ground failure, including liquefaction?	☐	☒	☐	☐
iv) Landslides?	☐	☐	☒	☐
b) Result in substantial soil erosion or the loss of topsoil?	☐	☒	☐	☐
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 landslide, lateral spreading, subsidence, liquefaction or collapse?	☐	☒	☐	☐
d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?	☐	☒	☐	☐
e) Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?	☐	☐	☐	☒
f) Directly or Indirectly destroy a unique paleontological resource or site or unique geologic feature?	☐	☐	☒	☐

3.1.7.1 Environmental Setting

The project area lies within southern California, which is a seismically active region although no active faults have been mapped within City limits. The City lies within the southern part of the west-central portion of the Transverse Ranges geomorphic province, which is characterized by west-trending folds, thrust faults, and fault-bounded valleys. The structural framework of the region is considered to be a result of compression and rotation caused by the San Andreas Fault, which is located about 45 miles northeast of the project site (CGS, 2003). The nearest earthquake hazard zone is located approximately 5 miles to the North at the Santa Rosa Valley Fault and the Santa Rosa/Simi Faults.

The proposed facility locations fall within the Newbury Park quadrangle and directly adjacent to the Thousand Oaks quadrangle, both of which are characterized by hilly to mountainous areas with several scattered valleys (DOC 2006a, 2006b). Commercial development is concentrated in low-lying areas along major highways and streets, while residential development has spread from the low-lying areas to graded hillsides.

The project site is situated within the Conejo Valley in the Transverse Ranges, one of 11 geomorphic provinces of California (California Geological Survey, 2002). A geomorphic province is a region of unique topography and geology that is readily distinguished from other regions based on its landforms and geologic history (Norris and Web, 1990). The Transverse Ranges extend approximately 275 miles west-east from Point Arguello in Santa Barbara County, east to the San Bernardino Mountains, and south to the Anacapa-Santa Monica Hollywood--Raymond-Cucamonga thrust fault zone (Yerkes and Campbell, 2005). Generally, the Transverse Ranges consist of Cenozoic marine and terrestrial sedimentary deposits, volcanic deposits, and Proterozoic to Mesozoic intrusive crystalline igneous and metamorphic rocks. Active uplift and erosion in the Transverse Ranges has produced steep canyons, rugged topography, numerous landslides, and extensive alluvial sedimentation (Morton and Miller, 2006). In the vicinity of the project site, the Transverse Ranges include the Conejo Mountains, Simi Hills, and the Santa Monica Mountains.

3.1.7.2 Regulatory Setting

The following regulatory programs and policies are in place to address hazards of fault rupture, landslides, and other ground failure or seismic impacts.

State

- Alquist-Priolo Act. The Alquist-Priolo Earthquake Fault Zoning Act was passed in 1972 to mitigate the hazard of surface faulting to structures for human occupancy. The Act requires a geological investigation to be conducted to demonstrate that proposed buildings will not be constructed across active faults before a project can be permitted. Earthquake Fault Zones are required to be delineated by the State Geologist, in this case the California Geological Survey, along faults that are “sufficiently active and well defined” as defined in the Act.

- Seismic Hazards Mapping Act. This Act was passed in 1990 to reduce the threat to public health and safety from seismic hazards, including strong ground shaking, liquefaction, landslides, or other ground failure. Site-specific hazard investigations are

required when a development project is located within one of the Seismic Hazard Mapping Zones defined as a zone of required investigation.

- Building Codes. The California Building Code, included in Title 24 of the California Code of Regulations, establishes minimum requirements to safeguard public health, safety, and general welfare through structural strength, egress facilities, building stability, and other requirements for the built environment. The CBC is a compilation of three major sources of building criteria: standards adopted by state agencies based on national model codes, national model codes adopted to meet California conditions, and standards passed by the California legislature that address concerns specific to California. A city or county may establish more restrictive building standards reasonably necessary due to local climatic, geological, or topographical conditions. The CBC has been adopted and amended by the County of Ventura and the City to address local conditions.

City of Thousand Oaks

The City's General Plan Safety Element (2014) includes various Goals and related Policies for hazard reduction. The following apply to the proposed project:

Goals (Faulting and Seismic Hazards)

- S-1: *Minimize the risk of loss of life, injury, damage to property, and economic and social dislocation resulting from fault rupture and seismically induced ground shaking.*

Policies and Programs

- *A-1: Require site-specific geologic and engineering investigations as specified in the California Building Code (International Building Code with California amendments) and Municipal Code for proposed new developments and/or when deemed necessary by the City Engineer and/or through the CEQA process.*
- *A-2: Adopt the latest California Building Code (CBC) and enforce provisions relating to earthquake resistant design.*
- *A-3: Enforce provisions of Title 7, Chapter 3 (Grading) and Title 8, Chapter 1 (Building Code) of the Municipal Code that incorporate the CBC with amendments specific to the City.*
- *A-7: Require project modifications, including but not limited to hazard mitigation, project redesign, elimination of building sites, and the delineation of building envelopes, building setbacks and foundation requirements, as deemed necessary, in order to mitigate faulting/seismic hazards.*

Goals (Geologic Hazards)

- *S-2 Safeguard life, limb, health, property, and the public welfare by establishing minimum requirements for regulating grading and procedures by which such requirements may be enforced (Municipal Code Section 7-3.01).*
- *S-3 Provide minimum standards to safeguard life or limb, health, property and the public welfare by regulating and controlling the design, construction, quality of materials, use and occupancy, location, demolition, and maintenance of all buildings and structures within the City and certain equipment specifically regulated therein (Municipal Code Section 8-1.02).*

Policies and Programs

Grading/Building Construction:

- *B-1 Require any alteration, grading, excavation or fill activity to comply with the City's Grading Ordinance.*
- *B-2 Require that all construction be in accordance with the most current version of the California Building Code and Title 8, Chapter 1 of the Municipal Code which incorporates the CBC with specific amendments.*
- *B-3 Perform site-specific geologic and engineering investigations for new developments as specified in the CBC and Municipal Code.*
- *B-4 Prohibit grading or relocation of earth on land having a natural slope greater than 25% unless approval is obtained from the Planning Commission or City Council and a grading permit has been obtained from the City Engineer (Municipal Code Section 7-3.07).*
- *B-5 Continue to regulate grading during the rainy season (November-April) in order to control erosion and protect life and property from damage due to flooding or erosion associated with grading activities.*

Liquefaction:

- *B-6 Conduct soils investigations to evaluate hazards potential for proposed developments in areas of potential liquefaction.*
- *B-7 Require project modifications, including but not limited to project redesign, elimination of building sites, building envelopes and drainage and foundation requirements, as necessary in order to mitigate liquefaction hazards.*
- *B-8 Require the developers and/or subdividers of a parcel or parcels in a Liquefaction Hazard Zone to record a Notice of Geologic Hazards with the County Recorder describing the potential hazards on the parcel and the level of prior geologic investigation conducted unless the condition has been mitigated.*

Landslides and Debris Flows:

- *B-9 Require that all development activities provide a setback from potentially unstable areas or from the margins of potential debris flow channels and depositional areas as identified through engineering and geologic studies.*
- *B-10 Require drainage plans designed to direct runoff away from unstable areas.*
- *B-14 Require project modifications, including but not limited to hazard mitigation, project redesign, elimination of building sites and development of building and septic system envelopes, building setbacks and foundation and drainage requirements as necessary in order to mitigate landslide and debris flow hazards.*

Soils Subject to Expansion, Settlement and Hydrocompaction:

- *B-15 Require the preparation of a preliminary soils report, prepared by a registered civil engineer and based upon adequate test borings, for every subdivision and every individual lot where soils have been identified that are subject to expansion, settlement or hydrocompaction.*
- *B-17 Require the developers and/or subdividers of a parcel or parcels in an area of known highly expansive soils hazard to record a notice of Geologic Hazards with the County Recorder describing the potential hazards on the parcel and the level of prior geologic investigation conducted.*
- *B-18 Require project modifications, including but not limited to hazard mitigation, project redesign, elimination of building sites, building envelopes and drainage and foundation*

requirements as necessary in order to mitigate hazards associated with soils that may be subject to expansion, settlement or hydrocompaction.

Goals (Fire Hazards)

- *S-5 Provide minimum standards to protect life, limb, property, safety, and welfare of the citizens of the City by regulating and controlling the hazards of fire and explosion arising from the storage, handling, and use of hazardous substances, materials, and devices.*
- *S-6 Prevent the loss of life and property due to uncontrolled wildfire in the urban/wildland interface through the cooperation of the Ventura County Fire Protection District and property owners living in these areas.*

Policies

- *D-1 Continue to enforce the following:*
  - *California Health and Safety Code*
  - *Ventura County Fire Protection District Ordinance*
  - *California Building Code (CBC), which is the International Building Code with California amendments*
- *D-2 Continue to provide adequate fire protection and prevention services to meet the needs of the community and continue to support inter-jurisdictional fire protection agreements.*
- *D-8 Equip new buildings with an automatic fire sprinkler system in accordance with the CBC and Ventura County Fire Protection District Ordinance.*
- *D-13 Discourage the location of public facilities and above-ground utilities in extreme fire hazard areas. When unavoidable, special precautions should be taken to minimize potential impacts.*

3.1.7.3 Impact Analysis

3.1.7.3.1 Significance Thresholds

Pursuant to CEQA Guidelines, potentially significant impacts would occur if implementation of the project would:

a) Directly or indirectly cause 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;

   ii. Strong seismic ground shaking;

   iii. Seismic-related ground failure, including liquefaction; and/or

   iv. Landslides;

b) Result in substantial soil erosion or the loss of topsoil;

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 landslide, lateral spreading, subsidence, liquefaction or collapse;

d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property;

e) Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water;

f) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature.

3.1.7.3.2 Project-Specific Impacts

Seismic, Liquefaction, and Landslide Risk (Significance Threshold a):

a(i), a(ii): Less than Significant Impact with Mitigation. The project area is located in a seismically active region. The nearest Alquist-Priolo Earthquake Fault Zones are located approximately 5 miles to the North, consisting of the Santa Rosa Valley Fault and the Santa Rosa/Simi Faults. Rupture of local faults has potential to result in strong seismic ground shaking throughout the area, including at the project site. Damage to structures and injury to people could occur as an outcome of these potential events.

The Project would be implemented in compliance with all local building and safety codes, which incorporate by reference the California Building Code. Compliance with those requirements will ensure safety in the event of an earthquake. Potential seismic impacts would be reduced to less than significant with incorporation of **MM GEO-1**.

a(iii): Less than Significant Impact with Mitigation. Seismic ground shaking from the rupture of local faults has the potential to trigger seismic-related ground failure, including liquefaction.

Geologic units that are generally susceptible to liquefaction include late Quaternary alluvial and fluvial sedimentary deposits and artificial fill. These sediments are found in canyons, narrow stream courses, small valleys and dissected lowlands, including the Arroyo Conejo floodplain which runs to the North of the LRGC. Based on conclusions drawn in the Seismic Hazard Zone Report for the Newbury Park and Thousand Oaks quadrangles, deposits of the Arroyo Conejo floodplain are zoned as being potentially liquefiable. This zone of potential liquefaction covers portions of the LRGC along the northern boundary and extends across portions of Moorpark Road and Thousand Oaks Boulevard north of the 101 Freeway. As such, portions of the project site fall within this zone, including the LRGC well and portions of the raw water and irrigation line alignments extending from the well, and the potable water pipeline north of the 101 Freeway.

Liquefaction has the potential to cause damage to structures and injury to people however potential risks related to the proposed project are not considered to be significant. No areas of documented historic liquefaction are known to have occurred within the Newbury Park or Thousand Oaks quadrangles. In addition, seismic-induced liquefaction risks would be reduced by accounting for identified risks in project design. The project would accordingly incorporate safeguards to limit impacts due to groundshaking, landslide, and liquefaction, and other potential unstable soil conditions. **MM GEO-1** would be implemented to reduce impacts to less than significant.

a(iv): Less than Significant Impact. Small zones of potential earthquake-induced landslide zones are found across nearby hillsides to the South of the project site. However, the proposed facilities are not located within or in close proximity to a landslide zone. Therefore, landslides are not considered a significant potential impact.

Soil Erosion and Loss of Topsoil (Significance Threshold b):

Less than Significant Impact with Mitigation. Installation of the proposed facilities has the potential to disturb soil as a result of trenching and grading, especially within unpaved surfaces. Overall, the potential for erosion from these activities is low.

The WTP will be installed at the location of the existing LRGC parking lot. The existing parking lot will be demolished, re-graded, and repaved to accommodate installation of project components at that site. Raw water and irrigation lines will be installed within currently unpaved areas adjacent to the LRGC golf cart path. This unpaved area would be most susceptible to potential soil erosion.

Most of the potable water pipeline would be installed using open cut construction within Moorpark Road and Thousand Oaks Boulevard. Following installation of pipelines, excavated areas would be returned to pre-project conditions. In the case that dewatering is required along portions of the pipelines, standard best management practices, such as use of dissipation devices at discharge points, would be used to avoid scour and erosion impacts at the point of discharge.

The proposed project would include preparation and implementation of a SWPPP in compliance with the NPDES General Permit for Discharges of Stormwater Associated with Construction Activity (Order 2009-0009-DWQ, as amended by 2010-0014-DWQ and 2012-0006-DWQ). The SWPPP would include best management practices such as erosion control measures, proper dewatering procedures and other practices that would reduce overall soil erosion and sediment mobilization from the project area. With the implementation of **MM GEO-2**, the impacts to soil erosion and loss of topsoil would be reduced to less than significant.

Location on Unstable Geologic Unit or Soil (Significance Threshold c):

Less than Significant Impact with Mitigation. The project area is not located within a landslide zone, but portions of the project fall within an area designated as a potential liquefaction zone related to the Arroyo Conejo. The project itself is not anticipated to result in destabilizing the underlying geologic unit or soils. **MM GEO-1** would help minimize potential impacts related to soil instability and potential ground failure, thereby reducing potential impacts to less than significant.

Expansive Soils (Significance Threshold d):

Less than Significant Impact with Mitigation. Based on the Expansive Soils figure of the Thousand Oaks General Plan Safety Element, the project site is located in a “high” expansive soil zone. A geotechnical study would be conducted prior to construction to evaluate the potential for expansive soils and recommendations related to expansive soils would be incorporated into design. Proper foundation design can generally mitigate against expansive soil impacts. **MM GEO-1** would reduce potential impacts to less than significant.

Impacts on Septic Systems (Significance Threshold e):

No Impact. The Project does not involve septic tanks or alternative wastewater disposal systems.

Impacts on Unique Paleontological Resource or Geologic Feature (Significance Threshold f):

Less than Significant Impact. Impacts resulting from construction and operation of the project would result in less than significant impacts as discussed below.

Rincon evaluated the paleontological sensitivity of the geologic units that underlie the project site using the results of the paleontological locality search and review of existing information in the scientific literature concerning known fossils within those geologic units. Rincon reviewed fossil collections records from the University of California Museum of Paleontology (UCMP) online database, which contains known fossil localities in Ventura County (2019).

Following the literature review and museum record search a paleontological sensitivity classification was assigned to the geologic units within the project site. The potential for impacts to significant paleontological resources is based on the potential for ground disturbance to directly impact paleontologically sensitive geologic units. The Society of Vertebrate Paleontology (2010) has developed a system for assessing paleontological sensitivity and describes sedimentary rock units as having high, low, undetermined, or no potential for containing scientifically significant nonrenewable paleontological resources. This criterion is based on rock units within which vertebrate or significant invertebrate fossils have been determined by previous studies to be present or likely to be present.

According to geologic mapping by Dibblee and Ehrenspeck (1990), the project site is immediately underlain by Quaternary alluvium (Qa). The Quaternary alluvium is Holocene in age and is composed of slightly to poorly consolidated and poorly sorted stream and floodplain deposits up to 100 feet thick. These younger Quaternary sediments may grade into older alluvial deposits of late Pleistocene age at moderate depth. A search of the paleontological locality records on the UCMP online database resulted in no previously recorded vertebrate fossil localities within Holocene sedimentary deposits within the project vicinity.

The Holocene alluvial deposits mapped at ground surface in the project area are determined to have a low paleontological resource potential and they are likely too young to contain fossilized material. Therefore, impacts to paleontological resources are considered very unlikely as a result of the project and further paleontological resource management is not recommended.

3.1.7.4 Mitigation Measures

Implementation of the following mitigation measures would reduce impacts to less than significant levels:

MM GEO-1: To mitigate potential impacts related to seismic activity and soil instability, recommendations from a site-specific geotechnical study will be incorporated into project design and construction. The report recommendations would be based on a comprehensive evaluation of slope stability, seismic, and soil conditions that may affect construction of the pipelines and related facilities. The report recommendations would be consistent with provisions of California Code of Regulations, Title 8, Construction Safety Orders. As is standard, at regular intervals the pipeline will be equipped with flexible couplings (or something similar) to allow some movement

during a seismic event and limit the risk of pipeline breakage. The pipeline will also be equipped with valves that would allow portions of the pipeline to be isolated and would stop water from flowing to areas where a pipeline break has occurred.

MM GEO-2: A project-specific SWPPP shall be prepared and implemented that will include best management practices such as erosion control measures, proper dewatering procedures and other practices that will to reduce overall soil erosion and sediment mobilization from the project area.

3.1.7.5 Significance After Mitigation

Less than significant.

3.1.8 GREENHOUSE GAS EMISSIONS

Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?	☐	☐	☒	☐
b) Conflict with any applicable plan, policy, or regulation adopted for the purposes of reducing the emissions of greenhouse gases?	☐	☐	☒	☐

3.1.8.1 Environmental Setting

3.1.8.1.1 Climate Change and Greenhouse Gases

Climate change is the observed increase in the average temperature of the earth's atmosphere and oceans along with other substantial changes in climate (such as wind patterns, precipitation, and storms) over an extended period of time. Climate change is the result of numerous, cumulative sources of greenhouse gases (GHGs) that contribute to the "greenhouse effect," a natural occurrence that takes place in Earth's atmosphere to help regulate the temperature of the planet. The majority of radiation from the sun hits Earth's surface and warms it. The surface, in turn, radiates heat back towards the atmosphere in the form of infrared radiation. Gases and clouds in the atmosphere trap and prevent some of this heat from escaping into space and re-radiate it in all directions. However, anthropogenic activities since the beginning of the industrial revolution (approximately 250 years ago) are adding to the natural greenhouse effect by increasing the gases in the atmosphere that trap heat. Emissions resulting from human activities thereby contribute to an average increase in Earth's temperature.

GHGs occur both naturally and as a result of human activities, such as fossil fuel burning, methane generated by landfill wastes and raising livestock, deforestation activities, and some agricultural practices. GHGs produced by human activities include carbon dioxide (CO_2), methane (CH_4), nitrous oxide (N_2O), hydrofluorocarbons (HFC), perfluorocarbons (PFC), and sulfur hexafluoride (SF_6). Since 1750, estimated concentrations of CO_2, CH_4, and N_2O in the atmosphere have increased over by 36 percent, 148 percent, and 18 percent, respectively, primarily due to human activity (United States [U.S.] EPA 2009). Potential climate change impacts in California may include loss of snow pack, sea level rise, more extreme heat days per year, more high ozone days, more large forest fires, and more drought years (California Energy Commission [CEC] 2009).

3.1.8.1.2 Greenhouse Gas Emissions Inventory

Worldwide anthropogenic emissions of GHGs were approximately 46,000 million metric tons (MMT) of carbon dioxide equivalent (CO_2e) in 2010. CO_2 emissions from fossil fuel combustion

and industrial processes contributed about 65 percent of total emissions in 2010 (Intergovernmental Panel on Climate Change [IPCC] 2014).

Total U.S. GHG emissions were 6,511 million metric tons (MMT) CO_2e in 2016 (U.S. EPA 2018). In 2016, the industrial and transportation end-use sectors accounted for 22 percent and 28.5 percent of GHG emissions, respectively. Electric power accounted for 28.4 percent of GHG emissions. Meanwhile, the residential and commercial end-use sectors accounted for 11 percent of GHG emissions (U.S. EPA 2018).

Based on the CARB California Greenhouse Gas Inventory for 2000-2015, California produced 440.4 MMT CO_2e in 2015 (CARB 2016). The largest single source of GHG in California is transportation, contributing 39 percent of the state's total GHG emissions. Industrial sources are the second largest source of the state's GHG emissions, contributing 23 percent of the state's GHG emissions (CARB 2016). California emissions are due in part to its large size and large population compared to other states. However, the mild climate reduces California's per capita fuel use and GHG emissions as compared to other states. CARB has projected statewide unregulated GHG emissions for the year 2020 will be 509.4 MMT CO_2e (CARB 2016). These projections represent the emissions that would be expected to occur in the absence of any GHG reduction actions.

3.1.8.2 Regulatory Setting

3.1.8.2.1 California Regulations

The state of California considers GHG emissions and the impacts of climate change to be a serious threat to the public health, environment, economic well-being, and natural resources of California, and has taken an aggressive stance to mitigate its impact on climate change through the adoption of policies and legislation. CARB is responsible for the coordination and oversight of state and local air pollution control programs in the state. California has numerous regulations aimed at reducing the state's GHG emissions; some of the major initiatives are summarized below.

3.1.8.2.1.1 Assembly Bill 32

California's major initiative for reducing GHG emissions is outlined in Assembly Bill (AB) 32, the "California Global Warming Solutions Act of 2006," signed into law in 2006. AB 32 codifies the statewide goal of reducing GHG emissions to 1990 levels by 2020 (essentially a 15 percent reduction below 2005 emission levels; the same requirement as under S-3-05) and requires CARB to prepare a Scoping Plan that outlines the main strategies for reducing GHGs to meet the 2020 deadline. In addition, AB 32 requires CARB to adopt regulations to require reporting and verification of California's largest industrial emitters.

CARB approved the initial AB 32 Scoping Plan on December 11, 2008 and a 2020 statewide GHG emission limit of 427 MMT CO_2e was established. The Scoping Plan also included measures to address GHG emission reduction strategies related to energy efficiency, water use, and recycling and solid waste, among others. Many of the GHG reduction measures included in the Scoping Plan (e.g., Low Carbon Fuel Standard, Advanced Clean Car standards, and Cap-and-Trade) have been adopted since approval of the Scoping Plan.

3.1.8.2.1.2 Senate Bill 375

Senate Bill (SB) 375, signed in August 2008, enhances California's ability to reach AB 32 goals by directing CARB to develop regional GHG emission reduction targets to be achieved from passenger vehicles for 2020 and 2035. In addition, SB 375 directs each of California's 18 major metropolitan planning organizations to prepare a "sustainable communities strategy" (SCS) that contains a growth strategy to meet these emission targets for inclusion in the RTP. On September 23, 2010, CARB adopted final regional targets for reducing GHG emissions from 2005 levels by 2020 and 2035.

3.1.8.2.1.3 Senate Bill 32

On September 8, 2016, the governor signed SB 32 into law, extending AB 32 by requiring California to further reduce GHGs to 40 percent below 1990 levels by 2030 (the other provisions of AB 32 remain unchanged). On December 14, 2017, CARB adopted the 2017 Scoping Plan, which provides a framework for achieving the 2030 target. The 2017 Scoping Plan relies on the continuation and expansion of existing policies and regulations, such as the Cap-and-Trade Program, as well as implementation of recently adopted policies, such as SB 350 and SB 1383. The 2017 Scoping Plan also puts an increased emphasis on innovation, adoption of existing technology, and strategic investment to support its strategies. As with the 2013 Scoping Plan Update, the 2017 Scoping Plan does not provide project-level thresholds for land use development. Instead, it recommends that local governments adopt policies and locally-appropriate quantitative thresholds consistent with a statewide per capita goal of 6 metric tons (MT) CO_2e by 2030 and 2 MT CO_2e by 2050. As stated in the 2017 Scoping Plan, these goals may be appropriate for plan-level analyses (city, county, subregional, or regional level), but not for specific individual projects because they include all emissions sectors in California.

3.1.8.2.2 Regional Regulations

3.1.8.2.2.1 SCAG RTP/SCS

As discussed above, SB 375 requires metropolitan planning organizations to prepare an RTP/SCS that will achieve regional emission reductions through sustainable transportation and growth strategies. On September 23, 2010, CARB adopted final regional targets for reducing GHG emissions levels by 2020 and 2035. SCAG was assigned targets of an eight percent reduction in GHGs from transportation sources by 2020 and a 13 percent reduction in GHGs from transportation sources by 2035. Most recently, SCAG adopted the 2016-2040 RTP/SCS on April 7, 2016, which includes strategies and objectives to encourage transit-oriented and infill development and the use of alternative transportation to minimize vehicle use.

3.1.8.2.2.2 Significance Thresholds

The vast majority of individual projects do not generate sufficient GHG emissions to directly influence climate change. However, physical changes caused by a project can contribute incrementally to cumulative effects that are significant, even if individual changes resulting from a project are limited. The issue of climate change typically involves an analysis of whether a project's contribution towards an impact would be cumulatively considerable. "Cumulatively considerable" means that the incremental effects of an individual project are significant when

viewed in connection with the effects of past projects, other current projects, and probable future projects (CEQA Guidelines, Section 15064[h][1]).

According to CEQA Guidelines, projects can tier off a qualified GHG reduction plan, which allows for project-level evaluation of GHG emissions through the comparison of the project's consistency with the GHG reduction policies included in a qualified GHG reduction plan. This approach is considered by the Association of Environmental Professionals (AEP) in its white paper, *Beyond Newhall and 2020*, to be the most defensible approach presently available under CEQA to determine the significance of a project's GHG emissions (AEP 2016). The City has not yet adopted plans, policies, or regulations that contain specific requirements with respect to resources that are within the City's jurisdiction that demonstrate reductions in GHG emissions that would not result in significant environmental impacts under CEQA. Therefore, this approach is not currently feasible for this analysis.

To evaluate whether a project may generate a quantity of GHG emissions that may have a significant impact on the environment, a number of operational bright-line significance thresholds have been developed by state agencies. Significance thresholds are numeric mass emissions thresholds which identify the level at which additional analysis of project GHG emissions is necessary. Projects that attain the significance target, with or without mitigation, would result in less than significant GHG emissions. Some significance thresholds have been developed to reflect a 90 percent capture rate tied to the 2050 reduction target established in the Governor's Executive Order S-3-05, which sets a GHG reduction target of 90 percent below current levels by 2050; such as the South Coast Air Quality Management District's (SCAQMD) recommended bright-line threshold of 3,000 MT CO_2e per year for development projects (SCAQMD 2010).

VCAPCD has not established quantitative significance thresholds for evaluating GHG emissions in CEQA analyses. Instead, VCAPCD recommends using the California Air Pollution Control Officers Association *CEQA and Climate Change: Addressing Climate Change through California Environmental Quality Act* white paper and other resources when developing GHG evaluations (VCAPCD 2006). The *CEQA and Climate Change* paper provides a common platform of information and tools to support local governments and was prepared as a resource, not as a guidance document. However, CEQA Guidelines Section 15064.4 expressly provides that a "lead agency shall have discretion to determine, in the context of a particular project," whether to "[u]se a model or methodology to quantify greenhouse gas emissions resulting from a project, and which model or methodology to use." A lead agency also has discretion under the CEQA Guidelines to "[r]ely on a qualitative analysis or [quantitative] performance based standards."

In light of the lack of a specific GHG threshold from VCAPCD, it is appropriate to refer to guidance from other agencies when discussing GHG emissions. Therefore, for the purposes of this analysis, the bright-line threshold developed by the SCAQMD (3,000 MT CO_2e per year for development projects) is considered to determine the significance of GHG emissions.

The VCAPCD does not provide guidance over amortizing construction GHG emissions over the lifetime of the project. The SCAQMD has recommended that GHG emissions from construction be amortized over 30 years and added to operational GHG emissions to determine the overall impact of a proposed project (SCAQMD 2008); therefore, this method is followed in the analysis under *Project-specific Impacts*.

3.1.8.2.3 Methodology

The methodology for GHG emissions modeling is the same as described under Section 3.1.3.3.2.1, Air Quality. In addition to the operational methodology discussion in that section for mobile and area emissions, CalEEMod calculates off-site operational GHG emissions from water, wastewater, and energy use.

Emissions from energy use include emissions from electric power plants that the project would receive electricity from. Energy demand from the project includes the following project components: well pump air scour blower; washwater recovery/return pump; sludge pump; transfer pump; RO feed pumps; RO clean in place recirculation pump; tank heater; potable water pump; potable water jockey pump; irrigation pump; sodium hypochlorite feed pump; sodium metabisulfite feed pump; sulfuric acid feed pump; antiscalant feed pump; caustic soda feed pump; liquid ammonium sulfate feed pump; and a hydrofluosilicic acid feed pump. The estimated annual power consumption for the WTP with these components is 1,356,000 kWh. For the water inputs in CalEEMod, no electricity intensity for water import was inputted as no off-site water import would occur (energy use for the wellhead extraction equipment are accounted for in the total kWh usage of the project); defaults for wastewater treatment were maintained. GHG emissions from waste generation were also calculated in CalEEMod and are based on the IPCC's methods for quantifying GHG emissions from solid waste using the degradable organic content of waste (CAPCOA 2017).

3.1.8.3 Impact Analysis

3.1.8.3.1 Significance Thresholds

This evaluation assesses potential impacts to GHG emissions resulting from the proposed project. Pursuant to CEQA Guidelines, potentially significant impacts would occur if implementation of the project would:

a) *Generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment;*

b) *Conflict with an applicable plan, policy or regulation adopted for the purposes of reducing the emissions of greenhouse gases.*

3.1.8.3.2 Project-Specific Impacts

Generate Greenhouse Gas Emissions (Significance Threshold a):

Less Than Significant Impact. Project construction would primarily generate temporary criteria pollutant and GHG emissions from construction equipment operation on-site, construction worker vehicle trips to and from the site, and from export of materials off-site. Table 3.1.8-1 shows the construction GHG emissions for WTP construction and construction of the project's pipelines. Amortized over 30 years, project construction emissions would be approximately 31 MT CO_2e per year.

TABLE 3.1.8-1
CONSTRUCTION GHG EMISSIONS

Activity	Emissions (MT CO_2e)
WTP Construction	580.0
Pipeline Construction	352.5
Total Construction Emissions	932.5
Amortized Construction Emissions (over 30 years)	**31.1**

WTP construction modeled in CalEEMod; pipeline construction modeled in RCEM; see Appendix B for model outputs.

The project's operational GHG emissions are shown in Table 3.1.8-2. These are conservative values that do not account for the GHG-reduction benefits from providing water to the City's potable water supply, which would reduce the City's GHG emissions from the energy used to import water. As shown in Table 3.1.8-2, the project's operational emissions with amortized construction emissions would be 482 MT CO_2e, with the majority of the emissions from energy use to run the WTP. These emissions would fall below the SCAQMD's interim recommended bright-line significance threshold of 3,000 MT CO_2e per year, and impacts would be less than significant.

TABLE 3.1.8-2
OPERATIONAL GHG EMISSIONS

Source	Emissions (MT CO_2e)
Water Treatment Plant	
Area	<0.1
Energy	426.8
Mobile	13.0
Waste	5.9
Water	5.2
Water Treatment Plant Total	450.9
Amortized Construction	31.1
Total Annual Emissions	**482.0**
SCAQMD Recommended Threshold	*3,000*
Threshold Exceeded?	**No**

CO_2e: carbon dioxide equivalent; MT: metric tons; SCAQMD: South Coast Air Quality Management District
[1]See Appendix B for CalEEMod results.

Conflict with any applicable plan, policy, or regulation (Significance Threshold b):

Less than Significant Impact. As discussed under *Regulatory Setting*, a number of plans and policies have been adopted to reduce GHG emissions in the Southern California region, including Ventura County. The VCAPCD, Ventura County, and the City have not adopted plans or policies related to GHG emission reductions. SCAG's 2016 RTP/SCS provides land use and transportation strategies to reduce regional GHG emissions. As a WTP and pipeline project that generates only six roundtrips per day, the project would not be relevant to 2016 RTP/SCS policies, and therefore would not conflict with the GHG reduction goals of the 2016 RTP/SCS.

Furthermore, state policies to reduce GHG emissions associated with energy use, including the Renewable Portfolio Standard and Title 24 of the CBC, would reduce anticipated emissions associated with the proposed project. The project would not conflict with state regulations intended to reduce GHG emissions statewide. As discussed in the response to item 7a, annual GHG emissions for the proposed project would be less than the threshold of 3,000 MT CO_2e per year established by the SCAQMD. Therefore, the project would not conflict with plans and policies aimed at reducing GHG emissions and impacts would be less than significant.

3.1.9 HAZARDS AND HAZARDOUS MATERIALS

Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?	☐	☒	☐	☐
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?	☐	☒	☐	☐
c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?	☐	☐	☐	☒
d) Be located on a site that is included on a list of hazardous material sites compiled pursuant to Government Code § 65962.5 and, as a result, would it create a significant hazard to the public or the environment?	☐	☐	☐	☒
e) For a project located in an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area?	☐	☐	☐	☒
f) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?	☐	☐	☒	☐
g) Expose people or structures, either directly or indirectly, to a significant risk of loss, injury, or death involving wildland fires?	☐	☐	☒	☐

3.1.9.1 Environmental Setting

The proposed facilities will be installed within partially developed areas that include an existing golf course – the LRGC, and existing City rights-of-way traversing commercial and commercial/residential land uses. The LRGC is confined on three sides by urban development,

including the 101 Freeway and commercial land uses to the North, and residential and commercial land uses to the East and West. The LRGC lies within a larger area of open space extending southward from the 101 Freeway across Hidden Valley and Russell Valley and into the hilly and mountainous terrain of the Santa Monica Mountains.

The WTP will be located within the existing LRGC parking lot, directly south of the 101 Freeway, west of South Moorpark Road, in the City. The raw water and irrigation pipelines will extend from the LRGC well located approximately 2,650 feet northwest of the proposed WTP within the LRGC boundaries, along the existing golf cart path. The potable water transmission pipeline will extend from the WTP to an existing connection with the City's distribution system. This pipeline will be routed along existing rights-of-way within commercial and commercial/residential land uses to the Northwest of the LRGC.

The project site itself is not located within a fire hazard severity zone, but is located within 500 feet of a Very High Fire Hazard Severity Zone, which extends from the southwestern portion of LRGC into the primarily undeveloped lands of the nearby valleys and hillsides to the South and Southwest (CalFire, 2010).

3.1.9.2 Regulatory Setting

The following section provides an overview of applicable regulatory guidelines relating to the use, storage, and disposal of hazards and hazardous substances.

Federal Laws/Regulations

- Federal Water Pollution Control Act of 1972 CWA. The CWA governs water quality protection in the United States. This Act includes the NPDES program, which requires that permits be obtained for point source discharges of pollutants to waters of the United States.
- Resource Control and Recovery Act of 1974 (RCRA). RCRA creates the framework for the proper management of hazardous and non-hazardous solid waste, including tracking those wastes from point of origin to ultimate disposal. California EPA's Department of Toxic Substances Control (DTSC) has the responsibility for implementing RCRA statewide.
- Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA). The purpose of CERCLA is to identify sites where hazardous materials threaten the environment and/or public health as a result of leakage, spillage, or general mismanagement of hazardous substances and then to identify the responsible party. CERCLA, also known as Superfund, established a fund for the assessment and remediation of the worst hazardous waste sites in the nation. Exceptions are provided for crude oil wastes that are not subject to CERCLA.

California Laws/Regulations

- Porter-Cologne Water Quality Control Act (California Water Code, Division 7). The Porter-Cologne Act is the principal law governing water quality regulation in California and establishes a comprehensive program to protect water quality and beneficial uses of

the State's waters. The Porter-Cologne Act also established the SWRCB and nine RWQCBs as the main state agencies responsible for protecting water quality in California. Discharges of wastes (including spills, leaks, or historical disposal sites) where they may impact the waters of the state are prohibited under the Porter-Cologne Act, including the discharge of hazardous wastes and petroleum products. Discharges are regulated by the RWQCBs primarily through the issuance of NPDES permits for point source discharges and waste discharge requirements for nonpoint discharges. The Los Angeles RWQCB is responsible for Region 4, which encompasses the project area.

- Title 22, California Code of Regulations. Title 22, division 4.5 of the California Code of Regulations outlines regulations on the use and disposal of hazardous substances in California, implemented by the California DTSC. It contains regulatory thresholds for hazardous wastes which are more restrictive than the federal hazardous waste regulations.

- California Health and Safety Code Sections 25500 et seq. The California community right-to-know hazardous material law applies to any facility that handles any hazardous material (chemical, chemical-containing products, hazardous wastes, etc.) in a quantity that exceeds reporting thresholds. The most common thresholds that trigger regulation based on that state statute are 500 pounds of solid, 55 gallons of liquid, and 200 cubic feet of compressed gas, but ultimately depend on the substance involved.

- Unified Hazardous Waste and Hazardous Materials Management Regulatory Program. This Program was created to consolidate, coordinate, and make consistent the administrative requirements, permits, inspections, and enforcement activities for environmental and emergency management programs. The Program is implemented at the local government level by Certified Unified Program Agencies (CUPAs). The Ventura County Environmental Health Division (VCEHD) serves locally as a CUPA.

City of Thousand Oaks

The City's General Plan Safety Element (2014) includes various Goals and related Policies for risk reduction related to hazardous materials. The following may apply to the proposed project:

Goals

- S-7 Protect life, property, and the environment from the effects of releases of hazardous materials into the air, land or water.

Policies

- E-1 Manage hazardous wastes and materials in such a way that waste reduction through alternative technology is the first priority, followed by recycling and onsite treatment, with disposal as the last resort.
- E-2 Continue to work with the County to implement the County Hazardous Materials Emergency Response Plan (developed by the Ventura County Environmental Health Department).
- E-5 Implement programs to ensure proper disposal of household hazardous wastes. Educate the public about the importance of complying with such programs.

3.1.9.2.1 Significance Thresholds

Pursuant to CEQA Guidelines, potentially significant impacts would occur if implementation of the project would:

a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials;

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;

c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school;

d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, create a significant hazard to the public or the environment;

e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area;

f) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan;

g) Expose people or structures, either directly or indirectly, to a significant risk of loss, injury, or death involving wildland fires.

3.1.9.2.2 Project-Specific Impacts

Transport, Use, Disposal of Hazardous Materials (Significance Thresholds a and b):

Less than Significant Impact with Mitigation. The project would involve the regular use and storage of chemicals for operation of the WTP. The site will contain a chemical storage tote area, and a chemical storage tank area. The tote area will be approximately 800 square feet (sf) area covered by a canopy (no walls or doors), and will house hydrofluosilicic acid (a corrosive), antiscalant, sodium metabisulfite, and ammonium sulfate. The storage quantities are below the threshold amount for designation as an outdoor hazardous materials storage area.

A 1,000 sf outdoor chemical storage tank area will contain sulfuric acid and hypochlorite. The tank area will be covered by a non-combustible roof, and the walls will be coated with a chemical-resistant, high-performance. The chemical storage tank area will be designated as an outdoor hazardous materials storage area.

Treatment chemicals would be properly contained and used at the site, and chemicals would be transported and stored according to State and Federal requirements. In addition, the City would be required to develop a Hazardous Materials Business Plan and receive approval from the Ventura County Environmental Health Division. Implementation of the Hazardous Materials

Business Plan would minimize the risk of accidental releases of the treatment-related chemicals and ensure compliance with applicable regulations.

Adherence to applicable laws and regulations would minimize the potential for exposure of hazardous materials to the public and the environment. **MM HAZ-1** through **MM HAZ-3** would reduce impacts to a less than significant level.

Hazardous Materials in Proximity to Schools (Significance Threshold c):

No Impact. There are no schools within 0.25 miles of the proposed project site.

Location on Hazardous Materials Site (Significance Threshold d):

No Impact. The California DTSC Hazardous Waste and Substances Sites (Cortese) List provides information about the location of hazardous materials release sites. Government Code section 65962.5 requires the California EPA to develop at least annually an updated Cortese List. DTSC is responsible for a portion of the information contained in the Cortese List. Other State and local government agencies are required to provide additional hazardous material release information for the Cortese List.

According to the Cortese List (DTSC, 2019), there are no hazardous material sites located within or in the immediate vicinity of the proposed project site. The only reported hazardous materials site in proximity to the project site are underground fuel storage tanks associated with nearby gas stations.

Exposure to Airport Impacts (Significance Threshold e):

No Impact. The proposed project is not located within the vicinity of an airport. The nearest airstrip is about 13 miles away, located at the Point Mugu Naval Air Station.

Interference with Emergency Response (Significance Threshold f):

Less than Significant Impact. Generally, primary evacuation routes are located along major highways and major roads. The main facilities will be located within the LRGC which would not cause interference with Emergency Response during installation or operation. The potable water pipeline that would be routed along South Moorpark Road extending approximately 1,300 feet between the WTP to the City's distribution system tie-in location at Ventura Boulevard. The pipeline would be placed below grade and road surfaces restored to pre-project condition upon installation. The amount of roadway being disturbed and with potential to create an interference with emergency response is limited.

Potentially heightened levels of truck and car traffic could occur during the short-term construction phases, but that traffic would be temporary and is not anticipated to create significant interference to potential emergency roadways. As a result, the potential is low for interference or impairment of an emergency response plan or emergency evacuation plan.

Exposure to Risk of Loss, Injury, Death Involving Wildland Fires (Significance Threshold g):

Less than Significant Impact. Potential risk of exposure to wildland fires by operators and/or the proposed WTP exists given proximity to a Very High Fire Hazard Severity Zone. However, the potential for exposure of people and structures and related risks of loss, injury or death are considered to be less than significant. The project involves the installation of a WTP within the

LRGC parking lot and installation of related pipelines and utilities. These facilities would all be located outside of a Fire Hazard Severity Zone. Additionally, pipelines and utilities would be installed below grade thereby reducing potential exposure of infrastructure to potential fires. The potential exposure of people to risks involving wildland fires are also reduced due to the limited regular occupancy of the WTP.

3.1.9.3 Mitigation Measures

The following mitigation measures would reduce impacts to a less than significant level:

MM HAZ-1: All spills or leakage of hazardous wastes during construction and operation shall be remediated in compliance with applicable state and local regulations regarding cleanup and disposal of the contaminant released. All contaminated material shall be delivered to a licensed treatment, disposal or recycling facility that has the appropriate systems to manage the contaminated material without significant impact on the environment.

MM HAZ-2: Chemical storage tote and storage tank areas shall be appropriately secured to prevent tampering and/or access by unauthorized individuals and shall be regularly inspected for leaks.

MM HAZ-3: A Hazardous Material Business Plan (HMBP) shall be prepared and submitted to the VCEHD. The HMBP shall include detailed information on the inventory of hazardous materials onsite, emergency response plans and procedures, training for employees in safety procedures in the event of a release or threatened release of a hazard material, and a site map with required information.

3.1.9.4 Significance After Mitigation

Less than significant.

3.1.10 HYDROLOGY AND WATER QUALITY

Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or groundwater quality?	☐	☒	☐	☐
b) Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?	☐	☐	☒	☐
c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner that would:	☐	☐	☒	☐
i) Result in substantial erosion or siltation on- or off-site;	☐	☐	☒	☐
ii) Substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite;	☐	☐	☒	☐
iii) Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; or	☐	☐	☒	☐
d) In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?	☐	☐	☒	☐
e) Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?	☐	☐	☒	☐

3.1.10.1 Environmental Setting

The proposed project site is located within the Calleguas Creek watershed, which drains an area of approximately 343 square miles located predominantly in southern Ventura County and discharging into the Pacific Ocean at Mugu Lagoon. The Santa Susana Mountains, South Mountain, and Oak Ridge Mountain form the northern boundary of the watershed. The Simi Hills and Santa Monica Mountains form the southern boundary.

The project site is located within the subwatershed of the Arroyo Conejo, one of the major tributaries to the Calleguas Creek and the major drainage course through the City. The Arroyo Conejo drains an area of about 45 square miles primarily within the City, and adjacent unincorporated County areas (City of Thousand Oaks, 2011). The Arroyo Conejo flows northward from the Conejo Valley to the Santa Rosa Valley where it joins the Arroyo Santa Rosa to become Conejo Creek. The stream is currently included on the 303(d) list for multiple pollutants, including: ammonia, DDT, chlordane, toxicity, endosulfan, toxaphene, dieldrin, PCBs, chloride, chemA, total dissolved solids, and sulfates (SWRCB, 2017).

The project area overlies the Conejo Valley Groundwater Basin. The groundwater basin formerly served as a source of water for agricultural, private and municipal uses. By the early 1960s, water levels had been significantly drawn down, but since imported water became available in 1963, pumping nearly ceased and groundwater levels quickly recovered (City of Thousand Oaks, 2016). The depth to groundwater currently averages about 50 feet (VCWPD, 2016).

Special Flood Hazard Areas that are subject to periodic inundation are located along areas of the Arroyo Conejo floodplain (FEMA, 2010).

3.1.10.2 Regulatory Setting

The purpose of the Federal Water Pollution Control Act of 1972 (CWA) is to restore and maintain the chemical, physical, and biological integrity of the nation's waters in order to achieve a level of water quality suitable for beneficial uses, including water recreation and protection and propagation of fish and wildlife. The CWA requires all states to conduct water quality assessments of their water resources. Water bodies that do not meet water quality standards are placed on a list of impaired waters pursuant to the requirements of Section 303(d) of the CWA. The list identifies the pollutant or stressor causing the impairment and establishes a schedule for developing a related control plan, typically a total maximum daily load (TMDL).

Pursuant to Section 404 of the federal CWA, the USACE regulates discharges of dredged and/or fill material into waters of the United States, which by definition include waters that are navigable in the traditional sense, adjacent wetlands and tributaries to navigable waters of the United States, and other waters, the degradation or destruction of which could affect interstate or foreign commerce.

The CWA prohibits discharge to waters of the United States unless the discharge is in compliance with a NPDES permit. Discharges addressed through the program include wastewater treatment facilities and industrial waste dischargers, in addition to stormwater from municipal separate sewer systems, construction activities, and industrial activities. The regulations require that stormwater and non-stormwater runoff associated with construction activity, which discharges either directly to surface waters or indirectly through municipal separate storm sewer systems, be regulated by an NPDES permit.

<u>California Laws/Regulations</u>

The Porter-Cologne Act is the principal law governing water quality in California and establishes a comprehensive program to protect water quality and protect beneficial uses of the State's waters. The Porter-Cologne Act also established the SWRCB and nine RWQCBs as the main

state agencies responsible for protecting water quality in California. Each RWQCB is directed to develop water quality control plans addressing beneficial uses to be protected, water quality objectives that protect those uses, and a program of implementation needed to achieve the water quality objectives. The Water Quality Control Plan for the Los Angeles Region (Basin Plan) identifies beneficial uses for surface and groundwaters, includes narrative and numerical water quality objectives that must be attained or maintained to protect the designated beneficial uses and conform to the State's anti-degradation policy, and describes implementation programs and other actions necessary to achieve established water quality objectives. The act applies to surface water, groundwater, wetlands, and both point and nonpoint sources of pollution. Discharges of wastes (including spills, leaks, or historical disposal sites) where they may impact the waters of the state are prohibited under the Porter-Cologne Act, including the discharge of hazardous wastes and petroleum products. Discharges are regulated by the RWQCB primarily through the issuance of NPDES permits for point source discharges and waste discharge requirements (WDRs) for nonpoint discharges. The Los Angeles RWQCB is responsible for Region 4, which encompasses the project area.

Management of California's NPDES program is delegated to the SWRCB and the nine RWQCBs. The SWRCB administers the NPDES General Permit for Storm Water Discharges associated with Construction and Land Disturbance Activities (Order No. 2009-0009-DWQ; as amended by Order No. 2012-006-DWQ; NPDES General Permit No. CAS000002); projects that disturb one or more acres are required to obtain coverage under the Construction General Permit. The Construction General Permit requires the development of a SWPPP which outlines BMPs, such as erosion control measures, proper dewatering procedures, and other practices to reduce overall soil erosion, sediment mobilization, and pollutant runoff.

The Statewide General NPDES Permit for Drinking Water Systems (Order WQ 2014-0194-DWQ, NPDES NO. CAG140001) was adopted by the SWRCB in 2014. The Order sets forth waste discharge requirements applicable to discharges from drinking water systems to surface waters in California, which include, but are not limited to, discharges from supply wells, transmission systems, water treatment facilities, water distribution systems, and storage facilities. Among the discharges authorized under the Order are unplanned discharges due to drinking water system and distribution system failures and repair and water used for hydrostatic testing of water pipelines.

<u>City of Thousand Oaks</u>
The City's General Plan Safety Element (2014) and Conservation Element (2013) include various policies related to hydrology and water quality. The following apply to the proposed project:

Policies

- CO-10 Streams and creeks should be protected as open space and maintained in as natural a state as possible, and appropriate measures taken to manage urban runoff, in order to protect the City's and other downstream communities' water quality, wildlife diversity, native vegetation, and aesthetic value. This will contribute to the regional effort to improve the quality of Calleguas Creek, Malibu Creek and Mugu Lagoon.
- CO-14 Protect remaining floodplains in order to help retain stormwater runoff from tributary watersheds and reduce the potential for erosion and periodic flooding within downstream reaches of the Arroyo Conejo and Calleguas Creek.

- CO-17 Continue to ensure the provision of water in quantities sufficient to satisfy current and projected demand.
- CO-19 Encourage the use of reclaimed water for irrigation purposes.
- CO-20 Continue to develop and utilize groundwater resources to reduce the Planning Area's dependence upon imported water.

3.1.10.3 Impact Analysis

3.1.10.3.1 Significance Thresholds

Pursuant to CEQA Guidelines, potentially significant impacts would occur if implementation of the project would:

a) Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality;

b) Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin;

c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would:

   i. result in substantial erosion or siltation on- or off-site;

   ii. substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite;

   iii. create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; or

d) In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation; and/or

e) Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan.

3.1.10.3.2 Project-Specific Impacts

Impacts to Surface Water and Groundwater Quality (Significance Threshold a):

Less than Significant Impact with Mitigation. The disturbance and exposure of soils during construction activities, including trenching, creates the potential for sediments and other construction-related pollutants to mobilize from the project site and enter receiving waters and impact water quality.

Construction activities would result in total ground disturbance of 1.34 acres. The proposed project is thereby subject to the Construction General Permit, which requires preparation and implementation of a project-specific SWPPP. In compliance with the Construction General Permit, the SWPPP would identify potential sources of pollution and specify BMPs to be implemented in order to minimize the discharge of polluted stormwater runoff to local surface

waters from construction activities. BMPs would include measures for erosion and sediment control, proper site management, dewatering measures, as well as post-construction pollution prevention. The SWPPP and related BMPs would be applicable to all construction activities, including trenching.

BMPs implemented as part of the SWPPP would also help protect groundwater resources by ensuring proper handling of construction-related materials and reducing and preventing polluted runoff which could infiltrate into the ground. Overall, project implementation is not anticipated to have groundwater quality impacts. Full implementation of the SWPPP during construction and compliance with existing regulations during and after construction would ensure that project impacts on water quality are less than significant.

A spill response plan will be prepared and implemented to also reduce potential releases of hazardous materials from WTP operations to enter nearby waterbodies.

Implementation of **MM HYD-1 and MM HYD-2** will reduce these impacts to less than significant.

The project may result in potential water quality impacts to downstream uses, particularly increased chloride levels on downstream uses. The proposed WTP will produce a brine discharge that will be sent to the City's existing sewer collection system and eventually to the WWTP. The WWTP is a 14 million gallon per day (mgd) capacity wastewater treatment plant serving the residents of Thousand Oaks. The WWTP currently treats an average of 8 mgd of wastewater generated from its domestic, commercial, and industrial customers.

The incoming wastewater is treated to an advanced tertiary level, which renders it suitable for unrestricted reuse (the use of reclaimed water for non-potable applications in municipal settings where public access is not restricted). The WWTP's effluent is discharged into Calleguas Creek, where it combines with other existing creek flows from the South Branch and North Fork Arroyo Conejo, and then eventually the Arroyo Santa Rosa before ultimately flowing into Conejo Creek. Presently, the City sells most of the WWTP discharge to Camrosa Water District (Camrosa) who diverts the non-potable water from Conejo Creek for use in its non-potable system and for delivery to agricultural customers with riparian rights along Conejo Creek including Pleasant Valley Mutual Water Company, a system which serves agricultural irrigation, particularly avocados, lemons, strawberries, and nursery crops, as well as to other agricultural customers with riparian rights along Conejo Creek and growers along the western edge of the Las Posas Hills. The water is typically high in chloride and is blended at a Camrosa blending station with imported water and local groundwater to control for chlorides. The amounts that the City "sells" to Camrosa, as well as the amounts that are diverted, are governed by an agreement between the two agencies.

Chloride concentrations since 2015, measured at the diversion average 170 mg/L, and were approximately 176 mg/L over the last two years. In general, chloride concentrations are 160 mg/L coming out of the confluence and increase to 170 mg/L at the Camrosa diversion point. With the added brine from the Los Robles Desalter, the average values could increase by approximately 15-20 mg/L, to 190 mg/L at the Camrosa diversion. This 190 mg/L chloride value has been seen before in the past, and as such, it is not considered to be extraordinary.

The potential impacts of the WTP brine discharge on the wastewater collection system, WWTP operations and WWTP effluent limitations, were assessed as part of the Initial Study (Kennedy Jenks 2018) and later refined based on results from the 2019 pilot study (Kennedy Jenks 2019).

The WWTP's NPDES permit has two types of effluent limits: a load-based limit during dry weather flows and a concentration-based limit during wet weather flows. Dry weather flow conditions exist in Calleguas Creek when flows are below the 86th percentile flow, i.e. less than 31 cubic feet per second, at USGS gauge station 11106550 (also known as Ventura County Watershed Protection District (VCWPD) station 805) and when there is no measurable precipitation. Wet weather is defined as any day when the average flow is equal to or greater than 31 cfs, i.e. the 86th percentile of the receiving water measured at the USGS 11106550. Limits for TDS, Sulfate, Chloride and Boron are summarized in Table 3.1.10-1.

TABLE 3.1.10-1

NPDES EFFLUENT LIMITATIONS FOR SELECT PARAMETERS

	Regulatory Limit	
Constituent	**Average Monthly Concentration[(a)]**	**Average Monthly Loading[(b)]**
	mg/L	**lbs/day**
TDS	850	99,250
Sulfate	250	29,200
Chloride	150	17,500
Boron	1	120

Notes:
(a) Wet weather flow conditions
(b) Dry weather flow conditions

Results of the brine impact analyses indicate that sulfate and boron loadings at the WWTP may increase 50-80% and <1%, respectively, due to brine addition. However, these increases will not raise effluent loadings above the dry weather or wet weather limits.

With respect to chloride and TDS concentrations at the WWTP, it was found that the brine discharge will not raise effluent loading above the limit during dry weather flows, but that the addition of brine may contribute to raising the effluent chloride concentration above the wet weather regulatory limit during wet weather conditions.

During pilot testing, chloride was found in higher concentrations in the raw groundwater (195 mg/L) than was found in historical samples. Nevertheless, the additional chloride loading was not found to impact the WWTP's ability to discharge water below the dry weather effluent limit of 17,500 lbs/d. Based on historical WWTP loading data and pilot study results, chloride loading is anticipated to remain under 12,000 lbs/d on average.

During a wet weather event, the WWTP's chloride effluent limit changes from a load-based limit to a concentration-based limit of 150 mg/L. A wet weather event is rare but occurred last in 2019. The effluent concentration reported was 172 mg/L which exceeds the 150 mg/L limit. This exceedance shows that WWTP effluent during a wet weather event may be out of compliance

with or without the addition of brine from the WTP. If the WTP had been online during the 2019 sampling event, the effluent chloride concentration would have been approximately 190 mg/L.

Given these conditions, it is possible that brine discharge from the WTP could contribute to exceedances of the chloride wet weather effluent limit if appropriate preventative measures are not in place. These increases in effluent chloride concentrations have the potential to also impact downstream uses.

As such, it is recommended that stream flow and rainfall data be monitored to anticipate and track wet weather conditions and that monitoring be performed at the WWTP to track chloride and TDS levels prior to and during defined wet weather conditions. Flow and rainfall data are available online at the VCWPD website (www.vcwatershed.net/fws). Based on monitoring data, brine discharge from the WTP would then be limited or stopped as soon as flows in the receiving water reach or exceed 31 cfs at USGS gauge station 11106550 (VCWPD station 805) and/or chloride and TDS levels at the WWTP are expected to reach effluent limitations. These measures would prevent any contribution to effluent limit exceedances from WTP operations.

Implementation of **MM HYD-3** will reduce these impacts to less than significant.

Groundwater Quantity (Significance Thresholds b):

Less than Significant Impact. The proposed project will enable the City to utilize groundwater supplies from the CVGB for potable and irrigation uses. Groundwater would be produced from the LRGC well and pumping would occur within the sustainable yield of the Basin so as not to cause undesirable impacts, such as depletion of the groundwater basin.

Historically, groundwater from the CVGB was blended with imported potable water to produce irrigation water for the LRGC. However, due to increasingly poor water quality, particularly elevated salinity levels, use of this groundwater source for irrigation ceased in 2014. In 2016, the City prepared the Thousand Oaks Groundwater and Reclaimed Water Study to evaluate the feasibility of developing local water supply sources. The Study recommended, among other actions, to put the LRGC well back in service which would involve rehabilitation of the well, improving its efficiency, and adding water treatment. In 2018, the City evaluated the feasibility of developing the LRGC well as a source of irrigation and potable water. The study concluded that desalination of the LRGC well water is a feasible option for beneficially using this water source and that the LRGC well can presently produce groundwater at constant rates of up to 1,000 gpm without depleting the basin. The proposed project would not exceed the sustainable yield of the CVGB.

The proposed project would not substantially increase impervious areas and would therefore not interfere with groundwater recharge.

Alteration of Drainage Patters, Resulting in Erosion, Runoff, Floods (Significance Threshold c):

Less than Significant Impact. The proposed project will not substantially increase impervious areas. The majority of construction activities would occur within already paved areas, including the existing LRGC parking lot and Moorpark Road and Thousand Oaks Boulevard. Road surfaces would be restored to pre-construction conditions. Alignment of pipelines along the golf

cart path impacts a relatively small area and would not substantially change the imperviousness of those areas. Work will occur alongside the intermittent stream channel that runs parallel to the North of the golf cart path, however the project would not alter the course of the stream.

Overall, the project would not result in substantial impacts to drainage patterns in or around the project site. Potential for transportation of sediments offsite and/or polluted runoff exists temporarily during construction activities would be controlled through the implementation of the SWPPP. Project implementation is not anticipated to increase erosion, surface runoff or contribute to elevated flooding potential. Impacts would be less than significant.

Project Inundation (Significance Threshold d):

Less than Significant Impact. The project area is located about 10 miles inland from the Pacific Ocean and is located outside of a tsunami inundation area. Seiches are freestanding or oscillatory waves associated with large enclosed or semi-enclosed bodies of water. There is no record of a seiche occurring in Ventura County and the project area is not located in the vicinity of a water body susceptible to seiches. Various reservoirs exist within and around the City and in the case of dam failure, water could be released from the reservoirs resulting in downstream flooding. The project area is not located in the vicinity of local reservoirs and is located outside of potential dam inundation areas.

The 100-year flood, or “base flood”, refers to a flood that has a 1 percent chance of being equaled or exceed in any given year. According to available Federal Emergency Management Agency (FEMA) Flood Insurance Rate Maps including a 2010 Letter of Map Revision (FEMA 2010), portions of the proposed project fall within the 100-year floodplain. The delineation of the 100-year floodplain covers a small area at the northeastern part of the LRGC, just east of the LRGC well. The area extends over approximately 300 feet of the golf cart path, along which the raw water and irrigation pipelines will run. This area will not contain chemical storage that could be exposed to flooding. Therefore, there will be no risk of release of pollutants in the case of inundation of this area.

At the WTP, the finished floor of each structure shall be designed at a minimum of one foot above base flood elevation thereby also reducing risk of inundation.

Conflict with Water Quality Control Plan or Sustainable Groundwater Management Plan (Significant Threshold e):

Less than Significant Impact. The water quality control plan applicable to the proposed project is the Los Angeles Basin Plan, which is designed to preserve and enhance water quality and protect the beneficial uses of all regional waters.

The proposed Project is not anticipated to substantially contribute to water quality impairments within the project area which could in conflict with the Basin Plan. As previously discussed, construction activities have the potential to impact water quality, but a SWPPP will be implemented to address the risk of increased erosion, siltation and/or polluted runoff during construction activities.

The project area falls within the floodplain of the Arroyo Conejo which was assessed for the 2014/2016 California Integrated Report and is listed on the 303(d) for multiple pollutants, including: ammonia, DDT, chlordane, toxicity, endosulfan, toxaphene, dieldrin, PCBs, chloride,

chemA, total dissolved solids, and sulfates (SWRCB 2017). Neither construction activities nor operations of the proposed project are anticipated to contribute to existing impairments.

The Sustainable Groundwater Management Act (SGMA) was enacted in 2014 as comprehensive legislation aimed at strengthening local control and management of groundwater basins throughout California. SGMA requires local groundwater sustainability agencies to be formed and groundwater management plans to be developed for all medium and high priority basins. The CVGB has been categorized a low priority basin and therefore does not require to be addressed by a SGMA-compliant groundwater management plan.

3.1.10.4 Mitigation Measures

MM HYD-1: A project-specific SWPPP shall be prepared and implemented that will include best management practices such as erosion control measures, proper dewatering procedures and other practices that will to reduce overall soil erosion and sediment mobilization from the project area.

MM HYD-2: All spills or leakage of hazardous wastes during construction and operation shall be remediated in compliance with applicable state and local regulations regarding cleanup and disposal of the contaminant released. All contaminated material shall be delivered to a licensed treatment, disposal or recycling facility that has the appropriate systems to manage the contaminated material without significant impact on the environment.

MM HYD-3: WWTP operators should monitor chloride and TDS levels during wet weather conditions and consider limiting or halting brine discharge if concentrations are too high. The City and other downstream users may also locate other stormwater or groundwater sources with lower chlorides that can serve to dilute concentrations in the creek.

3.1.10.5 Significance After Mitigation

Less than significant.

3.1.11 LAND USE AND PLANNING

Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Physically divide an established community?	☐	☐	☐	☒
b) Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?	☐	☐	☒	☐

3.1.11.1 Environmental Setting

The proposed facilities will be installed within partially developed areas that include an existing golf course – the LRGC, and existing City rights-of-way that traverse commercial and commercial/residential land uses. The LRGC is confined on three sides by urban development, including the 101 Freeway and commercial land uses to the North, and residential and commercial land uses to the East and West. An area of residentially developable land lies southeast of the LRGC. The LRGC lies within a larger area of open space extending southward from the 101 Freeway into the hilly and mountainous terrain of the Santa Monica Mountains.

The WTP will be located within the existing LRGC parking lot, in the southwestern corner of the intersection of the 101 Freeway offramp and South Moorpark Road. The LRGC parking lot is located just north of a commercial parcel along Moorpark Road. The raw water and irrigation pipelines will be installed within the LRGC boundaries, along the existing golf cart path. The existing well site is also located within the LRGC property. The potable water transmission pipeline will extend from the WTP to an existing connection with the City's distribution system within Thousand Oaks Boulevard. This alignment crosses through commercial and commercial/residential land use zones. Pipelines and utilities will be installed below grade and surfaces will be returned to pre-project conditions.

3.1.11.2 Regulatory Setting

<u>City of Thousand Oaks</u>

The City's General Plan includes the following overarching policies related to land use and planning that may be applicable to the proposed project:

- *Maintain and preserve existing neighborhoods through the application of appropriate zoning and development controls.*

- *The Commercial/Residential designation in the Land Use Element shall mean that either residential or commercial land uses may be permitted on land so designated, provided that a Specific Plan has been adopted for the land and that the proposed uses are consistent with the uses authorized by the Specific Plan.*

3.1.11.3 Impact Analysis

3.1.11.3.1 Significance Thresholds

Pursuant to CEQA Guidelines, potentially significant impacts would occur if implementation of the project would:

a) Physically divide an established community; and/or

b) Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect.

3.1.11.3.2 Project-Specific Impacts

Division of a Community (Significance Thresholds a):

***No impact*.** The proposed project would not physically divide the existing community. Pipelines would be installed below grade, within the LRGC and public rights-of-way. Ground surfaces would be restored to pre-project conditions upon installation of the pipelines. The WTP would be installed within the LRGC parking lot which is located along the Moorpark Road right-of-way and next to commercial land use. There would be no impact on the nearby established community.

Conflict with Land Use Plan, Policy or Regulation (Significance Threshold b):

***Less than significant*.** The proposed project would be consistent with existing zoning and would not result in changes in land use patterns, nor would it conflict with existing policies or regulations intended to avoid or mitigate environmental effects. While the project may result in the removal of some parking spaces within the LRGC facility, any potential impacts related to such reduction were addressed by a separate, detailed, parking analysis prepared for the City in April of 2019 (Interwest Consulting Group, 2019), provided as Appendix F. Due to the demonstrated lack of use during the parking study analysis, the report concluded that the installation of the WTP within the parking area would not impede on parking accessibility within the golf course as there are multiple areas other than the project site that provide available parking.

3.1.11.4 Mitigation Measures

Not applicable. There would be no impacts; therefore, mitigation is not required.

3.1.11.5 Significance After Mitigation

Not applicable.

3.1.12 MINERAL RESOURCES

Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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?	☐	☐	☐	☒
b) Result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan?	☐	☐	☐	☒

3.1.12.1 Environmental Setting

The project is located within the City of Thousand Oaks Planning Area which does not contain significant mineral resources (City of Thousand Oaks, 2013). Mineral resources are not inventoried in the General Plan and it contains no policies related to mineral resources.

3.1.12.2 Impact Analysis

3.1.12.2.1 Significance Thresholds

Pursuant to CEQA Guidelines, potentially significant impacts would occur if implementation of the project would:

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;

b) Result in the loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan.

3.1.12.2.2 Project-Specific Impacts

Loss of Mineral Resources and/or Recovery Site (Significance Thresholds a, b):

***No impact*.** No significant mineral resources have been identified within the Thousand Oaks planning area, within which the proposed project will be located. Therefore, no impacts are anticipated.

3.1.12.3 Mitigation Measures

Not applicable. There will be no impacts; therefore, mitigation is not required.

3.1.12.4 Significance After Mitigation

Not applicable.

3.1.13 NOISE

Would the project result in:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?	☐	☐	☒	☐
b) Generation of excessive groundborne vibration or groundborne noise levels?	☐	☐	☒	☐
c) For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two 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?	☐	☐	☒	☐

3.1.13.1 Environmental Setting

3.1.13.1.1 Background

3.1.13.1.1.1 Noise

Sound is a vibratory disturbance created by a moving or vibrating source, which is capable of being detected by the hearing organs. Noise is defined as sound that is loud, unpleasant, unexpected, or undesired and may therefore be classified as a more specific group of sounds. The effects of noise on people can include general annoyance, interference with speech communication, sleep disturbance, and, in the extreme, hearing impairment (Caltrans, 2013a).

Noise levels are commonly measured in decibels (dB) using the A-weighted sound pressure level (dBA). The A-weighting scale is an adjustment to the actual sound pressure levels so that they are consistent with the human hearing response. Decibels are measured on a logarithmic scale that quantifies sound intensity in a manner similar to the Richter scale used to measure earthquake magnitudes. A doubling of the energy of a noise source, such as doubling of traffic volume, would increase the noise level by 3 dB; dividing the energy in half would result in a 3 dB decrease (Crocker, 2007).

Human perception of noise has no simple correlation with sound energy: the perception of sound is not linear in terms of dBA or in terms of sound energy. Two sources do not “sound twice as loud” as one source. It is widely accepted that the average healthy ear can barely perceive changes of 3 dBA, increase or decrease (i.e., twice the sound energy); that a change

of 5 dBA is readily perceptible (8 times the sound energy); and that an increase (or decrease) of 10 dBA sounds twice (half) as loud (10.5x the sound energy (Crocker 2007).

Sound changes in both level and frequency spectrum as it travels from the source to the receiver. The most obvious change is the decrease in level as the distance from the source increases. The manner by which noise reduces with distance depends on factors such as the type of sources (e.g., point or line, the path the sound will travel, site conditions, and obstructions). Noise levels from a point source typically attenuate, or drop off, at a rate of 6 dBA per doubling of distance (e.g., construction, industrial machinery, ventilation units). Noise from a line source (e.g., roadway, pipeline, railroad) typically attenuates at about 3 dBA per doubling of distance (Caltrans 2013a). Noise levels may also be reduced by intervening structures; the amount of attenuation provided by this "shielding" depends on the size of the object and the frequencies of the noise levels. Natural terrain features such as hills and dense woods, and man-made features such as buildings and walls, can significantly alter noise levels. Generally, any large structure blocking the line of sight will provide at least a 5-dBA reduction in source noise levels at the receiver (Federal Highway Administration [FHWA], 2017). Structures can substantially reduce exposure to noise as well. The FHWA's guidelines indicate that modern building construction generally provides an exterior-to-interior noise level reduction of 20 to 35 dBA with closed windows.

The impact of noise is not a function of loudness alone. The time of day when noise occurs and the duration of the noise are also important factors of project noise impact. Most noise that lasts for more than a few seconds is variable in its intensity. Consequently, a variety of noise descriptors have been developed. One of the most frequently used noise metrics is the equivalent noise level (L_{eq}); it considers both duration and sound power level. L_{eq} is defined as the single steady A-weighted level equivalent to the same amount of energy as that contained in the actual fluctuating levels over time. Typically, L_{eq} is summed over a one-hour period. L_{max} is the highest root mean squared (RMS) sound pressure level within the sampling period, and L_{min} is the lowest RMS sound pressure level within the measuring period (Crocker, 2007).

Noise that occurs at night tends to be more disturbing than that occurring during the day. Community noise is usually measured using Day-Night Average Level (L_{DN}), which is the 24-hour average noise level with a +10 dBA penalty for noise occurring during nighttime hours (10:00 p.m. to 7:00 a.m.); it is also measured using Community Noise Equivalent Level (CNEL), which is the 24-hour average noise level with a +5 dBA penalty for noise occurring from 7:00 p.m. to 10:00 p.m. and a +10 dBA penalty for noise occurring from 10:00 p.m. to 7:00 a.m. (Caltrans 2013a). Noise levels described by L_{DN} and CNEL usually differ by about 1 dBA. The relationship between the peak-hour L_{eq} value and the L_{DN}/CNEL depends on the distribution of traffic during the day, evening, and night. Quiet suburban areas typically have CNEL noise levels in the range of 40 to 50 dBA, while areas near arterial streets are in the 50 to 60-plus CNEL range. Normal conversational levels are in the 60 to 65-dBA L_{eq} range; ambient noise levels greater than 65 dBA L_{eq} can interrupt conversations (Federal Transit Administration [FTA] ,2018).

Some land uses are more sensitive to ambient noise levels than other uses due to the amount of noise exposure and the types of activities involved. For example, residences, motels, hotels, schools, libraries, churches, nursing homes, auditoriums, museums, cultural facilities, parks, and outdoor recreation areas are more sensitive to noise than commercial and industrial land uses.

3.1.13.1.1.2 Vibration

Vibration is a unique form of noise because its energy is carried through buildings, structures, and the ground, whereas sound is simply carried through the air. Thus, vibration is generally felt rather than heard. Some vibration effects can be caused by noise (e.g., the rattling of windows from passing trucks). This phenomenon is caused by the coupling of the acoustic energy at frequencies that are close to the resonant frequency of the material being vibrated. Typically, ground-borne vibration generated by manmade activities attenuates rapidly as distance from the source of the vibration increases.

3.1.13.1.2 Existing Noise Environment

The most common source of noise in the project site vicinity is vehicular traffic on U.S. Route 101. Vehicle noise would also occur from South Moorpark Road. Ambient noise levels are generally highest during the daytime and rush hour unless congestion substantially slows speeds. The LRGC also holds events which generate noise (e.g. live music); noise levels from these events are regulated by special use permit.

To characterize ambient sound levels at and near the project site, two 15-minute sound level measurements (Noise Measurement [NM] 1 and NM2) and one 24-hour measurement (NM3) were conducted on April 4, 2019 through April 5, 2019. Table 3.1.13-1 summarizes the results of the noise measurements, and detailed sound level measurement data are included in Appendix E. Converting the 24-hour dBA L_{eq} measurement to CNEL results in an ambient noise level of 70.4 CNEL near the single-family residential neighborhood (the closest sensitive receivers to the project site).

TABLE 3.1.13-1
PROJECT VICINITY SOUND LEVEL MONITORING RESULTS

Measurement Location	Measurement Location	Sample Times	Approximate Distance to Primary Noise Source	Leq (dBA)	Lmin (dBA)	Lmax (dBA)
1	Rolling Oaks Drive, near South Moorpark Road	10:17 – 10:32 a.m.	30 feet to centerline of Rolling Oaks Drive	64.1	54.7	75.7
2	Parking lot for driving range of Los Robles Greens	10:41 – 10:56 a.m.	300 feet to centerline of U.S. Route 101 and 200 feet to centerline of South Moorpark Road	67.1	64.4	70.1
3	Southeast corner of South Moorpark Road and Rolling Oaks Drive intersection (near single-family residential neighborhood)	April 4, 2019 10:00 a.m. – April 5, 2019 10:02 a.m.	800 feet to centerline of U.S. Route 101	68.4	48	111.4

Detailed sound level measurement data are included in Appendix E; data logger for NM1 and NM2 is off by one hour (i.e., shows (9:17 a.m. when time was 10:17 a.m.); date and time incorrect for NM3 (i.e., shows 4/1/2009 at 12:17 a.m. when measurement started on 4/4/2019 at 10:00 a.m.).

Existing noise sensitive receivers in the area include the single-family residences located approximately 650 feet south of the WTP and 600 feet south of the nearest pipeline construction.

3.1.13.2 Regulatory Setting

3.1.13.2.1 Noise Element

Chapter 4.9 of the Noise Element limits construction to the hours between 7:00 a.m. and 7:00 p.m., Monday through Saturday. No construction is permitted on Sunday. In addition, no congregation of trucks or construction-related vehicles or construction workers is allowed before 7:00 a.m. at the project site or in the nearby residential areas.

3.1.13.2.2 Municipal Code

Chapter 21 of the City Municipal Code has issued standards in regard to noise from radios, television sets and similar devices; powered equipment in residential areas; loud, unnecessary, and unusual noise; noise from emergency activities; and, noise from loud parties or assemblages. However, the City Municipal Code does not have quantitative standards for construction or stationary noise sources.

Chapter 8-11 of the City Municipal Code limits the construction of any building or structure, the moving of earth, or the laying of any pavement, including, but not limited to, the making of any excavation, clearing or grading of surface land, and loading or unloading material, equipment, or supplies to the hours of 7:00 a.m. to 7:00 p.m., Monday through Saturday.

Although construction activity is exempt from the noise standards shown above, for purposes of this analysis, the FTA Transit Noise and Vibration Impact Assessment (2018) criteria will be used. The FTA provides reasonable criteria for assessing construction noise impacts based on the potential for adverse community reaction. For residential uses, the daytime noise threshold is 80 dBA L_{eq} for an 8-hour period.

3.1.13.2.3 General Plan Noise Element

Chapter 4.6 of the City General Plan Noise Element develops more specific thresholds of significance where the ambient noise is at or above certain levels. Table 3.1.13-2 identifies noise impacts associated with project related noise level increases. As shown in Table 3.1.13-2, a project in the greater than 70 CNEL designation in the City General Plan would have a significant impact on noise levels from project operations if the project causes the ambient noise level measured to change from the current annual average noise levels to a use that is equal or greater than 1.0 dBA.

TABLE 3.1.13-2
CITY OF THOUSAND OAKS STATIONARY NOISE STANDARDS

If the annual average noise level with the proposed project, cumulative projects, and General Plan buildout in an area currently used for or designated in the General Plan for a noise-sensitive land use[1] is expected to be:	A significant project or cumulative impact may result if the change in annual average noise levels from existing conditions due to all sources in an area currently used for or designated in the General Plan for a noise-sensitive land use[1] is:	The project alone may be considered to make a substantial contribution to significant cumulative impact if the change in annual average noise level due to the project is:
Less than 55 dBA CNEL	Not significant for any change in noise level	Not significant for any change in noise level
55 – 60 dBA CNEL	Equal to or greater than 3.0 dBA	Equal to or greater than 1.0 dBA
60 -70 dBA CNEL	Equal to or greater than 1.5 dBA	Equal to or greater than 0.5 dBA
Greater than 70 dBA CNEL	Equal to or greater than 1.0 dBA	Equal to or greater than 0.5 dBA

Source: City of Thousand Oaks 2000

[1] A noise-sensitive land use is a use for which the lower limit of the noise level considered "normally unacceptable" for development because of noise impact is 70 dBA CNEL or lower. In identifying land use areas, areas which are undevelopable for noise-sensitive uses because of slope, development restriction, easement, etc., or which are used for non-noise-sensitive components of a multiple-use or mixed-use project, should not be considered noise sensitive.

3.1.13.2.4 Vibration

The City does not have defined thresholds for vibration. Vibration impacts are analyzed using the thresholds from Caltrans' *Transportation and Construction Vibration Guidance Manual* and the FTA's *Transit Noise and Vibration Impact Assessment Manual* (Caltrans 2013b; FTA 2018). From these documents, the applicable thresholds for the vibration analysis are 0.2 peak particle velocity (PPV) inches per second at residential structures and the human "distinctly perceptible" threshold of 0.24 PPV inches per second.

3.1.13.3 Impact Analysis

3.1.13.3.1 Significance Thresholds

This evaluation assesses potential impacts to noise resulting from the proposed project.

Pursuant to the CEQA Guidelines, potentially significant impacts would occur if implementation of the project would:

a) Result in generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies;

b) Result in generation of excessive groundborne vibration or groundborne noise levels; or

c) For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, expose people residing or working in the project area to excessive noise levels.

3.1.13.3.2 Project-Specific Impacts

Temporary or Permanent Increase in Noise (Significance Threshold a):

Less than Significant Impact.

Construction - Construction Equipment

Construction activity will result in temporary noise in the project area, exposing surrounding sensitive receptors to increased noise levels. Construction noise will typically be higher during the heavier periods of initial construction (i.e., site preparation and grading work) and will be lower during the later construction phases (i.e., building construction, paving). Typical heavy construction equipment during project grading and site preparation would include backhoes, excavators, and loaders. It is assumed that diesel engines would power the construction equipment. Construction equipment will not all operate at the same time or location. In addition, construction equipment would not be in constant use during the 8-hour operating day.

The closest sensitive receivers to project construction will be single-family residences, located approximately 600 feet to the southeast of pipeline construction. A loader and excavator were analyzed together for construction noise impacts due to their likelihood of being used in conjunction with one another and therefore a conservative scenario for the greatest noise generation during construction. At a distance of 600 feet, a loader and dump truck will generate a noise level of 57.4 dBA L_{eq}. This will be well below the FTA daytime threshold of 80 dBA L_{eq} for an 8-hour period. In addition, Chapter 8-11 of the City Municipal Code limits the construction to the hours of 7:00 a.m. to 7:00 p.m., Monday through Saturday; the project will only perform construction during these hours. Therefore, impacts from construction equipment will be less than significant.

Construction - Construction Traffic

As discussed in Section 3.1.17 (Transportation), project construction will involve up to 20 truck hauls per day and 30 one-way worker vehicle trips. This will result in an increase of two percent or less during the peak hours for the nearby roadways (Moorpark Road and Thousand Oaks Boulevard). Generally, a doubling of traffic would result in a 3 dBA increase, which is perceptible to humans and would be considered a significant noise increase. The two percent increase of traffic will be much lower than a doubling of traffic, and the subsequent noise increase from project traffic would be negligible. Therefore, impacts from construction traffic will be less than significant.

Operational - Operational Traffic

The project will add approximately six roundtrips per day during operation. Similar to construction traffic, this would represent a minor increase over existing traffic (0.2 percent increase), which would be much lower than the required traffic increase to result in a 3 dBA increase threshold. Therefore, the noise increase from project operational traffic will be negligible, and impacts would be less than significant.

Operational - Mechanical Equipment

The stationary noise impacts associated with the proposed project will include the mechanical equipment used to operate the WTP and the wellhead facilities of the project. The most powerful pumps that would be anticipated to be the main noise generators include: the well pump located at the wellhead facility; and the transfer pump, RO feed pumps (3), irrigation pump, and potable water pump at the WTP location. Other pumps, such as the various feed pumps, will be relatively small in size and will not generate substantial noise.

To analyze noise impacts from the pumps, a reference noise level measured for a 100-horsepower pump station on a similar water treatment plant was used (Padre Dam Municipal Water District 2015). This 100-horsepower pump station, which was in an enclosure, was measured at a noise level of 80.9 dBA L_{eq} at 5 feet. Using the reference noise level for this pump station as representative of the project's pumps would be conservative, as the horsepower for the seven aforementioned pumps will generally be lower than 100 horsepower, ranging from 40 to 100 horsepower (only the well pump would be at 100 horsepower). Also, all the pumps were assumed to be operating in a single location at distance of 650 feet from the nearest single-family residences, when some of the pumps would be located at a further distance within the facility.

As measured at the single-family residential area to the southeast of the project site, the ambient noise level over a 24-hour period was 70.4 dBA CNEL. Therefore, the applicable noise level thresholds from Table 3.1.13-2 and a significant impact, would be if the project's stationary noise were to increase noise levels by 1.0 dBA.

The combined noise levels from the seven pumps would be 89.3 dBA L_{eq} at a distance of 5 feet. When accounting for noise attenuation at 650 feet, the noise levels would be 47.0 dBA L_{eq}. This noise level, when summed with the existing ambient noise level, would increase noise levels by approximately one hundredth of a decibel; therefore, ambient noise levels would remain 70.4 dBA CNEL. This would be well below the 1.0 dBA noise increase threshold. Therefore, impacts would be less than significant.

Groundborne Vibration (Significance Threshold b):

Less than Significant Impact. Construction activities known to generate excessive ground-borne vibration, such as pile driving, would not be conducted by the project. The greatest anticipated source of vibration during general project construction activities would be from a roller, which would be used during paving activities and may be used within 600 feet of the nearest off-site residential structure during pipeline construction. A vibratory roller would create approximately 0.210 inches per second PPV at a distance of 25 feet (Caltrans 2013b). This would equal a vibration level of 0.01 inches per second PPV at a distance of 600 feet. This would be lower than what is considered a distinctly perceptible impact for humans of 0.24 inches per second PPV, and the structural damage impact to residential structures of 0.2 inches per second PPV. Therefore, temporary impacts associated with the roller (and other potential equipment) would be less than significant.

The project does not include any substantial vibration sources associated with operation. Therefore, operational vibration impacts will be less than significant.

Airport Noise (Significance Threshold c):

Less than Significant Impact. The project is not located in the vicinity of an airport; the nearest airport is Van Nuys Airport, located approximately 18 miles to the east. Therefore, the project will not expose people working at the project site to excessive airport noise levels, and no impacts would occur.

3.1.13.4 Mitigation Measures

No mitigation measures w be required.

3.1.13.5 Significance After Mitigation

Not applicable.

3.1.14 POPULATION AND HOUSING

Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Induce substantial unplanned population growth in an area, either directly (e.g., by proposing new homes and businesses) or indirectly (e.g., through extension of roads or other infrastructure)?	☐	☐	☒	☐
b) Displace substantial amounts of existing people or housing, necessitating the construction of replacement housing elsewhere?	☐	☐	☐	☒

3.1.14.1 Environmental Setting

The proposed project is located within the City, which encompasses a population of approximately 130,000 within an area of about 56 square miles. The proposed project would enable use of groundwater pumped at the existing LRGC well to help meet current and projected water demands for both irrigation and potable uses. By making this local water supply available, the project would help offset demands on imported water supplies which are becoming increasingly strained and costly. The project would thereby also help increase local water supply reliability.

3.1.14.2 Regulatory Setting

City of Thousand Oaks

The City's General Plan provides the framework for the physical development within the Thousand Oaks Planning Area. According to the 2013 General Plan Housing Element, the City is reaching build-out. The City is currently undertaking efforts to update the Housing Element.

Policies included in the Conservation Element which are directly applicable to the proposed project include:

- Continue to ensure the provision of water in quantities sufficient to satisfy current and projected demand
- Continue to develop and utilize groundwater resources to reduce the Planning Area's dependence upon imported water

3.1.14.3 Impact Analysis

3.1.14.3.1 Significance Thresholds

Pursuant to CEQA Guidelines, potentially significant impacts would occur if implementation of the project would:

a) Induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure); and/or

b) Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere.

3.1.14.3.2 Project-Specific Impacts

Population Growth Impacts (Significance Threshold a):

Less than Significant Impact. The proposed project does not consist of housing or businesses that would have the potential to directly induce substantial population growth. The proposed project would enable the City to utilize local groundwater in order to enhance local water supply reliability and reduce dependence on imported water supplies. Currently, water demands across the City are met solely with imported water supplies which are becoming increasingly strained and costly. The City identified the pumping and treating of LRGC well groundwater as a near-term action to utilize local water supplies and offset imported water demands. The water produced from the LRGC well would help meet existing and already projected demands more reliably, with local water supplies. The project is not anticipated to induce substantial unplanned growth.

Displacement Impacts (Significance Threshold b):

No Impact. The project is not anticipated to induce substantial growth and would therefore not result in displacement of substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere.

3.1.14.4 Mitigation Measures

Not applicable. There would be no impacts; therefore, mitigation is not required.

3.1.14.5 Significance After Mitigation

Not applicable.

3.1.15 PUBLIC SERVICES

Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services:				
i. Fire protection?	☐	☐	☐	☒
ii. Police protection?	☐	☐	☐	☒
iii. Schools?	☐	☐	☐	☒
iv. Parks?	☐	☐	☐	☒
v. Other public facilities?	☐	☐	☐	☒

3.1.15.1 Environmental Setting

The proposed project constitutes a WTP to be located at the existing LRGC parking lot, as well as related water pipelines that would be installed below grade within the LRGC and along Moorpark Road and Thousand Oaks Boulevard. The project is intended to enhance the City's local water supply reliability by enabling beneficial use of groundwater pumped from the LRGC well. Land uses in the vicinity of the project area include the LRGC and adjacent open space, commercial and commercial/residential uses.

3.1.15.2 Regulatory Setting

City of Thousand Oaks

Guidance on public services and facilities are outlined in the City's General Plan and include the following items that may be applicable to the proposed project:

- Public uses of land should contribute to the community's attractiveness and spaciousness through sensitive architecture and site planning.
- Public buildings and facilities should be located within the community in such a way as to efficiently serve all residents.
- Public uses of land should be compatible with the use of adjacent land and with the city's circulation system.

3.1.15.3 Impact Analysis

3.1.15.3.1 Significance Thresholds

Pursuant to CEQA Guidelines, potentially significant impacts would occur if implementation of the project would:

a) Result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services:

   i. Fire protection
   ii. Police protection
   iii. Schools
   iv. Parks
   v. Other public facilities

3.1.15.3.2 Project-Specific Impacts

Impacts on Public Services (Significance Thresholds i-v):

No Impact. Public services are typically required to be augmented as a result of population growth within an area. The proposed project is not anticipated to change land uses, increase the number of housing units, cause an increase in population or otherwise create activities that would increase demand for public services beyond that existing and anticipated for the project area. As the project would not induce population growth, this project would not require or result in new or physically altered governmental facilities, or otherwise result in impacts to or altered demands on public services, including fire protection, police protection, schools, parks, or other public facilities. Pipelines would be installed below grade within City rights-of-way and surfaces would be restored to pre-construction conditions. As a result, the project would not result in any physical impacts associated with the provision of public services.

3.1.15.4 Mitigation Measures

Not applicable. There would be no impacts; therefore, mitigation is not required.

3.1.15.5 Significance After Mitigation

Not applicable.

3.1.16 RECREATION

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?	☐	☐	☐	☒
b) Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?	☐	☐	☐	☒

3.1.16.1 Environmental Setting

The proposed facilities will be installed within partially developed areas that include an existing golf course – the LRGC, and existing City rights-of-way that traverse commercial and commercial/residential land uses. The LRGC is confined on three sides by urban development, including the 101 Freeway and commercial land uses to the North, and residential and commercial land uses to the East and West. An area of residentially developable land lies southeast of the LRGC. The LRGC lies within a larger area of open space extending southward from the 101 Freeway into the hilly and mountainous terrain of the Santa Monica Mountains.

3.1.16.2 Regulatory Setting

City of Thousand Oaks

Guidance on recreational resources in the City's General Plan focuses on open space resources, and includes the following which may be applicable to the proposed project:

- The degree of public access, and the nature, extent, and design of facilities necessary to provide access to, and enjoyment of, open space areas, such as trails, trailheads, information kiosks, signage, parking, camping areas, and other visitor facilities and improvements, shall be dictated by the nature and sensitivity of the specific open space area. Such improvements, where necessary and warranted, shall blend unobtrusively with the natural setting.

- Existing and future public parks, gold courses, and COSA [Conejo Open Space Conservation Agency] lands should be kept free of incompatible private development.

3.1.16.3 Impact Analysis

3.1.16.3.1 Significance Thresholds

Pursuant to CEQA Guidelines, potentially significant impacts would occur if implementation of the project would:

a) Increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated; and/or;

b) Include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment;

3.1.16.3.2 Project-Specific Impacts

Increased Use or Need for Recreational Facilities (Significance Thresholds a and b):

***No Impact*.** The proposed project would not result in substantial population growth that could increase demands on local parks or recreational facilities. No increased use or need for additional recreational facilities would result from the proposed project.

The proposed project would enable the City to utilize local groundwater in order to enhance local water supply reliability and reduce dependence on imported water supplies. The water produced from the LRGC well would help meet existing and already projected demands more reliably, with local water supplies. The project would not however induce substantial unplanned growth.

3.1.16.4 Mitigation Measures

Not applicable. There would be no impacts; therefore, mitigation is not required.

3.1.16.5 Significance After Mitigation

Not applicable.

3.1.17 TRANSPORTATION

Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Conflict with a program, plan, ordinance or policy addressing circulation system, including transit, roadway, bicycle and pedestrian facilities?	☐	☐	☒	☐
b) Would the project conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)?	☐	☐	☒	☐
c) Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible use (e.g., farm equipment)?	☐	☒	☐	☐
d) Result in inadequate emergency access?	☐	☒	☐	☐

3.1.17.1 Environmental Setting

The project site is located in the northeast corner of LRGC, immediately southwest of the United States Route 101 (U.S. 101)/Moorpark Road interchange in Thousand Oaks. The project site is bounded by Moorpark Road to the east, the LRGC to the south and west, and the U.S. 101/Moorpark Road southbound off-ramp to the north. The site is currently a parking lot. Access to the site is provided by an approximately 850-foot private drive, extending from the intersection of Rolling Oaks Drive and Moorpark Road, south of the project site.

3.1.17.1.1 Existing Roadway System

The following is a brief description of the major roadways serving the project site:

U.S. 101

U.S. 101 is considered by the California Department of Transportation (Caltrans) as a north-south freeway; however, in the vicinity of Thousand Oaks, U.S. 101 has an east-west alignment. U.S. 101 provides access from west Los Angeles north through California into Oregon and Washington. In the project vicinity, access to U.S. 101 is via Moorpark Road, Lynn Road, and Rancho Road/Rimrock Road. At the Moorpark Road interchange, it is a seven-lane freeway, with four northbound and three southbound through-lanes (excluding auxiliary lanes). Southbound U.S. 101 gains an additional through-lane east of the Moorpark Road interchange. The speed limit on U.S. 101 is 65 miles per hour (mph).

Moorpark Road

Moorpark Road is a four-lane road, south of the U.S. 101, and a six-lane road, north of U.S. 101 in the City's General Plan Circulation Element (Thousand Oaks 2015). Moorpark Road runs generally north/south east of the project site. South of the project site, Moorpark Road curves westward before terminating at the intersection of Greenmeadow Avenue and Oak Creek Drive. The road is divided by a vegetated median, and no parking is permitted along Moorpark Road in the project vicinity. The speed limit on Moorpark Road is 35 mph.

Rolling Oaks Drive

Rolling Oaks Drive is a two-lane road that runs generally east of the project site. It terminates at Moorpark Road at a signalized intersection southeast of the project site. West of Moorpark Road, a City-owned driveway travels through the LRGC parking area before curving southward and intersecting Moorpark Road. East of Moorpark Road, Rolling Oaks Drive travels east for approximately 0.5 mile before terminating in the parking area of a medical facility near Los Padres Drive. Parking is not permitted along Rolling Oaks Drive and the speed limit is 35 mph.

Thousand Oaks Boulevard

Near the project site, Thousand Oaks Boulevard is a four-lane road running east/west north of the U.S. 101 (Thousand Oaks 2015). Thousand Oaks Boulevard intersects Moorpark Road at a signalized intersection. East of Moorpark Road, East Thousand Oaks Boulevard extends approximately 7.8 miles before terminating near Carell Avenue in Agoura Hills. West of Moorpark Road, West Thousand Oaks Boulevard continues as a three-lane frontage road with a shared left-turn lane serving commercial and office development north and west of the U.S. 101/Moorpark Road interchange terminating at Wilbur Road. Parking is available on both sides of East Thousand Oaks Boulevard beginning approximately 0.1 mile east of Moorpark Road. No parking is permitted along West Thousand Oaks Boulevard and the speed limit is 35 mph.

3.1.17.1.2 Existing Transit System

Thousand Oaks is served by Thousand Oaks Transit, which operates four primary bus routes circulating throughout the City. Thousand Oaks Boulevard is a key transit route in the city, with Bus Routes 2, 3, and 4 traveling along the East Thousand Oaks Boulevard corridor. The nearest bus stop to the project site is the Thousand Oaks Boulevard and Baker Avenue stop approximately 0.3-mile (walking/driving distance) northeast of the site, which is served by Thousand Oaks Transit Routes 3 and 4 (Thousand Oaks 2018a).

The project site is approximately 1.2 miles (walking/driving distance) west of the Thousand Oaks City Transportation Center, located southwest of the Rancho Road/U.S. 101 interchange. In addition to being served by most Thousand Oaks Transit routes, the City Transportation Center is served by the Los Angeles Metropolitan Transportation Authority's Line 161 and Ventura County Transportation Commission's (VCTC) East County and U.S. 101/Conejo Connection lines.

3.1.17.1.3 Existing Bicycle and Pedestrian Facilities

Thousand Oaks is served by approximately 99 miles of Class I, II and IV bicycle facilities (Thousand Oaks 2019). According to the City's Bicycle Facilities Master Plan, the nearest designated bicycle facility is East Thousand Oaks Boulevard, a Class III bicycle facility with sharrows.[4] Rolling Oaks Drive, east of Moorpark Road, and northbound Moorpark Road, between Rolling Oaks Drive and the U.S. 101, provide striped shoulders but are not designated bicycle facilities. The Bicycle Facilities Master Plan notes the following planned bicycle improvements in the vicinity of the project site:

- Recommended Class III facilities along Moorpark Road under the U.S. 101
- Recommended Class II facilities along Moorpark Road south of Rolling Oaks Drive
- Recommended Class III facilities along Rolling Oaks Drive east of Moorpark Road
- Recommended Class III facilities along West Thousand Oaks Boulevard west of Moorpark Road

In addition to the existing and recommended bicycle facilities described above, the project vicinity is served by existing pedestrian sidewalks along Moorpark Road, Thousand Oaks Boulevard, and Rolling Oaks Drive east of Moorpark Road. There are no sidewalks west of Moorpark Road accessing the LRGC or the project.

3.1.17.2 Regulatory Setting

3.1.17.2.1 State Regulations

California Department of Transportation (Caltrans)

Caltrans publishes the *Guide for the Preparation of Traffic Impact Studies* (Guide), which provides guidelines and recommended elements of traffic studies for projects that could potentially impact state facilities such as state route highways and freeway facilities. This is a state-level document that is used by each of the Caltrans District offices (Caltrans 2002).

The Guide defines when traffic studies should be conducted to address impacts to state facilities but does not define quantitative impact standards. The Guide states that Measures of Effectiveness are used to evaluate Caltrans facilities and that the agency strives to maintain a level of service (LOS) value of C on its facilities. However, the Guide states that the appropriate target LOS varies by facility, and congestion level, and is defined differently by Caltrans depending on the analyzed facility.

3.1.17.2.2 Local Regulations

Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS)

SCAG is an association of local governments and agencies that serves as a Metropolitan Planning Organization, a Regional Transportation Planning Agency and a Council of

[4] Sharrows are shared-lane markings denoted by arrows on the roadway indicating where bicyclists and motor vehicles share the road.

Governments. The SCAG region encompasses six counties (Imperial, Los Angeles, Orange, Riverside, San Bernardino and Ventura) and 191 cities. SCAG is responsible for developing long-range regional transportation plans, including the regional Sustainable Communities Strategy and associated growth forecasts, regional transportation improvement programs, regional housing needs allocations and a portion of the South Coast Air Quality management plans.

SCAG's 2016-2040 Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS) is a long-range regional transportation and land use network plan that looks ahead 20+ years and provides a vision of the region's future mobility and housing needs with economic, environmental, and public health goals. The RTP/SCS identifies major challenges as well as potential opportunities associated with growth, transportation finances, the future of airports in the region, and pending transportation system deficiencies that could result from regional growth. SCAG adopted its current RTP/SCS in April 2016 (SCAG, 2016). Major goals of the 2016-2040 RTP/SCS include:

1. Align the plan investments and policies with improving regional economic development and competitiveness.
2. Maximize mobility and accessibility for all people and goods in the region.
3. Ensure travel safety and reliability for all people and goods in the region.
4. Preserve and ensure a sustainable regional transportation system.
5. Maximize the productivity of our transportation system.
6. Protect the environment and health of our residents by improving air quality and encouraging active transportation (e.g., bicycling and walking).
7. Actively encourage and create incentives for energy efficiency, where possible.
8. Encourage land use and growth patterns that facilitate transit and active transportation.
9. Maximize the security of the regional transportation system through improved system monitoring, rapid recovery planning, and coordination with other security agencies.

Congestion Management Program

VCTC adopted the most recent update to the Ventura County Congestion Management Program (CMP) in 1991. The CMP identifies CMP network facilities, evaluates their performance, requires local agencies to prepare deficiency plans for facilities failing to meet CMP performance goals, and identifies transportation demand management and transit strategies to relieve congestion in the county. The Ventura County CMP establishes a minimum standard of level of service (LOS) E for CMP network facilities.

Ventura County Short Range Transit Plan

VCTC's 2015 Short Range Transportation Plan is targeted at enhancing regional connectivity and developing more cohesive transit services in Ventura County (VCTC 2015). The plan includes a transit service evaluation, market analysis, and gaps analysis to evaluate the state of Ventura County's transit services and identify corridors with higher transit opportunities. The

plan also includes a Transit Investment Plan, which identifies priority transit-related facility upgrades, such as transit hubs and maintenance facilities.

Thousand Oaks General Plan Circulation Policies

The Thousand Oaks General Plan contains various policies relating to the City's transportation and circulation network. Specifically, the City's General Plan Circulation Policies promote maintenance and enhancement of the City's mass transit system, encourage a variety of transportation modes, provide for a city-wide network of bicycle and pedestrian facilities, and target street improvements to enhance access along Thousand Oaks Boulevard, Moorpark Road, and other major arterials. Additionally, the General Plan Circulation Policies establish a minimum standard of LOS C or better for all roads and intersections (City of Thousand Oaks 1997).

Thousand Oaks Municipal Code

The Thousand Oaks Municipal Code Title 4, Chapter 3 includes provisions related to traffic in the city. Policies contained in the chapter cover topics ranging from traffic control devices to vehicle parking to regulation of bicycles. Article 5 of the chapter defines speed limits for key roadways within the city. Article 7, *Truck Routes*, provides the City's Public Works Director or designated assignee the authority to place signs prohibiting the driving of trucks in excess of six tons gross vehicle weight along specific roads in the City (Section 4-3.701) and requires compliance with these posted restrictions (Section 4-3.702).

3.1.17.3 Impact Analysis

3.1.17.3.1 Significance Thresholds

This evaluation assesses potential impacts to transportation resulting from the proposed project.

Pursuant to CEQA Guidelines, potentially significant impacts would occur if implementation of the project would:

a) Conflict with a program plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities;

b) Conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b);

c) Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible use (e.g., farm equipment); or

d) Result in inadequate emergency access.

The City maintains performance criteria for intersections within its boundaries. According to environmental checklists and traffic impact analyses prepared for the City, a project may result in a significant transportation impact if it would increase the volume/capacity (V/C) ratio at an intersection by 0.02 or more in the peak hour and the resultant level of service at that intersection is LOS C or worse (Thousand Oaks 1997, 2018b).

3.1.17.3.2 Project-Specific Impacts

Conflict with a program, plan, ordinance, or policy addressing the circulation system (Significance Threshold a):

Less than Significant Impact. Impacts resulting from project construction and operation would be less than significant, as discussed below.

Construction Impacts

The proposed project would be constructed primarily within an existing LRGC parking lot. While the proposed raw water and irrigation water transmission lines would be constructed along the existing golf cart path at the LRGC, the proposed 1,300-linear foot potable water pipeline would extend along the west side of Moorpark Road north of the LRGC for approximately 750 linear feet. Construction of the WTP would involve demolition of the existing parking lot, grading and trenching, installation of underground utilities, building construction, paving, and final finishes. Open trench construction would be employed for the pipeline segments. Open trench construction would involve 700 to 1,000 feet of alignment at a time, with about 300 feet in active construction and a buffer on each side. The buffer would be used for traffic control (placement of cones, lane closure, signage) necessary to move vehicles safely around the construction area. The width of the construction zone would vary from 25 to 50 feet. Construction would progress along the alignment at about 150 to 250 feet a day.

Traffic impacts during project construction would be associated with an increase in traffic associated with worker vehicles and haul trucks, and with lane reductions caused by construction activity in the road during installation of the proposed potable water pipeline. The increased traffic could result in a reduction of roadway capacities due to slower movements and larger turning radii of construction trucks compared to passenger vehicles. In addition, lane closures would occur along Moorpark Road and nearby intersections during construction. Lane reductions could further reduce the roadway capacities, especially during peak hours. For most pipeline segments, construction would use the open-trench method, and thus only a short segment or roadway would be closed at any one time.

Anticipated construction-related vehicle trips include construction workers traveling to and from the project work areas, haul trucks (including for import and export of excavated materials), and other trucks associated with equipment and material deliveries. Each segment of open cut construction would involve up to 20 truck hauls per day (for material delivery, delivery of equipment, removal of spoils, and delivery of backfill materials) and up to 30 one-way worker vehicle trips per day. Any given location would not be in or adjacent to the construction zone for more than approximately 9 days. While truck hauls may occur throughout project construction, these trips would predominantly occur over the course of the approximately 64-day site work and 65-day grading phases.

Worker trips would likely travel through the U.S. 101/Moorpark Road on- and off-ramp intersections to access the WTP and pipeline alignments. The trips associated with hauling of material offsite for disposal and delivery of equipment/material would occur throughout the day. Any construction-related traffic occurring between 7:00 a.m. and 9:00 a.m. or between 4:00 p.m. and 6:00 p.m. would coincide with peak hour traffic and could temporarily impede traffic and transit flow. Travel during these time frames would primarily consist of workers traveling to and

from the project area, because deliveries would likely occur throughout the day during off-peak hours. Additionally, project construction would be limited to weekdays between 7:00 a.m. to 4:00 p.m. Therefore, hauling and delivery trips would not affect the PM peak hour.

Because traffic flow on urban arterials is most constrained at intersections, the City uses intersection LOS as a basis for determining the significance of traffic impacts. LOS designations range from A, representing free-flow operations, to F, corresponding to congested operations. In Thousand Oaks, a project may result in a significant transportation impact if it would increase the V/C ratio at an intersection by 0.02 or more in the peak hour and the resultant LOS at that intersection is C or worse. Table 3.1.17-1 shows peak hour traffic volumes and LOS at three intersections in the vicinity of the project site.[5] As noted in the table, intersections in the vicinity of the project site currently operate at LOS A during the peak hours.

TABLE 3.1.17-1
PEAK HOUR INTERSECTION TRAFFIC VOLUMES AND LEVEL OF SERVICE

Intersection	Traffic Volume (AM Peak Hour)	LOS (AM Peak Hour)	Traffic Volume (PM Peak Hour)	LOS (PM Peak Hour)
Moorpark Road and Thousand Oaks Boulevard	1,856 trips	A	3,613 trips	A
Moorpark Road/U.S. 101 Northbound Ramps	1,721 trips	A	2,578 trips	A
Moorpark Road/U.S. 101 Southbound Ramps	1,516 trips	A	1,937 trips	A

LOS = Level of Service

Source: Ventura County Transportation Commission 2018

Construction-related traffic would be short-term and limited to the duration of the construction period, from January 2021 to December 2021. Based on the traffic counts in Table 3.1.17-1, worker and haul trips associated with project construction would temporarily increase traffic at these intersections by 1.9 to 2.3 percent during the AM peak hour and 0.4 to 0.8 percent during the PM peak hour.[6] The anticipated construction traffic may result in a temporary, short-term decrease in intersection LOS. However, given that project area intersections operate at LOS A and the project would result in at most a 2.3 percent increase in peak hour volume, temporary

[5] Peak hour traffic counts at project area intersections are according to the most recently available counts provided by CMP 2017/2018 data.

[6] The exact timing of haul truck trips is unknown, but construction activities would not occur after 4:00 PM on weekdays. In order to provide a conservative analysis, this analysis assumes that all haul truck trips could occur during the AM peak hour.

construction traffic would be unlikely to substantially increase the V/C ratio or degrade LOS at any of the project area intersections.

VCTC adopted the Ventura County CMP in 1991 and most recently updated in 2009, establishes a minimum standard of LOS E for CMP locations. Roadways included in the CMP network in the vicinity of the project site include U.S. 101, Moorpark Road north of U.S. 101, and Thousand Oaks Boulevard east of Moorpark Road (VCTC 2009). According to the Ventura County CMP, all CMP locations in the vicinity of the project site meet the minimum LOS E standard with the exception of U.S. 101, which operates at LOS F during the AM Peak Hour in both directions and during the PM Peak Hour in the northbound direction (VCTC 2009).

According to the Ventura County CMP, U.S. 101 through the project site area accommodates 131,000 to 188,000 average daily trips. Assuming all worker, hauling, and delivery trips were to travel along U.S. 101 in the vicinity of the project site, total construction-related trips would account for less than 0.04 percent of U.S. 101 traffic. While worker trips may occur during peak hours, haul trips and delivery trips would occur throughout the day, reducing peak hour traffic impacts. Furthermore, pursuant to Section 2.3 of the Ventura County CMP, traffic associated with construction, rehabilitation, or maintenance activities is to be excluded from LOS analysis for the purposes of determining compliance with the minimum LOS E standard for CMP locations. Therefore, construction-related traffic would not impede the ability to achieve the LOS E minimum standard for U.S. 101 in the vicinity of the project site and would not conflict with the Ventura County CMP.

Given the short-term nature of construction, construction-related traffic impacts would not be substantial. Potential less than significant impacts would be further reduced by Mitigation Measure TRA-1, which requires preparation and implementation of a Traffic Management Plan (TMP).

Operation

Depending on the final classification of the proposed WTP determined by the Division of Drinking Water, operation of the facility may employ a Chief operator and a shift operator. It is not currently known whether the facility would operate 24 hours per day or specific hours or days of the week.

Conservatively assuming the WTP would operate 24 hours per day and involve three shifts for a Chief operator and shift operator each day, the facility would result in up to 12 daily one-way trips. Approximately four of these trips may occur during the morning and four during the evening peak hour during shift changes. Based on the intersection traffic counts provided in Table 3.1.17-1, project operation would increase traffic volumes at project area intersections by up to 0.3 percent. This increase would be negligible and would not increase V/C ratio at the intersections by two percent or more. As a result, transportation impacts related to project operation would be less than significant.

Conflict or be Inconsistent with CEQA Guidelines Section 15064.3(b) (Significance Threshold b):

Less than Significant Impact. The project would not conflict or be inconsistent with CEQA Guidelines Section 15064.3(b) and would result in no impact, as discussed below.

CEQA Guidelines Section 15064.3(b) identifies criteria for evaluating transportation impacts. Specifically, the guidelines state vehicle miles traveled (VMT) exceeding an applicable threshold of significance may indicate a significant impact. According to Section 15064.3(b)(3) of the CEQA Guidelines, a lead agency may include a qualitative analysis of operational and construction traffic. As discussed below, the project is not expected to affect VMT in the project area.

Project construction would generate worker and hauling trips to the project area, including up to 30 worker one-way trips per day for WTP and pipeline construction and 20 hauling or delivery trips per day. This increase in construction-related traffic may result in a short-term increase in VMT; however, this increase would be temporary in nature and limited to the duration of construction activities. Project operation may result in a minor increase in VMT associated with employment of the Chief operator(s) and shift operators. Such positions would likely be filled by existing workers or commuters in the Thousand Oaks area.

To date, the City has not formally adopted a VMT threshold of significance. However, the temporary nature of the trips associated with construction of the project along with the incremental increase in VMT associated with operation would not result in a potentially significant impact.

Substantially Increase Hazards (Significance Threshold c):

Less than Significant Impact with Mitigation Incorporated. Impacts resulting from long-term operation of the project and from project construction would be less than significant with incorporation of **MM TRA-1**, as discussed below.

Project facilities consist of a treatment plant on the existing LRGC parking lot, raw water and irrigation water pipelines along the LRGC golf cart path, and a potable water pipeline within the Moorpark Road right-of-way. Following installation of the potable water pipeline along Moorpark Road, the roadway would be returned to its original condition. Therefore, the project does not contain elements that would alter street design and project operation would not introduce hazards due to a geometric design feature or incompatible use.

While the WTP and raw and irrigation water pipelines would be constructed on the golf course, the proposed project may temporarily change the configuration of intersections and roadways within the project area if lane closures are required during potable water pipeline installation. As described in Section 1.6.1 of the project description, *Construction Activities*, pipeline installation would progress at the rate of 150 to 250 feet per day, thus limiting disruption to the existing traffic pattern along Moorpark Road to approximately five to nine days in total for installation of the 1,300-foot potable water pipeline segment. The pipeline installation work zone would include a 200- to 350-foot buffer on each side for traffic control, including placement of cones, lane closures, and signage necessary to move vehicles safely around the construction area. Flaggers would be placed as needed to provide additional construction traffic control. Implementation of these measures would reduce potential conflicts between vehicles, bicyclists, pedestrians, and construction workers.

Project construction would require hauling and delivery trucks to access the project site, including the proposed WTP site and pipeline alignments. Both Moorpark Road and Lynn Road, the primary access routes between the LRGC and U.S. 101, prohibit trucks greater than

six tons gross vehicle weight pursuant to Section 4-3.702 of the Thousand Oaks Municipal Code. Construction truck traffic would access the project site to remove or deliver soil, pipeline segments, equipment, or other materials. The introduction of construction trucks to roadways in the vicinity of the project site could create a temporary hazard due to incompatible use. This impact would be reduced to a less than significant level with implementation of Mitigation Measure TRA-1, which requires preparation and implementation of a TMP, including approval of construction truck routes by the City's Public Works Director.

Result in Inadequate Emergency Access (Significance Threshold d):

Less than Significant Impact with Mitigation Incorporated. Impacts resulting from long-term operation of the project and from project construction would be less than significant with incorporation of **MM TRA-1**, as discussed below.

Project operation would not alter the circulation system, LRGC site access, or substantially affect traffic levels on area roadways so as to impede emergency access. Temporary lane closures and other potential traffic impacts caused by construction activities associated with the proposed project would have potential to impede emergency response to those areas, or to areas accessed via those routes. As noted in Section 1.9 of the project description, *Project Design Features/Applicant Proposed Measures,* the project would include procedures requiring notification of all emergency service providers, including three nearby Ventura County Fire Department stations, City Police Department, as well as the City's Department of Public Works. Furthermore, implementation of **MM TRA-1** requires development and implementation of a TMP, which would identify emergency access routes/detours and procedures to provide priority access for emergency service vehicles through the work zone. With implementation of the mitigation measure, potential impacts to emergency access during construction would be less than significant.

3.1.17.4 Mitigation Measures

MM TRA-1: Traffic Management Plan. In addition to the traffic control and emergency services notification measures identified as project design features/applicant proposed measures, the contractor shall submit a Traffic Management Plan (TMP) to the City for review and approval by the Public Works Director or designee prior to construction or issuance of applicable permits. The TMP shall:

1. Identify construction-related vehicle routes, especially trucks. Truck routes shall minimize travel on roadways where truck traffic is ordinarily not permitted pursuant to Thousand Oaks Municipal Code Section 4-3.702.
2. Identify proper precautions to protect all pavements, curb and gutter, sidewalks, and drainage structures from damage associated with truck traffic on project area roadways.
3. Show the impact of various construction stages, including proposed lane closures, detours, staging areas, and routes of construction vehicles.
4. Identify emergency access routes and detours (if any) for emergency response along roadways potentially affected by project construction. Additionally, describe

procedures in place to provide priority access for emergency service vehicles through the construction work zone.

5. Describe traffic control measures that will be implemented to manage traffic and reduce potential traffic impacts in accordance with the most recent version of the California Manual of Uniform Traffic Control Devices. Traffic control measures may include, but are not limited to, flag persons, warning signs, lights, barricades and cones to provide safe passage of vehicular (including cars and buses), bicycle and pedestrian traffic, and access by emergency responders.
6. Identify an off-street parking area in which construction workers shall park.
7. Demonstrate the location of transit stops and transit and bicycle routes that would be temporarily impacted by construction activities and recommend places to temporarily relocate transit stops and transit and bicycle routes, if necessary. Provide signage for relocated transit, bicycle, or pedestrian facilities during project construction.

3.1.17.5 Significance After Mitigation

Implementation of **MM TRA-1** would require approval of truck routes, off-street construction staging, and traffic control measures by the City's Public Works Director prior to construction or issuance of applicable permits, in turn minimizing potential hazards associated with project construction and reducing potential impacts described under Significance Threshold c to a less than significant level.

Additionally, implementation of **MM TRA-1** would require the contractor to identify emergency access routes and detours and outline procedures to grant priority access for emergency service vehicles. These measures, in addition to the emergency services notification requirements included as project design features, would reduce potential impacts related to emergency access described under Significance Threshold d to a less than significant level.

3.1.18 TRIBAL CULTURAL RESOURCES

Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:	**Potentially Significant Impact**	**Less Than Significant with Mitigation Incorporated**	**Less Than Significant Impact**	**No Impact**
a) Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k), or	☐	☐	☐	☒
b) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.	☐	☐	☐	☒

3.1.18.1 Environmental Setting

The project site is in the south-central portion of Thousand Oaks in the Conejo Valley, north of the Santa Monica Mountain Range. The project site is on a developed golf course and adjacent roadways situated on terrace, alluvial fan, and backslope remnants, where the landform is approximately 710 feet above mean sea level. Surficial sediments in the area have been heavily disturbed from construction and maintenance of the LRGC. Soils within the project site include a Cropley clay series consisting of very deep, well drained soils formed in alluvium from mixed rock sources (California Soil Resource Lab 2019). The nearest water source is Arroyo Conejo, located just north of United States Route 101. Vegetation on the project site consists primarily of mature oak, pepper and eucalyptus trees, ornamentals and manicured grass.

3.1.18.2 Regulatory Setting

As of July 1, 2015, California Assembly Bill 52 of 2014 (AB 52) was enacted and expands CEQA by defining a new resource category, “tribal cultural resources.” AB 52 establishes 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” (Public Resources Code [PRC] Section 21084.2). AB 52 further states that the lead agency shall establish measures to avoid impacts that would alter the significant characteristics of a tribal cultural resource, when feasible (PRC Section 21084.3).

PRC Section 21074 (a)(1)(A) and (B) defines tribal cultural resources as “sites, features, places, cultural landscapes, sacred places, and objects with cultural value to a California Native American tribe” and is as follows:

1. Listed or eligible for listing in the CRHR, or in a local register of historical resources as defined in Public Resources Code Section 5020.1(k), or
2. A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of PRC Section 5024.1. In applying these criteria, the lead agency shall consider the significance of the resource to a California Native American tribe.

AB 52 also establishes a formal consultation process for California tribes regarding those resources. The consultation process must be completed before a CEQA document can be certified. Under AB 52, lead agencies are required to “begin consultation with a California Native American tribe that is traditionally and culturally affiliated with the geographic area of the proposed project.” Native American tribes to be included in the process are those that have requested notice of projects proposed within the jurisdiction of the lead agency.

3.1.18.3 Impact Analysis

3.1.18.3.1 Significance Thresholds

This evaluation assesses potential impacts to tribal cultural resources resulting from the proposed project. Pursuant to the CEQA Guidelines, potentially significant impacts would occur if implementation of the project would cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code section 21074 as either a site, feature, place, or cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:

a) Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code Section 5020.1(k); or

b) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 2024.1. In applying the criteria set forth in subdivision (c) of Public Resources Code Section 5024.1, the lead agency shall consider the significant of the resource to a California Native American tribe.

3.1.18.3.2 Project-Specific Impacts

Cause a substantial adverse change in the significance of a tribal cultural resource listed or eligible for listing on the California Register of Historical Resources or in a local register of historical resources (Significance Threshold a):

No Impact. No California tribes have requested notification of projects under AB 52 from the City. Therefore, the City did not distribute AB 52 notification letters for the current project. Additionally, no cultural resources of Native American origin that are eligible for listing on the

CRHR or a local register were identified in the project site (see Section 3.1.5, *Cultural Resources*). As part of the cultural resources study completed for this project (Appendix D), Rincon Consultants contacted the Native American Heritage Commission (NAHC) on March 27, 2019 to request a Sacred Lands Files (SLF) search of the project area. The NAHC responded on April 12, 2019 stating the results of the search were negative. Based on the above, the project will not cause a substantial adverse change in the significance of a cultural resource listed or eligible for listing in the CRHR or a local register.

Cause a substantial adverse change in the significance of a tribal cultural resource determined by the lead agency. (Significance Threshold b):

No Impact. No California tribes have requested notification of projects under AB 52 from the City. Therefore, the City did not distribute AB 52 notification letters for the current project. Additionally, no cultural resources of Native American origin were identified that will be impacted by the project (see Section 3.1.5, *Cultural Resources*). As part of the process of identifying cultural resources issues for this project, Rincon Consultants contacted the NAHC on March 27, 2019 to request a Sacred Lands Files search of the project area. The NAHC responded on April 12, 2019 stating the results of the search were negative. Given the project's location within the existing LRGC and previously disturbed areas, it is unlikely any sacred sites exist directly within the project site. Based on the above, the project will not cause a substantial adverse change in the significance of a cultural resource that the City has determined has significance as a tribal cultural resource. See Section 3.1.5, *Cultural Resources*, for mitigation measures related to the unanticipated discovery of archaeological resources.

3.1.18.4 Mitigation Measures

No mitigation measures would be required.

3.1.18.5 Significance After Mitigation

Not applicable.

3.1.19 UTILITIES AND SERVICES SYSTEMS

Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Require or result in the relocation or construction of new or expanded water, wastewater treatment or stormwater drainage, electric power, natural gas, or telecommunications facilities the construction or relocation of which could cause significant environmental effects?	☐	☐	☒	☐
b) Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?	☐	☐	☐	☒
c) Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?	☐	☐	☒	☐
d) Generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?	☐	☐	☐	☒
e) Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?	☐	☐	☐	☒

3.1.19.1 Environmental Setting

The project constitutes installation of a WTP at the LRGC in order to treat groundwater from the LRGC well and enable the City to utilize local water supplies to meet demands.

Water

The City's water supply is provided by five purveyors including the City itself (31 percent), Cal-Am (43 percent), Cal Water (23 percent), Camrosa Water District (2 percent), and Newbury Park Academy Mutual Water Company (less than 1 percent) (City of Thousand Oaks, 2018). Currently, water supplied to the City is solely made up of imported water purchased from CMWD, which receives its supply from MWDSC. The proposed project would enable the City to add groundwater to its water supply portfolio in order to offset a portion of its imported water supply demands with local supplies.

Wastewater

Wastewater treatment within the City is divided into two wastewater service areas based on topography. The Hill Canyon Wastewater Treatment Plant (WWTP) serves about 80% of the City, and 95% of the City's wastewater customers (City of Thousand Oaks 2013). The Hill Canyon WWTP has a capacity of 14 million gallons per day (mgd) and currently treats an average of 8.5 mgd (City of Thousand Oaks 2019). The Tapia Treatment Plant serves the remaining customers, within the southeastern portion of the City (City of Thousand Oaks 2013). The Tapia Treatment Plant has a capacity of 16 mgd and treats an average of about 9.5 mgd (LVMWD 2019).

Solid Waste

Solid waste disposal services are provided by Waste Management and EJ Harrison which is managed by the City's Public Works Department.

Stormwater and Drainage

Stormwater runoff is handled by the City's flood control collection system which feeds into a regional system owned and maintained by the Ventura County Watershed Protection District.

Other Utilities

Gas, electricity and telephone services are provided by Southern California Gas Company (SoCalGas), Southern California Edison (SCE) and Verizon Communications, respectively.

3.1.19.2 Regulatory Setting

The City has General Plan policies to ensure there is adequate provision of public services prior to approval of specific projects. Generally, development of residential units is the primary factor considered when evaluating adequacy of infrastructure and public facilities.

The following General Plan policies apply to the project:

- Continue to ensure the provision of water in quantities sufficient to satisfy current and projected demand

- Continue to develop and utilize groundwater resources to reduce the Planning Area's dependence upon imported water

Part 11 of Title 24, California Code of Regulations, outlines the State's mandatory green building standards code: California Green Building Standards Code (CALGreen). The standards were developed in an effort to meet AB 32 goals of reduced greenhouse gas emission levels by 2020. In compliance with CALGreen, the City implements the Construction and Demolition Debris Recycling Ordinance (No. 1639-NS), which requires that construction and/or demolition projects meeting specific thresholds divert a minimum of 65 percent of construction and demolition waste from landfill disposal through recycling or reuse. In order to ensure compliance with this ordinance, an approved Waste Management Plan is required before receiving a building permit and a Final Report at the time of final inspection.

3.1.19.3 Impact Analysis

3.1.19.3.1 Significance Thresholds

Pursuant to CEQA Guidelines, potentially significant impacts would occur if implementation of the project would:

a) Require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects;

b) Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years;

c) Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments;

d) Generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals;

e) Comply with federal, state, and local management and reduction statutes and regulations related to solid waste.

3.1.19.3.2 Project-Specific Impacts

Relocation or Construction of Facilities (Significance Threshold a):

Less than Significant Impact. Overall, the proposed project would not result in significant new demands or impacts to utilities or service systems. The project is not anticipated to induce substantial growth or require land use changes that could impact existing utilities or result in the need for new or expanded utilities or services.

The proposed project itself would enable the City to utilize local groundwater in order to enhance local water supply reliability and reduce dependence on imported water supplies. The water produced from the LRGC well would help meet existing and already projected demands more reliably, with local water supplies.

The WTP will generate a concentrated brine stream that will require disposal. This waste stream would be discharged to the City's sewer system which would then be treated at the Hill Canyon WWTP. An evaluation was conducted to assess the potential impact of this brine discharge on the sewer system and WWTP operation. The evaluation indicated that the receiving sewer segments would have sufficient capacity to convey the brine stream and the sewer lines are not anticipated to be negatively impacted by the elevated concentration of salts in the brine stream. The evaluation also indicated that the additional waste stream is not anticipated to negatively impact treatment operations at the WWTP or significantly impact effluent limitations. Therefore, the project would not result in the need for relocated, new, or expanded wastewater treatment.

The project would not result in substantial impacts to drainage patterns or increases in surface runoff that could require modification to existing or construction of new stormwater drainage facilities. The proposed project will not substantially increase impervious areas. The majority of construction activities would occur within already paved areas, including the existing LRGC parking lot and Moorpark Road and Thousand Oaks Boulevard. Road surfaces would be restored to pre-construction conditions. Alignment of pipelines along the golf cart path impacts a relatively small area and would not substantially change the imperviousness of those areas. As a result, implementation is not anticipated to result in significant impacts to stormwater drainage facilities.

The proposed project includes installation of utilities at the WTP, including power, chemical piping, water and sewer facilities.

The electrical demands of the proposed facilities are not anticipated to be significant. The WTP which would require the largest electrical supply would be located within an urban area that already has utility service. It is therefore anticipated that electrical needs could be accommodated by the existing electrical service.

The Project would not result in impacts to telecommunication facilities as it would not result in increased demand or need for relocation.

Water Supplies (Significance Threshold b):

No Impact. As noted above, the project itself enables the City to utilize local groundwater from the LRGC well to help meet water demands. This project would expand the City's water supply portfolio and enhance local water supply reliability.

Wastewater Requirements (Significance Thresholds c):

Less than Significant. The Project is anticipated to have less than significant impacts on wastewater treatment. The WTP will generate a concentrated brine stream that would be discharged to the City's sewer system and treated at the Hill Canyon WWTP. An evaluation was conducted to assess the potential impact of this brine discharge on the sewer system and WWTP operation. The evaluation indicated that the receiving sewer segments would have sufficient capacity to convey the brine stream. The WWTP itself also has sufficient capacity to accept the brine stream. The evaluation also indicated that the additional waste stream is not anticipated to negatively impact treatment operations at the WWTP or significantly impact effluent limitations. Therefore, the project would not result in the need for relocated, new, or expanded wastewater treatment.

Solid Waste (Significance Thresholds d, e):

No Impact. The proposed project would not produce substantial amounts of solid waste and would not have the potential to exceed existing waste infrastructure capacity. All project implementation activities would occur in compliance with all federal, state, and local management and reduction statutes and regulations related to solid waste.

A waste management plan would be submitted and would need to be approved prior to obtaining building permits. The waste management plan would ensure compliance with CALGreen and City ordinance.

3.1.19.4 Mitigation Measures

Not applicable. Impacts would be less than significant; therefore, mitigation is not required.

3.1.19.5 Significance After Mitigation

Not applicable.

3.1.20 WILDFIRE

If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Substantially impair an adopted emergency response plan or emergency evacuation plan?	☐	☐	☒	☐
b) Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to, pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?	☐	☐	☐	☒
c) Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?	☐	☐	☐	☒
d) Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?	☐	☐	☒	☐

3.1.20.1 Environmental Setting

The proposed facilities will be installed within partially developed areas that include an existing golf course – the LRGC, and existing City rights-of-way traversing commercial and commercial/residential land uses. The LRGC is confined on three sides by urban development, including the 101 Freeway and commercial land uses to the North, and residential and commercial land uses to the East and West. The LRGC lies within a larger area of open space extending southward from the 101 Freeway across Hidden Valley and Russell Valley and into the hilly and mountainous terrain of the Santa Monica Mountains.

The WTP will be located within the existing LRGC parking lot, directly south of the 101 Freeway, west of South Moorpark Road, in the City. The raw water and irrigation pipelines will extend from the LRGC well located approximately 2,650 feet northwest of the proposed WTP within the LRGC boundaries, along the existing golf cart path. The potable water transmission pipeline will extend from the WTP to an existing connection with the City's distribution system. This pipeline will be routed along existing rights-of-way within commercial and commercial/residential land uses to the Northwest of the LRGC.

The project site itself is not located within a fire hazard severity zone, but is located within 500 feet of a Very High Fire Hazard Severity Zone, which extends from the southwestern portion of LRGC into the primarily undeveloped lands of the nearby valleys and hillsides to the South and Southwest (CalFire, 2010).

3.1.20.2 Regulatory Setting

The Wildland-Urban Interface Fire Area Building Standards are minimum standards for materials and material assemblies to provide a reasonable level of exterior wildfire exposure protection for buildings in Wildland-Urban Interface Fire Areas. The standards promulgate the use of ignition resistant materials as well as design to decrease risk of flame or embers projected by a vegetation fire from intruding into structures.

As part of this program, CalFire has mapped fire risk as very high, high, or moderate with the focus on State Responsibility Areas (SRAs); SRAs are where CalFire has financial responsibility for fire suppression and prevention.

The State Wildland-Urban Interface Fire Area Building standards supplement local building codes and are enforced at the local level (e.g., County of Ventura building permits). Local codes reference the CalFire maps to determine fire risk.

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The City's General Plan Safety Element (2014) includes Goals and related Policies for fire hazard reduction. The following apply to the proposed project:

Goals

- S-6: *Prevent the loss of life and property due to uncontrolled wildfire in the urban/wildland interface through the cooperation of the Ventura County Fire Protection District and property owners living in these areas.*

Policies and Programs

- D-13: *Discourage the location of public facilities and above-ground utilities in extreme fire hazard areas. When unavoidable, special precautions should be taken to minimize potential impacts.*

3.1.20.3 Impact Analysis

3.1.20.3.1 Significance Thresholds

Pursuant to the pending CEQA Guidelines, potentially significant impacts would occur if implementation of the project would be located in or near state responsibility areas or lands classified as very high fire hazard severity zones, and implementation of the project would:

a) Substantially impair an adopted emergency response plan or emergency evacuation plan;

b) Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to, pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire;

c) Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment; and/or

d) Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes.

3.1.20.3.2 Project-Specific Impacts

Impairment of Emergency Response or Evacuation Plan (Significance Threshold a):

Less than Significant Impact. Generally, primary evacuation routes are located along major highways and major roads. The main facilities will be located within the LRGC which would not cause interference with Emergency Response during installation or operation phases. The potable water pipeline that would be routed along South Moorpark Road extending approximately 1,300 feet between the WTP to the City's distribution system tie-in location at Ventura Boulevard. The pipeline would be placed below grade and road surfaces restored to pre-project condition upon installation. The amount of roadway being disturbed and with potential to create an interference with emergency response is limited and is not anticipated to create a significant impact to emergency response or evacuation plans.

Potentially heightened levels of truck and car traffic could occur in the vicinity of the project site during the short-term construction phases, but that traffic would be temporary and is not anticipated to create significant interference to potential emergency roadways. As a result, the potential is low for interference or impairment of an emergency response plan or emergency evacuation plan.

Exacerbate Wildfire Risks (Significance Thresholds b):

No Impact. Potential risk of exposure to wildland fires by operators at the proposed WTP exists given proximity to a Very High Fire Hazard Severity Zone. However, the proposed project would not exacerbate wildfire risks. The facilities will be installed within an existing golf course and existing City rights-of-way. Pipelines and utilities would be installed below grade, and the WTP will be located within the LRGC parking lot. These areas lie outside of the State Responsibility Area and Very High Fire Hazard Severity Zone. In addition, they lie outside of vegetated wildlands and have overall limited vegetation that could be susceptible to wildland fires or would have potential to exacerbate wildfire risks. In addition, the WTP would be operated by one to two operators on a regular basis. The potential exposure of people to risks involving wildland fires is thereby generally limited due to the low regular occupancy of the WTP.

Measures will also be implemented for fire prevention and risk reduction onsite, including installation of fire sprinklers and minimum hydrant fire flow. The access road to the WTP will also serve as a fire access road.

Infrastructure Impacts (Significance Threshold c):

No Impact. The proposed project would not require installation or maintenance of fire-related infrastructure that could exacerbate fire risk or could result in temporary or ongoing impacts to the environment. All facilities would be installed within already developed areas, including the LRGC and rights-of way.

Exposure to Flooding or Landslides (Significances Threshold d):

Less than Significant Impact. The project is not anticipated to result in significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes. The facilities would be installed within the LRGC and rights-of way that lie within an area previously graded which would not be directly susceptible to landslides or slope instability. The nearest hillsides are located within about 0.25 miles of the project site and could experience fire-related drainage changes or surface alterations that could lead to downstream flooding or slope instability at the hillsides. However, those impacts are not anticipated to pose significant risks to the proposed facilities or WTP occupants. The areas do not lie adjacent to, or directly below, steep slopes with susceptibility for slope instability, flooding or post-fire landslides. The facilities are separated from the nearby hillsides by open space and commercial and residential structures.

3.1.20.4 Mitigation Measures

Not applicable. Impacts would be less than significant; therefore, mitigation is not required.

3.1.20.5 Significance After Mitigation

Not applicable.

3.2 Mandatory Findings of Significance

Does the project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Have the potential to substantially 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, substantially 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?	☐	☒	☐	☐
b) 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)?	☐	☐	☒	☐
c) Have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?	☐	☒	☐	☐

a) Does the project have the potential to substantially 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, substantially 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?

Less than Significant with Mitigation Incorporated. As discussed in Section 3.1.4, Biological Resources, the project would not 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, or reduce the number or restrict the range of a rare or endangered species.

However, as discussed, seven special-status animal species were determined to have low potential to occur within the project site. Potentially significant impacts to the special-status animal species could occur during ground disturbance, vegetation trimming, and construction equipment transport and operation of heavy equipment near the vegetated drainage feature in the form of harassment and/or injury, noise disruption, and potential water quality degradation, if water is present. In addition, nesting birds protected under the MBTA and CFGC may also be impacted as suitable habitat for nesting occurs in the project site. MM BIO-1 through MM BIO-3 would reduce potential impacts to a less than significant level through implementation of a worker environmental awareness program, pre-construction wildlife surveys and avoidance/relocation measures, and avoidance of active nests.

The drainage identified directly north of the project site within the survey area is likely a water of the U.S. and/or state subject to the jurisdiction of the USACE, RWQCB, and/or CDFW. The project could result in impacts to water resources during project activities due to excavation and grading activities within the jurisdictional area of the drainage. Indirect impacts may occur through contaminated run-off into the drainage channel and equipment and vehicle use within the project site. A jurisdictional delineation is necessary to define the boundaries of jurisdiction and determine permitting requirements. Actual jurisdictional limits are determined by the state and federal authorities at the time permits are requested. Consultation with USACE on the need for a Clean Water Act Section 404 permit, the RWQCB regarding compliance with Section 401 of the Clean Water Act, and CDFW on the need for a Streambed Alteration Agreement may be required. Based on consultation with the agencies, if permits are required for the project, appropriate permits should be obtained prior to disturbance of jurisdictional resources. Implementation of **MM BIO-4a** and **MM BIO-4b** would reduce potential impacts to the drainage channel to less than significant.

As discussed in Section 3.1.5, Cultural Resources, potentially significant impacts related to archaeological/Native American resources would be reduced to less than significant levels with implementation of **MM CUL-1**. Therefore, with the incorporation of mitigation, impacts associated with important examples of the major periods of California history or prehistory would be less than significant.

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)?

Less than Significant Impact. As described in the discussion of environmental checklist Sections 3.1.1 through 3.1.20, with respect to all environmental issues, the project would not result in significant and unavoidable impacts to the environment; all anticipated impacts associated with project construction and operation would be either no impact, less than significant or less than significant with mitigation incorporated.

Cumulatively considerable impacts could occur if the construction of other projects occurs at the same time as the project and in the same vicinity, such that the effects of similar impacts of multiple projects combine to result in greater levels of impact than would occur under the proposed project. For example, if the construction of other projects in the area occurs at the same time as construction of the proposed project, potential impacts associated with noise and traffic to residents in the project area may be more substantial.

The LRGC Maintenance Building, a separate, previously-approved capital improvement project, would be constructed immediately west of the proposed WTP on the existing LRGC parking lot. A CEQA Categorical Exemption was previously prepared and approved for the LRGC Maintenance Building project in March 2010. Construction of the LRGC Maintenance Building and the project would occur concurrently. Therefore, construction of the LRGC Maintenance Building and the proposed project could result in significant cumulative impacts, particularly in regard to aesthetic impacts as well as temporary construction-related air quality, noise, and transportation impacts.

The LRGC Maintenance Building would be similar in size and massing to the proposed WTP. The buildings would be constructed in an urbanized part of Thousand Oaks, with nearby two-story buildings located adjacent to the project site along South Moorpark Road. The buildings would be of similar scale and character as surrounding development and would not result in a significant cumulative impact with respect to aesthetics.

As discussed in Section 3.1.3, *Air Quality*, the proposed project's operational emissions would not exceed applicable VCAPCD criteria pollutant thresholds, and construction emissions would be temporary in nature and less than significant with incorporation of VCAPCD-recommended mitigation to reduce NO_x emissions. Because air quality analyses are cumulative in nature, the proposed project would not have a cumulatively considerable contribution to any cumulative air quality impact.

As discussed in Section 3.1.13, *Noise*, the dominant source of noise in the vicinity of the project site is vehicle traffic on U.S. 101. Operation of the project, including operational traffic and operation of proposed pump stations, would not result in a perceptible increase in ambient noise levels. Construction noise generated by the proposed project would remain well below the FTA daytime threshold for an 8-hour period at the nearest noise-sensitive receptors. Furthermore, construction of the LRGC Maintenance Building would be set back further from the nearest noise-sensitive receptors and, like the project, would be subject construction hours restrictions established in Chapter 8-11 of the Thousand Oaks Municipal Code, further minimizing potential short-term construction noise impacts. As a result, the two projects, if constructed concurrently, would not result in a cumulatively considerable contribution to the existing cumulative noise environment, significant or otherwise.

Finally, as discussed in Section 3.1.17, *Transportation*, the proposed project would generate minimal operational traffic, and short-term construction traffic impacts would be less than significant with incorporation of mitigation measure TRA-1. The proposed project would result in an up to two percent increase in area roadway traffic during construction and an up to 0.2 percent increase during operation. Given the minimal increase in traffic, the proposed project would not result in a cumulatively considerable contribution to any potential cumulative transportation impacts associated with construction of both the proposed project and the LRGC Maintenance Building. Furthermore, simultaneous construction of both projects would maximize efficiencies such that temporary construction impacts, such as temporary lane closures and truck access, would occur for a shorter period of time than if the two projects were constructed sequentially.

Project impacts are primarily temporary, localized effects that would occur during the construction phase. As described above, the project's contribution to any potential cumulative construction-related impacts would not be cumulatively considerable. Once operational, the

project would not have significant adverse environmental impacts that could combine with other projects' effects to create cumulatively considerable impacts. Therefore, the proposed project is not anticipated to result in a cumulatively considerable contribution to a significant cumulative impact.

c) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?

Less Than Significant with Mitigation Incorporated. As discussed herein, with the incorporation of mitigation, environmental impacts associated with project construction and operation would be reduced to less than significant levels. Therefore, the project would not directly or indirectly cause substantial adverse effects on human beings.

Section 4: Mitigation Monitoring and Reporting Plan

This Section will be provided with the Final IS/MND.

Section 5: List of Preparers

This IS/MND was prepared by the City of Thousand Oaks with the assistance of Kennedy/Jenks Consultants and Rincon Consultants.

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Appendix A: Excavation Calculations

MATERIALS DISPOSAL

Main Pipeline
9238.628274 cubic feet
342.1714175 cubic yards

Pump Station(s)
188.8889 cubic yards

Decant Tanks
648.1481 cubic yards

Other Yard Piping
50.4656 cubic yards

Demolish existing pavement
1348 cubic yards

Total Materials Disposal
2577.674 cubic yards

TOTAL EXCAVATION

Main Pipeline
82664.82834 cubic feet
3061.660309 cubic yards

Pump Station(s)
188.8888889 cubic yards

Decant Tanks
648.1481481 cubic yards

Other Yard Piping
5340 cubic yards

Demolish existing pavement
1348 cubic yards

Total Excavation
10586.7 cubic yards

Total Ground Disturbance
58562.39 sq. ft
1.344407484 acre

Los Robles Golf Course Area and Volume Calculations

12" Raw Water Pipeline & 8" Irrigation Water Pipeline in same trench

Length	2650	feet	Area footprint	15016.49	sq. ft.
Width (trench)	5.6666	feet	Empty trench excavation	65070.96	cubic feet
Depth	4.3333	feet		2410.035	cubic yards

Volume taken up by 12" pipe
2081.303 cubic feet
77.08531 cubic yards

Volume taken up by 8" pipe
924.8387 cubic feet
34.25329 cubic yards

Volume take up by pipe bedding
5005.447 cubic feet
185.3869 cubic yards

Materials Disposal — Volume of pipelines plus bedding
8011.589 cubic feet
296.7255 cubic yards

6" Sludge Discharge to City sewer & 4" RO Concentrate Discharge Pipe to sewer, both in same trench

Length	200	feet	Area footprint	833.32	sq. ft.
Width (trench)	4.1666	feet	Empty trench excavation	4305.431	cubic feet
Depth	5.1666	feet		159.4604	cubic yards

Volume taken up by 6" pipe
39.26988 cubic feet
1.45444 cubic yards

Volume taken up by 4" pipe
17.45188 cubic feet
0.646366 cubic yards

Volume take up by pipe bedding
138.8831 cubic feet
5.143819 cubic yards

Materials Disposal — Volume of pipelines plus bedding
195.6049 cubic feet
7.244625 cubic yards

8" Potable Water Pipeline

Length	1300	feet	Area footprint	3466.58	sq. ft.
Width (trench)	2.6666	feet	Empty trench excavation	13288.44	cubic feet
Depth	3.8333	feet		492.1645	cubic yards

Volume taken up by 8" pipe
453.6945 cubic feet
16.8035 cubic yards

Volume take up by pipe bedding
577.7402 cubic feet
21.39779 cubic yards

Materials Disposal — Volume of pipelines plus bedding
1031.435 cubic feet
38.20128 cubic yards

Materials Disposal

Main Pipelines
9238.628274 cubic feet
342.1714175 cubic yards

Pump Station(s)
188.8889 cubic yards

Decant Tanks
648.1481 cubic yards

Other Yard Piping
50.4656 cubic yards

Demolish existing pavement
1348 cubic yards

Total Materials Disposal
2577.674 cubic yards

Total Excavation

Main Pipelines
82664.83 cubic feet
3061.66 cubic yards

Pump Station(s)
188.8888889 cubic yards

Decant Tanks
648.1481481 cubic yards

Other Yard Piping
5340 cubic yards

Demolish existing pavement
1348 cubic yards

Total Excavation
10586.69735 cubic yards

Estimated pipeline excavation for yard piping

10" RO Feed					
	Length	30 feet	Area footp	120	sq. ft.
	Width (trer	4 feet	Empty tren	600	cubic feet
	Depth	5 feet		22.22222222	cubic yards
Volume taken up by 10" pipe					
	16.36192	cubic feet			
	0.605997	cubic yards			
Volume take up by pipe bedding					
	120	cubic feet			
	4.444444	cubic yards			
Materials Disposal	Volume of pipelines plus bedding				
	136.3619	cubic feet			
	5.050442	cubic yards			

10" Spent Backwash					
	Length	75 feet	Area footp	300	sq. ft.
	Width (trer	4 feet	Empty tren	1500	cubic feet
	Depth	5 feet		55.55555556	cubic yards
Volume taken up by 10" pipe					
	40.90481	cubic feet			
	1.514993	cubic yards			
Volume take up by pipe bedding					
	300	cubic feet			
	11.11111	cubic yards			
Materials Disposal	Volume of pipelines plus bedding				
	340.9048	cubic feet			
	12.6261	cubic yards			

4" Washwater Return					
	Length	100 feet	Area footp	300	sq. ft.
	Width (trer	3 feet	Empty tren	900	cubic feet
	Depth	3 feet		33.33333333	cubic yards
Volume taken up by 4" pipe					
	8.719659	cubic feet			
	0.32295	cubic yards			
Volume take up by pipe bedding					
	300	cubic feet			
	11.11111	cubic yards			
Materials Disposal	Volume of pipelines plus bedding				
	308.7197	cubic feet			
	11.43406	cubic yards			

Summary Disposal	
1362.571	Cubic feet
50.4656	Cubic yards

Summary Excavation	
5340	
197.7778	

4" Sludge

Length	60	feet	Area footp	180	sq. ft.
Width (trer	3	feet	Empty tren	540	cubic feet
Depth	3	feet		20	cubic yards

Volume taken up by 4" pipe

5.231795	cubic feet
0.19377	cubic yards

Volume take up by pipe bedding

180	cubic feet
6.666667	cubic yards

Materials Disposal — Volume of pipelines plus bedding

185.2318	cubic feet
6.860437	cubic yards

8" RO Permeate

Length	45	feet	Area footp	180	sq. ft.
Width (trer	4	feet	Empty tren	900	cubic feet
Depth	5	feet		33.33333333	cubic yards

Volume taken up by 8" pipe

15.67655	cubic feet
0.580613	cubic yards

Volume take up by pipe bedding

180	cubic feet
6.666667	cubic yards

Total excavation — Volume of pipelines plus bedding

195.6765	cubic feet
7.24728	cubic yards

8" Product Water Potable

Length	45	feet	Area footp	180	sq. ft.
Width (trer	4	feet	Empty tren	900	cubic feet
Depth	5	feet		33.33333333	cubic yards

Volume taken up by 8" pipe

15.67655	cubic feet
0.580613	cubic yards

Volume take up by pipe bedding

180	cubic feet
6.666667	cubic yards

Materials Disposal — Volume of pipelines plus bedding

195.6765	cubic feet
7.24728	cubic yards

Los Robles Golf Course Area and Volume Calculations

Other main components

Irrigation Water Pump Station (20 x 7 x 15)		
Area	140	sq. ft
Volume	2100	cubic feet
	77.77778	cubic yards

Potable Water Pump Station (20 x 10 x 15)		
Area	200	sq. ft
Volume	3000	cubic feet
	111.1111	cubic yards

Water Treatment Plant Building		
Area	6000	sq. ft

Chemical Storage Tote Area		
Area	800	sq. ft

Chemical Storage Tank Area		
Area	1000	sq. ft

Below Ground Decant Tanks (2) (50 x 25 x 14)		
Area	1250	sq. ft
Volume	17500	cubic feet
	648.1481	cubic yards

Overall Site Improvements		
Demolish existing pavement		
	4044	sq. yard
	36396	sq. ft
Assume 1 ft depth excavation		
	36396	cubic feet
	1348	cubic yard
New roadway and parking		
	3434	sq. yard
	30906	sq. ft

Appendix B: Air Quality/Greenhouse Gas Emissions CalFEMod Modeling Data

WTP

South Central Coast Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	9.40	1000sqft	0.84	36,393.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.9	**Precipitation Freq (Days)**	37
Climate Zone	8			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Construction emissions from pipeline segments analyzed in RCEM; lot size provided by Kennedy Jenks

Construction Phase - Construction info from Kennedy Jenks

Off-road Equipment - Defaults used for coating

Off-road Equipment - Defaults used for building construction

Off-road Equipment - Construction info from Kennedy Jenks

Off-road Equipment - Construction info from Kennedy Jenks

Off-road Equipment - Construction info from Kennedy Jenks (equipment assumed to be operational during entire construction phase)

Trips and VMT -

Grading - Asphalt demolished under site prep per Kennedy Jenks

Architectural Coating -

Vehicle Trips - Assumed 3 daily roundtrips for chief operator (3 shifts per day) and 3 daily roundtrips for shift operator (3 shifts per day).

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Area Coating -

Energy Use - Energy consumption from Kennedy Jenks (1356000 kwh/6k sf); all electrically powered

Water And Wastewater - No electricity intensity to supply water as no water import would occur

Solid Waste -

Construction Off-road Equipment Mitigation - Tier 2/Dust measures from Kennedy Jenks

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
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tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstructionPhase	NumDays	1.00	64.00

tblConstructionPhase	NumDays	2.00	65.00
tblConstructionPhase	NumDays	100.00	66.00
tblConstructionPhase	NumDays	5.00	66.00
tblConstructionPhase	NumDays	5.00	66.00
tblEnergyUse	LightingElect	2.99	0.00
tblEnergyUse	NT24E	3.83	0.00
tblEnergyUse	NT24NG	6.86	0.00
tblEnergyUse	T24E	1.63	36.68
tblEnergyUse	T24NG	14.04	0.00
tblGrading	MaterialExported	0.00	36,396.00
tblLandUse	LandUseSquareFeet	9,400.00	36,393.00
tblLandUse	LotAcreage	0.22	0.84
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblVehicleTrips	ST_TR	1.32	1.28
tblVehicleTrips	SU_TR	0.68	1.28
tblVehicleTrips	WD_TR	6.97	1.28
tblWater	ElectricityIntensityFactorToSupply	2,117.00	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	13.0099	33.4425	35.0162	0.0796	1.4124	1.6358	2.0804	0.3747	1.5736	1.6346	0.0000	8,392.6905	8,392.6905	1.3859	0.0000	8,421.7091
Maximum	**13.0099**	**33.4425**	**35.0162**	**0.0796**	**1.4124**	**1.6358**	**2.0804**	**0.3747**	**1.5736**	**1.6346**	**0.0000**	**8,392.6905**	**8,392.6905**	**1.3859**	**0.0000**	**8,421.7091**

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	12.9049	58.0081	44.4362	0.0796	1.3617	1.9489	2.1790	0.3670	1.9488	2.0098	0.0000	8,392.6905	8,392.6905	1.3859	0.0000	8,421.7091
Maximum	**12.9049**	**58.0081**	**44.4362**	**0.0796**	**1.3617**	**1.9489**	**2.1790**	**0.3670**	**1.9488**	**2.0098**	**0.0000**	**8,392.6905**	**8,392.6905**	**1.3859**	**0.0000**	**8,421.7091**

	ROG	NOx	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	**0.81**	**-73.46**	**-26.90**	**0.00**	**3.59**	**-19.14**	**-4.74**	**2.05**	**-23.85**	**-22.96**	**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	1.0100	1.0000e-005	9.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.0600e-003	2.0600e-003	1.0000e-005		2.1900e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0196	0.0833	0.2461	7.7000e-004	0.0745	7.1000e-004	0.0752	0.0199	6.6000e-004	0.0206		78.0398	78.0398	3.2900e-003		78.1222
Total	**1.0295**	**0.0833**	**0.2470**	**7.7000e-004**	**0.0745**	**7.1000e-004**	**0.0752**	**0.0199**	**6.6000e-004**	**0.0206**		**78.0419**	**78.0419**	**3.3000e-003**	**0.0000**	**78.1244**

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	1.0100	1.0000e-005	9.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.0600e-003	2.0600e-003	1.0000e-005		2.1900e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0196	0.0833	0.2461	7.7000e-004	0.0745	7.1000e-004	0.0752	0.0199	6.6000e-004	0.0206		78.0398	78.0398	3.2900e-003		78.1222
Total	**1.0295**	**0.0833**	**0.2470**	**7.7000e-004**	**0.0745**	**7.1000e-004**	**0.0752**	**0.0199**	**6.6000e-004**	**0.0206**		**78.0419**	**78.0419**	**3.3000e-003**	**0.0000**	**78.1244**

	ROG	NOx	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	Site Preparation	Site Preparation	1/1/2021	3/31/2021	5	64	
2	Grading	Grading	4/1/2021	6/30/2021	5	65	
3	Building Construction	Building Construction	7/1/2021	9/30/2021	5	66	
4	Paving	Paving	7/1/2021	9/30/2021	5	66	
5	Architectural Coating	Architectural Coating	10/1/2021	12/31/2021	5	66	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 54,590; Non-Residential Outdoor: 18,197; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

WTP - South Central Coast Air Basin, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Concrete/Industrial Saws	1	8.00	81	0.73
Site Preparation	Graders	0	8.00	187	0.41
Site Preparation	Off-Highway Trucks	1	8.00	402	0.38
Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Concrete/Industrial Saws	0	8.00	81	0.73
Grading	Excavators	1	8.00	158	0.38
Grading	Generator Sets	3	8.00	84	0.74
Grading	Off-Highway Trucks	2	8.00	402	0.38
Grading	Pumps	2	8.00	84	0.74
Grading	Rollers	1	8.00	80	0.38
Grading	Rubber Tired Dozers	0	1.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Grading	Welders	0	8.00	46	0.45
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Off-Highway Trucks	1	8.00	402	0.38
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Sweepers/Scrubbers	1	8.00	64	0.46
Paving	Tractors/Loaders/Backhoes	0	7.00	97	0.37
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
Site Preparation	4	10.00	0.00	4,550.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	11	28.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	15.00	6.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	3.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

3.2 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					0.0921	0.0000	0.0921	0.0140	0.0000	0.0140			0.0000			0.0000
Off-Road	1.3653	12.0929	11.7989	0.0257		0.5897	0.5897		0.5564	0.5564		2,472.9878	2,472.9878	0.6426		2,489.0515
Total	**1.3653**	**12.0929**	**11.7989**	**0.0257**	**0.0921**	**0.5897**	**0.6818**	**0.0140**	**0.5564**	**0.5704**		**2,472.9878**	**2,472.9878**	**0.6426**		**2,489.0515**

3.2 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	0.5341	18.9646	5.0323	0.0532	1.2381	0.0778	1.3159	0.3390	0.0744	0.4134		5,847.9711	5,847.9711	0.5162		5,860.8755
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	0.0398	0.0271	0.2605	7.2000e-004	0.0822	5.4000e-004	0.0827	0.0218	5.0000e-004	0.0223		71.7316	71.7316	2.0200e-003		71.7821
Total	**0.5740**	**18.9917**	**5.2929**	**0.0539**	**1.3203**	**0.0783**	**1.3986**	**0.3608**	**0.0749**	**0.4357**		**5,919.7028**	**5,919.7028**	**0.5182**		**5,932.6576**

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					0.0415	0.0000	0.0415	6.2800e-003	0.0000	6.2800e-003			0.0000			0.0000
Off-Road	0.8543	21.1782	15.5478	0.0257		0.6804	0.6804		0.6804	0.6804	0.0000	2,472.9878	2,472.9878	0.6426		2,489.0515
Total	**0.8543**	**21.1782**	**15.5478**	**0.0257**	**0.0415**	**0.6804**	**0.7218**	**6.2800e-003**	**0.6804**	**0.6867**	**0.0000**	**2,472.9878**	**2,472.9878**	**0.6426**		**2,489.0515**

3.2 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	0.5341	18.9646	5.0323	0.0532	1.2381	0.0778	1.3159	0.3390	0.0744	0.4134		5,847.9711	5,847.9711	0.5162		5,860.8755
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	0.0398	0.0271	0.2605	7.2000e-004	0.0822	5.4000e-004	0.0827	0.0218	5.0000e-004	0.0223		71.7316	71.7316	2.0200e-003		71.7821
Total	**0.5740**	**18.9917**	**5.2929**	**0.0539**	**1.3203**	**0.0783**	**1.3986**	**0.3608**	**0.0749**	**0.4357**		**5,919.7028**	**5,919.7028**	**0.5182**		**5,932.6576**

3.3 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	3.7444	33.3666	34.2867	0.0718		1.6343	1.6343		1.5722	1.5722		6,877.8520	6,877.8520	1.3803		6,912.3589
Total	**3.7444**	**33.3666**	**34.2867**	**0.0718**	**0.0000**	**1.6343**	**1.6343**	**0.0000**	**1.5722**	**1.5722**		**6,877.8520**	**6,877.8520**	**1.3803**		**6,912.3589**

3.3 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	0.0000	0.0000	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	0.1116	0.0759	0.7295	2.0200e-003	0.2300	1.5100e-003	0.2315	0.0610	1.3900e-003	0.0624		200.8486	200.8486	5.6500e-003		200.9898
Total	**0.1116**	**0.0759**	**0.7295**	**2.0200e-003**	**0.2300**	**1.5100e-003**	**0.2315**	**0.0610**	**1.3900e-003**	**0.0624**		**200.8486**	**200.8486**	**5.6500e-003**		**200.9898**

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	2.4503	57.9323	43.7067	0.0718		1.9474	1.9474		1.9474	1.9474	0.0000	6,877.8520	6,877.8520	1.3803		6,912.3589
Total	**2.4503**	**57.9323**	**43.7067**	**0.0718**	**0.0000**	**1.9474**	**1.9474**	**0.0000**	**1.9474**	**1.9474**	**0.0000**	**6,877.8520**	**6,877.8520**	**1.3803**		**6,912.3589**

3.3 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	0.0000	0.0000	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	0.1116	0.0759	0.7295	2.0200e-003	0.2300	1.5100e-003	0.2315	0.0610	1.3900e-003	0.0624		200.8486	200.8486	5.6500e-003		200.9898
Total	**0.1116**	**0.0759**	**0.7295**	**2.0200e-003**	**0.2300**	**1.5100e-003**	**0.2315**	**0.0610**	**1.3900e-003**	**0.0624**		**200.8486**	**200.8486**	**5.6500e-003**		**200.9898**

3.4 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	0.7750	7.9850	7.2637	0.0114		0.4475	0.4475		0.4117	0.4117		1,103.2158	1,103.2158	0.3568		1,112.1358
Total	**0.7750**	**7.9850**	**7.2637**	**0.0114**		**0.4475**	**0.4475**		**0.4117**	**0.4117**		**1,103.2158**	**1,103.2158**	**0.3568**		**1,112.1358**

3.4 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	0.0201	0.6127	0.1928	1.5300e-003	0.0406	1.9200e-003	0.0425	0.0117	1.8400e-003	0.0135		164.6282	164.6282	0.0121		164.9310
Worker	0.0598	0.0407	0.3908	1.0800e-003	0.1232	8.1000e-004	0.1240	0.0327	7.4000e-004	0.0334		107.5975	107.5975	3.0300e-003		107.6731
Total	**0.0798**	**0.6533**	**0.5836**	**2.6100e-003**	**0.1638**	**2.7300e-003**	**0.1665**	**0.0444**	**2.5800e-003**	**0.0469**		**272.2256**	**272.2256**	**0.0151**		**272.6042**

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	0.4704	10.7018	7.9624	0.0114		0.3855	0.3855		0.3855	0.3855	0.0000	1,103.2158	1,103.2158	0.3568		1,112.1358
Total	**0.4704**	**10.7018**	**7.9624**	**0.0114**		**0.3855**	**0.3855**		**0.3855**	**0.3855**	**0.0000**	**1,103.2158**	**1,103.2158**	**0.3568**		**1,112.1358**

3.4 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	0.0201	0.6127	0.1928	1.5300e-003	0.0406	1.9200e-003	0.0425	0.0117	1.8400e-003	0.0135		164.6282	164.6282	0.0121		164.9310
Worker	0.0598	0.0407	0.3908	1.0800e-003	0.1232	8.1000e-004	0.1240	0.0327	7.4000e-004	0.0334		107.5975	107.5975	3.0300e-003		107.6731
Total	**0.0798**	**0.6533**	**0.5836**	**2.6100e-003**	**0.1638**	**2.7300e-003**	**0.1665**	**0.0444**	**2.5800e-003**	**0.0469**		**272.2256**	**272.2256**	**0.0151**		**272.6042**

3.5 Paving - 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	1.3920	12.3795	10.6675	0.0243		0.6000	0.6000		0.5554	0.5554		2,296.7544	2,296.7544	0.7095		2,314.4928
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.3920**	**12.3795**	**10.6675**	**0.0243**		**0.6000**	**0.6000**		**0.5554**	**0.5554**		**2,296.7544**	**2,296.7544**	**0.7095**		**2,314.4928**

3.5 Paving - 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	0.0000	0.0000	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	0.0797	0.0542	0.5211	1.4400e-003	0.1643	1.0800e-003	0.1654	0.0436	9.9000e-004	0.0446		143.4633	143.4633	4.0400e-003		143.5642
Total	**0.0797**	**0.0542**	**0.5211**	**1.4400e-003**	**0.1643**	**1.0800e-003**	**0.1654**	**0.0436**	**9.9000e-004**	**0.0446**		**143.4633**	**143.4633**	**4.0400e-003**		**143.5642**

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	0.7107	18.4196	13.7796	0.0243		0.5347	0.5347		0.5347	0.5347	0.0000	2,296.7544	2,296.7544	0.7095		2,314.4928
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.7107**	**18.4196**	**13.7796**	**0.0243**		**0.5347**	**0.5347**		**0.5347**	**0.5347**	**0.0000**	**2,296.7544**	**2,296.7544**	**0.7095**		**2,314.4928**

3.5 Paving - 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	0.0000	0.0000	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	0.0797	0.0542	0.5211	1.4400e-003	0.1643	1.0800e-003	0.1654	0.0436	9.9000e-004	0.0446		143.4633	143.4633	4.0400e-003		143.5642
Total	**0.0797**	**0.0542**	**0.5211**	**1.4400e-003**	**0.1643**	**1.0800e-003**	**0.1654**	**0.0436**	**9.9000e-004**	**0.0446**		**143.4633**	**143.4633**	**4.0400e-003**		**143.5642**

3.6 Architectural Coating - 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					
Archit. Coating	12.7791					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	**12.9980**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**		**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.6 Architectural Coating - 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	0.0000	0.0000	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	0.0120	8.1300e-003	0.0782	2.2000e-004	0.0246	1.6000e-004	0.0248	6.5400e-003	1.5000e-004	6.6900e-003		21.5195	21.5195	6.1000e-004		21.5346
Total	**0.0120**	**8.1300e-003**	**0.0782**	**2.2000e-004**	**0.0246**	**1.6000e-004**	**0.0248**	**6.5400e-003**	**1.5000e-004**	**6.6900e-003**		**21.5195**	**21.5195**	**6.1000e-004**		**21.5346**

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	12.7791					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1139	2.3524	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0193		281.9309
Total	**12.8930**	**2.3524**	**1.8324**	**2.9700e-003**		**0.0951**	**0.0951**		**0.0951**	**0.0951**	**0.0000**	**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.6 Architectural Coating - 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	0.0000	0.0000	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	0.0120	8.1300e-003	0.0782	2.2000e-004	0.0246	1.6000e-004	0.0248	6.5400e-003	1.5000e-004	6.6900e-003		21.5195	21.5195	6.1000e-004		21.5346
Total	**0.0120**	**8.1300e-003**	**0.0782**	**2.2000e-004**	**0.0246**	**1.6000e-004**	**0.0248**	**6.5400e-003**	**1.5000e-004**	**6.6900e-003**		**21.5195**	**21.5195**	**6.1000e-004**		**21.5346**

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	0.0196	0.0833	0.2461	7.7000e-004	0.0745	7.1000e-004	0.0752	0.0199	6.6000e-004	0.0206		78.0398	78.0398	3.2900e-003		78.1222
Unmitigated	0.0196	0.0833	0.2461	7.7000e-004	0.0745	7.1000e-004	0.0752	0.0199	6.6000e-004	0.0206		78.0398	78.0398	3.2900e-003		78.1222

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	12.03	12.03	12.03	35,128	35,128
Total	12.03	12.03	12.03	35,128	35,128

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
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.578715	0.035276	0.195383	0.116292	0.021140	0.006161	0.017585	0.018715	0.001882	0.001409	0.004999	0.001105	0.001338

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	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

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					
General Light Industry	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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					
General Light Industry	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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	1.0100	1.0000e-005	9.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.0600e-003	2.0600e-003	1.0000e-005		2.1900e-003
Unmitigated	1.0100	1.0000e-005	9.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.0600e-003	2.0600e-003	1.0000e-005		2.1900e-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	lb/day										lb/day					
Architectural Coating	0.2311					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.7788					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	9.0000e-005	1.0000e-005	9.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.0600e-003	2.0600e-003	1.0000e-005		2.1900e-003
Total	**1.0100**	**1.0000e-005**	**9.6000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**2.0600e-003**	**2.0600e-003**	**1.0000e-005**		**2.1900e-003**

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	0.2311					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.7788					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	9.0000e-005	1.0000e-005	9.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.0600e-003	2.0600e-003	1.0000e-005		2.1900e-003
Total	**1.0100**	**1.0000e-005**	**9.6000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**2.0600e-003**	**2.0600e-003**	**1.0000e-005**		**2.1900e-003**

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

WTP

South Central Coast Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	9.40	1000sqft	0.84	36,393.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.9	**Precipitation Freq (Days)**	37
Climate Zone	8			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Construction emissions from pipeline segments analyzed in RCEM; lot size provided by Kennedy Jenks

Construction Phase - Construction info from Kennedy Jenks

Off-road Equipment - Defaults used for coating

Off-road Equipment - Defaults used for building construction

Off-road Equipment - Construction info from Kennedy Jenks

Off-road Equipment - Construction info from Kennedy Jenks

Off-road Equipment - Construction info from Kennedy Jenks (equipment assumed to be operational during entire construction phase)

Trips and VMT -

Grading - Asphalt demolished under site prep per Kennedy Jenks

Architectural Coating -

Vehicle Trips - Assumed 3 daily roundtrips for chief operator (3 shifts per day) and 3 daily roundtrips for shift operator (3 shifts per day).

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Area Coating -

Energy Use - Energy consumption from Kennedy Jenks (1356000 kwh/6k sf); all electrically powered

Water And Wastewater - No electricity intensity to supply water as no water import would occur

Solid Waste -

Construction Off-road Equipment Mitigation - Tier 2/Dust measures from Kennedy Jenks

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	5.00	66.00

tblConstructionPhase	NumDays	100.00	66.00
tblConstructionPhase	NumDays	2.00	65.00
tblConstructionPhase	NumDays	5.00	66.00
tblConstructionPhase	NumDays	1.00	64.00
tblEnergyUse	LightingElect	2.99	0.00
tblEnergyUse	NT24E	3.83	0.00
tblEnergyUse	NT24NG	6.86	0.00
tblEnergyUse	T24E	1.63	36.68
tblEnergyUse	T24NG	14.04	0.00
tblGrading	MaterialExported	0.00	36,396.00
tblLandUse	LandUseSquareFeet	9,400.00	36,393.00
tblLandUse	LotAcreage	0.22	0.84
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblVehicleTrips	ST_TR	1.32	1.28
tblVehicleTrips	SU_TR	0.68	1.28
tblVehicleTrips	WD_TR	6.97	1.28
tblWater	ElectricityIntensityFactorToSupply	2,117.00	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	13.0099	33.4425	35.0162	0.0796	1.4124	1.6358	2.0804	0.3747	1.5736	1.6346	0.0000	8,392.6905	8,392.6905	1.3859	0.0000	8,421.7091
Maximum	**13.0099**	**33.4425**	**35.0162**	**0.0796**	**1.4124**	**1.6358**	**2.0804**	**0.3747**	**1.5736**	**1.6346**	**0.0000**	**8,392.6905**	**8,392.6905**	**1.3859**	**0.0000**	**8,421.7091**

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	12.8505	34.1240	44.4362	0.0796	1.3617	1.9320	2.1620	0.3670	1.9319	1.9929	0.0000	8,392.6905	8,392.6905	1.3859	0.0000	8,421.7091
Maximum	**12.8505**	**34.1240**	**44.4362**	**0.0796**	**1.3617**	**1.9320**	**2.1620**	**0.3670**	**1.9319**	**1.9929**	**0.0000**	**8,392.6905**	**8,392.6905**	**1.3859**	**0.0000**	**8,421.7091**

	ROG	NOx	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	**1.23**	**-2.04**	**-26.90**	**0.00**	**3.59**	**-18.11**	**-3.92**	**2.05**	**-22.77**	**-21.92**	**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	1.0100	1.0000e-005	9.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.0600e-003	2.0600e-003	1.0000e-005		2.1900e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0196	0.0833	0.2461	7.7000e-004	0.0745	7.1000e-004	0.0752	0.0199	6.6000e-004	0.0206		78.0398	78.0398	3.2900e-003		78.1222
Total	**1.0295**	**0.0833**	**0.2470**	**7.7000e-004**	**0.0745**	**7.1000e-004**	**0.0752**	**0.0199**	**6.6000e-004**	**0.0206**		**78.0419**	**78.0419**	**3.3000e-003**	**0.0000**	**78.1244**

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	1.0100	1.0000e-005	9.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.0600e-003	2.0600e-003	1.0000e-005		2.1900e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0196	0.0833	0.2461	7.7000e-004	0.0745	7.1000e-004	0.0752	0.0199	6.6000e-004	0.0206		78.0398	78.0398	3.2900e-003		78.1222
Total	**1.0295**	**0.0833**	**0.2470**	**7.7000e-004**	**0.0745**	**7.1000e-004**	**0.0752**	**0.0199**	**6.6000e-004**	**0.0206**		**78.0419**	**78.0419**	**3.3000e-003**	**0.0000**	**78.1244**

	ROG	NOx	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	Site Preparation	Site Preparation	1/1/2021	3/31/2021	5	64	
2	Grading	Grading	4/1/2021	6/30/2021	5	65	
3	Building Construction	Building Construction	7/1/2021	9/30/2021	5	66	
4	Paving	Paving	7/1/2021	9/30/2021	5	66	
5	Architectural Coating	Architectural Coating	10/1/2021	12/31/2021	5	66	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 54,590; Non-Residential Outdoor: 18,197; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

WTP - South Central Coast Air Basin, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Concrete/Industrial Saws	1	8.00	81	0.73
Site Preparation	Graders	0	8.00	187	0.41
Site Preparation	Off-Highway Trucks	1	8.00	402	0.38
Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Concrete/Industrial Saws	0	8.00	81	0.73
Grading	Excavators	1	8.00	158	0.38
Grading	Generator Sets	3	8.00	84	0.74
Grading	Off-Highway Trucks	2	8.00	402	0.38
Grading	Pumps	2	8.00	84	0.74
Grading	Rollers	1	8.00	80	0.38
Grading	Rubber Tired Dozers	0	1.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Grading	Welders	0	8.00	46	0.45
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Off-Highway Trucks	1	8.00	402	0.38
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Sweepers/Scrubbers	1	8.00	64	0.46
Paving	Tractors/Loaders/Backhoes	0	7.00	97	0.37
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
Site Preparation	4	10.00	0.00	4,550.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	11	28.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	15.00	6.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	3.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

3.2 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					0.0921	0.0000	0.0921	0.0140	0.0000	0.0140			0.0000			0.0000
Off-Road	1.3653	12.0929	11.7989	0.0257		0.5897	0.5897		0.5564	0.5564		2,472.9878	2,472.9878	0.6426		2,489.0515
Total	**1.3653**	**12.0929**	**11.7989**	**0.0257**	**0.0921**	**0.5897**	**0.6818**	**0.0140**	**0.5564**	**0.5704**		**2,472.9878**	**2,472.9878**	**0.6426**		**2,489.0515**

3.2 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	0.5341	18.9646	5.0323	0.0532	1.2381	0.0778	1.3159	0.3390	0.0744	0.4134		5,847.9711	5,847.9711	0.5162		5,860.8755
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	0.0398	0.0271	0.2605	7.2000e-004	0.0822	5.4000e-004	0.0827	0.0218	5.0000e-004	0.0223		71.7316	71.7316	2.0200e-003		71.7821
Total	**0.5740**	**18.9917**	**5.2929**	**0.0539**	**1.3203**	**0.0783**	**1.3986**	**0.3608**	**0.0749**	**0.4357**		**5,919.7028**	**5,919.7028**	**0.5182**		**5,932.6576**

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					0.0415	0.0000	0.0415	6.2800e-003	0.0000	6.2800e-003			0.0000			0.0000
Off-Road	0.6004	12.5769	15.5478	0.0257		0.6804	0.6804		0.6804	0.6804	0.0000	2,472.9878	2,472.9878	0.6426		2,489.0515
Total	**0.6004**	**12.5769**	**15.5478**	**0.0257**	**0.0415**	**0.6804**	**0.7218**	**6.2800e-003**	**0.6804**	**0.6867**	**0.0000**	**2,472.9878**	**2,472.9878**	**0.6426**		**2,489.0515**

3.2 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	0.5341	18.9646	5.0323	0.0532	1.2381	0.0778	1.3159	0.3390	0.0744	0.4134		5,847.9711	5,847.9711	0.5162		5,860.8755
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	0.0398	0.0271	0.2605	7.2000e-004	0.0822	5.4000e-004	0.0827	0.0218	5.0000e-004	0.0223		71.7316	71.7316	2.0200e-003		71.7821
Total	**0.5740**	**18.9917**	**5.2929**	**0.0539**	**1.3203**	**0.0783**	**1.3986**	**0.3608**	**0.0749**	**0.4357**		**5,919.7028**	**5,919.7028**	**0.5182**		**5,932.6576**

3.3 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	3.7444	33.3666	34.2867	0.0718		1.6343	1.6343		1.5722	1.5722		6,877.8520	6,877.8520	1.3803		6,912.3589
Total	**3.7444**	**33.3666**	**34.2867**	**0.0718**	**0.0000**	**1.6343**	**1.6343**	**0.0000**	**1.5722**	**1.5722**		**6,877.8520**	**6,877.8520**	**1.3803**		**6,912.3589**

3.3 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	0.0000	0.0000	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	0.1116	0.0759	0.7295	2.0200e-003	0.2300	1.5100e-003	0.2315	0.0610	1.3900e-003	0.0624		200.8486	200.8486	5.6500e-003		200.9898
Total	**0.1116**	**0.0759**	**0.7295**	**2.0200e-003**	**0.2300**	**1.5100e-003**	**0.2315**	**0.0610**	**1.3900e-003**	**0.0624**		**200.8486**	**200.8486**	**5.6500e-003**		**200.9898**

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.6098	34.0481	43.7067	0.0718		1.9305	1.9305		1.9305	1.9305	0.0000	6,877.8520	6,877.8520	1.3803		6,912.3589
Total	**1.6098**	**34.0481**	**43.7067**	**0.0718**	**0.0000**	**1.9305**	**1.9305**	**0.0000**	**1.9305**	**1.9305**	**0.0000**	**6,877.8520**	**6,877.8520**	**1.3803**		**6,912.3589**

3.3 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	0.0000	0.0000	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	0.1116	0.0759	0.7295	2.0200e-003	0.2300	1.5100e-003	0.2315	0.0610	1.3900e-003	0.0624		200.8486	200.8486	5.6500e-003		200.9898
Total	**0.1116**	**0.0759**	**0.7295**	**2.0200e-003**	**0.2300**	**1.5100e-003**	**0.2315**	**0.0610**	**1.3900e-003**	**0.0624**		**200.8486**	**200.8486**	**5.6500e-003**		**200.9898**

3.4 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	0.7750	7.9850	7.2637	0.0114		0.4475	0.4475		0.4117	0.4117		1,103.2158	1,103.2158	0.3568		1,112.1358
Total	**0.7750**	**7.9850**	**7.2637**	**0.0114**		**0.4475**	**0.4475**		**0.4117**	**0.4117**		**1,103.2158**	**1,103.2158**	**0.3568**		**1,112.1358**

3.4 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	0.0201	0.6127	0.1928	1.5300e-003	0.0406	1.9200e-003	0.0425	0.0117	1.8400e-003	0.0135		164.6282	164.6282	0.0121		164.9310
Worker	0.0598	0.0407	0.3908	1.0800e-003	0.1232	8.1000e-004	0.1240	0.0327	7.4000e-004	0.0334		107.5975	107.5975	3.0300e-003		107.6731
Total	**0.0798**	**0.6533**	**0.5836**	**2.6100e-003**	**0.1638**	**2.7300e-003**	**0.1665**	**0.0444**	**2.5800e-003**	**0.0469**		**272.2256**	**272.2256**	**0.0151**		**272.6042**

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	0.2793	6.1296	7.9624	0.0114		0.3855	0.3855		0.3855	0.3855	0.0000	1,103.2158	1,103.2158	0.3568		1,112.1358
Total	**0.2793**	**6.1296**	**7.9624**	**0.0114**		**0.3855**	**0.3855**		**0.3855**	**0.3855**	**0.0000**	**1,103.2158**	**1,103.2158**	**0.3568**		**1,112.1358**

3.4 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	0.0201	0.6127	0.1928	1.5300e-003	0.0406	1.9200e-003	0.0425	0.0117	1.8400e-003	0.0135		164.6282	164.6282	0.0121		164.9310
Worker	0.0598	0.0407	0.3908	1.0800e-003	0.1232	8.1000e-004	0.1240	0.0327	7.4000e-004	0.0334		107.5975	107.5975	3.0300e-003		107.6731
Total	**0.0798**	**0.6533**	**0.5836**	**2.6100e-003**	**0.1638**	**2.7300e-003**	**0.1665**	**0.0444**	**2.5800e-003**	**0.0469**		**272.2256**	**272.2256**	**0.0151**		**272.6042**

3.5 Paving - 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	1.3920	12.3795	10.6675	0.0243		0.6000	0.6000		0.5554	0.5554		2,296.7544	2,296.7544	0.7095		2,314.4928
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.3920**	**12.3795**	**10.6675**	**0.0243**		**0.6000**	**0.6000**		**0.5554**	**0.5554**		**2,296.7544**	**2,296.7544**	**0.7095**		**2,314.4928**

3.5 Paving - 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	0.0000	0.0000	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	0.0797	0.0542	0.5211	1.4400e-003	0.1643	1.0800e-003	0.1654	0.0436	9.9000e-004	0.0446		143.4633	143.4633	4.0400e-003		143.5642
Total	**0.0797**	**0.0542**	**0.5211**	**1.4400e-003**	**0.1643**	**1.0800e-003**	**0.1654**	**0.0436**	**9.9000e-004**	**0.0446**		**143.4633**	**143.4633**	**4.0400e-003**		**143.5642**

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	0.5430	10.9136	13.7796	0.0243		0.5212	0.5212		0.5212	0.5212	0.0000	2,296.7544	2,296.7544	0.7095		2,314.4928
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.5430**	**10.9136**	**13.7796**	**0.0243**		**0.5212**	**0.5212**		**0.5212**	**0.5212**	**0.0000**	**2,296.7544**	**2,296.7544**	**0.7095**		**2,314.4928**

3.5 Paving - 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	0.0000	0.0000	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	0.0797	0.0542	0.5211	1.4400e-003	0.1643	1.0800e-003	0.1654	0.0436	9.9000e-004	0.0446		143.4633	143.4633	4.0400e-003		143.5642
Total	**0.0797**	**0.0542**	**0.5211**	**1.4400e-003**	**0.1643**	**1.0800e-003**	**0.1654**	**0.0436**	**9.9000e-004**	**0.0446**		**143.4633**	**143.4633**	**4.0400e-003**		**143.5642**

3.6 Architectural Coating - 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					
Archit. Coating	12.7791					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	**12.9980**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**		**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.6 Architectural Coating - 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	0.0000	0.0000	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	0.0120	8.1300e-003	0.0782	2.2000e-004	0.0246	1.6000e-004	0.0248	6.5400e-003	1.5000e-004	6.6900e-003		21.5195	21.5195	6.1000e-004		21.5346
Total	**0.0120**	**8.1300e-003**	**0.0782**	**2.2000e-004**	**0.0246**	**1.6000e-004**	**0.0248**	**6.5400e-003**	**1.5000e-004**	**6.6900e-003**		**21.5195**	**21.5195**	**6.1000e-004**		**21.5346**

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	12.7791					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0193		281.9309
Total	**12.8385**	**1.3570**	**1.8324**	**2.9700e-003**		**0.0951**	**0.0951**		**0.0951**	**0.0951**	**0.0000**	**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.6 Architectural Coating - 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	0.0000	0.0000	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	0.0120	8.1300e-003	0.0782	2.2000e-004	0.0246	1.6000e-004	0.0248	6.5400e-003	1.5000e-004	6.6900e-003		21.5195	21.5195	6.1000e-004		21.5346
Total	**0.0120**	**8.1300e-003**	**0.0782**	**2.2000e-004**	**0.0246**	**1.6000e-004**	**0.0248**	**6.5400e-003**	**1.5000e-004**	**6.6900e-003**		**21.5195**	**21.5195**	**6.1000e-004**		**21.5346**

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	0.0196	0.0833	0.2461	7.7000e-004	0.0745	7.1000e-004	0.0752	0.0199	6.6000e-004	0.0206		78.0398	78.0398	3.2900e-003		78.1222
Unmitigated	0.0196	0.0833	0.2461	7.7000e-004	0.0745	7.1000e-004	0.0752	0.0199	6.6000e-004	0.0206		78.0398	78.0398	3.2900e-003		78.1222

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	12.03	12.03	12.03	35,128	35,128
Total	12.03	12.03	12.03	35,128	35,128

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
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.578715	0.035276	0.195383	0.116292	0.021140	0.006161	0.017585	0.018715	0.001882	0.001409	0.004999	0.001105	0.001338

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	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

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					
General Light Industry	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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					
General Light Industry	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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	1.0100	1.0000e-005	9.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.0600e-003	2.0600e-003	1.0000e-005		2.1900e-003
Unmitigated	1.0100	1.0000e-005	9.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.0600e-003	2.0600e-003	1.0000e-005		2.1900e-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	lb/day										lb/day					
Architectural Coating	0.2311					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.7788					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	9.0000e-005	1.0000e-005	9.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.0600e-003	2.0600e-003	1.0000e-005		2.1900e-003
Total	**1.0100**	**1.0000e-005**	**9.6000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**2.0600e-003**	**2.0600e-003**	**1.0000e-005**		**2.1900e-003**

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	0.2311					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.7788					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	9.0000e-005	1.0000e-005	9.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.0600e-003	2.0600e-003	1.0000e-005		2.1900e-003
Total	**1.0100**	**1.0000e-005**	**9.6000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**2.0600e-003**	**2.0600e-003**	**1.0000e-005**		**2.1900e-003**

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

WTP

South Central Coast Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	9.40	1000sqft	0.84	36,393.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.9	**Precipitation Freq (Days)**	37
Climate Zone	8			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

WTP - South Central Coast Air Basin, Annual

Project Characteristics -

Land Use - Construction emissions from pipeline segments analyzed in RCEM; lot size provided by Kennedy Jenks

Construction Phase - Construction info from Kennedy Jenks

Off-road Equipment - Defaults used for coating

Off-road Equipment - Defaults used for building construction

Off-road Equipment - Construction info from Kennedy Jenks

Off-road Equipment - Construction info from Kennedy Jenks

Off-road Equipment - Construction info from Kennedy Jenks (equipment assumed to be operational during entire construction phase)

Trips and VMT -

Grading - Asphalt demolished under site prep per Kennedy Jenks

Architectural Coating -

Vehicle Trips - Assumed 3 daily roundtrips for chief operator (3 shifts per day) and 3 daily roundtrips for shift operator (3 shifts per day).

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Area Coating -

Energy Use - Energy consumption from Kennedy Jenks (1356000 kwh/6k sf); all electrically powered

Water And Wastewater - No electricity intensity to supply water as no water import would occur

Solid Waste -

Construction Off-road Equipment Mitigation - Tier 2/Dust measures from Kennedy Jenks

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstructionPhase	NumDays	1.00	64.00

tblConstructionPhase	NumDays	2.00	65.00
tblConstructionPhase	NumDays	100.00	66.00
tblConstructionPhase	NumDays	5.00	66.00
tblConstructionPhase	NumDays	5.00	66.00
tblEnergyUse	LightingElect	2.99	0.00
tblEnergyUse	NT24E	3.83	0.00
tblEnergyUse	NT24NG	6.86	0.00
tblEnergyUse	T24E	1.63	36.68
tblEnergyUse	T24NG	14.04	0.00
tblGrading	MaterialExported	0.00	36,396.00
tblLandUse	LandUseSquareFeet	9,400.00	36,393.00
tblLandUse	LotAcreage	0.22	0.84
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblVehicleTrips	ST_TR	1.32	1.28
tblVehicleTrips	SU_TR	0.68	1.28
tblVehicleTrips	WD_TR	6.97	1.28
tblWater	ElectricityIntensityFactorToSupply	2,117.00	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	0.6922	2.8358	2.3697	6.3800e-003	0.0631	0.1123	0.1754	0.0168	0.1065	0.1232	0.0000	577.3192	577.3192	0.1074	0.0000	580.0046
Maximum	**0.6922**	**2.8358**	**2.3697**	**6.3800e-003**	**0.0631**	**0.1123**	**0.1754**	**0.0168**	**0.1065**	**0.1232**	**0.0000**	**577.3192**	**577.3192**	**0.1074**	**0.0000**	**580.0046**

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	0.5977	4.2412	2.9220	6.3800e-003	0.0615	0.1212	0.1827	0.0165	0.1211	0.1376	0.0000	577.3188	577.3188	0.1074	0.0000	580.0041
Maximum	**0.5977**	**4.2412**	**2.9220**	**6.3800e-003**	**0.0615**	**0.1212**	**0.1827**	**0.0165**	**0.1211**	**0.1376**	**0.0000**	**577.3188**	**577.3188**	**0.1074**	**0.0000**	**580.0041**

	ROG	NOx	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	**13.64**	**-49.56**	**-23.31**	**0.00**	**2.57**	**-7.94**	**-4.16**	**1.49**	**-13.76**	**-11.68**	**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	1.0615	1.3371
2	4-1-2021	6-30-2021	1.2114	1.9678
3	7-1-2021	9-30-2021	0.7678	1.0232
		Highest	1.2114	1.9678

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	0.1843	0.0000	9.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7000e-004	1.7000e-004	0.0000	0.0000	1.8000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	425.3262	425.3262	0.0176	3.6300e-003	426.8478
Mobile	3.5100e-003	0.0152	0.0438	1.4000e-004	0.0133	1.3000e-004	0.0134	3.5500e-003	1.2000e-004	3.6700e-003	0.0000	12.9591	12.9591	5.4000e-004	0.0000	12.9726
Waste						0.0000	0.0000		0.0000	0.0000	2.3669	0.0000	2.3669	0.1399	0.0000	5.8638
Water						0.0000	0.0000		0.0000	0.0000	0.6896	2.2814	2.9711	0.0709	1.6900e-003	5.2484
Total	**0.1878**	**0.0152**	**0.0439**	**1.4000e-004**	**0.0133**	**1.3000e-004**	**0.0134**	**3.5500e-003**	**1.2000e-004**	**3.6700e-003**	**3.0565**	**440.5670**	**443.6235**	**0.2289**	**5.3200e-003**	**450.9328**

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	0.1843	0.0000	9.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7000e-004	1.7000e-004	0.0000	0.0000	1.8000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	425.3262	425.3262	0.0176	3.6300e-003	426.8478
Mobile	3.5100e-003	0.0152	0.0438	1.4000e-004	0.0133	1.3000e-004	0.0134	3.5500e-003	1.2000e-004	3.6700e-003	0.0000	12.9591	12.9591	5.4000e-004	0.0000	12.9726
Waste						0.0000	0.0000		0.0000	0.0000	2.3669	0.0000	2.3669	0.1399	0.0000	5.8638
Water						0.0000	0.0000		0.0000	0.0000	0.6896	2.2814	2.9711	0.0709	1.6900e-003	5.2484
Total	**0.1878**	**0.0152**	**0.0439**	**1.4000e-004**	**0.0133**	**1.3000e-004**	**0.0134**	**3.5500e-003**	**1.2000e-004**	**3.6700e-003**	**3.0565**	**440.5670**	**443.6235**	**0.2289**	**5.3200e-003**	**450.9328**

	ROG	NOx	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

WTP - South Central Coast Air Basin, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2021	3/31/2021	5	64	
2	Grading	Grading	4/1/2021	6/30/2021	5	65	
3	Building Construction	Building Construction	7/1/2021	9/30/2021	5	66	
4	Paving	Paving	7/1/2021	9/30/2021	5	66	
5	Architectural Coating	Architectural Coating	10/1/2021	12/31/2021	5	66	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 54,590; Non-Residential Outdoor: 18,197; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

WTP - South Central Coast Air Basin, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Concrete/Industrial Saws	1	8.00	81	0.73
Site Preparation	Graders	0	8.00	187	0.41
Site Preparation	Off-Highway Trucks	1	8.00	402	0.38
Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Concrete/Industrial Saws	0	8.00	81	0.73
Grading	Excavators	1	8.00	158	0.38
Grading	Generator Sets	3	8.00	84	0.74
Grading	Off-Highway Trucks	2	8.00	402	0.38
Grading	Pumps	2	8.00	84	0.74
Grading	Rollers	1	8.00	80	0.38
Grading	Rubber Tired Dozers	0	1.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Grading	Welders	0	8.00	46	0.45
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Off-Highway Trucks	1	8.00	402	0.38
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Sweepers/Scrubbers	1	8.00	64	0.46
Paving	Tractors/Loaders/Backhoes	0	7.00	97	0.37
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
Site Preparation	4	10.00	0.00	4,550.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	11	28.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	15.00	6.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	3.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

3.2 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					2.9500e-003	0.0000	2.9500e-003	4.5000e-004	0.0000	4.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0437	0.3870	0.3776	8.2000e-004		0.0189	0.0189		0.0178	0.0178	0.0000	71.7906	71.7906	0.0187	0.0000	72.2570
Total	**0.0437**	**0.3870**	**0.3776**	**8.2000e-004**	**2.9500e-003**	**0.0189**	**0.0218**	**4.5000e-004**	**0.0178**	**0.0183**	**0.0000**	**71.7906**	**71.7906**	**0.0187**	**0.0000**	**72.2570**

3.2 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	0.0168	0.6150	0.1561	1.7200e-003	0.0389	2.4500e-003	0.0413	0.0107	2.3500e-003	0.0130	0.0000	171.2709	171.2709	0.0148	0.0000	171.6398
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	1.1400e-003	8.4000e-004	8.2400e-003	2.0000e-005	2.5700e-003	2.0000e-005	2.5900e-003	6.8000e-004	2.0000e-005	7.0000e-004	0.0000	2.0956	2.0956	6.0000e-005	0.0000	2.0971
Total	**0.0180**	**0.6158**	**0.1643**	**1.7400e-003**	**0.0414**	**2.4700e-003**	**0.0439**	**0.0113**	**2.3700e-003**	**0.0137**	**0.0000**	**173.3665**	**173.3665**	**0.0148**	**0.0000**	**173.7369**

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					1.3300e-003	0.0000	1.3300e-003	2.0000e-004	0.0000	2.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0273	0.6777	0.4975	8.2000e-004		0.0218	0.0218		0.0218	0.0218	0.0000	71.7905	71.7905	0.0187	0.0000	72.2569
Total	**0.0273**	**0.6777**	**0.4975**	**8.2000e-004**	**1.3300e-003**	**0.0218**	**0.0231**	**2.0000e-004**	**0.0218**	**0.0220**	**0.0000**	**71.7905**	**71.7905**	**0.0187**	**0.0000**	**72.2569**

3.2 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	0.0168	0.6150	0.1561	1.7200e-003	0.0389	2.4500e-003	0.0413	0.0107	2.3500e-003	0.0130	0.0000	171.2709	171.2709	0.0148	0.0000	171.6398
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	1.1400e-003	8.4000e-004	8.2400e-003	2.0000e-005	2.5700e-003	2.0000e-005	2.5900e-003	6.8000e-004	2.0000e-005	7.0000e-004	0.0000	2.0956	2.0956	6.0000e-005	0.0000	2.0971
Total	**0.0180**	**0.6158**	**0.1643**	**1.7400e-003**	**0.0414**	**2.4700e-003**	**0.0439**	**0.0113**	**2.3700e-003**	**0.0137**	**0.0000**	**173.3665**	**173.3665**	**0.0148**	**0.0000**	**173.7369**

3.3 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1217	1.0844	1.1143	2.3300e-003		0.0531	0.0531		0.0511	0.0511	0.0000	202.7832	202.7832	0.0407	0.0000	203.8006
Total	**0.1217**	**1.0844**	**1.1143**	**2.3300e-003**	**0.0000**	**0.0531**	**0.0531**	**0.0000**	**0.0511**	**0.0511**	**0.0000**	**202.7832**	**202.7832**	**0.0407**	**0.0000**	**203.8006**

3.3 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	0.0000	0.0000	0.0000	0.0000	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	3.2500e-003	2.4000e-003	0.0234	7.0000e-005	7.3100e-003	5.0000e-005	7.3600e-003	1.9400e-003	5.0000e-005	1.9900e-003	0.0000	5.9594	5.9594	1.7000e-004	0.0000	5.9636
Total	**3.2500e-003**	**2.4000e-003**	**0.0234**	**7.0000e-005**	**7.3100e-003**	**5.0000e-005**	**7.3600e-003**	**1.9400e-003**	**5.0000e-005**	**1.9900e-003**	**0.0000**	**5.9594**	**5.9594**	**1.7000e-004**	**0.0000**	**5.9636**

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0796	1.8828	1.4205	2.3300e-003		0.0633	0.0633		0.0633	0.0633	0.0000	202.7829	202.7829	0.0407	0.0000	203.8003
Total	**0.0796**	**1.8828**	**1.4205**	**2.3300e-003**	**0.0000**	**0.0633**	**0.0633**	**0.0000**	**0.0633**	**0.0633**	**0.0000**	**202.7829**	**202.7829**	**0.0407**	**0.0000**	**203.8003**

3.3 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	0.0000	0.0000	0.0000	0.0000	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	3.2500e-003	2.4000e-003	0.0234	7.0000e-005	7.3100e-003	5.0000e-005	7.3600e-003	1.9400e-003	5.0000e-005	1.9900e-003	0.0000	5.9594	5.9594	1.7000e-004	0.0000	5.9636
Total	**3.2500e-003**	**2.4000e-003**	**0.0234**	**7.0000e-005**	**7.3100e-003**	**5.0000e-005**	**7.3600e-003**	**1.9400e-003**	**5.0000e-005**	**1.9900e-003**	**0.0000**	**5.9594**	**5.9594**	**1.7000e-004**	**0.0000**	**5.9636**

3.4 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	0.0256	0.2635	0.2397	3.8000e-004		0.0148	0.0148		0.0136	0.0136	0.0000	33.0271	33.0271	0.0107	0.0000	33.2941
Total	**0.0256**	**0.2635**	**0.2397**	**3.8000e-004**		**0.0148**	**0.0148**		**0.0136**	**0.0136**	**0.0000**	**33.0271**	**33.0271**	**0.0107**	**0.0000**	**33.2941**

3.4 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	6.4000e-004	0.0205	6.0300e-003	5.0000e-005	1.3100e-003	6.0000e-005	1.3800e-003	3.8000e-004	6.0000e-005	4.4000e-004	0.0000	4.9963	4.9963	3.5000e-004	0.0000	5.0051
Worker	1.7700e-003	1.3100e-003	0.0127	4.0000e-005	3.9800e-003	3.0000e-005	4.0000e-003	1.0600e-003	2.0000e-005	1.0800e-003	0.0000	3.2417	3.2417	9.0000e-005	0.0000	3.2439
Total	**2.4100e-003**	**0.0218**	**0.0188**	**9.0000e-005**	**5.2900e-003**	**9.0000e-005**	**5.3800e-003**	**1.4400e-003**	**8.0000e-005**	**1.5200e-003**	**0.0000**	**8.2380**	**8.2380**	**4.4000e-004**	**0.0000**	**8.2490**

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	0.0155	0.3532	0.2628	3.8000e-004		0.0127	0.0127		0.0127	0.0127	0.0000	33.0270	33.0270	0.0107	0.0000	33.2941
Total	**0.0155**	**0.3532**	**0.2628**	**3.8000e-004**		**0.0127**	**0.0127**		**0.0127**	**0.0127**	**0.0000**	**33.0270**	**33.0270**	**0.0107**	**0.0000**	**33.2941**

3.4 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	6.4000e-004	0.0205	6.0300e-003	5.0000e-005	1.3100e-003	6.0000e-005	1.3800e-003	3.8000e-004	6.0000e-005	4.4000e-004	0.0000	4.9963	4.9963	3.5000e-004	0.0000	5.0051
Worker	1.7700e-003	1.3100e-003	0.0127	4.0000e-005	3.9800e-003	3.0000e-005	4.0000e-003	1.0600e-003	2.0000e-005	1.0800e-003	0.0000	3.2417	3.2417	9.0000e-005	0.0000	3.2439
Total	**2.4100e-003**	**0.0218**	**0.0188**	**9.0000e-005**	**5.2900e-003**	**9.0000e-005**	**5.3800e-003**	**1.4400e-003**	**8.0000e-005**	**1.5200e-003**	**0.0000**	**8.2380**	**8.2380**	**4.4000e-004**	**0.0000**	**8.2490**

3.5 Paving - 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	0.0459	0.4085	0.3520	8.0000e-004		0.0198	0.0198		0.0183	0.0183	0.0000	68.7582	68.7582	0.0212	0.0000	69.2892
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0459**	**0.4085**	**0.3520**	**8.0000e-004**		**0.0198**	**0.0198**		**0.0183**	**0.0183**	**0.0000**	**68.7582**	**68.7582**	**0.0212**	**0.0000**	**69.2892**

3.5 Paving - 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	0.0000	0.0000	0.0000	0.0000	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	2.3500e-003	1.7400e-003	0.0170	5.0000e-005	5.3000e-003	4.0000e-005	5.3400e-003	1.4100e-003	3.0000e-005	1.4400e-003	0.0000	4.3222	4.3222	1.2000e-004	0.0000	4.3252
Total	**2.3500e-003**	**1.7400e-003**	**0.0170**	**5.0000e-005**	**5.3000e-003**	**4.0000e-005**	**5.3400e-003**	**1.4100e-003**	**3.0000e-005**	**1.4400e-003**	**0.0000**	**4.3222**	**4.3222**	**1.2000e-004**	**0.0000**	**4.3252**

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	0.0235	0.6079	0.4547	8.0000e-004		0.0177	0.0177		0.0177	0.0177	0.0000	68.7581	68.7581	0.0212	0.0000	69.2891
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0235**	**0.6079**	**0.4547**	**8.0000e-004**		**0.0177**	**0.0177**		**0.0177**	**0.0177**	**0.0000**	**68.7581**	**68.7581**	**0.0212**	**0.0000**	**69.2891**

3.5 Paving - 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	0.0000	0.0000	0.0000	0.0000	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	2.3500e-003	1.7400e-003	0.0170	5.0000e-005	5.3000e-003	4.0000e-005	5.3400e-003	1.4100e-003	3.0000e-005	1.4400e-003	0.0000	4.3222	4.3222	1.2000e-004	0.0000	4.3252
Total	**2.3500e-003**	**1.7400e-003**	**0.0170**	**5.0000e-005**	**5.3000e-003**	**4.0000e-005**	**5.3400e-003**	**1.4100e-003**	**3.0000e-005**	**1.4400e-003**	**0.0000**	**4.3222**	**4.3222**	**1.2000e-004**	**0.0000**	**4.3252**

3.6 Architectural Coating - 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					
Archit. Coating	0.4217					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.2200e-003	0.0504	0.0600	1.0000e-004		3.1100e-003	3.1100e-003		3.1100e-003	3.1100e-003	0.0000	8.4257	8.4257	5.8000e-004	0.0000	8.4402
Total	**0.4289**	**0.0504**	**0.0600**	**1.0000e-004**		**3.1100e-003**	**3.1100e-003**		**3.1100e-003**	**3.1100e-003**	**0.0000**	**8.4257**	**8.4257**	**5.8000e-004**	**0.0000**	**8.4402**

3.6 Architectural Coating - 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	0.0000	0.0000	0.0000	0.0000	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	3.5000e-004	2.6000e-004	2.5500e-003	1.0000e-005	8.0000e-004	1.0000e-005	8.0000e-004	2.1000e-004	0.0000	2.2000e-004	0.0000	0.6483	0.6483	2.0000e-005	0.0000	0.6488
Total	**3.5000e-004**	**2.6000e-004**	**2.5500e-003**	**1.0000e-005**	**8.0000e-004**	**1.0000e-005**	**8.0000e-004**	**2.1000e-004**	**0.0000**	**2.2000e-004**	**0.0000**	**0.6483**	**0.6483**	**2.0000e-005**	**0.0000**	**0.6488**

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	0.4217					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.7600e-003	0.0776	0.0605	1.0000e-004		3.1400e-003	3.1400e-003		3.1400e-003	3.1400e-003	0.0000	8.4257	8.4257	5.8000e-004	0.0000	8.4402
Total	**0.4255**	**0.0776**	**0.0605**	**1.0000e-004**		**3.1400e-003**	**3.1400e-003**		**3.1400e-003**	**3.1400e-003**	**0.0000**	**8.4257**	**8.4257**	**5.8000e-004**	**0.0000**	**8.4402**

3.6 Architectural Coating - 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	0.0000	0.0000	0.0000	0.0000	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	3.5000e-004	2.6000e-004	2.5500e-003	1.0000e-005	8.0000e-004	1.0000e-005	8.0000e-004	2.1000e-004	0.0000	2.2000e-004	0.0000	0.6483	0.6483	2.0000e-005	0.0000	0.6488
Total	**3.5000e-004**	**2.6000e-004**	**2.5500e-003**	**1.0000e-005**	**8.0000e-004**	**1.0000e-005**	**8.0000e-004**	**2.1000e-004**	**0.0000**	**2.2000e-004**	**0.0000**	**0.6483**	**0.6483**	**2.0000e-005**	**0.0000**	**0.6488**

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	3.5100e-003	0.0152	0.0438	1.4000e-004	0.0133	1.3000e-004	0.0134	3.5500e-003	1.2000e-004	3.6700e-003	0.0000	12.9591	12.9591	5.4000e-004	0.0000	12.9726
Unmitigated	3.5100e-003	0.0152	0.0438	1.4000e-004	0.0133	1.3000e-004	0.0134	3.5500e-003	1.2000e-004	3.6700e-003	0.0000	12.9591	12.9591	5.4000e-004	0.0000	12.9726

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	12.03	12.03	12.03	35,128	35,128
Total	12.03	12.03	12.03	35,128	35,128

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
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.578715	0.035276	0.195383	0.116292	0.021140	0.006161	0.017585	0.018715	0.001882	0.001409	0.004999	0.001105	0.001338

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	425.3262	425.3262	0.0176	3.6300e-003	426.8478
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	425.3262	425.3262	0.0176	3.6300e-003	426.8478
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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					
General Light Industry	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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					
General Light Industry	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	1.3349e+006	425.3262	0.0176	3.6300e-003	426.8478
Total		**425.3262**	**0.0176**	**3.6300e-003**	**426.8478**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	1.3349e+006	425.3262	0.0176	3.6300e-003	426.8478
Total		**425.3262**	**0.0176**	**3.6300e-003**	**426.8478**

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	0.1843	0.0000	9.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7000e-004	1.7000e-004	0.0000	0.0000	1.8000e-004
Unmitigated	0.1843	0.0000	9.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7000e-004	1.7000e-004	0.0000	0.0000	1.8000e-004

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	0.0422					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1421					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	9.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7000e-004	1.7000e-004	0.0000	0.0000	1.8000e-004
Total	**0.1843**	**0.0000**	**9.0000e-005**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**1.7000e-004**	**1.7000e-004**	**0.0000**	**0.0000**	**1.8000e-004**

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	0.0422					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1421					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	9.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7000e-004	1.7000e-004	0.0000	0.0000	1.8000e-004
Total	**0.1843**	**0.0000**	**9.0000e-005**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**1.7000e-004**	**1.7000e-004**	**0.0000**	**0.0000**	**1.8000e-004**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	2.9711	0.0709	1.6900e-003	5.2484
Unmitigated	2.9711	0.0709	1.6900e-003	5.2484

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	2.17375 / 0	2.9711	0.0709	1.6900e-003	5.2484
Total		**2.9711**	**0.0709**	**1.6900e-003**	**5.2484**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	2.17375 / 0	2.9711	0.0709	1.6900e-003	5.2484
Total		**2.9711**	**0.0709**	**1.6900e-003**	**5.2484**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	2.3669	0.1399	0.0000	5.8638
Unmitigated	2.3669	0.1399	0.0000	5.8638

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	11.66	2.3669	0.1399	0.0000	5.8638
Total		**2.3669**	**0.1399**	**0.0000**	**5.8638**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	11.66	2.3669	0.1399	0.0000	5.8638
Total		**2.3669**	**0.1399**	**0.0000**	**5.8638**

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

The maximum pounds per day in row 11 is summed over overlapping phases, but the maximum tons per phase in row 34 is not summed over overlapping phases.

Road Construction Emissions Model, Version 9.0.0

Daily Emission Estimates for -> LRGC WTP (pipelines)

Project Phases (Pounds)	ROG (lbs/day)	CO (lbs/day)	NOx (lbs/day)	Total PM10 (lbs/day)	Exhaust PM10 (lbs/day)	Fugitive Dust PM10 (lbs/day)	Total PM2.5 (lbs/day)	Exhaust PM2.5 (lbs/day)	Fugitive Dust PM2.5 (lbs/day)	SOx (lbs/day)	CO2 (lbs/day)	CH4 (lbs/day)	N2O (lbs/day)	CO2e (lbs/day)
Grubbing/Land Clearing	1.37	11.84	12.38	0.60	0.60	0.00	0.56	0.56	0.00	0.03	2,629.90	0.64	0.05	2,659.69
Grading/Excavation	3.47	31.79	31.96	1.54	1.54	0.00	1.46	1.46	0.00	0.07	6,875.99	1.40	0.13	6,949.02
Drainage/Utilities/Sub-Grade	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
Paving	1.27	10.34	11.84	0.59	0.59	0.00	0.54	0.54	0.00	0.02	2,233.85	0.72	0.02	2,257.92
Maximum (pounds/day)	3.47	31.79	31.96	1.54	1.54	0.00	1.46	1.46	0.00	0.07	6,875.99	1.40	0.13	6,949.02
Total (tons/construction project)	0.20	1.77	1.84	0.09	0.09	0.00	0.08	0.08	0.00	0.00	384.45	0.09	0.01	388.61

Notes:

Project Start Year ->	2021
Project Length (months) ->	9
Total Project Area (acres) ->	0
Maximum Area Disturbed/Day (acres) ->	0
Water Truck Used? ->	Yes

	Total Material Imported/Exported Volume (yd^3/day)		Daily VMT (miles/day)			
Phase	Soil	Asphalt	Soil Hauling	Asphalt Hauling	Worker Commute	Water Truck
Grubbing/Land Clearing	29	0	40	0	0	0
Grading/Excavation	118	0	120	0	0	0
Drainage/Utilities/Sub-Grade	0	0	0	0	0	0
Paving	0	0	0	0	0	0

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

Total Emission Estimates by Phase for -> LRGC WTP (pipelines)

Project Phases (Tons for all except CO2e. Metric tonnes for CO2e)	ROG (tons/phase)	CO (tons/phase)	NOx (tons/phase)	Total PM10 (tons/phase)	Exhaust PM10 (tons/phase)	Fugitive Dust PM10 (tons/phase)	Total PM2.5 (tons/phase)	Exhaust PM2.5 (tons/phase)	Fugitive Dust PM2.5 (tons/phase)	SOx (tons/phase)	CO2 (tons/phase)	CH4 (tons/phase)	N2O (tons/phase)	CO2e (MT/phase)
Grubbing/Land Clearing	0.04	0.38	0.40	0.02	0.02	0.00	0.02	0.02	0.00	0.00	85.34	0.02	0.00	78.30
Grading/Excavation	0.11	1.04	1.05	0.05	0.05	0.00	0.05	0.05	0.00	0.00	225.40	0.05	0.00	206.65
Drainage/Utilities/Sub-Grade	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
Paving	0.04	0.34	0.39	0.02	0.02	0.00	0.02	0.02	0.00	0.00	73.72	0.02	0.00	67.60
Maximum (tons/phase)	0.11	1.04	1.05	0.05	0.05	0.00	0.05	0.05	0.00	0.00	225.40	0.05	0.00	206.65
Total (tons/construction project)	0.20	1.77	1.84	0.09	0.09	0.00	0.08	0.08	0.00	0.00	384.45	0.09	0.01	352.54

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

The CO2e emissions are reported as metric tons per phase.

Appendix C: Biological Resources including the Oak and Landmark Tree Report

Appendix B – Documented Special-Status Resources within the Project Region

Table 1. Special-Status Plant Species Documented in the Project Region[1]

Scientific Name Common Name	Status[2]	Habitat Requirements	Habitat Suitability/ Observations in Survey Area	Potential to Occur in Project Site
Astragalus brauntonii Braunton's milk-vetch	FE, RPR 1B.1	Chaparral, coastal scrub, valley and foothill grassland. Recent burns or disturbed areas; usually on sandstone with carbonate layers. Requires shallow soils to defeat pocket gophers and open areas, preferably on hilltops, saddles or bowls between hills. 3-640 m. perennial herb. Blooms Jan-Aug	Documented within five miles from the project site (CDFW 2019a). USFWS designated critical habitat for species occurs approximately 2.8 miles to the north-northeast of the project site (USFWS 2019a). Required vegetation community not present. Preferred soils not present.	Not expected.
Atriplex coulteri Coulter's saltbush	RPR 1B.2	Coastal bluff scrub, coastal dunes, coastal scrub, valley and foothill grassland. Ocean bluffs, ridgetops, as well as alkaline low places. Alkaline or clay soils. 2-460 m. perennial herb. Blooms Mar-Oct	Documented greater than five miles from the project site (CDFW 2019a). Suitable coastal habitat does not occur within the survey area.	Not expected.
Atriplex serenana var. davidsonii Davidson's saltscale	RPR 1B.2	Coastal bluff scrub, coastal scrub. Alkaline soil. 0-460 m. annual herb. Blooms Apr-Oct	Documented greater than five miles from the project site (CDFW 2019a). Suitable coastal habitat does not occur within the project site. Preferred soils not present.	Not expected.
Baccharis malibuensis Malibu baccharis	RPR 1B.1	Coastal scrub, chaparral, cismontane woodland, riparian woodland. In Conejo volcanic substrates, often on exposed roadcuts. Sometimes occupies oak woodland habitat. 150-320 m. perennial deciduous shrub. Blooms Aug	Documented within five miles from the project site (CDFW 2019a). Elements of riparian woodland present, but habitat is significantly disturbed and preferred volcanic soils are not present.	Not expected.
Calochortus clavatus var. *gracilis* slender mariposa-lily	RPR 1B.2	Chaparral, coastal scrub, valley and foothill grassland. Shaded foothill canyons; often on grassy slopes within other habitat. 210-1815 m. perennial bulbiferous herb. Blooms Mar-Jun(Nov)	Documented within five miles from the project site (CDFW 2019a). Required vegetation community not present. Site at lower extreme of elevation range.	Not expected.
Calochortus fimbriatus late-flowered mariposa-lily	RPR 1B.3	Chaparral, cismontane woodland, riparian woodland. Dry, open coastal woodland, chaparral; on serpentine. 270-1435 m. perennial bulbiferous herb. Blooms Jun-Aug	Documented greater than five miles from the project site (CDFW 2019a). Serpentine soils are not present, and site is not within elevation range.	Not expected.
Calochortus plummerae Plummer's mariposa-lily	RPR 4.2	Coastal scrub, chaparral, valley and foothill grassland, cismontane woodland, lower montane coniferous forest. Occurs on rocky and sandy sites, usually of granitic or alluvial material. Can be very common after fire. 60-2500 m. perennial bulbiferous herb. Blooms May-Jul	Documented less than two miles west of the project site and presumed extant (CDFW 2019a). Elements of habitat requirements for species is not present within the project site.	Not expected.

Scientific Name Common Name	Status[2]	Habitat Requirements	Habitat Suitability/ Observations in Survey Area	Potential to Occur in Project Site
Centromadia parryi ssp. *australis* southern tarplant	RPR 1B.1	Marshes and swamps (margins), valley and foothill grassland, vernal pools. Often in disturbed sites near the coast at marsh edges; also in alkaline soils sometimes with saltgrass. Sometimes on vernal pool margins. 0-975 m. annual herb. Blooms May-Nov	Documented approximately two miles west of the project site (CDFW 2019a). This is a vernal pool species and elements of vernal pools were not observed within the survey area.	Not expected.
Chaenactis glabriuscula var. *orcuttiana* Orcutt's pincushion	RPR 1B.1	Coastal bluff scrub, coastal dunes. Sandy sites. 3-80 m. annual herb. Blooms Jan-Aug	Documented greater than five miles from the project site (CDFW 2019a). Suitable coastal habitat does not occur within the survey area. Survey area is outside the elevation range of the species.	Not expected.
Chorizanthe parryi var. fernandina San Fernando Valley spineflower	Proposed FT, SE, RPR 1B.1	Coastal scrub, valley and foothill grassland. Sandy soils. 15-1015 m. annual herb. Blooms Apr-Jul	Documented greater than five miles from the project site (CDFW 2019a). Suitable coastal scrub and grassland habitat does not occur within the survey area.	Not expected.
Chorizanthe parryi var. *parryi* Parry's spineflower	RPR 1B.1	Coastal scrub, chaparral, cismontane woodland, valley and foothill grassland. Dry slopes and flats; sometimes at interface of 2 vegetation types, such as chaparral and oak woodland. Dry, sandy soils. 90-1220 m. annual herb. Blooms Apr-Jun	Documented greater than five miles from the project site (CDFW 2019a). Preferred vegetation community interface and preferred soils are not present.	Not expected.
Deinandra minthornii Santa Susana tarplant	RPR 1B.2	Chaparral, coastal scrub. On sandstone outcrops and crevices, in shrubland. 280-705 m. perennial deciduous shrub. Blooms Jul-Nov	Documented within five miles from the project site (CDFW 2019a). Required vegetation community not present. Site outside of elevation range.	Not expected.
Delphinium parryi ssp. blochmaniae dune larkspur	RPR 1B.2	Chaparral, coastal dunes (maritime). On rocky areas and dunes. 18-305 m. perennial herb. Blooms Apr-Jun	Documented within five miles from the project site (CDFW 2019a). Suitable coastal habitat does not occur within the survey area. Preferred soils are not present.	Not expected.
Dudleya blochmaniae ssp. blochmaniae Blochman's dudleya	RPR 1B.1	Coastal scrub, coastal bluff scrub, chaparral, valley and foothill grassland. Open, rocky slopes; often in shallow clays over serpentine or in rocky areas with little soil. 5-450 m. perennial herb. Blooms Apr-Jun	Documented greater than five miles from the project site (CDFW 2019a). Preferred vegetation community and preferred soils are not present.	Not expected.
Dudleya cymosa ssp. agourensis Agoura Hills dudleya	FT, RPR 1B.2	Chaparral, cismontane woodland. Rocky, volcanic breccia. 260-460 m. perennial herb. Blooms May-Jun	Documented approximately 1.5 miles from the project site (CDFW 2019a); however, suitable volcanic, rocky habitat does not occur within the project site and the species was not observed during field surveys. Survey area is outside the elevation range of species.	Not expected.

Scientific Name Common Name	Status[2]	Habitat Requirements	Habitat Suitability/ Observations in Survey Area	Potential to Occur in Project Site
Dudleya cymosa ssp. marcescens marcescent dudleya	FT, SR, RPR 1B.2	Chaparral. On sheer rock surfaces and rocky volcanic cliffs. 145-670 m. perennial herb. Blooms Apr-Jul	Documented within five miles from the project site (CDFW 2019a). Suitable chaparral habitat does not occur within the survey area. Preferred soils are not present.	Not expected.
Dudleya cymosa ssp. ovatifolia Santa Monica dudleya	FT, RPR 1B.1	Chaparral, coastal scrub. In canyons on volcanic or sedimentary substrates; primarily on north-facing slopes. 150-335 m. perennial herb. Blooms Mar-Jun	Documented greater than five miles from the project site (CDFW 2019a). Suitable chaparral and coastal scrub habitat does not occur within the survey area. Preferred soils are not present.	Not expected.
Dudleya multicaulis many-stemmed dudleya	RPR 1B.2	Chaparral, coastal scrub, valley and foothill grassland. In heavy, often clayey soils or grassy slopes. 15-790 m. perennial herb. Blooms Apr-Jul	Documented greater than five miles from the project site (CDFW 2019a). Suitable chaparral, coastal scrub, and grassland habitat does not occur within the survey area.	Not expected.
Dudleya parva Conejo dudleya	FT, RPR 1B.2	Coastal scrub, valley and foothill grassland. In clay or volcanic soils on rocky slopes and grassy hillsides. 90-380 m. perennial herb. Blooms May-Jun	Documented greater than five miles from the project site (CDFW 2019a). Suitable coastal scrub and grassland habitat does not occur within the survey area.	Not expected.
Dudleya verityi Verity's dudleya	FT, RPR 1B.1	Chaparral, cismontane woodland, coastal scrub. On volcanic rock outcrops in the Santa Monica Mountains. 60-335 m. perennial herb. Blooms May-Jun	Documented greater than five miles from the project site (CDFW 2019a). Suitable volcanic rock outcrops are not present within the survey area.	Not expected.
Eriogonum crocatum Conejo buckwheat	RPR 1B.2	Chaparral, coastal scrub, valley and foothill grassland. Conejo volcanic outcrops; rocky sites. 90-580 m. perennial herb. Blooms Apr-Jul	Documented within five miles from the project site (CDFW 2019a). Suitable chaparral and coastal habitat does not occur within the survey area. Preferred soils are not present.	Not expected.
Harpagonella palmeri Palmer's grapplinghook	RPR 4.2	Chaparral, coastal scrub, valley and foothill grassland. Clay soils; open grassy areas within shrubland. 20-955 m. annual herb. Blooms Mar-May	Documented within five miles from the project site (CDFW 2019a). Suitable chaparral and coastal habitat does not occur within the survey area. Preferred soils are not present.	Not expected.
Horkelia cuneata var. *puberula* mesa horkelia	RPR 1B.1	Chaparral, cismontane woodland, coastal scrub. Sandy or gravelly sites. 15-1645 m. perennial herb. Blooms Feb-Jul(Sep)	Documented greater than five miles from the project site (CDFW 2019a). Suitable chaparral and coastal scrub habitat does not occur within the survey area.	Not expected.
Isocoma menziesii var. *decumbens* decumbent goldenbush	RPR 1B.2	Coastal scrub, chaparral. Sandy soils; often in disturbed sites. 1-915 m. perennial shrub. Blooms Apr-Nov	Documented greater than five miles from the project site (CDFW 2019a). Suitable chaparral and coastal scrub habitat does not occur within the survey area.	Not expected.

Scientific Name Common Name	Status[2]	Habitat Requirements	Habitat Suitability/ Observations in Survey Area	Potential to Occur in Project Site
Lasthenia glabrata ssp. *coulteri* Coulter's goldfields	RPR 1B.1	Coastal salt marshes, playas, vernal pools. Usually found on alkaline soils in playas, sinks, and grasslands. 1-1375 m. annual herb. Blooms Feb-Jun	Documented greater than five miles from the project site (CDFW 2019a). Suitable coastal and vernal habitat does not occur within the survey area.	Not expected.
Lupinus paynei Payne's bush lupine	RPR 1B.1	Coastal scrub, riparian scrub, valley and foothill grassland. Sandy. 220-420 m. perennial shrub. Blooms Mar-Apr (May-Jul)	Documented greater than five miles from the project site (CDFW 2019a). Suitable coastal scrub, riparian scrub, and grassland habitat does not occur within the survey area. Site outside the elevation range of the species.	Not expected.
Monardella hypoleuca ssp. *hypoleuca* white-veined monardella	RPR 1B.3	Chaparral, cismontane woodland. Dry slopes. 50-1280 m. perennial herb. Blooms (Apr) May-Aug (Sep-Dec)	Documented greater than five miles from the project site (CDFW 2019a). Suitable chaparral habitat does not occur within the survey area. Dry slopes are not present.	Not expected.
Monardella sinuata ssp. *gerryi* Gerry's curly-leaved monardella	RPR 1B.1	Coastal scrub. Sandy openings. 150-245 m. annual herb. Blooms Apr-Jun	Documented greater than five miles from the project site (CDFW 2019a). Suitable coastal scrub habitat does not occur within the survey area.	Not expected.
Navarretia ojaiensis Ojai navarretia	RPR 1B.1	Chaparral, coastal scrub, valley and foothill grassland. Openings in shrublands or grasslands. 275-620 m. annual herb. Blooms May-Jul	Documented within five miles from the project site (CDFW 2019a). Suitable chaparral, coastal scrub, and grassland habitat does not occur within the survey area. Survey area is outside the elevation range of the species.	Not expected.
Nolina cismontana chaparral nolina	RPR 1B.2	Chaparral, coastal scrub. Primarily on sandstone and shale substrates; also known from gabbro. 140-1275 m. perennial evergreen shrub. Blooms (Mar)May-Jul	Documented within five miles from the project site (CDFW 2019a). Suitable chaparral and coastal habitat does not occur within the survey area. Preferred soils are not present.	Not expected.
Orcuttia californica California Orcutt grass	FE, SE, RPR 1B.1	Vernal pools. 10-660 m. annual herb. Blooms Apr-Aug	Documented within one mile from the project site (CDFW 2019a); however, suitable vernal pool habitat does not occur within the project site and the species was not observed during field surveys.	Not expected.
Pentachaeta lyonii Lyon's pentachaeta	FE, SE, RPR 1B.1	Chaparral, valley and foothill grassland, coastal scrub. Edges of clearings in chaparral, usually at the ecotone between grassland and chaparral or edges of firebreaks. 30-630 m. annual herb. Blooms (Feb)Mar-Aug	Documented within five miles from the project site (CDFW 2019a). USFWS designated critical habitat occurs approximately 1.3 miles south and south and west of the project site (USFWS 2019a). Suitable chaparral, coastal scrub, and grassland habitat does not occur within the survey area.	Not expected.

Scientific Name Common Name	Status[2]	Habitat Requirements	Habitat Suitability/ Observations in Survey Area	Potential to Occur in Project Site
Quercus dumosa Nuttall's scrub oak	RPR 1B.1	Closed-cone coniferous forest, chaparral, coastal scrub. Generally occurs on sandy soils near the coast; sometimes on clay loam. 15-640 m. perennial evergreen shrub. Blooms Feb-Apr (May-Aug)	Documented greater than five miles from the project site (CDFW 2019a). Suitable coniferous forest, chaparral, and coastal scrub habitat is not present within the survey area.	Not expected.
Senecio aphanactis chaparral ragwort	RPR 2B.2	Chaparral, cismontane woodland, coastal scrub. Drying alkaline flats. 20-855 m. annual herb. Blooms Jan-Apr (May)	Documented greater than five miles from the project site (CDFW 2019a). Suitable chaparral and coastal scrub habitat does not occur within the survey area. Alkaline flats are not present.	Not expected.
Tortula californica California screw moss	RPR 1B.2	Chenopod scrub, valley and foothill grassland. Moss growing on sandy soil. 10-1460 m. moss.	Documented within five miles from the project site (CDFW 2019a). Suitable chenopod scrub and grassland habitat is not present within the survey area.	Not expected.
Thelypteris puberula var. *sonorensis* Sonoran maiden fern	RPR 2B.2	Meadows and seeps. Along streams, seepage areas. 60-930 m. perennial rhizomatous herb. Blooms Jan-Sep	Documented greater than five miles from the project site (CDFW 2019a). Suitable meadow and seep habitat is not present within the survey area.	Not expected.

Notes:

1 - Regional Region refers to within a 9-quad search radius of site.

2 – Status:

FE = Federally Endangered FT = Federally Threatened FC = Federal Candidate Species FPT = Federal Proposed Threatened

SE = State Endangered ST = State Threatened SC = State Candidate SR = State Rare

CRPR (CNPS California Rare Plant Rank):

1A=Presumed Extinct in California

1B=Rare, Threatened, or Endangered in California and elsewhere

2A=Plants presumed extirpated in California, but more common elsewhere

2B=Plants Rare, Threatened, or Endangered in California, but more common elsewhere

CRPR Threat Code Extension:

.1=Seriously endangered in California (over 80% of occurrences threatened / high degree and immediacy of threat)

.2=Fairly endangered in California (20-80% occurrences threatened)

.3=Not very endangered in California (<20% of occurrences threatened)

Table 2. Special-Status Animal Species Documented in the Project Region[1]

Scientific Name Common Name	Status[2]	Habitat Requirements	Habitat Suitability/ Observations in Survey Area	Potential to Occur in Project Site
Invertebrates				
Danaus plexippus pop. 1 monarch - California overwintering population	–	Winter roost sites extend along the coast from northern Mendocino to Baja California, Mexico. Roosts located in wind-protected tree groves (eucalyptus, Monterey pine, cypress), with nectar and water sources nearby.	Documented greater than five miles from the project site (CDFW 2019a). Narrow strip of trees along US 101 unlikely to provide sufficient shelter from wind and species does not overwinter this far inland due to low temperatures.	Not expected.
Euphydryas editha quino quino checkerspot butterfly	FE	Sunny openings within chaparral & coastal sage shrublands in parts of Riverside & San Diego counties. Hills and mesas near the coast. Need high densities of food plants *Plantago erecta*, *P. insularis*, and *Castilleja exserta*	Documented greater than five miles from the project site (CDFW 2019a). Suitable chaparral and coastal sage shrubland habitat does not occur within the survey area.	Not expected.
Streptocephalus woottoni Riverside fairy shrimp	FE	Endemic to Western Riverside, Orange, and San Diego counties in areas of tectonic swales/earth slump basins in grassland and coastal sage scrub. Inhabit seasonally astatic pools filled by winter/spring rains. Hatch in warm water later in the season.	Documented greater than five miles from the project site (CDFW 2019a). Suitable vernal pool habitat does not occur within the survey area.	Not expected.
Fish				
Catostomus santaanae Santa Ana sucker	FT	Endemic to Los Angeles Basin south coastal streams. Habitat generalists, but prefer sand-rubble-boulder bottoms, cool, clear water, and algae.	Documented greater than five miles from the project site (CDFW 2019a). Suitable stream habitat does not occur within the project site.	Not expected.
Eucyclogobius newberryi tidewater goby	FE, SSC	Brackish water habitats along the California coast from Agua Hedionda Lagoon, San Diego County to the mouth of the Smith River. Found in shallow lagoons and lower stream reaches, they need fairly still but not stagnant water and high oxygen levels.	Documented greater than five miles from the project site (CDFW 2019a). Suitable stream habitat does not occur within the survey area.	Not expected.
Gasterosteus aculeatus williamsoni unarmored threespine stickleback	FE, SE, FP	Weedy pools, backwaters, and among emergent vegetation at the stream edge in small Southern California streams. Cool (<24 C), clear water with abundant vegetation.	Documented greater than five miles from the project site (CDFW 2019a). Suitable stream habitat does not occur within the survey area.	Not expected.

Scientific Name Common Name	Status[2]	Habitat Requirements	Habitat Suitability/ Observations in Survey Area	Potential to Occur in Project Site
Gila orcuttii arroyo chub	SSC	Native to streams from Malibu Creek to San Luis Rey River basin. Introduced into streams in Santa Clara, Ventura, Santa Ynez, Mojave & San Diego river basins. Slow water stream sections with mud or sand bottoms. Feeds heavily on aquatic vegetation and associated invertebrates.	Documented greater than five miles from the project site (CDFW 2019a). Suitable stream habitat does not occur within the survey area.	Not expected.
Oncorhynchus mykiss irideus pop. 10 steelhead - southern California DPS	FE	Federal listing refers to populations from Santa Maria River south to southern extent of range (San Mateo Creek in San Diego County). Southern steelhead likely have greater physiological tolerances to warmer water and more variable conditions.	Documented greater than five miles from the project site (CDFW 2019a). Suitable stream habitat does not occur within the survey area.	Not expected.
Amphibians				
Anaxyrus californicus arroyo toad	FE, SSC	Semi-arid regions near washes or intermittent streams, including valley-foothill and desert riparian, desert wash, etc. Rivers with sandy banks, willows, cottonwoods, and sycamores; loose, gravelly areas of streams in drier parts of range.	Documented greater than five miles from the project site (CDFW 2019a). Suitable stream habitat does not occur within the survey area.	Not expected.
Rana draytonii California red-legged frog	FT, SSC	Lowlands and foothills in or near permanent sources of deep water with dense, shrubby or emergent riparian vegetation. Requires 11-20 weeks of permanent water for larval development. Must have access to estivation habitat.	Documented greater than five miles from the project site (CDFW 2019a). Suitable permanent stream habitat absent in survey area.	Not expected.
Spea hammondii western spadefoot	SSC	Occurs primarily in grassland habitats, but can be found in valley-foothill hardwood woodlands. Vernal pools are essential for breeding and egg-laying.	Documented greater than five miles from the project site (CDFW 2019a). Suitable vernal pool habitat absent in survey area.	Not expected.
Reptiles				
Anniella sp. California legless lizard	SSC	Occurs in sandy or loose loamy soils under sparse vegetation. Variety of habitats; generally in moist, loose soil. They prefer soils with high moisture content.	Documented within one mile north of the project site (CDFW 2019a). Marginal habitat with some areas of loose soils is present in the understory of the riparian habitat to the north of the project site.	**Low potential.**

Scientific Name Common Name	Status[2]	Habitat Requirements	Habitat Suitability/ Observations in Survey Area	Potential to Occur in Project Site
Arizona elegans occidentalis California glossy snake	SSC	Patchily distributed from the eastern portion of San Francisco Bay, southern San Joaquin Valley, and the Coast, Transverse, and Peninsular ranges, south to Baja California. Generalist reported from a range of scrub and grassland habitats, often with loose or sandy soils.	Documented greater than five miles from the project site (CDFW 2019a). Suitable scrub and grassland habitat absent from project site.	Not expected.
Aspidoscelis tigris stejnegeri coastal whiptail	SSC	Found in deserts and semi-arid areas with sparse vegetation and open areas. Also found in woodland & riparian areas. Ground may be firm soil, sandy, or rocky.	Documented within five miles from the project site (CDFW 2019a). Marginal suitable habitat present in the understory of the mixed woodland to the north of the project site.	**Low potential.**
Emys marmorata western pond turtle	SSC	A thoroughly aquatic turtle of ponds, marshes, rivers, streams and irrigation ditches, usually with aquatic vegetation, below 6000 ft elevation. Needs basking sites and suitable (sandy banks or grassy open fields) upland habitat up to 0.5 km from water for egg-laying.	Documented within five miles from the project site (CDFW 2019a). No permanent fresh water habitat within survey area. Some of the artificial ponds within the golf course to the south may provide suitable aquatic habitat for the species.	**Low Potential.**
Lampropeltis zonata (pulchra) California mountain kingsnake (San Diego population)	WL	Restricted to the San Gabriel and San Jacinto mountains of Southern California. Inhabits a variety of habitats, including valley-foothill hardwood, coniferous, chaparral, riparian, and wet meadows.	Documented greater than five miles from the project site (CDFW 2019a). project outside species range.	Not expected.
Phrynosoma blainvillii coast horned lizard	SSC	Frequents a wide variety of habitats, most common in lowlands along sandy washes with scattered low bushes. Open areas for sunning, bushes for cover, patches of loose soil for burial, and abundant supply of ants and other insects.	Documented within five miles from the project site (CDFW 2019a). Suitable sandy wash habitat absent from survey area.	Not expected.
Thamnophis hammondii two-striped gartersnake	SSC	Coastal California from vicinity of Salinas to northwest Baja California. From sea to about 7,000 ft elevation. Highly aquatic, found in or near permanent fresh water. Often along streams with rocky beds and riparian growth.	Documented within five miles from the project site (CDFW 2019a). Marginal habitat within mixed woodland, although lack of permanent fresh water habitat within survey area limits potential.	**Low potential.**

Scientific Name Common Name	Status[2]	Habitat Requirements	Habitat Suitability/ Observations in Survey Area	Potential to Occur in Project Site
Birds				
Accipiter cooperii Cooper's hawk	WL	Woodland, chiefly of open, interrupted or marginal type. Nest sites mainly in riparian growths of deciduous trees, as in canyon bottoms on river flood-plains; also, live oaks.	Documented within five miles from the project site (CDFW 2019a). Suitable woodland habitat is present along the drainage to the north of the project site.	**Low Potential.**
Agelaius tricolor tricolored blackbird	ST	Highly colonial species, most numerous in Central Valley & vicinity. Largely endemic to California. Requires open water, protected nesting substrate, and foraging area with insect prey within a few km of the colony.	Documented within five miles from the project site (CDFW 2019a). Marginal open water habitat and foraging habitat is present within the golf course, however no suitable nesting substrate is present within the survey area.	Not expected.
Aimophila ruficeps canescens southern California rufous-crowned sparrow	WL	Resident in Southern California coastal sage scrub and sparse mixed chaparral. Frequents relatively steep, often rocky hillsides with grass and forb patches.	Documented within five miles from the project site (CDFW 2019a). Suitable scrub and chaparral habitat absent in the survey area.	Not expected.
Aquila chrysaetos golden eagle	FP, WL	Rolling foothills, mountain areas, sage-juniper flats, and desert. Cliff-walled canyons provide nesting habitat in most parts of range; also, large trees in open areas.	Documented within five miles from the project site (CDFW 2019a). Suitable nesting habitat absent in the project site, where high human activity and disturbance is occurring.	Not expected.
Artemisiospiza belli belli Bell's sage sparrow	WL	Nests in chaparral dominated by fairly dense stands of chamise. Found in coastal sage scrub in south of range. Nest located on the ground beneath a shrub or in a shrub 6-18 inches above ground. Territories about 50 yds apart.	Documented greater than five miles from the project site (CDFW 2019a). Suitable scrub and chaparral habitat absent in the survey area.	Not expected.
Athene cunicularia burrowing owl	SSC	Open, dry annual or perennial grasslands, deserts, and scrublands characterized by low-growing vegetation. Subterranean nester, dependent upon burrowing mammals, most notably, the California ground squirrel.	Documented greater than five miles from the project site (CDFW 2019a). Suitable open dry annual grassland habitat absent from survey area. No mammal burrows observed suitable for the species.	Not expected.
Coccyzus americanus occidentalis western yellow-billed cuckoo	FT, SE	Riparian forest nester, along the broad, lower flood-bottoms of larger river systems. Nests in riparian jungles of willow, often mixed with cottonwoods, with lower story of blackberry, nettles, or wild grape.	Documented greater than five miles from the project site (CDFW 2019a). Suitable dense riparian habitat does not occur within the survey area.	Not expected.

Scientific Name Common Name	Status[2]	Habitat Requirements	Habitat Suitability/ Observations in Survey Area	Potential to Occur in Project Site
Elanus leucurus white-tailed kite	FP	Rolling foothills and valley margins with scattered oaks & river bottomlands or marshes next to deciduous woodland. Open grasslands, meadows, or marshes for foraging close to isolated, dense-topped trees for nesting and perching.	Documented greater than five miles from the project site (CDFW 2019a). Suitable foraging habitat is not present within the project site.	Not expected.
Empidonax traillii extimus southwestern willow flycatcher	Endangered/ Endangered	Riparian woodlands in Southern California.	Documented greater than five miles from the project site (CDFW 2019a). Suitable riparian habitat does not occur within the survey area.	Not expected
Falco peregrinus anatum American peregrine falcon	FD, SD, FP	Near wetlands, lakes, rivers, or other water; on cliffs, banks, dunes, mounds; also, human-made structures. Nest consists of a scrape or a depression or ledge in an open site.	Documented within five miles from the project site (CDFW 2019a). Suitable nesting habitat absent from the project site.	Not expected
Polioptila californica californica coastal California gnatcatcher	FT, SSC	Obligate, permanent resident of coastal sage scrub below 2500 ft in Southern California. Low, coastal sage scrub in arid washes, on mesas and slopes. Not all areas classified as coastal sage scrub are occupied.	Documented greater than five miles from the project site (CDFW 2019a). Suitable coastal sage scrub absent from survey area.	Not expected
Riparia riparia bank swallow	ST	Colonial nester; nests primarily in riparian and other lowland habitats west of the desert. Requires vertical banks/cliffs with fine-textured/sandy soils near streams, rivers, lakes, ocean to dig nesting hole.	Documented within five miles from the project site (CDFW 2019a). Suitable stream/bank habitat does not occur within the survey area.	Not expected
Vireo bellii pusillus least Bell's vireo	FE, SE	Summer resident of Southern California in low riparian in vicinity of water or in dry river bottoms; below 2000 ft. Nests placed along margins of bushes or on twigs projecting into pathways, usually willow, Baccharis, mesquite.	Documented greater than five miles from the project site (CDFW 2019a). Suitable riparian habitat (sufficiently sized willow thickets) does not occur within the project site.	Not expected

Scientific Name Common Name	Status[2]	Habitat Requirements	Habitat Suitability/ Observations in Survey Area	Potential to Occur in Project Site
Mammals				
Antrozous pallidus pallid bat	SSC	Deserts, grasslands, shrublands, woodlands and forests. Most common in open, dry habitats with rocky areas for roosting. Roosts must protect bats from high temperatures. Very sensitive to disturbance of roosting sites.	Documented within five miles from the project site (CDFW 2019a). Suitable open, dry, rocky habitat absent in survey area. Significant human activity and disturbance in the area.	Not expected
Euderma maculatum spotted bat	SSC	Occupies a wide variety of habitats from arid deserts and grasslands through mixed conifer forests. Feeds over water and along washes. Feeds almost entirely on moths. Needs rock crevices in cliffs or caves for roosting.	Documented greater than five miles from the project site (CDFW 2019a). No cliff/cave habitat in survey area for roosting.	Not expected
Eumops perotis californicus western mastiff bat	SSC	Many open, semi-arid to arid habitats, including conifer & deciduous woodlands, coastal scrub, grasslands, chaparral, etc. Roosts in crevices in cliff faces, high buildings, trees and tunnels.	Documented within five miles from the project site (CDFW 2019a). Mixed woodland along drainage provides potential roosting habitat.	**Low Potential**
Lasiurus blossevillii western red bat	SSC	Roosts primarily in trees, 2-40 ft above ground, from sea level up through mixed conifer forests. Prefers habitat edges and mosaics with trees that are protected from above and open below with open areas for foraging.	Documented within five miles from the project site (CDFW 2019a). Mixed woodland along drainage provides potential roosting habitat.	**Low Potential**
Macrotus californicus California leaf-nosed bat	SSC	Desert riparian, desert wash, desert scrub, desert succulent scrub, alkali scrub and palm oasis habitats. Needs rocky, rugged terrain with mines or caves for roosting.	Documented greater than five miles from the project site (CDFW 2019a). No cliff/cave habitat in survey area for roosting.	Not expected
Neotoma lepida intermedia San Diego desert woodrat	SSC	Coastal scrub of Southern California from San Diego County to San Luis Obispo County. Moderate to dense canopies preferred. They are particularly abundant in rock outcrops, rocky cliffs, and slopes.	Documented greater than five miles from the project site (CDFW 2019a). Coastal scrub habitat absent from the survey area.	Not expected

Scientific Name Common Name	Status[2]	Habitat Requirements	Habitat Suitability/ Observations in Survey Area	Potential to Occur in Project Site
Taxidea taxus American badger	SSC	Most abundant in drier open stages of most shrub, forest, and herbaceous habitats, with friable soils. Needs sufficient food, friable soils and open, uncultivated ground. Preys on burrowing rodents. Digs burrows.	Documented greater than five miles from the project site (CDFW 2019a). No potential dens detected in the survey area. Suitable habitat and prey base absent form the survey area.	Not expected

Notes:

1 - Regional Region refers to within a 9-quad search radius of site.

2 – Status:

FE = Federally Endangered FT = Federally Threatened FC = Federal Candidate Species
FPT = Federal Proposed Threatened

SE = State Endangered ST = State Threatened SC = State Candidate SR = State Rare

Table 3. Sensitive Communities Documented in the Project Region[1]

Common Name	Nearest Documented Occurrence
California Walnut Woodland	Documented greater than five miles from the project site (CDFW 2019a).
California Sycamore Woodland	Documented greater than five miles from the project site (CDFW 2019a).
Cismontane Alkali Marsh	Documented greater than five miles from the project site (CDFW 2019a).
Southern California Coastal Lagoon	Documented greater than five miles from the project site (CDFW 2019a).
Southern California Steelhead Stream	Documented greater than five miles from the project site (CDFW 2019a).
Southern Coast Live Oak Riparian Forest	Documented within five miles from the project site (CDFW 2019a).
Southern Coastal Salt Marsh	Documented greater than five miles from the project site (CDFW 2019a).
Southern Mixed Riparian Forest	Documented greater than five miles from the project site (CDFW 2019a).
Southern Riparian Forest	Documented greater than five miles from the project site (CDFW 2019a).
Southern Riparian Scrub	Documented greater than five miles from the project site (CDFW 2019a).
Southern Sycamore Alder Riparian Woodland	Documented within five miles from the project site (CDFW 2019a).
Southern Willow Scrub	Documented greater than five miles from the project site (CDFW 2019a).
Valley Needlegrass Grassland	Documented greater than five miles from the project site (CDFW 2019a).
Valley Oak Woodland	Documented within five miles from the project site (CDFW 2019a).

Notes:

1 - Regional Region refers to within a 9-quad search radius of site.



Los Robles Golf Course Groundwater Utilization Project

Oak and Landmark Tree Report

prepared for

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November 2019

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1 Introduction

Rincon Consultants, Inc. (Rincon) prepared this Oak and Landmark Tree Report for Kennedy/Jenks Consultants, Inc. (Applicant) as a component of an oak/landmark tree permit application package for the Los Robles Golf Course Groundwater Utilization Project (project) in Thousand Oaks, California.

1.1 Regulatory Context

This report has been prepared in accordance with the Draft Initial Study—Mitigated Negative Declaration (IS-MND) for the project. The IS-MND states that the project will comply with the regulations contained in the City of Thousand Oaks (City) Oak Tree Preservation and Protection Guidelines (Guidelines) (Thousand Oaks Resolution No. 2010-14) to have less than significant impacts to scenic resources and to not conflict with local policies or ordinances.

The report is also required pursuant to the City's Oak Tree Ordinance (Thousand Oaks Municipal Code Title 9, Chapter 4, Article 42) and Landmark Tree Ordinance (Thousand Oaks Municipal Code Title 9, Chapter 4, Article 43), herein referred to as the Ordinances. Pursuant to the Ordinances and Guidelines, an Oak/Landmark Tree Permit is required for removal, relocation, or encroachment into the protected zone of an oak tree or landmark tree. Protected oaks and landmark tree removals are to be mitigated at the discretion of the City as per the Ordinances. Protected oak and landmark trees are defined as follows:

- A protected oak tree is any oak tree of the genus *Quercus* including, but not limited to, valley oak (*Quercus lobata*), coast live oak (*Quercus agrifolia*), and scrub oak (*Quercus berberidifolia*), which exceeds two inches in diameter when measured at a point four and one-half feet above the natural grade at the base of the tree. For multiple trunk trees, the aggregate total diameter of all trunks shall exceed two inches in diameter.
- A landmark tree is any tree that is a California sycamore (*Platanus racemosa*) which exceeds twelve inches in diameter for a single trunk, a California bay laurel (*Umbellularia californica*) which exceeds eight inches in diameter, a California black walnut (*Juglans californica*) which exceeds eight inches in diameter, or a toyon (*Heteromeles arbutifolia*) which exceeds eight inches in diameter. For multiple trunk trees, the sum of the diameters of all trunks must exceed the required diameters listed above plus two inches. Landmark trees shall also include all City designated historic trees.

The City defines the tree protection zone (TPZ) of protected trees as the dripline plus five feet, or 15 feet from the trunk, whichever is greater.

1.2 Project Location and Description

The project is located directly south of U.S. Route 101 and west of South Moorpark Road in Thousand Oaks, as shown in Figure 1. Specifically, the project occurs within the Los Robles Golf

Course (LRGC) in a developed area, on the property identified as Assessor's Parcel Numbers (APNs) 681-001-2185, 681-005-0055, 664-001-0525, and 681-001-2045, at 299 South Moorpark Road.

The vegetation within the project area is composed primarily of mature oak (*Quercus sp.*), pepper (*Schinus sp.*), cottonwood (*Populus sp.*), and eucalyptus (*Eucalyptus sp.*) trees; ornamental shrubs; and manicured grass. The terrain consists of small slopes associated with the golf course. A paved golf cart path runs east to west along the north side of LRGC and is surrounded by flat terrain. An unnamed stormwater drainage and associated riparian vegetation are located north of the golf cart path on the northern edge of the property between LRGC and the U.S. Route 101, as shown in Figure 2. The jurisdictional boundary was determined as the edge of riparian vegetation by Rincon, per the Jurisdictional Boundary Memorandum dated October 25, 2019.

The project entails construction of a new groundwater treatment facility and the LRGC Water Treatment Plant (WTP) on an existing parking lot, it includes a proposed a proposed raw water pipeline, proposed potable water pipeline, proposed pump stations, and an existing well. The WTP would treat the groundwater from the existing LGRC well. Equipment associated with the WTP includes two pump stations that would be constructed within a common structure on the north side of the WTP. Raw groundwater from the LGRC well would be conveyed to the WTP via a new underground pipeline. A new potable water transmission pipeline would be installed along South Moorpark Road to convey treated potable water from the WTP to the City's potable water distribution system.

Pipeline installation involves open-cut trenching, measuring 3 to 5 feet in width, and a construction zone of 25 to 50 feet in width. The raw water transmission pipeline would be approximately 12-inches in diameter and 2,650 feet in length, buried three feet below ground. The potable water pipeline would be approximately 8-inches in diameter and 1,300 feet in length. The majority of the ground surface above the proposed pipelines will be restored to pre-project conditions.

Construction at the WTP will involve demolition of the existing parking lot, grading, building construction, and paving.

1.3 Project Plans

The project plans have not yet been finalized. The mapped locations of the project components in the figures of this report have been approximated by Rincon based on the project descriptions provided by the Applicant (as summarized above). The Applicant confirms that the project components will be located at least 10 feet south of the jurisdictional boundary (per the memorandum written by Rincon, dated October 25, 2019).

The proposed raw water pipeline will be located south of the golf cart path. In areas where the golf cart path splits off to another path, the pipeline will cross the golf cart path.

Figure 1 Regional Project Location



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Project Location

N

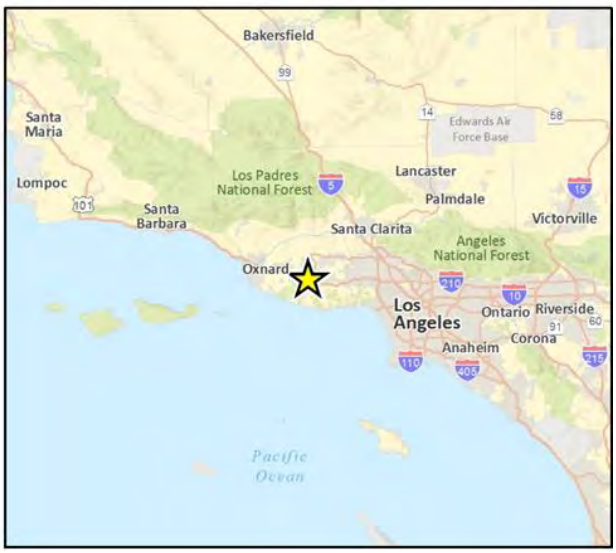
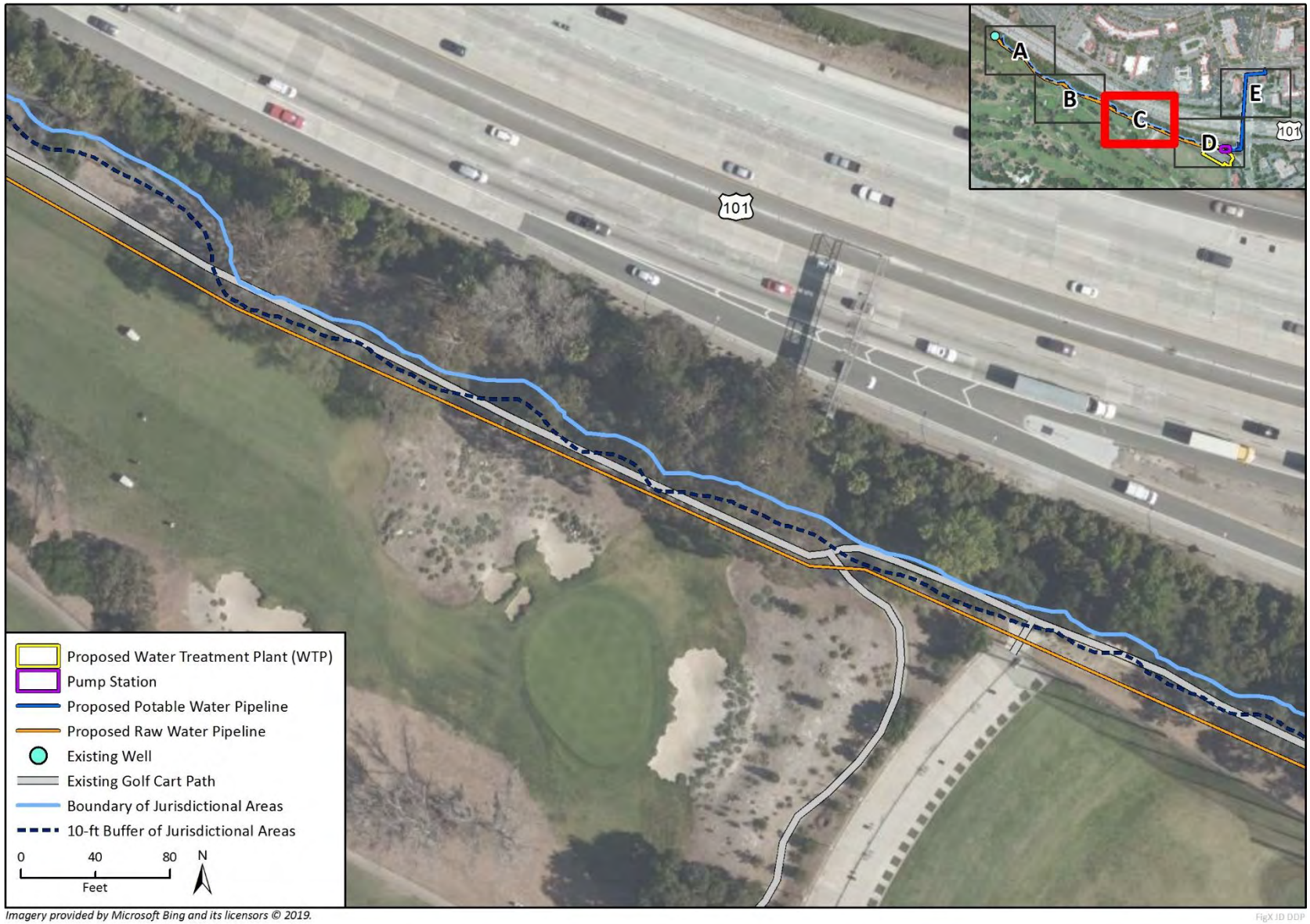


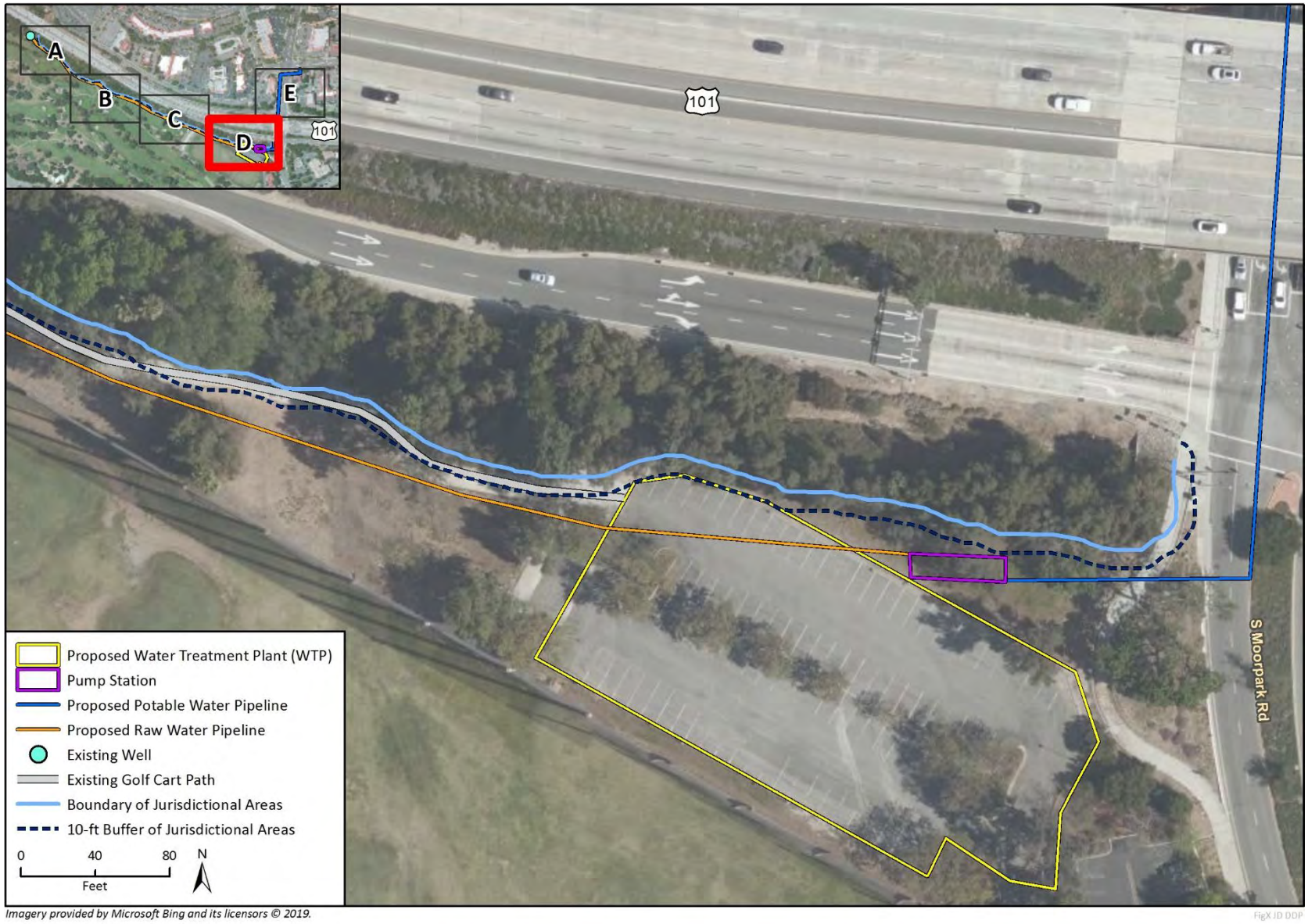
Figure 2 Project Components




101
Proposed Water Treatment Plant (WTP)
Pump Station
Proposed Potable Water Pipeline
Proposed Raw Water Pipeline
Existing Well
Existing Golf Cart Path
Boundary of Jurisdictional Areas
10-ft Buffer of Jurisdictional Areas
0
40
80
Feet
N
A
B
C
D
E
101
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Imagery provided by Microsoft Bing and its licensors © 2019.


A
B
C
D
E
101
101
S Moorpark Rd
Proposed Water Treatment Plant (WTP)
Pump Station
Proposed Potable Water Pipeline
Proposed Raw Water Pipeline
Existing Well
Existing Golf Cart Path
Boundary of Jurisdictional Areas
10-ft Buffer of Jurisdictional Areas
0
40
80
Feet
N
Imagery provided by Microsoft Bing and its licensors © 2019.


A
B
C
D
E
101
W Thousand Oaks Blvd
Moorpark Rd
Proposed Water Treatment Plant (WTP)
Pump Station
Proposed Potable Water Pipeline
Proposed Raw Water Pipeline
Existing Well
Existing Golf Cart Path
Boundary of Jurisdictional Areas
10-ft Buffer of Jurisdictional Areas
0
40
80
Feet
N
Imagery provided by Microsoft Bing and its licensors © 2019.

2 Oak and Landmark Tree Survey Methodology

On November 6, 2019, Rincon International Society of Arboriculture (ISA) Certified Arborist Yuling Huo (Certification # WE -11975A) and Rincon biologist Claire Stenger surveyed for all protected trees with at least a portion of their TPZs overlapping the project components. All trees were assigned a unique identification number and tagged with corresponding physical tags, where access was feasible. Trees that were previously tagged did not receive a new tag, per the Guidelines. An assessment for risks or hazardous conditions was not conducted as part of this survey. The following information was gathered for protected trees:

- Scientific and common name
- Geographic location of each tree using a Trimble® Geo 7x handheld with integrated rangefinder, including the extent of tree canopies where feasible
- Diameter of all trunks at four and one-half feet above natural grade using an English unit diameter tape or caliper
- Visual estimation of tree height and crown spread
- Health assessment of tree characteristics including evidence of disease, presence of insect pests, structure, damage, and vigor. Results were incorporated into the overall condition rating based on archetype trees of the same species with criteria described in Table 1 below
- Photograph documentation of individual trees

Relationships among the trees (i.e., multiple trunks arising from the same root, mature clones of a no longer present parent tree) were not determined, as only above-ground portions of the trees were examined. Where the entire tree canopy location could not be obtained using the Trimble device due to access issues, the remainder of the canopy data was digitized on a desktop utilizing aerial imagery.

Appendix A provides photographs of protected trees. Appendix B summarizes the data for all protected trees. Table 1 provides descriptions for tree health condition criteria, per the Guidelines.

Table 1 Overall Condition Rating Criteria

Rating	Health Condition
A – Outstanding	A healthy and vigorous tree characteristic of its species and free of any visible signs of disease or pest infestation.
B – Above Average	A healthy and vigorous tree. However, there are minor visible signs of disease and pest infestation
C – Average	Although healthy in overall appearance, there is a normal amount of disease and /or pest infestation

D – Below Average/Poor	This tree is characterized by exhibiting a greater degree of disease and /or pest infestation than normal and appears to be in a state of decline. This tree also exhibits extensive signs of dieback.
E – Dead	This tree exhibits no signs of life whatsoever.

3 Oak and Landmark Tree Survey Results and Discussion

A total of 30 protected trees were surveyed, 29 of which have at least a portion of their TPZs overlapping the project components, and one (Tree #7) of which has a TPZ occurring outside of the project components (this tree will still be discussed in this report because the project plans have not yet been finalized), as shown in Figure 3. Please note that one tree (Tree #29) was surveyed but was determined not to be a protected tree and is therefore excluded from this report.

Of the 30 protected trees, 21 are coast live oak trees, three are California sycamore trees, three are valley oak trees, and three are scrub oak trees. Specifically, 27 are protected oak trees and three are protected landmark trees. No designated historic trees were present within the project area, per the City's Conservation Element (City 2013).

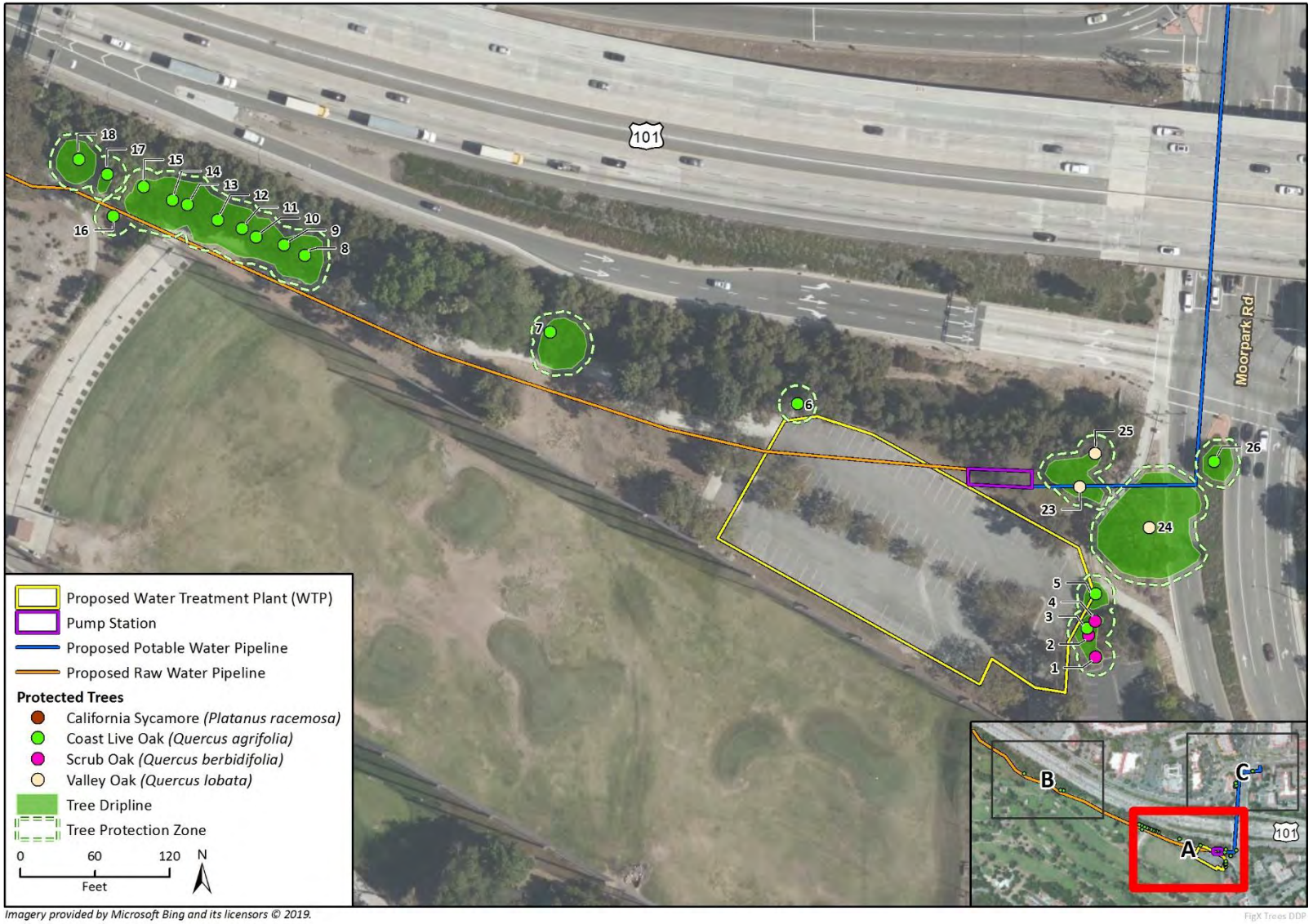
Of the 30 protected trees, three trees were identified as having an overall condition rating of A (Excellent), 20 trees had a rating of B (Above Average), six trees had a rating of C (Average), and one tree had a rating of D (Below Average/Poor overall condition).

The scrub oak and coast live oak trees east of the parking lot were growing in uncompacted soil covered with a thick layer of valley oak leaf litter, likely from the adjacent valley oak trees.

The coast live oak trees along the north side of the golf cart path are generally growing on or above the north-facing slope for the unnamed drainage bordering the project site. These trees are likely to be absorbing water from the drainage, which had water present in the western portion.

Tree #25 (valley oak) was in poor condition with almost no live canopy present. The tree canopy was crowded by a pepper tree on the north side. A large wound was present on the south side from a large branch breaking and tearing away from the tree. A large cavity was present at the base of the tree indicating potential root and trunk decay.

Figure 3 Project Site and Protected Trees




B
C
A
101
W Thousand Oaks Blvd
101
22
21
19
20
Proposed Water Treatment Plant (WTP)
Pump Station
Proposed Potable Water Pipeline
Proposed Raw Water Pipeline
Protected Trees
California Sycamore (Platanus racemosa)
Coast Live Oak (Quercus agrifolia)
Scrub Oak (Quercus berbidifolia)
Valley Oak (Quercus lobata)
Tree Dripline
Tree Protection Zone
0
60
120
N
Feet
Imagery provided by Microsoft Bing and its licensors © 2019.


Conejo Blvd
E Thousand Oaks Blvd
N Moorpark Rd
101
A
B
C
27
28
30
31
Proposed Water Treatment Plant (WTP)
Pump Station
Proposed Potable Water Pipeline
Proposed Raw Water Pipeline
Protected Trees
California Sycamore (Platanus racemosa)
Coast Live Oak (Quercus agrifolia)
Scrub Oak (Quercus berbidifolia)
Valley Oak (Quercus lobata)
Tree Dripline
Tree Protection Zone
0
60
120
Feet
N
Imagery provided by Microsoft Bing and its licensors © 2019.

4 Impact Summary

Of the 30 protected trees, three trees are recommended for removal because more than 30% of the trees' TPZs would be impacted, five trees could have up to 20% of their TPZs impacted, 16 trees are anticipated to have less than 5% of their TPZs impacted, and six trees are not anticipated to be impacted, as shown in Appendix B. Tree impacts are summarized in Table 2.

Table 2 Impact Summary

Impact Type	Tree ID#s
No impacts anticipated	1, 4, 21, 25-27
Approximately <5% of roots impacted	2-3, 6-13, 16-18, 20, 28, 30
Approximately <20% of roots impacted	14, 15, 19, 22, 24
Removal	5, 23, 31

Estimated impact percentages shown in Appendix B are based on the approximate project component locations based on the project description provided by the Applicant. Impacts include cumulative impacts to the root systems and canopies and involve severing of roots through trenching for the proposed lines and grading for the proposed WTP. Estimated percentages may change following review of finalized plans for the project. The finalized plans for the project will be designed to minimize encroachment into the TPZ of protected trees. Actual impacts will not be known until the time of construction and will depend upon the tree structure and the construction activities.

Due to the nature of grading and trenching, the greatest concern to tree health and mortality associated with the waterline installation and WTP construction is root damage. The majority of tree roots are typically located above a depth of four feet, and most of the fine roots active in water and nutrient absorption are in the top 12 inches (CDF 1989b). It should be noted that root systems vary by depth and the spread area is based on tree species, age, and soil type. Therefore, the full root zone may extend 2 to 3 times beyond the TPZ or may be smaller if the roots are impeded by physical barriers. Excessive damage to a tree's TPZ has potential to cause mortality to the respective tree.

Activities that may typically affect tree health and mortality when construction occurs near them include but are not limited to the following:

- Excavation/trenching—root severance
- Soil compaction (during and post-construction)
- Grading (cut and/or fill)
- Substantial trimming of crown or roots
- Damage to limbs and branches from project equipment collision (mechanical damage)

The ISA recommends that activities affecting the roots of a tree impact no more than 20-25% of the root zone. Removal of larger roots (particularly lateral or sinker roots and roots greater than two inches in diameter) can severely impact the stability of the tree. Healthy and young trees may

tolerate impacts to as much as 50% of their crown or root system (Sinclair, Lyon, and Johnson 1987). However, trees that are relatively large and/or old for the species or already under stress will have lower tolerances. If large lateral roots and sinker roots, which provide tree structural stability, are not removed, most trees should tolerate excavation affecting no more than 30% of the root zone (Arborilogical 2009).

Three protected oak trees (#s 5, 23, and 31) are currently recommended for removal due to their close proximity to the project components, which is likely to result in impacts exceeding 30% of the canopy or roots. The project plans, however, have not been finalized and the project components may be adjusted to the point that protected tree removal is not required. As such, a Protected Tree Replacement and Planting Plan is not included in this report but may be needed as an addendum following finalized project plans.

Adherence to the mitigation measures below would minimize impacts to protected trees that are remaining on site. If encroachment of the TPZ exceeds the minimum ISA standard of 30% or is too great to allow survival of a protected tree (as determined by a Certified Arborist during construction), the impact status would be elevated to a removal and mitigation may be required. If tree impact status is determined to be a removal during construction than an amendment to the project Oak/Landmark Tree Permit would be required from the City and additional fees may apply.

5 Tree Protection Plan (TPP)

The following measures should be implemented to reduce impacts to protected trees that are remain on site during construction. These measures are pursuant to the Guidelines and Ordinances. The Landmark Tree Ordinance does not provide specific standards and requirements for tree protection; as such the standards and requirements from the Guidelines will be applied to both protected oak and landmark trees.

5.1 Pre-Construction

Worker Awareness

All personnel should receive a training/presentation by a certified arborist or qualified personnel under the arborist's direct supervision, about the TPZs prior to working within or adjacent to these areas. The training should include explanation of the importance of TPZ signage and the protocol for working within TPZs, which is discussed below.

5.2 During Construction

Oversight of Impacts to Trees

No person should impact protected trees without oversight by a certified arborist or qualified personnel under the arborist's direct supervision. A daily log will be completed by the arborist that documents all root and branch cuts (size, number, and location) for each tree. In addition, a copy of this report, the protected tree location map, and the approved City of Thousand Oaks permit, if applicable, should be on site at all times.

Fencing/Signage

The project is located on private property or public right of ways and generally linear in nature. Typical fencing around protected trees is not required during linear construction because establishing fencing, then moving the fencing daily for construction, is not feasible. As an alternative, portable standalone signs should be placed at TPZs when construction activities are within 10 feet of protected trees. The signs should say "Tree Protection Zone, Contact LRGC Representative" and should remain in place throughout the temporary period of construction (i.e., may be moved overnight and replaced at the start of the work day, or left in place until construction activities in the area are completed). The signs should be moved along the right-of-way as the linear construction progresses.

In areas where typical fencing is feasible (i.e., in the parking lot within the project limits), a chain-link fence at least five feet in height should be installed around the TPZs and shown on a site plan. Additionally, signs should be installed at four locations equidistant around each tree; around a grove of trees, signs shall be placed at approximately 50-foot intervals. The size of each sign must be two (2') feet by two (2') feet in size. The signs shall say "WARNING. This fence shall not be removed or relocated without the written authorization from the Community Development Director" and should remain in place throughout the period of construction. The TPZs should be shown on site plans. Presence of the signs should be confirmed by a representative of the Community Development Director or certified arborist.

Grading/Excavation/Trenching

Where potholing, trenching, or any other ground disturbing activity occurs and/or is specifically shown on the project plans within a tree's TPZ, the activity should be done slowly so that when roots are encountered, they are not ripped or damaged by equipment. Hand tools or small hand-held power equipment should be utilized, as feasible. Cutting roots two inches in diameter or greater should be avoided wherever possible.

Root Severance

When root cutting occurs, exposed major roots that are greater than one inch in diameter (per the Guidelines) should not be ripped by construction equipment and should be preserved to the extent feasible. If roots greater than one inch are required to be cut to allow for construction, cuts should be clean and made at right angles to the roots. New cuts should be covered with absorbent tarp or heavy cloth fabric.

Pruning/Trimming

All pruning/trimming should be performed consistent with the ANSI A300 Pruning Standard (ANSI 2017) and should adhere to the most recent edition of ANSI Z133.1. Pruning/trimming of protected trees will be limited to only what is necessary for construction. Climbing spurs and spikes should not be used, except in cases of emergency.

Soil Compaction

Soil compaction imposes a complex set of physical, chemical, and biological constraints on tree growth. Principal components leading to limited growth are the loss of aeration and pore space, poor gas exchange with the atmosphere, lack of available water, and mechanical impedance of root growth. Soil compaction is the largest single factor responsible for the decline of trees on construction sites. Given the current site conditions (golf course, pathways, and bare dirt), most of the existing protected trees likely already have compacted soil within the project limits. The following guidelines are recommended to protect trees from any additional soil compaction that may occur due to project activities:

- No equipment or materials will be stored under canopies, or within the TPZ of protected trees (except in areas of paved asphalt or concrete sidewalks). On-site staging, storage and washing of construction materials and equipment will be limited to designated and approved areas. Steel traffic plates should be employed to protect sensitive root zones as needed.
- In areas of paved asphalt or concrete sidewalks, equipment may travel within TPZs without a monitor present. If pavement or asphalt is being removed within TPZs, or equipment must travel in areas of exposed soil, a certified arborist should monitor and document the activity.

Exhaust Exposure

Equipment should limit or avoid travel within TPZs (under tree canopies) to reduce impacts from equipment exhaust exposure. If equipment must operate within TPZs, the exhaust should be directed away from the foliage of protected trees, as feasible. When equipment is operating within TPZs, a certified arborist should monitor and document the activity.

Mechanical Damage

Damage to limbs and branches from project equipment (mechanical damage) may occur if work, including staging and access, occurs within TPZs. If damage occurs to limbs and branches, immediate trimming with clean cuts should occur in accordance with the ANSI standards discussed above. If damage to the bark or trunk occurs, wound dressings are not recommended. Treatment of said damages may be applied in accordance with the ANSI A300 Management of Trees and Shrubs during Site Planning, Site Development, and Construction (ANSI 2012). A certified arborist or qualified personnel under the arborist's direct supervision should monitor and document this activity.

5.3 Post-Construction

The Guidelines provide detailed standards and requirements for protected oak removal replacement. The Landmark Tree Ordinance; however, does not provide specific standards and requirements for landmark tree removal replacement. As such, replacement standards may largely be dependent on the decisions of the Director of Planning and Community Development. If protected tree removals are required based on final design plans, then a Protected Tree Replacement and Planting Plan may be needed as an addendum to this report.

Oak Tree Replacement

If any protected oak tree is removed, dies, or is damaged to the point of requiring removal during construction activities, the Community Development Department requires the following oak and landmark tree replacement ratios:

- Dead or Hazardous oak removed shall be replaced with one fifteen-gallon oak tree.
- Healthy oak removed exceeding forty-eight (48") inches in diameter to be replaced with two twenty-four (24")-inch box trees and either the largest available nursery grown tree or two sixty (60")-inch box trees.
- Healthy oak removed not exceeding forty-eight (48") inches in diameter to be replaced with two twenty-four (24") inch box trees and either one thirty-six (36") inch box tree or a single sixty (60") box tree.

Three protected oak trees are currently proposed for removal and the replacement requirements are summarized in Table 3 below.

Table 3 Tree Replacement Summary

Tree Proposed for Removal	Aggregate Trunk Diameter (inches)	# of Replacement Trees	Replacement Tree Size
5 (coast live oak)	8.5	3	24" box (x2); and 36" box (x1) or 60" box (x1)
23 (valley oak)	25	3	24" box (x2); and 36" box (x1) or 60" box (x1)
31 (coast live oak)	48	3	24" box (x2); and 36" box (x1) or 60" box (x1)
Total		**9**	**25" box (x6); and 36" box (x3) or 60" box (x3)**

Replacement trees will be of the species coast live oak, valley oak, or other oak tree varieties as approved by the Community Development Department.

The location of replacement trees shall consider, but not be limited to the following:

- The vegetative character of the surrounding area near the project site
- The number of oak trees subject to this resolution which are proposed to be removed in relation to the number of such trees currently existing on the project site
- The probability of long-term success of the replacement oak trees in a healthy condition with no or minimal conflict with the approved construction on the site over time
- The development plans submitted by the applicant of the proposed construction or the proposed use of this project site. If the project site is unsuitable for planting one or more of the replacement trees, the Community Development Director may approve other options as follows:
    1. Planting replacement oak trees on public property such as designated open space areas, public parks, etc.
    2. Cash payment to the City's Open Space Conservation Fund in an amount equal to the value (stock and installation) of the required replacement trees that were removed, as determined by the current tree valuation formula of the International Society of Arborists

In certain cases the City may consider the relocation of oak trees from one area in the project to another. The tree(s) being recommended for relocation must be approved by the Community Development Department and the size should not exceed 6 inches in diameter. A refundable cash security deposit will be made prior to tree relocation to ensure the survival of the relocated tree.

Landmark Tree Replacement

If any protected landmark tree is removed, dies, or is damaged to the point of requiring removal during construction activities, the City may require any of the following:

- A condition requiring the replacement or placement of additional trees on the subject property to offset the impacts associated with the loss of a tree, limbs, or encroachment into the protected zone
- The relocating of a tree on-site or off-site, or the planting of a new tree off-site to offset the loss of a tree
- A condition requiring an objectively observable maintenance and care program to be initiated to insure the continued health and care of landmark trees on the property
- Payment of a fee or donation of a boxed tree to the City or other public agency to be used elsewhere in the community should a suitable replacement location of the tree not be possible on-site or offsite

For the purpose of replacement for landmark trees removed, the method of valuation shall be the Guide for Plant Appraisal (10th Edition), by the Council of Tree and Landscape Appraisers (ISA 2018). The number, size, and location of replacement trees may also be determined by the Director of Planning and Community Development.

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American National Standards Institute (ANSI)

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Appendix A

Protected Tree Matrix

Tree ID #	Common Name/ Scientific Name	Height (Feet)	Canopy Spread (Feet)	# of Trunks	Individual Trunk Diameters	Aggregate Trunk Diameter	Overall Condition Rating	Protected Tree (Y/N)	Proposed Impacts	Notes
1	scrub oak (*Quercus berbidifolia*)	10	10	2	2.5, 2.5	5	B	Y	None	full canopy
2	scrub oak (*Quercus berbidifolia*)	10	10	4	1.5, 1.5, 1.5, 3	7.5	C	Y	Approximately <5% of canopy and roots	sparse canopy, brown spotting on leaves
3	coast live oak (*Quercus agrifolia*)	15	15	1	5	5	C	Y	Approximately <5% of canopy and roots	staking ties severely girdling trunk
4	scrub oak (*Quercus berbidifolia*)	10	15	4	0.5, 0.5, 1, 1.5	3.5	B	Y	None	galls present, somewhat sparse canopy
5	coast live oak (*Quercus agrifolia*)	15	20	1	8.5	8.5	A	Y	Removal	vigorous full canopy
6	coast live oak (*Quercus agrifolia*)	15	10	1	3	3	B	Y	Approximately <5% of canopy and roots	full canopy
7	coast live oak (*Quercus agrifolia*)	40	40	1	30	30	B	Y	Approximately <5% of canopy and roots	full canopy, some decay on trunk, diameter estimated
8	coast live oak (*Quercus agrifolia*)	30	50	2	18, 18	36	B	Y	Approximately <5% of canopy and roots	full canopy, diameter estimated, not tagged

Tree ID #	Common Name/ Scientific Name	Height (Feet)	Canopy Spread (Feet)	# of Trunks	Individual Trunk Diameters	Aggregate Trunk Diameter	Overall Condition Rating	Protected Tree (Y/N)	Proposed Impacts	Notes
9	coast live oak (*Quercus agrifolia*)	15	10	2	4, 5	9	B	Y	Approximately <5% of canopy and roots	somewhat sparse canopy
10	coast live oak (*Quercus agrifolia*)	30	40	1	20	20	B	Y	Approximately <5% of canopy and roots	full canopy, diameter estimated, not tagged
11	coast live oak (*Quercus agrifolia*)	40	40	3	3, 6, 18	27	B	Y	Approximately <5% of canopy and roots	full canopy, diameter estimated, not tagged
12	coast live oak (*Quercus agrifolia*)	35	40	2	14, 15	29	B	Y	Approximately <5% of canopy and roots	full canopy, diameter estimated, not tagged
13	coast live oak (*Quercus agrifolia*)	35	40	1	16	16	B	Y	Approximately <5% of canopy and roots	deadwood present, diameter estimated, not tagged
14	coast live oak (*Quercus agrifolia*)	40	50	1	17	17	B	Y	Approximately <10% of canopy and roots	full canopy, diameter estimated, not tagged
15	coast live oak (*Quercus agrifolia*)	30	35	1	13.5	13.5	B	Y	Approximately <10% of canopy and roots	full canopy
16	coast live oak (*Quercus agrifolia*)	10	10	2	1.5, 1.5	3	A	Y	Approximately <5% of canopy and roots	vigorous full canopy

Tree ID #	Common Name/ Scientific Name	Height (Feet)	Canopy Spread (Feet)	# of Trunks	Individual Trunk Diameters	Aggregate Trunk Diameter	Overall Condition Rating	Protected Tree (Y/N)	Proposed Impacts	Notes
17	coast live oak (*Quercus agrifolia*)	15	10	1	5	5	C	Y	Approximately <5% of canopy and roots	moderate lean , uneven patchy canopy
18	coast live oak (*Quercus agrifolia*)	35	40	1	14	14	B	Y	Approximately <5% of canopy and roots	full canopy, diameter estimated, not tagged
19	coast live oak (*Quercus agrifolia*)	35	30	2	15, 19	34	B	Y	Approximately <20% of canopy and roots	moderate lean, competition with adjacent trees
20	coast live oak (*Quercus agrifolia*)	25	20	1	6	6	C	Y	Approximately <5% of canopy and roots	sparse canopy
21	coast live oak (*Quercus agrifolia*)	35	50	1	27	27	B	Y	None	full canopy, some dieback throughout tree
22	coast live oak (*Quercus agrifolia*)	30	40	1	20	20	C	Y	Approximately <10% of canopy and roots	heavily pruned on south side, patchy canopy, diameter estimated, not tagged,
23	valley oak (*Quercus lobata*)	30	40	1	25	25	C	Y	Removal	large broken branches , sparse canopy , large wound on top of trunk from branch breaking off

Tree ID #	Common Name/ Scientific Name	Height (Feet)	Canopy Spread (Feet)	# of Trunks	Individual Trunk Diameters	Aggregate Trunk Diameter	Overall Condition Rating	Protected Tree (Y/N)	Proposed Impacts	Notes
24	valley oak (*Quercus lobata*)	40	65	1	40	40	B	Y	Approximately <10% of canopy and roots	mature tree with full canopy
25	valley oak (*Quercus lobata*)	20	40	1	37	37	D	Y	None	mostly dead, large cavity a base, crowded by adjacent pepper tree
26	coast live oak (*Quercus agrifolia*)	20	25	1	13.5	13.5	A	Y	None	full canopy
27	California sycamore (*Platanus racemosa*)	25	35	1	13	13	B	Y	None	full canopy, leaves beginning to senesce for winter, previous tag #1
28	California sycamore (*Platanus racemosa*)	40	35	1	15	15	B	Y	Approximately <5% of canopy and roots	full canopy, leaves beginning to senesce for winter
30	California sycamore (*Platanus racemosa*)	40	35	1	16	16	B	Y	Approximately <5% of canopy and roots	full canopy, leaves beginning to senesce for winter, previous tag #4
31	coast live oak (*Quercus agrifolia*)	25	40	5	4, 9, 10, 12, 13	48	B	Y	Removal	full canopy

Appendix B

Tree Photographs



Tree #1, Scrub oak (*Quercus berbidifolia*)



Tree #2, Scrub oak (*Quercus berbidifolia*)



Tree #3, Coast live oak (*Quercus agrifolia*)



Tree #4, Scrub oak (*Quercus berbidifolia*)



Tree #5, Coast live oak (*Quercus agrifolia*)



Tree #6, Coast live oak (*Quercus agrifolia*)



Tree #7, Coast live oak (*Quercus agrifolia*)



Tree #8, Coast live oak (*Quercus agrifolia*)



Tree #9, Coast live oak (*Quercus agrifolia*)



Tree #10, Coast live oak (*Quercus agrifolia*)



Tree #11, Coast live oak (*Quercus agrifolia*)



Tree #12, Coast live oak (*Quercus agrifolia*)



Tree #13, Coast live oak (*Quercus agrifolia*)


Tree #14, Coast live oak (*Quercus agrifolia*)


Tree #15, Coast live oak (*Quercus agrifolia*)



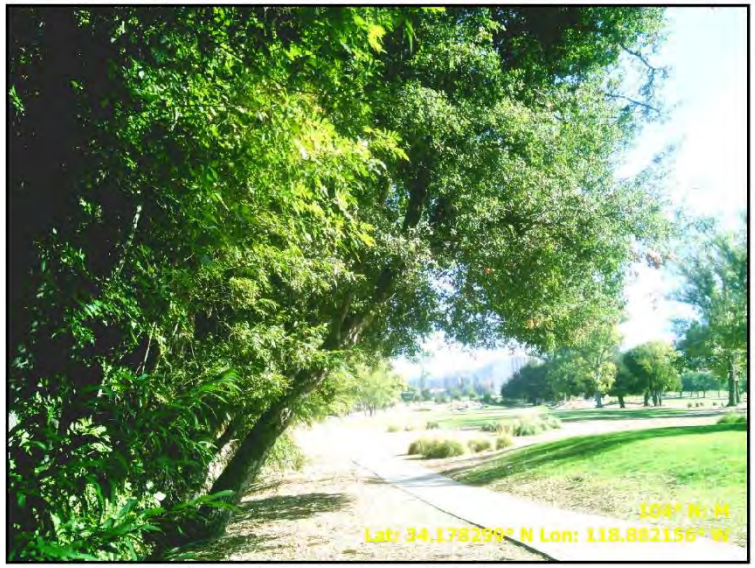
Tree #16, Coast live oak (*Quercus agrifolia*)

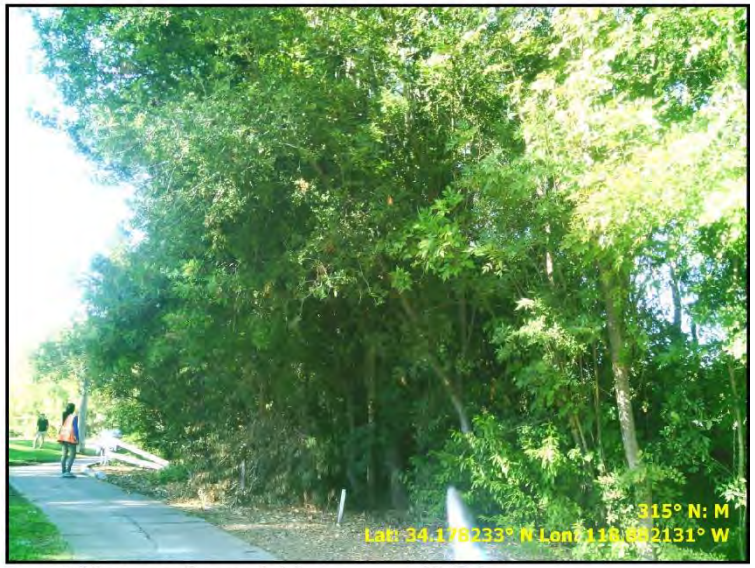


Tree #17, Coast live oak (*Quercus agrifolia*)



Tree #18, Coast live oak (*Quercus agrifolia*)


Tree #19, Coast live oak (*Quercus agrifolia*)



Tree #20, Coast live oak (*Quercus agrifolia*)



Tree #21, Coast live oak (*Quercus agrifolia*)



Tree #22, Coast live oak (*Quercus agrifolia*)



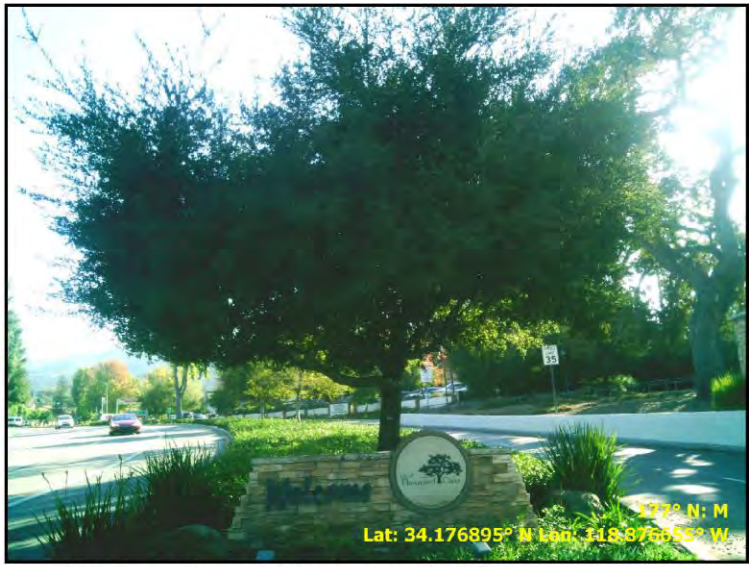
Tree #23, Valley oak (*Quercus lobata*)



Tree #24, Valley oak (*Quercus lobata*)



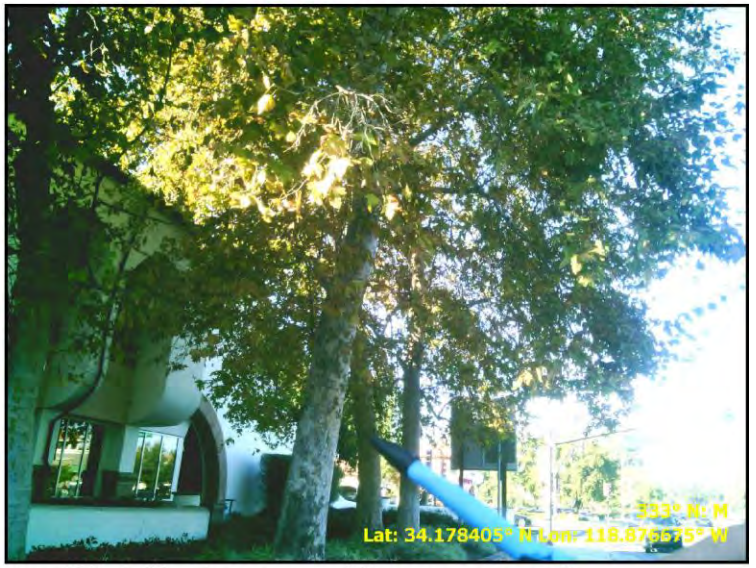
Tree #25, Valley oak (*Quercus lobata*)



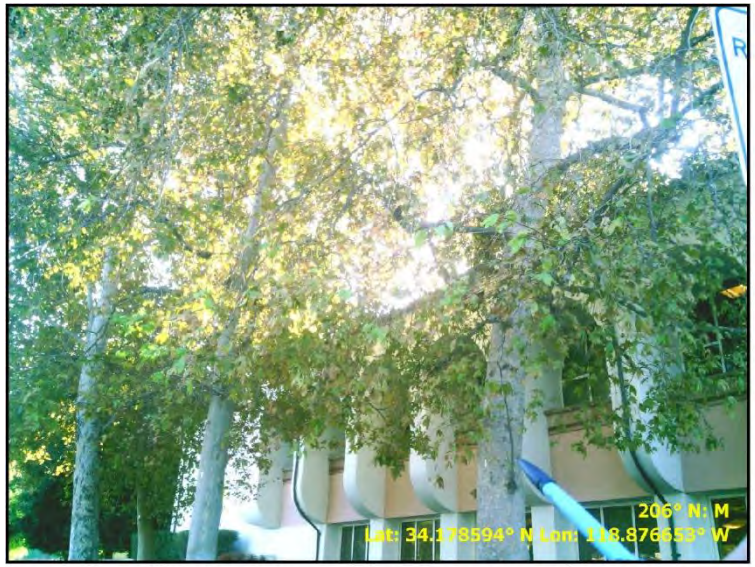
Tree #26, Coast live oak (*Quercus agrifolia*)



Tree #27, California sycamore (*Platanus racemosa*)



Tree #28, California sycamore (*Platanus racemosa*)



Tree #30, California sycamore (*Platanus racemosa*)



Tree #31, Coast live oak (*Quercus agrifolia*)

Appendix D: Phase 1 Cultural Resources Assessment



Los Robles Golf Course Groundwater Utilization Project

Phase I Cultural Resources Assessment

prepared for
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Executive Summary

Kennedy/Jenks Consultants, Inc. (Kennedy/Jenks) retained Rincon Consultants, Inc. (Rincon) to conduct a Phase I Cultural Resources Assessment for the Los Robles Golf Course Groundwater Utilization Project (project) located in Thousand Oaks, Ventura County, California. The project site includes Assessor's Parcel Numbers 681-001-2185, 681-005-0055, 664-001-0525, and 681-001-2045 and encompasses approximately 0.30 acre. The proposed project would include development of a raw water transmission pipeline, water treatment plant and potable water pipeline on the currently developed golf course and adjacent roadway.

Rincon prepared this assessment in support of the proposed project to provide recommendations regarding potential impacts to cultural resources, specifically archaeological or built environment resources. This assessment included a cultural resources records search of the California Historical Resources Information System (CHRIS), historical map and imagery review, Native American scoping including a Sacred Lands File (SLF) search conducted by the Native American Heritage Commission (NAHC), a cultural resources pedestrian survey of the project site, documentation and evaluation of the historic period Los Robles Greens Golf Course (LRGC), and preparation of this report following the California Office of Historic Preservation's *Archaeological Resource Management Report: Recommended Contents and Format* (1990). This assessment has been prepared in conformance with the California Environmental Quality Act (CEQA) and the City of Thousand Oaks is the lead agency under CEQA.

The CHRIS search identified seven previously recorded cultural resources within a 0.5 mile of the project site; none of the resources are located on the project site. The SLF search returned negative results and included a list of seven Native American contacts that may have knowledge of cultural resources on or near the project site. Rincon sent letters to each of the NAHC-listed Native American contacts on April 12, 2019. As of May 1, 2019, no responses were received.

Results of the pedestrian survey indicate the project site is currently a developed golf course that has undergone previous and recent ground disturbance. No archaeological resources were identified in the project site by the survey effort. However, a review of historical maps indicates the LRGC was constructed more than 45 years ago and as such, it meets the minimum age requirements for listing on the California Register of Historical Resources. A significance evaluation concluded the LRGC does not qualify as a historical resource under CEQA.

Based on the results of the cultural resource assessment, no significant cultural resources were identified in the project site that would be impacted by the project. Therefore, Rincon recommends a finding of *no impact to historical resources or archaeological resources under CEQA*. No further cultural resources work is recommended for the project.

Rincon presents the following recommendation in case of unanticipated discovery of cultural resources during project development. The project is also required to adhere to regulations regarding the unanticipated discovery of human remains, detailed below.

Unanticipated Discovery of Cultural Resources

If cultural resources are encountered during ground-disturbing activities, work in the immediate area must halt and an archaeologist meeting the Secretary of the Interior's Professional Qualifications Standards for archaeology (National Park Service 1983) should be contacted immediately to evaluate the find. If the discovery proves to be eligible for listing on the California Register of Historical Resources, additional work may be warranted, such as data recovery excavation, Native American consultation, and archaeological monitoring to mitigate any significant impacts under CEQA.

Human Remains

The discovery of human remains is always a possibility during ground disturbing activities. If human remains are found, the State of California Health and Safety Code Section 7050.5 states that no further disturbance shall occur until the County Coroner has made a determination of origin and disposition pursuant to Public Resources Code Section 5097.98. In the event of an unanticipated discovery of human remains, the County Coroner must be notified immediately. If the human remains are determined to be prehistoric, the Coroner will notify the Native American Heritage Commission, which will determine and notify a most likely descendant (MLD). The MLD has 48 hours from being granted site access to make recommendations for the disposition of the remains. If the MLD does not make recommendations within 48 hours, the landowner shall reinter the remains in an area of the property secure from subsequent disturbance.

1 Introduction and Setting

Kennedy/Jenks Consultants, Inc. (Kennedy/Jenks) retained Rincon Consultants, Inc. (Rincon) to conduct a Phase I Cultural Resources Assessment (assessment) for the Los Robles Golf Course (LRGC) Groundwater Utilization Project (project) in Thousand Oaks, Ventura County, California (Figure 1). This assessment includes a cultural resources records search of the California Historical Resources Information System (CHRIS), historical map and imagery review, Native American scoping including a Sacred Lands File (SLF) search conducted by the Native American Heritage Commission (NAHC), a pedestrian survey of the project site, resource documentation and evaluation and the preparation of this report following the California Office of Historic Preservation's *Archaeological Resource Management Report: Recommended Contents and Format* (1990). The report is prepared in conformance with the California Environmental Quality Act (CEQA) requirements. The City of Thousand Oaks (City) is the lead agency under CEQA.

1.1 Project Description

The project would provide groundwater treatment at an existing well site located on the LRGC to develop groundwater as a source of irrigation and municipal potable water. Historically, groundwater from the Conejo Valley Groundwater Basin was blended with potable water purchased from California American Water to produce irrigation water for the LRGC. Due to LRGC groundwater water quality issues, groundwater for irrigation ceased in 2014 and the source of irrigation water has since come mostly from California American Water.

The primary objective of the proposed project is to improve the water quality produced by the existing LRGC well so it can be used for LRGC irrigation. Towards this end, the project would equip the existing well on the LRGC and construct a new groundwater treatment facility called the LRGC Water Treatment Plant (WTP). Treated water produced at the WTP would be conveyed to the LRGC for irrigation and to the City's potable water distribution system.

The WTP will be situated at the existing LRGC parking lot, west of South Moorpark Road and directly south of the U.S. Highway 101 (U.S. 101). A raw water transmission pipeline would convey groundwater water from the well site to the treatment plant site. The raw water pipeline would have a 12-inch diameter and be approximately 2,650 feet in length. The pipeline would run adjacent to a golf cart path, buried three feet below ground. The trench would also contain the irrigation pipeline. The proposed potable water pipeline would be installed along South Moorpark Road and convey potable water from the water treatment plant to the City's distribution system. The potable water pipeline would have an 8-inch diameter and be approximately 1,300 feet in length.

1.2 Project Location

The project site encompasses approximately 0.30 acre south of U.S. 101 and west of South Moorpark Road in Thousand Oaks (Figure 1). The property is identified as Assessor's Parcel Numbers681-001-2185, 681-005-0055, 664-001-0525 and 681-001-2045, at 299 South Moorpark Road. The project

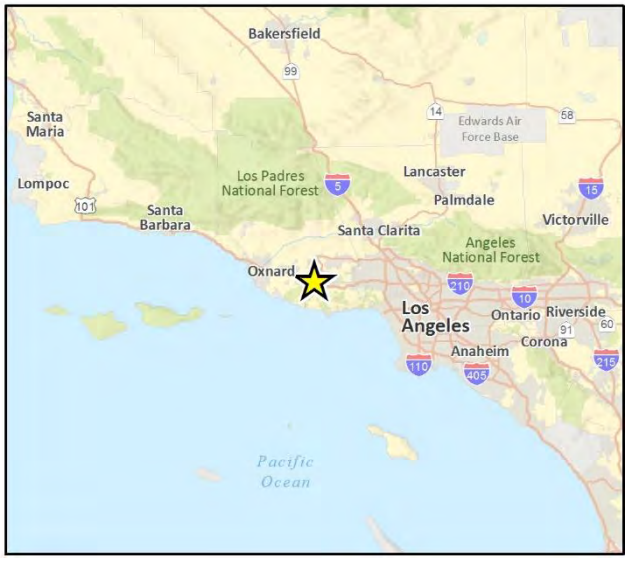
Figure 1. Regional Location Map



Imagery provided by Esri and its licensors © 2019.

Project Location

N



site is depicted on Township 01N, Range 19W, Sections 09 and 16, of the United States Geological Survey (USGS) *Newbury Park* CA and *Thousand Oaks* CA 7.5-minute quadrangles (Figure 2).

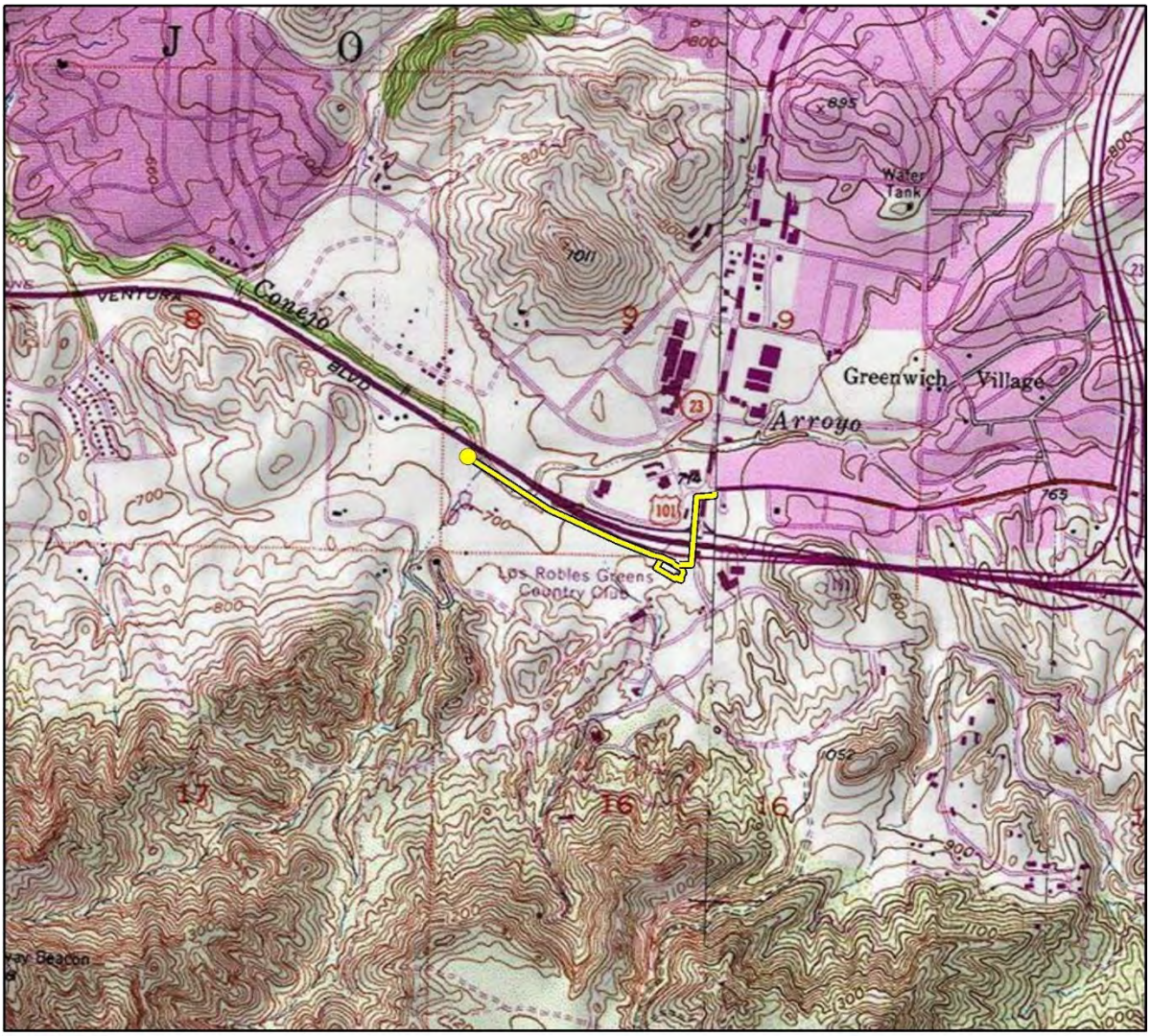
1.3 Environmental Setting

The project site is in the south central portion of Thousand Oaks city limits in the Conejo Valley, north of the Santa Monica Mountain Range. The project site is on a developed golf course and adjacent roadways situated on terrace, alluvial fan, and backslope remnants, where the landform is approximately 710 feet above mean sea level. Soils within the project site include a Cropley clay series consisting of very deep, well drained soils formed in alluvium from mixed rock sources (California Soil Resource Lab 2019). The nearest water source is Arroyo Conejo, located just north of the U.S. 101. Vegetation on the project site consists primarily of mature oak, pepper and eucalyptus trees, ornamentals and manicured grass.

1.4 Personnel

Rincon Senior Archaeologist Breana Campbell-King, MA, Registered Professional Archaeologist (RPA) and Senior Architectural Historian Steven Treffers, MHP, managed this cultural resources assessment and reviewed this report for quality control. Ms. Campbell-King meets the Secretary of the Interior's (SOI) Professional Qualifications Standards for prehistoric and historic archaeology and Mr. Treffers meets the SOI Professional Qualification Standards for History and Architectural History. Archaeologist, Mary Pfeiffer, completed the Native American outreach, field survey and was the primary author of this report. Architectural Historian James Williams, MA, conducted the architectural evaluation and co-authored this report. Their qualifications are presented in Appendix A. Archaeologist Tricia Dodds, MA, RPA, performed the cultural resources records search. Geographic Information Systems Analyst, Jonathon Schuhrke, prepared the figures found in this report. Jessica DeBusk, BS, MBA, served as the project manager. Senior Technical Editor, April Durham, PhD, and Principal Deanna Hansen, BA, reviewed this report for quality control and quality assurance.

Figure 2. Project Location Map

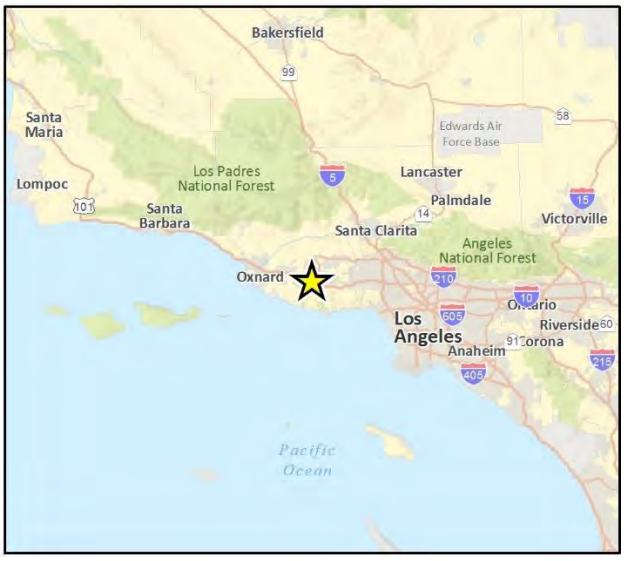


Imagery provided by National Geographic Society, Esri and its licensors © 2019. Newbury Park & Thousand Oaks Quadrangles. T01N R19W S09,16. The topographic representation depicted in this map may not portray all of the features currently found in the vicinity today and/or features depicted in this map may havechanged since the original topographic map was assembled.

Project Location

0 1,000 2,000 Feet

N



2 Regulatory Setting

This section includes a discussion of the applicable state and local laws, ordinances, regulations, and standards governing cultural resources to which the proposed project should adhere before and during implementation.

2.1 California Environmental Quality Act

CEQA requires a lead agency to determine if a project may have a significant effect on historical resources (Public Resources Code [PRC] §21084.1) or tribal cultural resources (PRC §21074[a][1][A]-[B]). A historical resource is a resource listed or determined to be eligible for listing in the California Register of Historical Resources (CRHR); a resource included in a local register of historical resources; or an object, building, structure, site, area, place, record, or manuscript that a lead agency determines to be *historically significant* (CEQA Guidelines §15064.5[a][1-3]).

A resource shall be considered *historically significant* if it meets any of the following criteria:

1) Is associated with events that have made a significant contribution to the broad patterns of California's history and cultural heritage
2) Is associated with the lives of persons important to our past
3) Embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of an important creative individual, or possesses high artistic values
4) Has yielded, or may be likely to yield, information important in prehistory or history

In addition, if it can be demonstrated that a project will cause damage to a *unique archaeological resource*, the lead agency may require reasonable efforts be made to permit any or all resources to be preserved in place or left in an undisturbed state. To the extent that resources cannot be left undisturbed, mitigation measures are required (PRC §21083.2[a], [b]).

PRC §21083.2(g) defines a *unique archaeological resource* as an artifact, object, or site about which it can be clearly demonstrated that, without merely adding to the current body of knowledge, there is a high probability that it meets any of the following criteria:

1) Contains information needed to answer important scientific research questions and that there is a demonstrable public interest in that information
2) Has a special and particular quality such as being the oldest of its type or the best available example of its type
3) Is directly associated with a scientifically recognized important prehistoric or historic event or person

A historical resource is one listed in or determined to be eligible for listing in the CRHR, a resource included in a local register of historical resources or any object, building, structure, site, area, place, record, or manuscript that a lead agency determines to be historically significant (CEQA Guidelines §15064.5[a][1-3]). Section 15064.5(a)(3) also states that a resource shall be considered by the lead agency to be "historically significant" if the resource meets the criteria for listing on the CRHR.

3 Cultural Setting

3.1 Prehistoric Context

During the twentieth century, many archaeologists developed chronological sequences to explain prehistoric cultural changes in all or portions of southern California (c.f., Jones and Klar 2007; Moratto 1984). Wallace (1955, 1978) devised a prehistoric chronology for the southern California coastal region that included four horizons: Early Man, Milling Stone, Intermediate, and Late Prehistoric. Wallace's chronology was based on early studies and lacked the chronological precision of absolute dates (Moratto 1984:159). Since then, Wallace's (1955) synthesis has been modified and improved using thousands of radiocarbon dates obtained by southern California researchers over recent decades (Byrd and Raab 2007:217; Koerper and Drover 1983; Koerper et al. 2002; Mason and Peterson 1994). The prehistoric chronological sequence for southern California presented below is a composite based on Wallace (1955) and Warren (1968), as well as later studies, including Koerper and Drover (1983).

3.1.1 Early Man Horizon (10,000 to 6000 BCE)

Numerous pre-8000 before the common era (BCE) sites were identified along the mainland coast and Channel Islands of southern California (c.f., Moratto 1984; Erlandson 1991; Rick et al. 2001: 609; Johnson et al. 2002; Jones and Klar 2007). The Arlington Springs site on Santa Rosa Island produced human femurs dated to approximately 13,000 years ago (Johnson et al. 2002; Arnold et al. 2004). On nearby San Miguel Island, human occupation at Daisy Cave (CA-SMI-261) has been dated to nearly 13,000 years ago and included basketry greater than 12,000 years old, the earliest on the Pacific Coast (Arnold et al. 2004).

Although few Clovis- or Folsom-style fluted points were found in southern California (e.g., Erlandson et al. 1987; Dillon 2002), Early Man Horizon sites are associated generally with a greater emphasis on hunting than later horizons. Recent data indicate the Early Man economy was a diverse mixture of hunting and gathering, including a significant focus on aquatic resources in coastal areas (e.g., Jones et al. 2002) and on inland Pleistocene lakeshores (Moratto 1984). A warm and dry 3,000-year period called the Altithermal began around 6000 BCE. The conditions of the Altithermal are likely responsible for the change in human subsistence patterns at this time, including a greater emphasis on plant foods and small game.

3.1.2 Milling Stone Horizon (6000 to 3000 BCE)

The Milling Stone Horizon is defined as "marked by extensive use of milling stones and mullers, a general lack of well-made projectile points, and burials with rock cairns" (Wallace 1955: 219). The dominance of such artifact types indicates a subsistence strategy oriented around collecting plant foods and small animals. A broad spectrum of food resources were consumed including small and large terrestrial mammals, sea mammals, birds, shellfish and other littoral and estuarine species, near-shore fishes, yucca, agave, and seeds and other plant products (Reinman 1964; Kowta 1969). Variability in artifact collections over time and from the coast to inland sites indicates Milling Stone Horizon subsistence strategies adapted to environmental conditions (Byrd and Raab 2007: 220). Locally available tool stone dominates lithic artifacts associated with Milling Stone Horizon sites;

ground stone tools, such as manos and metates, and chopping, scraping, and cutting tools, are common. Kowta (1969) attributes the presence of numerous scraper-plane tools in Milling Stone Horizon collections to the processing of agave or yucca for food or fiber. The mortar and pestle, associated with acorns or other foods processed through pounding, were first used during the Milling Stone Horizon and increased dramatically in later periods (Wallace 1955, 1978; Warren 1968).

Two types of artifacts are considered diagnostic of the Milling Stone Horizon are the cogged stone and discoidal, most of which have been found on sites dating between 4000 and 1000 BCE (Moratto 1984: 149), though possibly as far back as 5500 BCE (Couch et al. 2009). The cogged stone is a ground stone object with gear-like teeth on the perimeter and is produced from a variety of materials. The function of cogged stones is unknown, but many scholars have postulated ritualistic or ceremonial uses (c.f., Eberhart 1961: 367; Dixon 1968: 64-65) based on the materials used and their location near to burials and other established ceremonial artifacts as compared to typical habitation debris. Similar to cogged stones, discoidals are found in the archaeological record subsequent to the introduction of the cogged stone. Cogged stones and discoidals were often buried purposefully, or "cached." They are most common in sites along the coastal drainages from southern Ventura County southward and are particularly abundant at some Orange County sites, although a few specimens have been found inland as far east as Cajon Pass (Dixon 1968: 63; Moratto 1984: 149).

3.1.3 Intermediate Horizon (3000 BCE to CE 500)

Wallace's Intermediate Horizon dates from approximately 3000 BCE - CE 500 and is characterized by a shift toward a hunting and maritime subsistence strategy, as well as greater use of plant foods. During the Intermediate Horizon, a noticeable trend occurred toward greater adaptation to local resources including a broad variety of fish, land mammal, and sea mammal remains along the coast. Tool kits for hunting, fishing, and processing food and materials reflect this increased diversity, with the manufacture of flake scrapers, drills, various projectile points, and shell fishhooks.

Mortars and pestles became more common during this transitional period, gradually replacing manos and metates as the dominant milling equipment. Many archaeologists believe this change in milling stones signals a change from the processing and consuming of hard seed resources to the increasing reliance on acorn (c.f., Glassow et al. 1988; True 1993). Mortuary practices during the Intermediate typically included fully flexed burials oriented toward the north or west (Warren 1968:2-3).

3.1.4 Late Prehistoric Horizon (CE 500 to Historic Contact)

During Wallace's (1955, 1978) Late Prehistoric Horizon, the diversity of plant food resources and land and sea mammal hunting increased even further than during the Intermediate Horizon. More classes of artifacts were observed during this period and high quality exotic lithic materials were used for small, finely worked projectile points associated with the bow and arrow. Steatite containers were made for cooking and storage and an increased use of asphalt for waterproofing is noted. More artistic artifacts were recovered from Late Prehistoric sites and cremation became a common mortuary custom. Larger, more permanent villages supported an increased population size and social structure (Wallace 1955). This change in material culture, burial practices, and subsistence focus coincides with the westward migration of Uto-Aztecan language speakers from the Great Basin region to Los Angeles, Orange, and western Riverside counties (Sutton 2008; Potter and White 2009).

3.2 Ethnographic Context

The project site lies within an area historically occupied by the Ventureño Chumash, so called after their historic period association with Mission San Buenaventura (Grant 1978a). The Chumash spoke six closely related languages, which have been divided into three branches—Northern Chumash (consisting only of Obispeño), Central Chumash (consisting of Purisimeño, Ineseño, Barbareño, and Ventureño), and Island Chumash (Jones and Klar 2007:80). The Chumashan language currently is considered an isolate stock with a long history in the Santa Barbara region (Mithun 2004:304). Groups neighboring Chumash territory included the Salinan to the north, the Southern Valley Yokuts and Tataviam to the east, and the Gabrielino (Tongva) to the south.

Early Spanish accounts describe the Santa Barbara Channel as heavily populated at the time of contact. Estimates of the total Chumash population range from 8,000-10,000 (Kroeber 1925:551) to 18,000-22,000 (Cook and Heizer 1965: 21). Coastal Chumash lived in hemispherical dwellings made of tule reed mats, or animal skins in rainy weather. These houses could usually lodge as many as 60 people (Crespi 2001). The village of šukuw, (or shuku), at Rincon Point, was encountered by Gaspar de Portolá in 1769. This village had 60 houses and seven canoes, with an estimated population of 300 (Grant 1978b).

The tomol, or wooden plank canoe, was an especially important tool for the procurement of marine resources and for maintaining trade networks between Coastal and Island Chumash. Sea mammals were hunted with harpoons, while deep-sea fish were caught using nets and hooks and lines. Shellfish were gathered from beach sands using digging sticks, and mussels and abalone were pried from rocks using wood or bone wedges.

The acorn was an especially important resource. Acorn procurement and processing involved the manufacture of baskets for gathering, winnowing, and cooking and the production of mortars and milling stones for grinding. Bow and arrow, spears, traps and other various methods were used for hunting (Hudson and Blackburn 1979). The Chumash also manufactured various other utilitarian and non-utilitarian items. Eating utensils, ornaments, fishhooks, harpoons, and other items were made using bone and shell. Olivella shell beads were especially important for trade.

The Chumash were impacted heavily by the arrival of Europeans. The Spanish missions and later Mexican and American settlers dramatically altered traditional Chumash lifeways. Chumash population was affected drastically by the introduction of European diseases. However, many Chumash descendants still inhabit the region.

3.3 History

The post-contact history of California is divided generally into three time spans: the Spanish period (1769 to 1821), the Mexican period (1821 to 1848), and the American period (1848 to present).

3.3.1 Spanish Period (1769 to 1821)

Spanish exploration of California began when Juan Rodriguez Cabrillo led the first European expedition into the region in 1542. For more than 200 years after his initial expedition, Spanish, Portuguese, British, and Russian explorers sailed the California coast and made limited inland expeditions, but they did not establish permanent settlements (Bean 1968; Rolle 1987). In 1769, Gaspar de Portolá and the Franciscan Father, Junípero Serra, established the first Spanish

settlement in what was known then as Alta (upper) California at Mission San Diego de Alcalá. This was the first of 21 missions erected by the Spanish between 1769 and 1823.

Mission San Buenaventura, approximately 25 miles to the northwest of the project site, was first founded in 1782, and was the ninth mission to be established in California (California Missions Foundation n.d.). In 1793, the mission was destroyed by a fire and rebuilt in 1809. Shortly after its reconstruction, a series of earthquakes damaged the mission in 1812. While much of the mission has been restored, the original walls and foundation remain (California Missions Foundation n.d.; San Buenaventura Mission 2019).

Mission San Fernando Rey de España, approximately 25 miles to the northeast of the project site, was first founded in 1797, and was the seventeenth mission to be established in California (California Missions Foundation n.d.). Mission San Fernando Rey de España is located between coastal Mission San Buenaventura and inland Mission San Gabriel. In 1822, an associated Convento (long building), was constructed and served as guest housing quarters (California Missions Foundation n.d.; California Missions Resource Center 2019).

It was during the Spanish period that initial rancho settlement in the project vicinity began. In 1803, the Spanish government granted 48,672 acres of land encompassing the current project site to Jose Polanco and Ignacio Rodriguez (City of Thousand Oaks n.d.; Encyclopedia Britannica 2019). The land grant was named Rancho El Conejo, in reference to the many rabbits found in the area.

3.3.2 Mexican Period (1821 to 1848)

The Mexican period commenced when news of the success of the Mexican War of Independence (1810 to 1821) against the Spanish crown reached California in 1822. This period saw the privatization of mission lands in California with the passage of the Secularization Act of 1833. This act federalized mission lands and enabled Mexican governors in California to distribute former mission lands to individuals in the form of land grants. Successive Mexican governors made approximately 700 land grants between 1833 and 1846 (Shumway 2007), putting most of the state's lands into private ownership for the first time. During this era, a class of wealthy landowners known as rancheros worked large ranches based on cattle hide and tallow production.

In 1822, during the Mexican Period, property ownership of Rancho El Conejo changed from Jose Polanco to Jose de la Guerra y Noringa. The land stayed in the Rodriguez and de la Guerra y Noringa families until the 1860's, when subdivision of the land commenced due to severe drought and declining cattle numbers (Conejo Valley Historical Society 1966). The area that is now the present day city of Thousand Oaks was used as a stagecoach stop in the 1870's for those traveling between Los Angeles and San Francisco and was later purchased by Edwin and Harold Janss in 1910 (Encyclopedia Britannica 2019).

The beginnings of a profitable trade in cattle hide and tallow exports opened the way for larger, commercially driven farms. Land grants owned by the Spanish crown and clergy were distributed to mostly Mexican settlers born in California, or the "Californios." While this shift marked the beginning of the rancho system that would "dominate California life for nearly half a century" (Poole 2002:13), the rural character of emerging cities in and around Los Angeles remained intact. Ranchos were largely self-sufficient enterprises (partly out of necessity, given California's geographic isolation), producing goods to maintain their households and operations.

In 1846, the Mexican-American War followed the annexation of Texas by the United States and a dispute over the boundary of the state between the U.S. and Mexico. Governor Pío de Jesus Pico, the last governor of Alta California, began selling off 12 million acres of public land to support the

war financially (Los Angeles Almanac 2018). Mexican forces fought and lost to combined U.S. Army and Navy forces in the Battle of the San Gabriel River on January 8 and in the Battle of La Mesa on January 9 (Nevin 1978). On January 10, leaders of the pueblo of Los Angeles surrendered peacefully after Mexican General Jose Maria Flores withdrew his forces. Shortly thereafter, newly appointed Mexican Military Commander of California Andrés Pico surrendered all of Alta California to U.S. Army Lieutenant Colonel John C. Fremont in the Treaty of Cahuenga.

3.3.3 American Period (1848 to Present)

The American period began officially with the signing of the Treaty of Guadalupe Hidalgo in 1848, in which the United States agreed to pay Mexico $15 million for ceded territory, including California, Nevada, Utah, and parts of Colorado, Arizona, New Mexico, and Wyoming, and an additional $3.25 million to settle American citizens claims against Mexico. Settlement of southern California increased dramatically in the early American Period. Americans bought or otherwise acquired many ranchos in the county, and most were subdivided later into agricultural parcels or towns.

The discovery of gold in northern California in 1848 led to the California Gold Rush, despite the first California gold being previously discovered in southern California at Placerita Canyon in 1842 (Guinn 1976; Workman 1935:26). Southern California remained dominated by cattle ranches in the early American period, though droughts and increasing population resulted in farming and more urban professions supplanting ranching through the late nineteenth century. In 1850, California was admitted into the United States and by 1853, the population of California exceeded 300,000. Thousands of settlers and immigrants continued to move into the state, particularly after completion of the transcontinental railroad in 1869.

3.3.4 Thousand Oaks

The city of Thousand Oaks is situated on the land of the former Rancho El Conejo. Soldiers from the Santa Barbara Spanish presidio were granted grazing rights on the rancho as early as 1803. In 1822, the 48,674-acre rancho was granted to Jose de la Guerra, a former captain of the Santa Barbara Spanish presidio (National Park Service n.d.; Storke 1891).

After the property title was settled in 1874, the majority of the rancho came to be owned by three men: John Edwards, Howard W. Mills, and Egbert W. Newbury. The small settlement that would later develop into Thousand Oaks was a stagecoach stop along the route from Los Angeles to San Francisco (City of Thousand Oaks n.d.). In 1910, Harold and Edwin Janss, of the Janss Investment Company, purchased approximately 6,000 acres from the estate of John Edwards; eventually the Company's property holdings totaled 10,000 acres (Triem 1985; D'Amore 2004). The Janss Investment Company was responsible for the development of nearly 90,000 acres throughout southern California, with Thousand Oaks being one of its last major undertakings (Enriquez 1987).

In 1927, Louis Goebel established Goebel's Lion Farm on Thousand Oaks Boulevard with six lions he purchased from Universal Studios. It was here that Goebel trained his lions and housed animals such as elephants, tigers, giraffes, hippos, and chimpanzees (Conejo Valley Guide 2017). In 1956, James Ruman and Sid Rogel of 20th Century Fox purchased the farm and it became known as Jungleland, where scenes from films such as *Birth of a Nation, Tarzan*, and *The Adventures of Robin Hood* were filmed (City of Thousand Oaks n.d.).

By 1961, the area consisted of two shopping centers, an industrial park, schools, churches, and a four-year liberal arts college, California Lutheran University. The community voted to incorporate in 1964 and chose the name Thousand Oaks to honor the area's many oak trees. The city of Thousand Oaks continued to grow, and the economy prospered. Professional, scientific and technical services,

as well as manufacturing have become the largest industries in the city (DataUSA n.d.). The population now exceeds 127,000 residents and has grown to cover 56 square miles (City of Thousand Oaks n.d.).

4 Background Research

4.1 Cultural Resources Records Search

On April 2, 2019, Rincon Archaeologist Tricia Dodds performed a search of the CHRIS at the South Central Coastal Information Center (SCCIC) located at California State University, Fullerton. The purpose of the records search was to identify all previously recorded cultural resources and previously conducted cultural resources studies within a 0.5-mile radius of the project site. As part of the background research for the project, Rincon also reviewed the National Register of Historic Places (NRHP), the California Register of Historical Resources (CRHR), the California Historical Landmarks list, the Archaeological Determinations of Eligibility list, the California State Historic Resources Inventory (HRI), and the City of Thousand Oaks Historical Landmarks listings. Results from the SCCIC record search can be found in Appendix B of this report.

4.1.1 Previous Cultural Resource Studies

The SCCIC records search identified 25 previously conducted cultural resources studies within the record search area. Of these studies, five include all or a portion of the project site. Table 1 provides a summary of the reports within the search radius. Brief summaries of the cultural resource studies within the project site follow.

Table 1. Previous Cultural Resources Studies within 0.5 mile of the Project Site

Report Number	Author	Year	Title	Relationship to APE
VN-00028	Rosen, Martin D.	1975	*Evaluation of the Archaeological Resources and Potential Impact of Proposed Widening and Realignment of the Ventura Freeway (Federal Highway 101), Ventura County*	**Within**
VN-00074	Ivie, Pamela J. and David Scott Whitley	1976	*Archaeological Resource Survey and Impact Evaluation for Tentative Tract 2561, City of Thousand Oaks, Ventura County, California*	Outside
VN-00077	Ivie, Pamela J.	1976	*An Archaeological Resource Survey and Impact Assessment of Tentative Tract 2612, City of Thousand Oaks, California*	Outside
VN-00112	Desautels, Roger J.	1978	*Archaeological Survey Report on a 600+/- Acre Parcel of Land Located in the Moorpark Area of the County of Ventura, California*	Outside
VN-00114	Maxwell, Thomas J.	1973	*Impact Statement, Archaeological Element*	Outside

Report Number	Author	Year	Title	Relationship to APE
VN-00119	Singer, Clay A.	1977	*Cultural Resource Survey and Impact Assessment for Tentative Tract No. 2768, City of Thousand Oaks, Ventura County, California*	Outside
VN-00136	Singer, Clay A.	1978	*Cultural Resource Survey and Impact Assessment for a 26 Acre Parcel in the Downtown Section of the City of Thousand Oaks, Ventura County, California*	Outside
VN-00518	Parker, John	1987	*Archaeological Evaluation of the Callegus Municipal Water District, Lake Sherwood Project, Ventura County*	**Within**
VN-00654	Parker, John	1987	*Cultural Resource Evaluation of Callegus Municipal Water District Lake Sherwood Project Alternate Route 4*	Outside
VN-01040	Stelle, Kenneth and Albert Gallardo	1982	*Draft Environmental Impact Statement For Improvement of the Operational Characteristics of Route 101, the Ventura Freeway in Los Angeles and Ventura Counties, Between Route 405 in Los Angeles, and the Santa Clara River in Oxnard*	**Within**
VN-01084	King, Chester	1992	*Native American Placenames in the Santa Monica Mountains: First Draft*	Outside
VN-01102	Singer, Clay A.	1977	*Preliminary Cultural Resource Survey and Potential Impact Assessment for Thirteen Areas in Southern Ventura County, California*	Outside
VN-01322	Whitley, David S. and Joseph M. Simon	1994	*Phase I Archaeological Survey and Cultural Resources Assessment of the Oak Creek Seniors' Villa Parcel, Thousand Oaks, Ventura County, California*	Outside
VN-01462	King, Chester	1994	*Prehistoric Native American Cultural Sites in the Santa Monica Mountains*	Outside
VN-01520	Romani, John F.	1982	*Archaeological Survey Report for the 07-LA/VEN 101 Project P.M. 17.1-38.2/0.0-22.7 07351 – 076620*	Outside
VN-01539	Huey, Gene	1978	*Phase I Archaeological Survey VEN 101 P.M. 4.1/23.0 Freeway Widening and Pavement Reconstruction*	Outside

Report Number	Author	Year	Title	Relationship to APE
VN-01640	Wlodarski, Robert J.	1998	*A Phase I Archaeological Study, Rolling Oaks Drive Extension Project, City of Thousand Oaks, County of Ventura, California*	Outside
VN-01667	Brechbiel, Brant A.	1997	*Cultural Resources Survey Report for a Pacific Bell Mobile Services Telecommunications Facility: LA-341-01 in the City of Thousand Oaks, California*	Outside
VN-01865	Maki, Mary K.	2000	*Phase I Archaeological Survey and Impact Assessment of 600 Linear Feet with an Extended Phase I Subsurface Testing Program at CA-VEN-737 for the Greenmeadow Avenue Bikeway Extension Project*	Outside
VN-01867	Romani, John F.	2001	*Letter Report on the Archaeological Monitoring for the Greenmeadow Bikeway Excavation*	Outside
VN-01903	Sylvia, Barbara	2000	*Reconstruction of US 101 Median, Bridges, Pavement and Ramps*	Outside
VN-01954	Sylvia, Barbara	2000	*Negative Archaeological Survey Report: 1Y2601 Highway Project Description*	**Within**
VN-02239	King, Chester and Jeff Parsons	2000	*Archaeological Record of Settlement and Activity in the Simi Hills Malu'liwini*	Outside
VN-02639	Wlodarski, Robert J.	2003	*A Phase I Archaeological Study for the Oaks Mall Renovation/Expansion Project City of Thousand Oaks, County of Ventura, California*	**Within**
VN-03034	Kirksih, Alex	2011	*Archaeological Survey Report for the SR-23/US-101 Interchange Project Ventura County, California*	Outside

Source: SCCIC 2019

VN-00028

Martin D. Rosen prepared VN-00028, *Evaluation of the Archaeological Resources and Potential Impact of Proposed Widening and Realignment of the Ventura Freeway* (*Federal Highway 101), Ventura County*, in 1975. This study included a records search and field survey. The archaeological field survey encompassed the project's proposed raw water transmission pipeline alignment, the existing well, and the northern half of the WTP. No cultural resources were located during the field survey.

VN-00518

John Parker prepared VN-00518, *Archaeological Evaluation of the Callegus Municipal Water District, Lake Sherwood Project, Ventura County,* in 1987. This study included a record search and archaeological field survey for a proposed water line and storage reservoir. The survey intersected the eastern boundary of the project's proposed WTP and potable water pipeline. No cultural resources were observed during the field survey.

VN-01040

Kenneth Stelle and Albert Gallardo prepared VN-01040, *For Improvement of the Operational Characteristics of Route 101, the Ventura Freeway in Los Angeles and Ventura Counties, Between Route 405 in Los Angeles, and the Santa Clara River in Oxnard*, in 1982. This study included a record search and field survey. The archaeological field survey encompassed the project's proposed raw water transmission pipeline alignment, existing well and the northern half of the WTP. The field survey concluded no cultural resources were located within the project site.

VN-01954

Barbara Sylvia prepared VN-01954, *Negative Archaeological Survey Report: 1Y2601 Highway Project Description*, in 2000. The study included a record search and field survey. The archaeological field survey intersected the project's existing well and western half of the proposed raw water transmission pipeline alignment. No cultural resources were observed during the field survey.

VN-02639

Robert J. Wlodarski prepared VN-02639, *A Phase I Archaeological Study for the Oaks Mall Renovation/Expansion Project City of Thousand Oaks, County of Ventura, California,* in 2003. The study included a record search and field survey. The field survey intersected the project's existing well and western half of the proposed raw water transmission pipeline alignment. No cultural resources were observed during the field survey.

4.1.2 Previously Recorded Cultural Resources

The SCCIC records indicate seven cultural resources are located within a 0.5-mile search radius of the project site. Two additional historic period built environment resources (Case Study House No. 28 and the Janss House [P-56-152479]) were identified through a review of the NRHP and City of Thousand Oaks Historical Landmarks listings. Table 2 provides a summary of the previously recorded cultural resources in the search radius. Although no known cultural resources are documented within the project site, one archaeological resource (P-56-000490) has been recorded just east of the Moorpark Road. The remaining resources are all located more than 0.2 mile away from the project site. A description of P-56-000490 is provided below.

Table 2. Previously Recorded Cultural Resources within 0.5 mile of the Project Site

Primary Number	Trinomial	Resource Type	Description	Recorder(s) and Year(s)	NRHP/CRHR Status	Distance from Project Site
P-56-000490	CA-VEN-000490	Prehistoric site	Isolated Late Canalino Projectile Point	Ivie and Whitley, 1976	Unknown	140 feet
P-56-000492	CA-VEN-000492	Prehistoric site	Isolated sandstone mano	Clay A. Singer, 1976	Unknown	0.44 mile

Primary Number	Trinomial	Resource Type	Description	Recorder(s) and Year(s)	NRHP/CRHR Status	Distance from Project Site
P-56-000537	CA-VEN-000537	Prehistoric site	Ground stone artifacts with an associated flaked stone scatter	Clay A. Singer, 1977	Unknown	0.43 mile
P-56-000737	CA-VEN-000737/H	Multi-component (prehistoric and historic period) site	Prehistoric village site consisting of a cemetery, rock concentrations, flaked and ground stone artifacts, bone awl, and shell beads; historic period artifacts include pottery, metal cans, and glass bottle fragments	Clifford Rousseau, 1981; J. Karl, C. Singer, R. Wessel; 1982	Recommended as eligible for NRHP and as a Point of Historical Interest	0.28 mile
P-56-000924	CA-VEN-000924	Prehistoric site	Small lithic scatter consisting of four pieces of flaked stone debitage	Andrew Pigniolo and Steven H. Briggs, 1988	Unknown	0.27 mile
P-56-000925	CA-VEN-000925	Prehistoric site	Flaked stone debitage, shell fragments, and faunal bone	Andrew Pigniolo and Steven H. Briggs, 1988	Unknown	0.27 mile
P-56-000926	CA-VEN-000926	Prehistoric site	Small lithic scatter comprised of five flakes	Andrew Pigniolo and Steven H. Briggs, 1988	Unknown	0.28 mile
-	-	Historic period building	Case Study House No. 28	Unknown	Listed on the NRHP and CRHR	0.37 mile
P-56-152479	-	Historic period building	Janss House	Unknown	Ineligible for NHRP; not evaluated for CRHR	0.27 mile

SCCIC 2019

P-56-000490

This prehistoric resource was recorded in 1976 is an isolated Monterey chert Late Canalino projectile point measuring 1.8 by 0.7 inches in size. The isolated artifact was documented northeast of the Moorpark Road and Los Padres Drive intersection, on a northwest sloping ridge, approximately 140 feet to the east of the project site. According to the DPR form, the artifact was collected during its initial recordation (Ivie and Whitley 1976).

4.2 Historical Map, Aerial Photograph and General Land Office Review

Rincon reviewed available historical maps, aerial imagery and land patents to assess past land use of the project site (Bureau of Land Management 2019; NETROnline 2019; USGS Historical Topographic Map Explorer 2019). The original General Land Office (GLO) survey plat of 1897 depicts the project site as part of Rancho El Conejo, Lot No. 37 (Bureau of Land Management 2019a). GLO records note four land patents on Sections 9 and 16 of Township 01 North, Range 19 West, all of which encompass the project site. The patents were issued to the United States of America on July 1, 1870, September 8, 1870, and November 19, 1891, and to Jose Guerra on January 8, 1873 (Bureau of Land Management 2019b-e).

Historical topographic maps and aerial imagery depict the subject property as undeveloped land in the early twentieth century (USGS Historical Topographic Map Explorer 2019a, 2019b; NETRonline 2019). By 1921, a small dirt road is seen intersecting the project site from north to south (USGS Historical Topographic Map Explorer 2019c). A 1951 topographic map depicts the runway of the Conejo Valley Airport immediately south of the project site (USGS Historical Topographic Map Explorer 2019d). By 1967, the Los Robles Golf Course has been constructed at its current location (USGS Topographic Map Explorer 2019e).

4.3 Native American Heritage Commission and Outreach

As part of the process of identifying cultural resources for this project, Rincon contacted the NAHC on March 27, 2019 and requested an SLF search and a list of Native American tribal organizations and individuals who may have knowledge of sensitive cultural resources in or near the project site. On April 12, 2019, Rincon received a response from the NAHC stating the SLF search results were negative for site-specific information and included a list of seven Native American contacts who may have knowledge of cultural resources in the project site and vicinity. On April 12, 2019, Rincon mailed letters to each of these contacts requesting information regarding cultural resources. As of May 1, 2019, Rincon has not received any responses from Native American contacts. Appendix C provides the results of the scoping effort.

5 Field Survey

5.1 Methods

Rincon Archaeologist, Mary Pfeiffer, conducted a pedestrian survey of the project site on April 4, 2019 using 10-meter transect intervals. The project site is limited to an existing well, two pipeline alignments, and a proposed water treatment plant located within the LRGC and adjacent roadways. The survey transects were oriented generally east-west for the proposed water treatment plant and raw water transmission pipeline and generally north-south for the proposed potable water pipeline. Survey accuracy was maintained using a handheld Global Positioning Satellite unit and a georeferenced map of the project site. Ms. Pfeiffer examined exposed ground surface for artifacts (e.g., flaked stone tools, tool-making debris, stone milling tools, ceramics, fire-affected rock), ecofacts (marine shell and bone), soil discoloration that might indicate the presence of a cultural midden, soil depressions, and features indicative of the former presence of structures or buildings (e.g., standing exterior walls, postholes, foundations) or historic debris (e.g., metal, glass, ceramics). Ground disturbances such as burrows and drainages were inspected visually.

Although the project site is limited to the northeast portion of the golf course, a review of historical maps indicates the LRGC exceeds 50 years in age and is considered a potential historical property under CEQA. Therefore, the built environment elements of the entire golf course were documented as part of the field work effort. Ms. Pfeiffer visually inspected the buildings and structures on the golf course to assess overall condition and integrity, and to identify and document any potential character-defining features. All buildings were photographed and recorded by Ms. Pfeiffer and later inspected by Architectural Historian, James Williams, for notable architectural elements and alterations. Copies of the survey notes and digital photographs are maintained at the Rincon Ventura office.

5.2 Survey Results

Ground visibility was fair with approximately 50 percent exposure. Leaf litter and eucalyptus tree bark obscured surface visibility along the raw water transmission pipeline adjacent to a drainage and tree line (Figure 3). The drainage is laden with refuse of all forms. The soil is a compacted light to medium brown, fine-grained, silty sand. The WTP and potable water pipeline alignment are located on graded and paved surfaces (Figures 4 - 6). Vegetation in this portion of the project site consists of manicured grass, ornamental plants, and mature oak, pepper, and eucalyptus trees. The area has been heavily disturbed from construction and maintenance of the LRGC. No archaeological resources were located during the field survey.

Figure 3. Raw Water Transmission Pipeline Alignment, Facing East



Figure 4. Existing Well, Facing Southeast



Figure 5. Location of Proposed Water Treatment Plant, Facing East



Figure 6. Potable Water Pipeline Alignment Along South Moorpark Road, Facing Northwest



5.3 Los Robles Golf Course (LRGC)

5.3.1 Resource Description

Completed in 1964, LRGC is a municipally owned, privately operated golf course consisting of an 18-hole par 70 course, clubhouse, and ancillary buildings (Figure 7). The golf course occupies most of the property and is characterized by large open areas of grass fairways, teeing grounds, putting greens, bunkers, and water features (Figure 8). A driving range is situated at the property's northeast corner. Meandering concrete paths traverse the course. The surrounding area is predominantly suburban, devoted to a mix of residential and park land uses.

The main facilities complex consists of the clubhouse and two associated buildings clustered at the southeast corner of the property. Bounded on the south by the parking lot, the buildings face the golf course to the north. Constructed in 2001, the two-story clubhouse and the one-story Golf Shop (Figure 9), to the immediate east of the golf course, boast Mediterranean-inspired designs. Common architectural elements include rough-hewn stone veneer, segmental arches, stucco wall cladding, and red clay roofing tiles. East of the Golf Shop, the Gardens (constructed ca. 2014) comprise a one-story events venue with a rectangular plan and a gabled, tile-clad roof.

Minor ancillary buildings are scattered across the golf course. These include the Utility Building (Figure 10) and Snack Bar (Figure 11) in the interior of the course. They appear to be of recent construction. Both of these one-story, minimally Mediterranean-style buildings possess rectangular plans, wood-frame structural systems, stucco exterior walls, and hipped roofs with clay tile cladding. Maintenance Building 1 and 2 are situated near the course's southern boundary (Figures 12 and 13), and their appearance suggests they were completed in the mid-to-late-twentieth century. Utilitarian in style, these rectangular-plan buildings feature steel structural systems, standing-seam metal siding, and low-pitched roofs. Maintenance Building 1 includes a broad overhang, under which riding lawn mowers and other equipment are stored.

The 18-hole course extends west and north of the clubhouse. It is composed of fairways, tees, putting greens, bunkers, and paved paths. Mature trees are distributed somewhat evenly throughout the course, lining the fairways and greens. A roughly rectangular driving range is situated at the northeast corner of the course.

5.3.2 LRGC History

The subject resource was constructed in 1964 and its history is tied closely to the early development of the Thousand Oaks area. In 1917, the family of Peter Janss acquired 10,000 acres of land in the Conejo Valley, including much of what later became the city of Thousand Oaks (Anderson 1987; City of Thousand Oaks n.d.; Enriquez 1987). The area remained primarily agricultural in character through much of the twentieth century. By the early 1960s, however, under the direction of Janss' grandsons, Edwin, Jr. and William, the Janss Company had begun development of what the firm promoted as a "total community" or "total city" in the vicinity of Thousand Oaks (Newspapers.com 2019). As of 1963, the master-planned community—sometimes referred to in contemporary sources as Conejo Village—featured a massive tract of residential development north of U.S. 101, in addition to shopping centers and an industrial park.

The Janss Company began construction of the course in 1963, promoting it as one of several amenities slated to open near the firm's nearby subdivisions. A 1963 advertisement for the Lynn Ranch development, for example, noted the subdivision was "conveniently close" to the golf course,

Figure 7. LRGC Site Map



Figure 8. Representative View of Landscaping and Golf Course, Facing East



Figure 9. Golf Shop (left) and Club house (right), Facing Southeast



Figure 10. Utility Building, Facing East



Figure 11. Snack Bar, Facing Southwest



Figure 12. Maintenance Building 1, Facing Southeast



Figure 13. Maintenance Building 2, Facing West



which was then “nearing completion”. Later that year, the company advertised its Conejo Village subdivision was located near “10,000 acres of rolling countryside,…a pleasant regional shopping center,… [and the Los Robles Green, which would] be ready for play [that] fall” (Newspapers.com 2019). When Los Robles Golf Course opened a few months behind schedule in April 1964, it was an 18-hole, par-71 course occupying land on both sides of U.S. 101. Eleven holes were situated south of the freeway (at the site of the extant portion of the course), and the remaining seven were located to the north. An existing storm drain passing under the freeway was repurposed as a pedestrian tunnel connecting the two sections of the course. According to a contemporary Los Angeles Times article, architect William L. Rudolph designed the course’s original clubhouse [not extant] with “a Mediterranean theme [that was] in keeping with the Carmel-type architectural motif established for the entire Los Robles area” (Newpapers.com 2019). Available sources are unclear on the identity of the architect responsible for the course’s original design. Bob E. Baldock and notable California-based golf course architect William F. Bell are both cited, depending on the source (Blue Golf 2019; GolfNow 2019). The course was reconfigured between 1969 and 1970 and again in 2001, altering its design substantially.

In September 1964, approximately five months after the opening of Los Robles Greens, the city of Thousand Oaks incorporated with a population of 20,000 (City of Thousand Oaks n.d.). Rapid development pushed the population to around 35,000 at the close of the decade (World Population Review 2019). Around this time, the Janss Company announced plans to develop a “city center” north of U.S. 101 and west of Moorpark Road, on land partially occupied by the northern section of Los Robles Greens. By 1970, construction of what is now The Oaks shopping center had begun (NETRonline 2019; Newspapers.com 2019; UCSB Map & Imagery Lab 1970). The “city center” project required the demolition of the north portion of the course and the construction of seven new holes on what had been the southern section of Los Robles Greens. Aerial photographs indicate areas immediately adjacent to the south and west ends of the golf course were used for the construction of the new holes (NETRonline 2019). Historic aerial photographs reveal that during the 1970s and 1980s, the continued growth of Thousand Oaks led to the completion of new residential tracts in the vicinity of the golf course. By 1980, several single-family residences were constructed along the southern boundary of the course (NETRonline 2019). The gated community Robles Estates Townhomes was constructed to the east of the course, and a 1981 advertisement for the subdivision boasted its “luxurious townhomes border the verdant fairways of the Los Robles Greens Golf Course” (Newspapers.com 2019).

In 2001, golf course architect Stephen Halsey supervised a major refurbishment of Los Robles Greens. This effort included the construction of two ponds and an on-course snack bar, as well as the reconfiguration of existing irrigation and drainage systems, bunkers, hills, and greens. In addition, the original clubhouse was razed and a new clubhouse erected nearby (Fuller 2002). Los Robles Greens Golf Course and its immediate surroundings generally retain the form and character attained at the turn of the twenty-first century. The City of Thousand Oaks currently leases the property to the private operator, Arcis Golf, who renovated the course’s irrigation system and turf in 2016 to reduce water consumption (Arcis Golf 2016).

5.3.3 Resource Evaluation

LRGC does not appear eligible for listing in the NRHP nor the CRHR; neither does it appear eligible for designation as a landmark by the City of Thousand Oaks. The subject property is associated with an early period of intensive residential and commercial development in Thousand Oaks in the 1960s, but available sources do not suggest the property played a significant role in those events or any other significant historical events at the local, state, or national level. Therefore, the property does

not appear to meet the eligibility requirements for listing under NRHP Criterion A, CRHR Criterion 1, or Thousand Oaks Criterion 2. The property is associated with the Edwin, Jr. and William Janss, who built the course as part of the Janss Company's effort to develop Thousand Oaks. Available sources do not suggest the property was central to their business plan. Although it was highlighted as a local amenity in advertisements for some of company's Conejo Valley subdivisions, it was just one among many local selling points the firm emphasized. Furthermore, research conducted for the present study does not suggest the development of the subject property was among the Janss Company's most important achievements or that it was associated with any other individuals who made important historical contributions. As a result, Los Robles Greens Golf Course does not appear eligible for listing under NRHP Criterion B, CRHR Criterion 2, or Thousand Oaks Criterion 3. Research conducted for this study suggests both the property as a whole and its constituent elements are of undistinguished design and construction. What is more, any possible associations the course has with architects William F. Bell or Bob E. Baldock were erased during the 2001 reconfiguration of the course. Therefore, the property does not appear eligible for listing under NRHP Criterion C, CRHR Criterion 3, or Thousand Oaks Criterion 5. Additionally, the property has not yielded, and is unlikely to yield, information important to prehistory or history and consequently does not appear eligible under NRHP Criterion D, CRHR Criterion 4, or Thousand Oaks Criterion 4. Finally, the subject property does not exemplify or reflect special elements of the social, aesthetic, engineering, architectural, or natural history of Thousand Oaks (local Criterion 1) or have interest to the public or limited interest to a special group of persons (local Criterion 6).

For more details see the attached California Department of Parks and Recreation Series 523 forms in Appendix D.

6 Findings and Management Recommendations

The results of the cultural resources records search, Native American outreach, historical imagery review, and field survey identified one historic period built environment resource, the LRGC, within the project site. An evaluation of the resource indicates it does not meet the criteria to be considered a historical resource under CEQA. Although two additional historic period built environment resources have been recorded within the project vicinity, both of these resources are located at least 0.4 mile from above-ground project components. As such, the project would not result in indirect (e.g., visual) impacts to the two resources.

The study did not identify any archaeological resources in the project site. The lack of surface evidence of archaeological remains does not preclude their subsurface existence. However, the absence of substantial prehistoric or historic period archaeological remains within the immediate vicinity, along with the existing level of disturbance in the project site, suggest there is a low potential for encountering intact subsurface archaeological deposits.

Based on the results of the cultural resource assessment, no significant cultural resources were identified in the project site that would be impacted by the project. Therefore, Rincon recommends a finding of *no impact to historical resources or archaeological resources under CEQA*. No further cultural resources work is recommended for the project.

Rincon presents the following recommendation in case of unanticipated discovery of cultural resources during project development. The project is also required to adhere to regulations regarding the unanticipated discovery of human remains, detailed below.

Unanticipated Discovery of Cultural Resources

If cultural resources are encountered during ground-disturbing activities, work in the immediate area must halt and an archaeologist meeting the Secretary of the Interior's Professional Qualifications Standards for archaeology (National Park Service 1983) should be contacted immediately to evaluate the find. If the discovery proves to be eligible for listing on the California Register of Historical Resources, additional work may be warranted, such as data recovery excavation, Native American consultation, and archaeological monitoring to mitigate any significant impacts under CEQA.

Human Remains

The discovery of human remains is always a possibility during ground disturbing activities. If human remains are found, the State of California Health and Safety Code Section 7050.5 states that no further disturbance shall occur until the County Coroner has made a determination of origin and disposition pursuant to Public Resources Code Section 5097.98. In the event of an unanticipated discovery of human remains, the County Coroner must be notified immediately. If the human remains are determined to be prehistoric, the Coroner will notify the Native American Heritage Commission, which will determine and notify a most likely descendant (MLD). The MLD has 48 hours

from being granted site access to make recommendations for the disposition of the remains. If the MLD does not make recommendations within 48 hours, the landowner shall reinter the remains in an area of the property secure from subsequent disturbance.

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Appendix A

Personnel Qualifications

Personnel Qualifications

Ms. Breana Campbell-King, M.A., R.P.A.

Breana Campbell-King is an Archaeologist at Rincon Consultants, Inc. Ms. Campbell-King has more than six years of academic and professional experience in archaeological fieldwork, research, and publications in California archaeology. Ms. Campbell-King received her Masters of Liberal Arts and Sciences in Anthropology from San Diego State University in 2016. Ms. Campbell-King has worked extensively in the Southern California region specifically conducting Phase I surveys and Phase II testing projects, and monitoring for development projects since 2012. Ms. Campbell-King has four years of experience conducting cultural resources investigation projects in compliance with Section 106 of the National Historic Preservation Act, the National Environmental Policy Act, and the California Environmental Quality Act as they pertain to cultural resources. Ms. Campbell-King has participated in several investigations throughout Riverside County including several survey and testing investigations in compliance with the NHPA and CEQA.

Mr. Steven Treffers, M.H.P

Mr. Treffers is an architectural historian with Rincon's Cultural Resources Group He holds a Master's degree in historic preservation from the University of Southern California, School of Architecture and meets and exceeds the Secretary of the Interior's Professional Qualification Standards for History and Architectural History. Having worked across California, Mr. Treffers has a wide range of experience with projects involving historic resources and requiring compliance with Section 106 of the NHPA, CEQA, and numerous local ordinances. He has direct experience with streetscape improvement projects supported by the Caltrans Local Assistance Program, including a number in Caltrans District 5. For these efforts, Mr. Treffers has managed and conducted historic resource surveys using the Caltrans Section 106 Programmatic Agreement, coordinated directly with Caltrans staff, and prepared HRERs, HPSRs, and Finding of Effect documents. Both professionally and as a former commissioner on the South Pasadena Cultural Heritage Commission, Mr. Treffers has also worked closely with design teams on projects involving alterations to historic resources to ensure compliance with SOI Standards and applicable design guidelines. As a result, he has extensive experience identifying character-defining features, reviewing architectural drawings, and collaborating with local governments, stakeholders, architects, and engineers to meet project objectives while retaining those elements that convey the reason for a historic resource's significance.

Ms. Mary Pfeiffer

Mary Pfeiffer is an Associate Archaeologist at Rincon Consultants, Inc. Ms. Pfeiffer has more than five years of academic and professional experience in California archaeology, spanning from the central coast to the Mojave Desert, Sierra Nevada Mountain Range, and Great Basin regions. Ms. Pfeiffer's experience working in these areas includes but is not limited to: 10,000+ acres of Class III survey, location and recordation of over 300 historic and prehistoric sites, STP and NRHP eligibility testing, condition assessments, site monitoring and updating, DPR 523 forms, and formal report writing. Ms. Pfeiffer has typologically identified over 1,000 stone implements from her time at UCSC,

Santa Barbara Museum of Natural History, California State Parks and the Department of the Interior. Ms. Pfeiffer has experience working in compliance with Section 106 of the National Historic Preservation Act and in tribal and governmental consultation processes. Ms. Pfeiffer has spent five years promoting education and outreach that highlights the importance of cultural resource preservation.

Mr. James Williams

James Williams is an Architectural Historian at Rincon Consultants, Inc. Mr. Williams has four cumulative years of professional experience who meets the SOI PQS for Architectural History and History. His professional experience includes the preparation of historic resource assessments in support of NEPA, Section 106 of the NHPA, CEQA, and local historic preservation regulations. He has conducted historic surveys and archival research, prepared DPR 523 series forms, and assisted in the preparation of historic resource evaluations for a number of historic resources. He has also assisted in the preparation of several HAER-like documentation packages as part of mitigation measures on behalf of various municipal agencies. Mr. Williams' recent work has included cultural resources technical reports and historic property evaluations based in Concord, San Leandro, Carmel-by-the-Sea, and the Sacramento River Delta region. In addition, he recently completed a historic structure documentation package detailing a historic water town operated by the City of Merced.

Appendix B

Records Search Results (Confidential)

Appendix C

Native American Outreach

Sacred Lands File & Native American Contacts List Request

NATIVE AMERICAN HERITAGE COMMISSION
1550 Harbor Blvd, Suite 100
Sacramento, CA 95814
(916) 373-3710
(916) 373-5471 – Fax
nahc@nahc.ca.gov

Information Below is Required for a Sacred Lands File Search

Project: Los Robles Golf Course Groundwater Utilization Project #19-07287

County: Ventura County

USGS Quadrangle Name: Newbury Park and Thousand Oaks, California Quadrangle

Township: 01N Range: 019W Section(s): 08, 09, 16 and 17

Company/Firm/Agency: Rincon Consultants, Inc.

Contact Person: Mary Pfeiffer

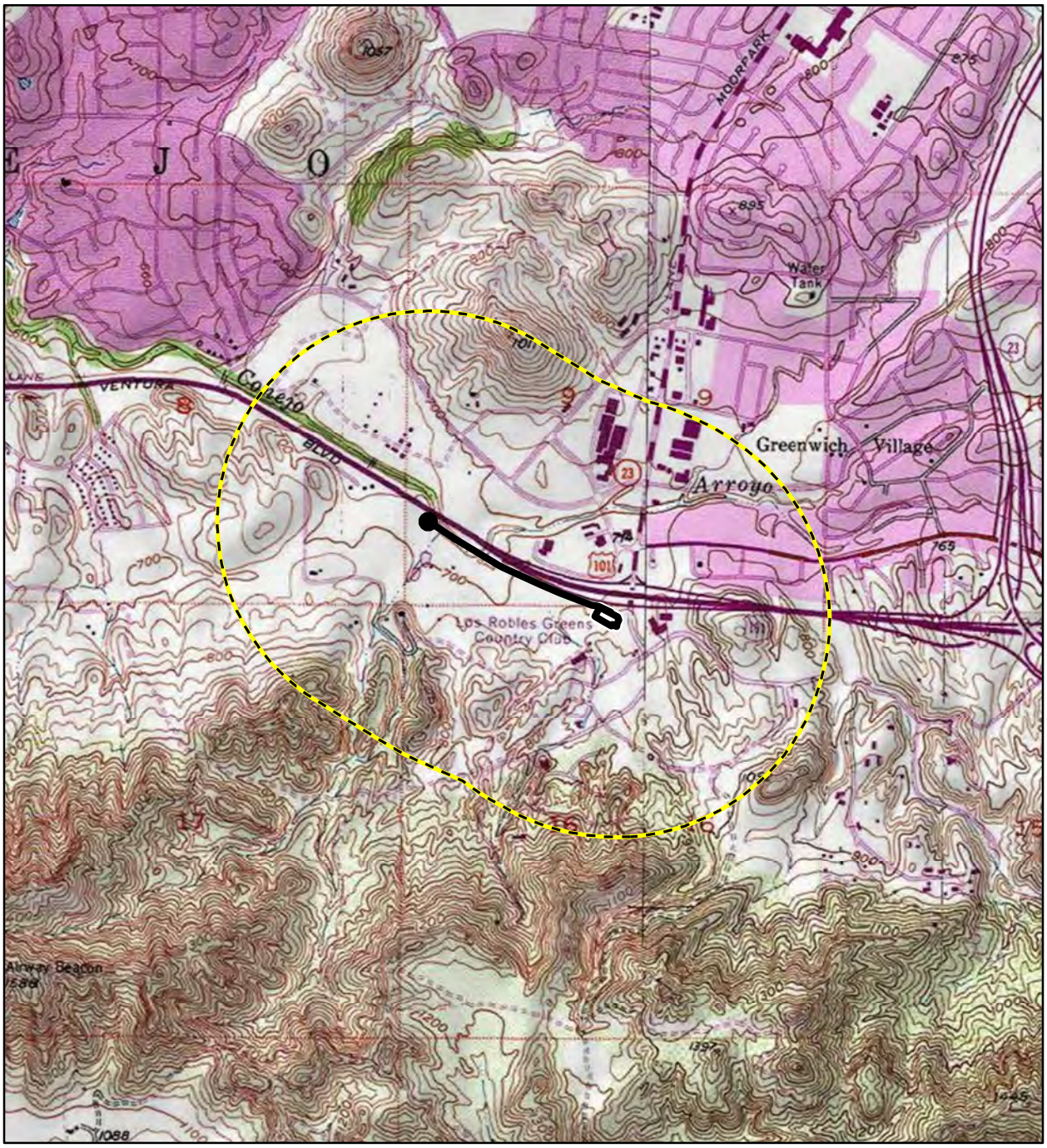
Street Address: 180 North Ashwood Avenue

City: Ventura Zip: 93003

Phone: (805) 644-4455 extension 2052

Email: mpfeiffer@rinconconsultants.com

Project Description: The proposed project would provide groundwater treatment to an existing well site located at 299 South Moorpark Road in Thousand Oaks and construct a new groundwater treatment facility called the LRGC Water Treatment Plant (WTP). Treated water produced from the WTP would be conveyed to the LRGC for irrigation and to the City's potable water distribution system. The project is subject to CEQA and the City of Thousand Oaks is the lead agency.



Imagery provided by National Geographic Society, Esri and its licensors © 2019. Newbury Park & Thousand Oaks Quadrangles. 01N R19W S08,09,16,17. The topographic representation depicted in this map may not portray all of the features currently found in the vicinity today and/or features depicted in this map may have changed since the original topographic map was assembled.

Area of Potential Effects

Half-Mile Buffer

N

0 1,000 2,000 Feet

0 250 500 Meters

1:24,000

Records Search Map

NATIVE AMERICAN HERITAGE COMMISSION
Cultural and Environmental Department
1550 Harbor Blvd., Suite 100
West Sacramento, CA 95691 Phone: (916) 373-3710
Email: nahc@nahc.ca.gov
Website: http://www.nahc.ca.gov

April 12, 2019

Mary Pfeiffer
Rincon Consultants

VIA Email to: mpfeiffer@rinconconsultants.com

RE: Native American Tribal Consultation, Pursuant to the Assembly Bill 52 (AB 52), Amendments to the California Environmental Quality Act (CEQA) (Chapter 532, Statutes of 2014), Public Resources Code Sections 5097.94 (m), 21073, 21074, 21080.3.1, 21080.3.2, 21082.3, 21083.09, 21084.2 and 21084.3, Los Robles Golf Course Groundwater Utilization Project, Ventura County

Dear Ms. Pfeiffer:

Pursuant to Public Resources Code section 21080.3.1 (c), attached is a consultation list of tribes that are traditionally and culturally affiliated with the geographic area of the above-listed project. Please note that the intent of the AB 52 amendments to CEQA is to avoid and/or mitigate impacts to tribal cultural resources, (Pub. Resources Code §21084.3 (a)) ("Public agencies shall, when feasible, avoid damaging effects to any tribal cultural resource.")

Public Resources Code sections 21080.3.1 and 21084.3(c) require CEQA lead agencies to consult with California Native American tribes that have requested notice from such agencies of proposed projects in the geographic area that are traditionally and culturally affiliated with the tribes on projects for which a Notice of Preparation or Notice of Negative Declaration or Mitigated Negative Declaration has been filed on or after July 1, 2015. Specifically, Public Resources Code section 21080.3.1 (d) provides:

> 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.

The AB 52 amendments to CEQA law does not preclude initiating consultation with the tribes that are culturally and traditionally affiliated within your jurisdiction prior to receiving requests for notification of projects in the tribe's areas of traditional and cultural affiliation. The Native American Heritage Commission (NAHC) recommends, but does not require, early consultation as a best practice to ensure that lead agencies receive sufficient information about cultural resources in a project area to avoid damaging effects to tribal cultural resources.

The NAHC also recommends, but does not require that agencies should also include with their notification letters, information regarding any cultural resources assessment that has been completed on the area of potential effect (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 that have already been recorded on or adjacent to the APE, such as known archaeological sites;

- 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;

- Whether the records search indicates a low, moderate, or high probability that unrecorded cultural resources are located in the 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 measures.

     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 in accordance with Government Code section 6254.10.

3. The result of any Sacred Lands File (SLF) check conducted through the NAHC was negative.
4. Any ethnographic studies conducted for any area including all or part of the APE; and
5. Any geotechnical reports regarding all or part of the APE.

Lead agencies should be aware that records maintained by the NAHC and CHRIS are not exhaustive and a negative response to these searches does not preclude the existence of a tribal cultural resource. 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 event that they do, having the information beforehand will help to facilitate the consultation process.

If you receive notification of change of addresses and phone numbers from tribes, please notify the NAHC. With your assistance, we can assure that our consultation list remains current.

If you have any questions, please contact me at my email address: steven.quinn@nahc.ca.gov.

Sincerely,

Steven Quinn
Associate Governmental Program Analyst

Attachment

Appendix D

DPR Series 523 Forms (Confidential)

Appendix E: Noise Analysis

Rincon Consultants, Inc.
Environmental Scientists Planners Engineers
www.rinconconsultants.com

Ambient Noise Survey Data Sheet

Instructions: Document noise measurement locations with a photo of the site, including the noise meter. Additionally, take notes on general and secondary noise sources, including the instantaneous noise level if possible. As a reminder, A/C weighting should be set to "A" and generally response time should be set to "fast." For additional information, please review the *Noise Measurement Protocol* in the pelican case.

Kennedy Jenks / Groundwater

Project Name: Thousand Oaks — **Job Number:** 19-07287

Date: 4/4/2019 — **Operator Name:** Erica Linard

Measurement #1

#1

Location: Rolling Oaks Dr. — **Begin time:** 10:17 am — **Finish time:** 10:32

Measurement No.: 012 [saved as #1] — **Wind (mph):** <1 — **Direction:** W

Cloud Cover Class: (Overcast (>80%)) Light (20-80%) Sunny (<20%)

Calibration (dB): Start: 94.0dB End: _____

Primary Noise Sources: Roadway [Rolling Oaks Dr.] — **Distance:** ~5 ft to curb edge; ~20 ft to road center

Secondary Noise Sources: _____

Notes: 2 lane road; 35 mph speed limit

* time on data logger is incorrect → actually 1 hr later [i.e. 10 am not 9 am]

Traffic Count: Passenger Cars: 122

Medium to Heavy Duty Trucks (3 axles): _____ Heavy Duty Trucks (4+ axles): _____

Instantaneous Noise Sources/Levels (e.g., airplane, bus airbrake, etc.): _____

Leq	SEL	Lmax	Lmin	PK
64.1	93.6	75.7	54.7	88.2

L(05)	L(10)	L(50)	L(90)	L(95)
68.5	67.5	61.9	58.0	57.2

Response: Slow (Fast) Peak Impulse

Measurement #2

#2

Location: Los Robles Green Parking lot — **Begin time:** 10:41 am — **Finish time:** 10:56

Measurement No.: 013 [saved as #2] — **Wind (mph):** 2 — **Direction:** W

Cloud Cover Class: (Overcast (>80%)) Light (20-80%) Sunny (<20%)

Calibration (dB): Start: _____ End: _____

Primary Noise Sources: 101 Freeway — **Distance:** ~150 ft to freeway & Moorpark rd.

Secondary Noise Sources: S. Moorpark road

Notes: Parking lot adjacent to Los Robles Greens golf course

* data logger time wrong → actually 1 hr later [i.e. 10 am not 9 am]

Traffic Count: Passenger Cars: 2 [entering parking lot]

Medium to Heavy Duty Trucks (3 axles): _____ Heavy Duty Trucks (4+ axles): _____

Instantaneous Noise Sources/Levels (e.g., airplane, bus airbrake, etc.): _____

Leq	SEL	Lmax	Lmin	PK
67.1	96.6	_____	_____	_____

L(05)	L(10)	L(50)	L(90)	L(95)
68.7	68.4	67.1	65.6	65.1

Response: Slow (Fast) Peak Impulse

24hr measurement started @ 10:00 am; first few minutes involved locking case & adjusting wire

Form Updated: 4/4/2019

- Freq Weight : A
- Time Weight : FAST
- Level Range : 40-100
- Max dB : 75.7 - 2019/04/04 09:23:56
- Level Range : 40-100
- SEL : 93.6
- Leq : 64.1
-

No.s	Date Time	(dB)				
1	2019/04/04 09:17:30	57.8	58.0	58.2	56.8	56.4
6	2019/04/04 09:17:35	56.5	57.1	58.4	57.5	56.1
11	2019/04/04 09:17:40	56.1	55.5	56.6	55.3	56.0
16	2019/04/04 09:17:45	55.3	55.9	56.6	55.4	56.7
21	2019/04/04 09:17:50	57.5	59.1	62.1	64.4	65.6
26	2019/04/04 09:17:55	66.1	64.9	66.4	66.1	64.6
31	2019/04/04 09:18:00	63.7	63.8	64.6	64.1	62.9
36	2019/04/04 09:18:05	62.9	62.9	62.8	62.0	63.5
41	2019/04/04 09:18:10	65.1	65.6	64.6	62.1	60.0
46	2019/04/04 09:18:15	60.4	61.0	64.3	67.1	62.8
51	2019/04/04 09:18:20	60.7	61.9	63.7	64.3	62.9
56	2019/04/04 09:18:25	62.3	64.2	66.7	62.4	58.4
61	2019/04/04 09:18:30	59.9	60.5	62.3	62.2	65.4
66	2019/04/04 09:18:35	68.2	64.3	63.4	61.6	59.8
71	2019/04/04 09:18:40	59.4	58.7	60.3	62.8	63.5
76	2019/04/04 09:18:45	67.5	71.5	63.2	59.4	58.7
81	2019/04/04 09:18:50	59.0	60.2	59.9	60.0	60.0
86	2019/04/04 09:18:55	61.6	64.8	66.8	68.4	66.0
91	2019/04/04 09:19:00	60.0	58.5	57.6	57.3	57.3
96	2019/04/04 09:19:05	58.5	57.9	57.8	58.5	61.4
101	2019/04/04 09:19:10	61.6	62.6	65.6	68.6	64.2
106	2019/04/04 09:19:15	59.6	57.4	56.8	57.4	58.3
111	2019/04/04 09:19:20	58.1	58.7	60.3	60.6	62.8
116	2019/04/04 09:19:25	65.5	69.0	72.5	67.2	66.0
121	2019/04/04 09:19:30	66.1	65.9	66.0	68.8	68.3
126	2019/04/04 09:19:35	67.3	66.4	66.7	67.2	68.8
131	2019/04/04 09:19:40	67.2	66.3	67.6	67.8	65.8
136	2019/04/04 09:19:45	65.2	68.9	67.0	67.0	64.0
141	2019/04/04 09:19:50	64.1	65.5	63.2	60.1	57.9
146	2019/04/04 09:19:55	57.4	57.3	57.6	57.7	60.2
151	2019/04/04 09:20:00	62.2	64.3	67.8	69.4	63.8
156	2019/04/04 09:20:05	63.7	62.7	64.6	61.8	62.1
161	2019/04/04 09:20:10	65.8	67.9	68.9	70.0	69.4
166	2019/04/04 09:20:15	70.6	67.7	63.9	61.7	62.2
171	2019/04/04 09:20:20	62.9	65.4	67.2	65.8	65.9
176	2019/04/04 09:20:25	67.5	68.1	61.7	58.7	58.2
181	2019/04/04 09:20:30	57.6	57.4	58.2	58.1	58.9
186	2019/04/04 09:20:35	59.6	61.3	63.0	66.0	67.1
191	2019/04/04 09:20:40	66.9	67.2	68.0	68.6	66.4
196	2019/04/04 09:20:45	64.5	63.2	62.5	61.5	65.7
201	2019/04/04 09:20:50	68.3	68.9	64.8	62.8	63.0
206	2019/04/04 09:20:55	63.0	62.9	63.8	65.5	68.7
211	2019/04/04 09:21:00	67.7	62.8	60.2	58.8	58.7
216	2019/04/04 09:21:05	59.4	60.2	58.9	58.9	59.3
221	2019/04/04 09:21:10	58.5	58.2	57.4	59.5	60.6
226	2019/04/04 09:21:15	62.6	63.6	67.3	67.7	63.5
231	2019/04/04 09:21:20	62.0	62.6	64.8	64.7	60.4
236	2019/04/04 09:21:25	58.9	59.2	59.5	59.9	60.7
241	2019/04/04 09:21:30	61.0	62.9	65.5	67.2	68.5
246	2019/04/04 09:21:35	66.3	66.5	67.4	68.2	67.9
251	2019/04/04 09:21:40	66.7	66.5	66.0	64.3	62.6
256	2019/04/04 09:21:45	61.3	60.7	60.7	60.5	60.9
261	2019/04/04 09:21:50	60.6	58.9	58.3	58.7	58.0
266	2019/04/04 09:21:55	59.0	58.8	58.5	58.2	58.5
271	2019/04/04 09:22:00	58.2	57.9	58.4	58.9	57.8
276	2019/04/04 09:22:05	57.9	58.4	58.2	58.7	59.5
281	2019/04/04 09:22:10	63.0	63.4	65.5	69.8	66.7
286	2019/04/04 09:22:15	61.0	60.1	58.8	58.4	58.7
291	2019/04/04 09:22:20	57.8	57.7	57.8	58.4	58.7
296	2019/04/04 09:22:25	58.8	58.3	58.1	58.5	58.4
301	2019/04/04 09:22:30	59.7	58.8	57.9	58.8	59.1
306	2019/04/04 09:22:35	60.0	61.5	61.9	65.4	65.7
311	2019/04/04 09:22:40	67.2	69.1	67.5	66.2	65.9
316	2019/04/04 09:22:45	66.8	65.6	65.3	64.4	63.4
321	2019/04/04 09:22:50	66.4	69.8	66.9	64.8	66.5
326	2019/04/04 09:22:55	67.3	61.4	59.1	59.8	59.5
331	2019/04/04 09:23:00	59.6	61.6	62.6	61.5	61.2
336	2019/04/04 09:23:05	61.4	63.3	65.6	62.5	60.3
341	2019/04/04 09:23:10	60.3	62.7	64.7	65.4	65.8
346	2019/04/04 09:23:15	64.3	63.3	61.3	61.0	61.0
351	2019/04/04 09:23:20	62.0	62.4	64.7	68.1	67.7
356	2019/04/04 09:23:25	62.9	61.6	62.8	65.0	65.2
361	2019/04/04 09:23:30	63.0	64.4	66.8	64.4	63.2
366	2019/04/04 09:23:35	62.5	67.6	70.0	64.4	64.3
371	2019/04/04 09:23:40	64.9	66.6	68.7	66.0	62.4
376	2019/04/04 09:23:45	60.9	59.4	59.0	57.6	58.6
381	2019/04/04 09:23:50	57.3	58.3	59.9	63.8	66.3
386	2019/04/04 09:23:55	69.5	75.5	68.3	61.0	59.6
391	2019/04/04 09:24:00	58.5	59.3	59.0	59.7	59.3
396	2019/04/04 09:24:05	59.5	59.3	58.5	59.3	61.4
401	2019/04/04 09:24:10	61.7	63.6	65.7	68.4	63.3
406	2019/04/04 09:24:15	61.9	63.3	67.5	63.4	58.9
411	2019/04/04 09:24:20	58.1	59.4	61.4	61.4	62.6
416	2019/04/04 09:24:25	64.6	64.8	61.7	61.0	60.2
421	2019/04/04 09:24:30	58.8	59.0	60.5	60.0	60.5

426	2019/04/04	09:24:35	63.2	65.4	65.8	67.1	67.6
431	2019/04/04	09:24:40	65.6	63.3	60.5	59.9	59.6
436	2019/04/04	09:24:45	60.4	60.5	61.7	60.8	60.7
441	2019/04/04	09:24:50	60.6	60.9	60.1	59.6	59.6
446	2019/04/04	09:24:55	62.6	65.1	66.7	71.2	70.8
451	2019/04/04	09:25:00	63.0	61.3	63.0	63.9	64.8
456	2019/04/04	09:25:05	66.3	68.8	72.6	69.8	69.1
461	2019/04/04	09:25:10	67.8	65.0	63.5	63.5	65.2
466	2019/04/04	09:25:15	69.4	67.3	61.3	59.8	59.4
471	2019/04/04	09:25:20	59.6	59.6	59.4	60.7	59.6
476	2019/04/04	09:25:25	59.9	59.7	59.0	60.2	60.9
481	2019/04/04	09:25:30	62.8	66.2	70.8	68.1	61.2
486	2019/04/04	09:25:35	59.4	58.3	58.6	60.0	59.7
491	2019/04/04	09:25:40	63.2	64.9	65.5	68.6	68.1
496	2019/04/04	09:25:45	65.3	67.7	63.9	62.4	60.8
501	2019/04/04	09:25:50	60.5	63.1	64.5	61.5	61.7
506	2019/04/04	09:25:55	59.9	59.6	60.0	61.1	59.8
511	2019/04/04	09:26:00	59.7	59.9	60.8	60.4	59.9
516	2019/04/04	09:26:05	59.8	61.3	65.7	66.8	69.4
521	2019/04/04	09:26:10	72.1	68.5	66.9	65.6	65.3
526	2019/04/04	09:26:15	67.4	72.3	67.4	61.6	60.3
531	2019/04/04	09:26:20	60.2	60.5	61.4	61.4	61.0
536	2019/04/04	09:26:25	61.8	60.7	60.2	59.5	59.3
541	2019/04/04	09:26:30	59.8	59.2	58.8	59.0	60.3
546	2019/04/04	09:26:35	59.3	61.3	62.2	64.3	66.5
551	2019/04/04	09:26:40	68.5	71.2	72.8	69.4	68.5
556	2019/04/04	09:26:45	67.4	69.1	70.5	67.9	66.0
561	2019/04/04	09:26:50	66.6	64.9	65.3	67.5	66.2
566	2019/04/04	09:26:55	62.3	61.0	61.1	60.6	59.6
571	2019/04/04	09:27:00	62.4	63.3	63.8	68.0	67.1
576	2019/04/04	09:27:05	61.1	60.2	63.0	62.0	61.3
581	2019/04/04	09:27:10	62.2	61.4	61.2	62.1	61.4
586	2019/04/04	09:27:15	60.0	60.3	58.9	59.3	59.7
591	2019/04/04	09:27:20	59.2	58.5	59.4	59.9	61.1
596	2019/04/04	09:27:25	63.0	63.4	64.6	63.6	63.9
601	2019/04/04	09:27:30	62.9	65.6	61.3	61.3	60.4
606	2019/04/04	09:27:35	59.5	58.7	58.5	58.3	58.1
611	2019/04/04	09:27:40	58.1	57.2	57.7	57.0	56.9
616	2019/04/04	09:27:45	55.6	55.8	56.0	57.2	59.9
621	2019/04/04	09:27:50	62.8	64.1	65.8	66.6	63.0
626	2019/04/04	09:27:55	65.2	66.9	68.6	67.6	65.4
631	2019/04/04	09:28:00	64.0	63.8	63.8	63.4	62.9
636	2019/04/04	09:28:05	65.0	66.9	65.8	63.7	63.2
641	2019/04/04	09:28:10	62.1	60.7	59.6	59.4	59.5
646	2019/04/04	09:28:15	59.4	59.7	60.9	63.0	66.5
651	2019/04/04	09:28:20	64.0	61.6	60.8	61.1	59.4
656	2019/04/04	09:28:25	59.1	60.1	59.1	61.1	64.1
661	2019/04/04	09:28:30	66.2	70.1	71.0	64.0	59.7
666	2019/04/04	09:28:35	59.0	58.7	58.4	58.5	58.7
671	2019/04/04	09:28:40	58.0	58.5	58.0	58.6	57.9
676	2019/04/04	09:28:45	59.1	58.5	57.2	58.1	58.9
681	2019/04/04	09:28:50	60.6	61.1	63.5	65.5	66.6
686	2019/04/04	09:28:55	65.7	64.3	64.1	64.7	64.0
691	2019/04/04	09:29:00	62.0	59.9	59.9	59.7	59.0
696	2019/04/04	09:29:05	57.7	57.5	57.1	57.1	57.2
701	2019/04/04	09:29:10	58.5	59.2	58.7	58.7	60.9
706	2019/04/04	09:29:15	60.9	58.6	56.2	55.9	55.6
711	2019/04/04	09:29:20	55.4	55.5	57.7	59.6	62.5
716	2019/04/04	09:29:25	65.9	67.5	68.1	68.7	69.0
721	2019/04/04	09:29:30	67.6	65.0	60.7	58.4	59.4
726	2019/04/04	09:29:35	59.7	58.1	58.5	58.4	58.3
731	2019/04/04	09:29:40	57.6	58.3	63.3	64.7	62.5
736	2019/04/04	09:29:45	63.9	67.3	69.9	66.4	67.4
741	2019/04/04	09:29:50	68.5	69.1	64.5	59.1	58.2
746	2019/04/04	09:29:55	59.5	61.1	64.2	64.1	59.7
751	2019/04/04	09:30:00	57.7	58.2	60.4	62.3	64.5
756	2019/04/04	09:30:05	67.3	67.8	64.0	61.5	61.1
761	2019/04/04	09:30:10	63.5	65.5	63.6	59.2	60.0
766	2019/04/04	09:30:15	60.6	61.4	62.1	63.0	65.3
771	2019/04/04	09:30:20	65.2	64.0	64.5	67.6	64.3
776	2019/04/04	09:30:25	62.5	63.3	67.9	69.8	64.0
781	2019/04/04	09:30:30	59.9	58.8	58.1	58.7	60.2
786	2019/04/04	09:30:35	63.4	68.1	65.3	59.6	57.4
791	2019/04/04	09:30:40	55.9	54.9	55.6	56.9	58.3
796	2019/04/04	09:30:45	58.8	60.6	62.1	64.9	66.4
801	2019/04/04	09:30:50	66.9	66.3	65.8	66.9	66.8
806	2019/04/04	09:30:55	68.4	66.9	67.1	66.9	67.6
811	2019/04/04	09:31:00	67.2	68.1	68.9	67.8	65.4
816	2019/04/04	09:31:05	63.9	63.0	59.5	58.2	57.6
821	2019/04/04	09:31:10	58.4	60.9	61.8	64.6	66.7
826	2019/04/04	09:31:15	62.5	62.1	64.9	66.2	69.4
831	2019/04/04	09:31:20	68.8	61.8	58.1	57.1	58.5
836	2019/04/04	09:31:25	58.0	59.5	60.7	60.1	60.2
841	2019/04/04	09:31:30	59.1	60.1	61.9	63.1	64.2
846	2019/04/04	09:31:35	64.1	67.0	67.1	67.0	65.5
851	2019/04/04	09:31:40	64.9	63.2	64.6	64.1	65.7
856	2019/04/04	09:31:45	69.5	71.0	66.2	61.7	58.9
861	2019/04/04	09:31:50	58.8	58.4	62.0	60.7	60.9
866	2019/04/04	09:31:55	60.0	60.0	60.2	60.6	60.4
871	2019/04/04	09:32:00	61.0	63.8	66.9	66.5	61.9
876	2019/04/04	09:32:05	59.3	57.9	57.2	57.4	59.0
881	2019/04/04	09:32:10	57.8	57.4	59.2	59.3	60.4
886	2019/04/04	09:32:15	63.1	65.9	65.1	65.2	63.9
891	2019/04/04	09:32:20	64.6	66.2	67.5	64.5	61.8
896	2019/04/04	09:32:25	63.4	64.6	64.6	64.9	66.0

- Freq Weight : A
- Time Weight : FAST
- Level Range : 40-100
- Max dB : 72.0 - 2019/04/04 09:41:48
- Level Range : 40-100
- SEL : 96.6
- Leq : 67.1
-

No.s	Date Time	(dB)				
1	2019/04/04 09:41:46	68.2	69.8	68.6	69.3	69.7
6	2019/04/04 09:41:51	70.1	69.0	68.0	67.9	66.4
11	2019/04/04 09:41:56	67.3	66.6	66.8	66.5	68.2
16	2019/04/04 09:42:01	66.8	66.7	67.3	67.1	67.5
21	2019/04/04 09:42:06	67.3	66.4	66.5	66.7	66.0
26	2019/04/04 09:42:11	65.4	66.3	65.6	65.8	65.7
31	2019/04/04 09:42:16	66.9	67.1	67.0	67.6	67.0
36	2019/04/04 09:42:21	67.7	68.3	69.0	68.6	68.4
41	2019/04/04 09:42:26	68.6	68.9	68.5	68.5	68.4
46	2019/04/04 09:42:31	68.2	68.9	68.7	68.2	67.9
51	2019/04/04 09:42:36	68.7	67.5	68.0	68.1	67.2
56	2019/04/04 09:42:41	67.6	68.0	69.2	70.0	68.9
61	2019/04/04 09:42:46	69.3	68.4	68.6	68.6	69.0
66	2019/04/04 09:42:51	67.9	68.4	68.2	67.4	67.7
71	2019/04/04 09:42:56	68.3	68.5	69.3	68.5	68.1
76	2019/04/04 09:43:01	68.4	69.0	68.7	68.3	68.7
81	2019/04/04 09:43:06	68.2	68.0	67.9	68.0	68.2
86	2019/04/04 09:43:11	67.3	68.0	67.1	67.4	67.5
91	2019/04/04 09:43:16	67.1	67.8	67.7	69.0	68.9
96	2019/04/04 09:43:21	68.9	69.1	68.4	68.9	67.8
101	2019/04/04 09:43:26	68.9	68.6	68.6	69.4	67.9
106	2019/04/04 09:43:31	68.0	68.0	68.0	66.8	66.9
111	2019/04/04 09:43:36	67.4	67.5	67.2	67.3	66.9
116	2019/04/04 09:43:41	66.2	66.6	66.1	66.0	65.9
121	2019/04/04 09:43:46	66.3	66.6	66.3	66.1	66.2
126	2019/04/04 09:43:51	66.9	66.1	66.7	66.7	66.2
131	2019/04/04 09:43:56	65.4	65.6	65.7	65.4	65.7
136	2019/04/04 09:44:01	66.0	64.3	65.1	64.8	65.3
141	2019/04/04 09:44:06	65.0	66.1	66.4	66.4	66.3
146	2019/04/04 09:44:11	66.7	67.1	68.2	66.7	67.8
151	2019/04/04 09:44:16	66.2	66.3	66.5	67.7	68.0
156	2019/04/04 09:44:21	67.9	67.3	67.0	66.6	66.6
161	2019/04/04 09:44:26	67.2	67.4	67.0	67.0	67.4
166	2019/04/04 09:44:31	67.5	67.1	67.8	68.0	67.6
171	2019/04/04 09:44:36	67.6	68.2	68.1	68.4	68.8
176	2019/04/04 09:44:41	68.8	68.0	67.8	68.4	68.1
181	2019/04/04 09:44:46	67.5	67.5	68.1	68.3	67.2
186	2019/04/04 09:44:51	67.8	66.1	65.4	65.2	64.9
191	2019/04/04 09:44:56	65.1	65.7	66.1	67.3	67.3
196	2019/04/04 09:45:01	66.9	67.1	66.0	66.7	66.5
201	2019/04/04 09:45:06	66.1	67.4	66.2	67.0	66.0
206	2019/04/04 09:45:11	66.0	65.9	65.3	65.5	65.4
211	2019/04/04 09:45:16	66.4	66.3	66.3	67.4	67.3
216	2019/04/04 09:45:21	66.6	66.7	66.6	66.8	67.8
221	2019/04/04 09:45:26	66.3	67.2	67.4	68.4	68.2
226	2019/04/04 09:45:31	69.1	67.1	67.4	67.2	66.6
231	2019/04/04 09:45:36	66.9	67.2	66.9	66.4	67.2
236	2019/04/04 09:45:41	67.0	67.5	67.4	68.2	67.7
241	2019/04/04 09:45:46	66.7	67.4	67.7	67.2	67.7
246	2019/04/04 09:45:51	68.5	67.8	68.6	68.4	68.3
251	2019/04/04 09:45:56	67.7	68.6	69.0	68.4	68.2
256	2019/04/04 09:46:01	68.6	68.6	68.2	67.9	67.2
261	2019/04/04 09:46:06	67.5	67.4	68.0	67.5	66.8
266	2019/04/04 09:46:11	66.9	67.8	67.1	67.9	69.0
271	2019/04/04 09:46:16	68.4	70.2	67.9	68.3	67.3
276	2019/04/04 09:46:21	67.0	67.6	67.6	68.1	67.2
281	2019/04/04 09:46:26	67.6	67.7	68.2	68.5	68.2
286	2019/04/04 09:46:31	68.1	68.1	68.3	68.4	68.5
291	2019/04/04 09:46:36	69.4	68.3	68.2	67.0	67.3
296	2019/04/04 09:46:41	67.2	66.9	66.9	66.2	66.8
301	2019/04/04 09:46:46	66.3	66.0	65.6	65.2	65.4
306	2019/04/04 09:46:51	65.1	64.8	67.6	67.2	67.2
311	2019/04/04 09:46:56	67.8	66.4	67.3	66.3	67.3
316	2019/04/04 09:47:01	66.9	67.5	66.8	66.8	67.2
321	2019/04/04 09:47:06	67.2	66.8	67.2	67.0	66.6
326	2019/04/04 09:47:11	66.6	67.6	68.1	68.2	68.1
331	2019/04/04 09:47:16	67.5	67.7	67.3	68.5	67.5
336	2019/04/04 09:47:21	67.8	67.4	68.7	68.7	68.0
341	2019/04/04 09:47:26	68.4	68.8	68.5	68.1	68.4
346	2019/04/04 09:47:31	67.6	67.6	67.2	67.4	67.3
351	2019/04/04 09:47:36	66.8	67.0	67.2	67.1	68.0
356	2019/04/04 09:47:41	68.8	68.5	68.3	68.0	68.3
361	2019/04/04 09:47:46	67.3	67.5	67.3	67.2	67.4
366	2019/04/04 09:47:51	67.3	66.9	67.2	67.2	67.5
371	2019/04/04 09:47:56	68.0	67.0	67.3	67.3	67.8
376	2019/04/04 09:48:01	68.1	68.2	67.2	67.0	67.3
381	2019/04/04 09:48:06	66.7	67.7	66.7	66.3	66.2
386	2019/04/04 09:48:11	66.0	66.0	66.0	65.8	66.0
391	2019/04/04 09:48:16	65.8	66.7	66.2	66.7	66.1
396	2019/04/04 09:48:21	66.0	66.4	66.4	66.4	66.9
401	2019/04/04 09:48:26	66.6	66.8	66.2	65.3	65.9
406	2019/04/04 09:48:31	66.4	64.6	64.5	64.7	64.6
411	2019/04/04 09:48:36	65.7	66.1	66.5	66.5	65.5
416	2019/04/04 09:48:41	66.6	66.0	67.1	66.8	64.8
421	2019/04/04 09:48:46	65.1	66.0	65.0	65.6	65.2

426	2019/04/04	09:48:51	66.2	65.9	66.7	67.0	66.2
431	2019/04/04	09:48:56	67.3	68.1	67.4	67.2	67.0
436	2019/04/04	09:49:01	66.2	65.9	66.5	66.3	66.4
441	2019/04/04	09:49:06	66.3	66.0	65.8	65.7	65.8
446	2019/04/04	09:49:11	65.7	66.0	65.8	65.9	66.1
451	2019/04/04	09:49:16	65.8	65.3	66.1	65.7	65.5
456	2019/04/04	09:49:21	65.2	65.8	65.4	66.1	66.6
461	2019/04/04	09:49:26	66.8	66.6	67.3	66.5	67.3
466	2019/04/04	09:49:31	67.4	67.7	67.2	67.2	67.5
471	2019/04/04	09:49:36	68.1	67.8	68.1	67.2	66.8
476	2019/04/04	09:49:41	66.5	66.7	66.6	64.9	65.7
481	2019/04/04	09:49:46	64.8	65.2	66.3	65.6	64.9
486	2019/04/04	09:49:51	66.5	64.4	65.2	64.4	65.2
491	2019/04/04	09:49:56	65.8	64.1	64.7	65.6	65.2
496	2019/04/04	09:50:01	65.6	65.5	65.3	65.7	66.7
501	2019/04/04	09:50:06	66.8	67.1	68.5	67.5	67.2
506	2019/04/04	09:50:11	67.2	67.7	67.4	66.8	67.1
511	2019/04/04	09:50:16	66.3	65.8	66.5	65.8	66.4
516	2019/04/04	09:50:21	66.6	66.1	66.1	66.2	66.3
521	2019/04/04	09:50:26	66.6	66.6	66.3	66.4	66.2
526	2019/04/04	09:50:31	66.7	67.8	67.8	67.0	66.5
531	2019/04/04	09:50:36	66.6	65.8	66.0	67.5	67.3
536	2019/04/04	09:50:41	67.3	67.4	66.7	66.4	66.4
541	2019/04/04	09:50:46	67.2	67.3	66.9	67.3	66.7
546	2019/04/04	09:50:51	67.1	66.4	67.4	67.6	67.1
551	2019/04/04	09:50:56	67.7	67.4	68.2	67.8	67.5
556	2019/04/04	09:51:01	68.1	67.4	68.0	67.9	68.0
561	2019/04/04	09:51:06	67.6	67.6	68.1	67.5	66.8
566	2019/04/04	09:51:11	67.2	68.4	68.3	67.2	66.9
571	2019/04/04	09:51:16	67.0	66.7	66.0	66.1	66.0
576	2019/04/04	09:51:21	64.9	64.8	65.4	65.0	64.7
581	2019/04/04	09:51:26	64.5	65.2	65.4	65.6	66.3
586	2019/04/04	09:51:31	66.8	66.5	67.4	67.2	67.5
591	2019/04/04	09:51:36	67.4	66.8	66.6	67.8	68.9
596	2019/04/04	09:51:41	69.7	70.2	69.0	68.7	68.4
601	2019/04/04	09:51:46	67.9	67.9	67.5	67.2	67.1
606	2019/04/04	09:51:51	67.5	68.0	67.2	67.1	67.7
611	2019/04/04	09:51:56	67.5	67.3	67.2	67.2	67.5
616	2019/04/04	09:52:01	66.8	66.5	68.0	66.6	66.0
621	2019/04/04	09:52:06	66.2	65.7	65.8	66.4	66.0
626	2019/04/04	09:52:11	67.5	67.5	68.7	68.4	66.8
631	2019/04/04	09:52:16	67.0	67.4	67.4	67.2	68.0
636	2019/04/04	09:52:21	67.9	67.9	68.0	67.3	69.4
641	2019/04/04	09:52:26	69.0	67.4	66.6	66.1	65.9
646	2019/04/04	09:52:31	66.4	67.6	67.5	68.0	68.4
651	2019/04/04	09:52:36	67.2	67.2	67.2	68.3	67.7
656	2019/04/04	09:52:41	67.7	67.3	68.8	67.7	68.0
661	2019/04/04	09:52:46	68.3	68.2	67.2	67.7	68.6
666	2019/04/04	09:52:51	69.5	69.0	69.3	68.9	68.3
671	2019/04/04	09:52:56	68.0	68.6	68.7	68.7	68.9
676	2019/04/04	09:53:01	69.4	68.8	69.1	69.9	69.3
681	2019/04/04	09:53:06	68.7	68.1	67.4	66.8	66.2
686	2019/04/04	09:53:11	67.0	66.6	66.5	65.4	64.1
691	2019/04/04	09:53:16	64.8	65.0	65.1	66.3	66.2
696	2019/04/04	09:53:21	65.2	65.5	65.9	66.2	65.9
701	2019/04/04	09:53:26	65.5	65.7	65.0	66.3	65.7
706	2019/04/04	09:53:31	65.0	66.3	65.7	66.6	66.4
711	2019/04/04	09:53:36	66.0	66.4	66.0	65.6	65.8
716	2019/04/04	09:53:41	65.5	66.3	66.0	66.6	67.0
721	2019/04/04	09:53:46	67.0	67.6	67.8	67.8	69.1
726	2019/04/04	09:53:51	67.7	68.1	68.3	67.6	68.2
731	2019/04/04	09:53:56	68.3	67.5	67.3	67.7	68.4
736	2019/04/04	09:54:01	67.7	67.3	68.2	68.8	68.3
741	2019/04/04	09:54:06	68.2	68.1	67.5	67.5	66.5
746	2019/04/04	09:54:11	66.8	66.6	66.5	66.9	66.3
751	2019/04/04	09:54:16	66.6	66.4	66.8	66.3	67.2
756	2019/04/04	09:54:21	66.6	67.1	67.1	67.8	67.0
761	2019/04/04	09:54:26	67.3	67.8	68.4	67.2	66.5
766	2019/04/04	09:54:31	66.8	65.9	65.6	65.8	65.1
771	2019/04/04	09:54:36	66.4	65.9	65.7	65.6	66.7
776	2019/04/04	09:54:41	66.1	66.6	67.9	68.4	67.7
781	2019/04/04	09:54:46	67.5	67.1	67.0	66.6	67.0
786	2019/04/04	09:54:51	67.4	67.2	67.1	65.5	66.3
791	2019/04/04	09:54:56	65.5	65.6	66.1	66.9	65.7
796	2019/04/04	09:55:01	65.6	66.4	66.2	66.4	67.0
801	2019/04/04	09:55:06	66.5	66.6	65.7	65.6	65.7
806	2019/04/04	09:55:11	65.1	65.3	66.2	67.6	67.4
811	2019/04/04	09:55:16	67.0	67.7	67.4	66.5	67.1
816	2019/04/04	09:55:21	66.6	66.8	65.0	64.8	64.9
821	2019/04/04	09:55:26	65.1	65.6	66.7	67.5	65.8
826	2019/04/04	09:55:31	66.9	66.5	66.4	66.5	67.1
831	2019/04/04	09:55:36	67.0	66.3	66.7	66.8	67.6
836	2019/04/04	09:55:41	66.7	66.8	67.4	67.5	67.7
841	2019/04/04	09:55:46	67.2	67.1	67.5	67.2	67.3
846	2019/04/04	09:55:51	66.8	67.0	67.5	67.2	66.1
851	2019/04/04	09:55:56	66.8	67.3	66.8	67.4	67.6
856	2019/04/04	09:56:01	67.4	67.7	67.6	67.4	67.5
861	2019/04/04	09:56:06	67.7	66.5	66.8	66.8	66.1
866	2019/04/04	09:56:11	67.5	67.4	67.4	67.8	68.0
871	2019/04/04	09:56:16	67.0	67.1	67.0	67.7	66.2
876	2019/04/04	09:56:21	66.8	67.6	68.3	67.8	69.1
881	2019/04/04	09:56:26	67.9	67.7	68.9	68.2	67.8
886	2019/04/04	09:56:31	67.5	67.8	68.0	68.0	67.4
891	2019/04/04	09:56:36	67.5	66.7	66.4	65.4	65.5
896	2019/04/04	09:56:41	65.1	65.1	65.0	64.4	64.5

- Freq Weight : A
- Time Weight : FAST
- Level Range : 50-110
- Max dB : 111.4 - 2009/04/01 05:50:29
- Level Range : 50-110
- SEL : 119.3
- Leq : 70.0
-

No.s	Date Time	(dB)				
1	2009/04/01 00:17:16	68.9	64.7	69.9	64.3	69.5
6	2009/04/01 00:17:31	62.0	59.5	58.5	59.3	58.8
11	2009/04/01 00:17:46	60.1	60.1	59.8	57.9*	64.0*
16	2009/04/01 00:18:01	67.6*	67.6*	64.5*	70.3*	68.3*
21	2009/04/01 00:18:16	66.0	59.9*	59.4*	59.5*	65.2*
26	2009/04/01 00:18:31	63.8*	58.4*	60.5*	67.4*	68.6*
31	2009/04/01 00:18:46	63.5*	61.2*	60.2*	58.8	61.6
36	2009/04/01 00:19:01	59.5	59.1*	58.9*	64.7*	66.2*
41	2009/04/01 00:19:16	65.8*	60.8*	58.6*	58.6*	58.9*
46	2009/04/01 00:19:31	60.9*	61.0*	62.5*	64.2*	67.5*
51	2009/04/01 00:19:46	67.2*	67.6*	69.7*	66.5*	64.1*
56	2009/04/01 00:20:01	69.6*	67.9*	61.1	61.1	62.5
61	2009/04/01 00:20:16	60.0	59.6	60.5	61.4	60.7*
66	2009/04/01 00:20:31	59.5*	60.5*	60.6*	60.5*	62.6*
71	2009/04/01 00:20:46	60.9	69.0	69.6	60.2	61.8
76	2009/04/01 00:21:01	68.7	62.8	58.1	60.1	62.1
81	2009/04/01 00:21:16	64.0	65.7	57.5	59.9	64.0
86	2009/04/01 00:21:31	65.8	61.5	58.2	61.0	64.0
91	2009/04/01 00:21:46	68.6	70.0	73.5	66.7	66.4
96	2009/04/01 00:22:01	63.6	60.2	59.5	57.8	60.7
101	2009/04/01 00:22:16	60.5	59.8	64.6	58.3	56.4
106	2009/04/01 00:22:31	56.0	60.4	56.7	55.7	56.2
111	2009/04/01 00:22:46	57.0	58.1	59.8	59.6	60.1
116	2009/04/01 00:23:01	62.2	64.9	69.6	67.6	63.1
121	2009/04/01 00:23:16	62.3	65.0	70.5	68.0	70.1
126	2009/04/01 00:23:31	65.2	66.5	65.9	66.5	72.4
131	2009/04/01 00:23:46	67.8	63.8	67.3	72.9	70.5
136	2009/04/01 00:24:01	63.4	61.3	59.8	58.0	59.8
141	2009/04/01 00:24:16	62.8	63.3	72.9	76.5	62.2
146	2009/04/01 00:24:31	60.0	60.1	63.0	59.9	60.2
151	2009/04/01 00:24:46	61.5	59.5	64.9	62.8	60.5
156	2009/04/01 00:25:01	61.2	68.7	68.0	63.4	66.5
161	2009/04/01 00:25:16	68.7	64.1	64.0	61.3	58.1
166	2009/04/01 00:25:31	60.0	60.6	66.1	68.0	69.7
171	2009/04/01 00:25:46	70.6	81.4	66.5	63.5	62.1
176	2009/04/01 00:26:01	63.0	63.0	66.6	62.4	66.0
181	2009/04/01 00:26:16	61.6	63.6	64.1	66.2	64.6
186	2009/04/01 00:26:31	63.0	65.2	59.5	58.2	57.9
191	2009/04/01 00:26:46	60.5	60.8	61.2	62.6	60.5
196	2009/04/01 00:27:01	63.6	69.9	67.5	61.5	60.1
201	2009/04/01 00:27:16	61.2	65.0	64.7	63.2	67.7
206	2009/04/01 00:27:31	62.2	57.1	59.8	61.3	65.0
211	2009/04/01 00:27:46	62.4	60.2	63.8	72.9	67.7
216	2009/04/01 00:28:01	67.9	63.6	62.8	64.5	63.0
221	2009/04/01 00:28:16	61.5	60.9	60.4	63.4	73.1
226	2009/04/01 00:28:31	70.2	65.0	60.1	56.5	57.1
231	2009/04/01 00:28:46	58.4	57.4	60.9	63.9	68.4
236	2009/04/01 00:29:01	60.1	59.1	71.2	63.9	62.8
241	2009/04/01 00:29:16	59.4	58.0	58.6	58.2	59.8
246	2009/04/01 00:29:31	63.0	68.3	66.7	64.9	65.8
251	2009/04/01 00:29:46	63.0	62.8	60.2	58.6	59.4
256	2009/04/01 00:30:01	59.0	59.5	59.7	63.9	67.2
261	2009/04/01 00:30:16	68.6	65.6	66.5	68.5	67.5
266	2009/04/01 00:30:31	67.8	62.9	62.4	61.7	60.7
271	2009/04/01 00:30:46	67.9	61.5	65.3	72.1	61.6
276	2009/04/01 00:31:01	59.2	60.8	64.5	61.1	61.6
281	2009/04/01 00:31:16	70.0	65.8	61.4	59.5	60.6
286	2009/04/01 00:31:31	60.1	58.4	59.4	60.4	59.3
291	2009/04/01 00:31:46	59.8	58.8	60.2	60.8	70.1
296	2009/04/01 00:32:01	67.2	68.9	70.5	65.9	69.1
301	2009/04/01 00:32:16	68.3	66.5	64.7	66.7	66.1
306	2009/04/01 00:32:31	64.2	63.9	63.4	67.6	77.2
311	2009/04/01 00:32:46	67.8	68.1	64.3	62.6	64.1
316	2009/04/01 00:33:01	61.9	66.8	65.1	67.8	68.4
321	2009/04/01 00:33:16	67.6	66.0	64.7	64.2	62.4
326	2009/04/01 00:33:31	61.7	60.7	61.6	60.9	60.3
331	2009/04/01 00:33:46	61.4	66.5	68.6	69.3	67.2
336	2009/04/01 00:34:01	66.2	63.9	66.9	64.5	61.1
341	2009/04/01 00:34:16	60.5	60.4	60.8	64.0	64.1
346	2009/04/01 00:34:31	61.5	61.2	62.0	65.9	66.8
351	2009/04/01 00:34:46	64.5	61.5	62.0	60.1	61.1
356	2009/04/01 00:35:01	63.7	60.3	57.9	59.2	59.2
361	2009/04/01 00:35:16	59.3	63.0	62.4	65.1	60.4
366	2009/04/01 00:35:31	62.0	60.4	60.9	61.0	61.4
371	2009/04/01 00:35:46	66.9	64.0	66.3	65.3	60.4
376	2009/04/01 00:36:01	60.0	59.7	58.1	57.6	58.8
381	2009/04/01 00:36:16	58.3	59.2	60.7	62.5	59.8
386	2009/04/01 00:36:31	63.0	68.6	67.7	62.1	60.2
391	2009/04/01 00:36:46	61.6	63.4	65.3	60.6	65.1
396	2009/04/01 00:37:01	60.4	56.5	60.5	59.9	58.8
401	2009/04/01 00:37:16	60.1	63.7	64.7	67.8	68.5
406	2009/04/01 00:37:31	63.8	67.1	63.8	65.8	62.9
411	2009/04/01 00:37:46	62.6	59.0	55.3	57.9	59.4
416	2009/04/01 00:38:01	58.8	60.5	60.6	61.7	61.2
421	2009/04/01 00:38:16	60.6	63.2	68.8	69.6	63.8

426	2009/04/01	00:38:31	61.9	60.7	63.6	60.1	60.9
431	2009/04/01	00:38:46	62.9	66.0	57.6	59.6	58.7
436	2009/04/01	00:39:01	57.5	58.2	58.7	60.3	59.5
441	2009/04/01	00:39:16	59.5	57.3	77.4	74.7	69.6
446	2009/04/01	00:39:31	70.1	66.3	62.4	59.2	60.6
451	2009/04/01	00:39:46	59.4	66.8	62.3	65.4	61.3
456	2009/04/01	00:40:01	68.1	64.0	64.7	63.6	62.1
461	2009/04/01	00:40:16	62.8	62.0	64.4	67.4	66.0
466	2009/04/01	00:40:31	68.1	64.6	65.9	62.4	58.4
471	2009/04/01	00:40:46	56.9	56.8	57.3	58.1	57.6
476	2009/04/01	00:41:01	56.9	57.5	58.1	59.9	60.2
481	2009/04/01	00:41:16	59.9	58.1	57.3	57.0	59.5
486	2009/04/01	00:41:31	61.3	65.2	69.3	65.8	69.1
491	2009/04/01	00:41:46	68.8	67.0	66.5	65.5	60.2
496	2009/04/01	00:42:01	59.6	59.5	58.0	57.4	58.2
501	2009/04/01	00:42:16	59.8	60.2	58.3	61.7	63.8
506	2009/04/01	00:42:31	65.6	61.5	62.0	62.6	66.9
511	2009/04/01	00:42:46	70.0	68.2	65.1	64.3	64.2
516	2009/04/01	00:43:01	63.0	57.6	58.2	57.8	57.5
521	2009/04/01	00:43:16	59.2	61.5	63.4	61.3	63.2
526	2009/04/01	00:43:31	65.7	65.8	62.6	61.3	63.6
531	2009/04/01	00:43:46	61.0	60.4	67.3	65.0	58.5
536	2009/04/01	00:44:01	59.5	59.2	58.5	60.8	65.3
541	2009/04/01	00:44:16	66.1	62.0	58.8	68.8	62.2
546	2009/04/01	00:44:31	58.7	58.2	59.0	58.2	56.6
551	2009/04/01	00:44:46	55.6	57.0	63.3	66.7	67.2
556	2009/04/01	00:45:01	65.6	64.6	66.8	70.4	65.7
561	2009/04/01	00:45:16	60.8	61.9	61.6	60.4	61.4
566	2009/04/01	00:45:31	60.2	62.9	68.0	59.8	60.2
571	2009/04/01	00:45:46	63.9	62.1	62.2	62.4	66.2
576	2009/04/01	00:46:01	61.4	58.6	59.3	61.3	62.8
581	2009/04/01	00:46:16	59.7	60.0	61.0	65.8	68.1
586	2009/04/01	00:46:31	67.6	70.7	68.3	68.5	69.3
591	2009/04/01	00:46:46	67.6	70.3	68.3	60.6	58.4
596	2009/04/01	00:47:01	60.7	63.3	65.9	66.5	69.2
601	2009/04/01	00:47:16	66.2	62.4	62.6	64.7	62.4
606	2009/04/01	00:47:31	59.8	60.0	66.4	67.4	68.9
611	2009/04/01	00:47:46	62.6	63.1	74.5	65.7	63.6
616	2009/04/01	00:48:01	69.8	60.6	61.9	61.0	58.9
621	2009/04/01	00:48:16	61.3	62.7	61.7	60.2	62.6
626	2009/04/01	00:48:31	66.0	69.2	69.1	68.6	64.4
631	2009/04/01	00:48:46	61.6	62.4	61.1	59.9	60.4
636	2009/04/01	00:49:01	59.0	60.1	59.5	61.4	64.8
641	2009/04/01	00:49:16	64.9	58.5	60.1	60.5	60.0
646	2009/04/01	00:49:31	59.0	65.0	63.8	67.1	67.8
651	2009/04/01	00:49:46	67.5	61.8	63.8	62.5	59.9
656	2009/04/01	00:50:01	62.1	61.3	62.8	62.7	69.8
661	2009/04/01	00:50:16	69.6	61.7	63.9	66.3	62.4
666	2009/04/01	00:50:31	64.7	61.6	62.5	66.0	64.7
671	2009/04/01	00:50:46	61.6	60.0	60.4	65.7	66.8
676	2009/04/01	00:51:01	58.8	62.6	61.3	61.2	62.3
681	2009/04/01	00:51:16	61.6	60.7	58.7	61.7	61.2
686	2009/04/01	00:51:31	60.0	62.8	68.4	68.6	61.6
691	2009/04/01	00:51:46	64.3	66.0	63.4	62.3	67.3
696	2009/04/01	00:52:01	65.5	67.0	71.4	70.2	62.6
701	2009/04/01	00:52:16	64.4	61.4	62.0	61.7	60.8
706	2009/04/01	00:52:31	63.0	64.1	59.5	60.9	64.5
711	2009/04/01	00:52:46	63.3	66.1	64.8	65.8	61.7
716	2009/04/01	00:53:01	62.6	62.4	62.6	69.6	65.3
721	2009/04/01	00:53:16	63.2	63.1	64.1	65.7	61.4
726	2009/04/01	00:53:31	61.7	60.3	62.9	68.3	68.1
731	2009/04/01	00:53:46	68.4	68.8	63.9	64.0	62.8
736	2009/04/01	00:54:01	62.6	64.2	63.5	66.0	65.9
741	2009/04/01	00:54:16	61.5	60.0	59.3	63.0	63.8
746	2009/04/01	00:54:31	64.0	60.2	60.1	59.4	59.3
751	2009/04/01	00:54:46	57.2	57.3	63.4	67.8	69.2
756	2009/04/01	00:55:01	62.8	65.1	63.3	61.3	61.0
761	2009/04/01	00:55:16	60.4	62.2	65.9	62.0	61.6
766	2009/04/01	00:55:31	64.7	62.6	59.2	60.3	59.1
771	2009/04/01	00:55:46	58.9	60.4	64.0	67.4	65.4
776	2009/04/01	00:56:01	60.9	64.8	62.8	59.7	64.0
781	2009/04/01	00:56:16	65.7	56.9	62.7	66.7	68.2
786	2009/04/01	00:56:31	64.4	59.1	62.5	63.7	66.2
791	2009/04/01	00:56:46	64.3	64.0	66.5	59.5	61.0
796	2009/04/01	00:57:01	59.0	62.1	63.8	60.6	59.5
801	2009/04/01	00:57:16	60.5	61.6	63.2	61.7	63.0
806	2009/04/01	00:57:31	60.9	58.9	61.2	57.5	58.9
811	2009/04/01	00:57:46	62.1	68.7	67.7	68.4	69.3
816	2009/04/01	00:58:01	67.7	66.8	60.9	58.4	61.1
821	2009/04/01	00:58:16	60.8	64.8	61.4	60.0	65.2
826	2009/04/01	00:58:31	61.4	65.4	66.8	63.1	62.0
831	2009/04/01	00:58:46	62.7	63.1	60.2	63.2	61.3
836	2009/04/01	00:59:01	61.5	61.9	58.9	58.5	61.2
841	2009/04/01	00:59:16	66.2	65.5	64.2	66.2	68.3
846	2009/04/01	00:59:31	67.8	63.8	63.3	65.3	66.1
851	2009/04/01	00:59:46	66.7	61.9	60.1	60.0	58.7
856	2009/04/01	01:00:01	58.5	59.6	65.6	59.7	61.7
861	2009/04/01	01:00:16	62.2	58.9	60.3	62.0	61.4
866	2009/04/01	01:00:31	67.8	78.8	72.4	67.2	65.4
871	2009/04/01	01:00:46	62.5	71.7	64.6	59.5	62.0
876	2009/04/01	01:01:01	65.2	64.3	59.9	65.0	66.9
881	2009/04/01	01:01:16	68.0	61.8	60.8	64.3	63.0
886	2009/04/01	01:01:31	61.3	62.1	59.1	63.4	65.3
891	2009/04/01	01:01:46	74.9	71.6	66.3	69.9	61.6
896	2009/04/01	01:02:01	59.7	59.2	59.0	60.4	68.3
901	2009/04/01	01:02:16	69.4	66.8	64.3	66.8	68.3
906	2009/04/01	01:02:31	70.6	69.7	64.6	62.1	64.4
911	2009/04/01	01:02:46	61.4	60.3	67.1	63.8	60.1
916	2009/04/01	01:03:01	64.0	62.3	65.0	62.1	64.3

921	2009/04/01	01:03:16	67.6	69.2	71.6	65.2	63.6
926	2009/04/01	01:03:31	65.1	61.6	60.6	65.5	71.4
931	2009/04/01	01:03:46	78.6	63.9	60.2	65.2	65.2
936	2009/04/01	01:04:01	66.8	68.9	64.3	67.4	66.5
941	2009/04/01	01:04:16	61.7	64.7	61.9	63.4	60.2
946	2009/04/01	01:04:31	61.1	64.0	70.9	69.8	66.6
951	2009/04/01	01:04:46	66.6	65.5	65.0	60.9	61.2
956	2009/04/01	01:05:01	62.4	61.6	61.2	64.2	62.1
961	2009/04/01	01:05:16	61.4	69.0	76.8	77.6	67.9
966	2009/04/01	01:05:31	64.8	61.0	65.5	65.3	66.0
971	2009/04/01	01:05:46	59.7	60.7	68.6	69.9	63.1
976	2009/04/01	01:06:01	62.1	63.8	61.6	70.5	63.7
981	2009/04/01	01:06:16	60.1	60.4	61.2	65.1	62.4
986	2009/04/01	01:06:31	66.4	61.8	65.7	63.6	66.4
991	2009/04/01	01:06:46	65.5	62.9	61.2	60.6	59.2
996	2009/04/01	01:07:01	59.2	65.9	62.3	61.2	66.5
1001	2009/04/01	01:07:16	65.4	62.2	60.7	62.6	64.1
1006	2009/04/01	01:07:31	63.7	63.1	69.8	64.8	67.4
1011	2009/04/01	01:07:46	68.1	63.9	65.3	63.3	64.8
1016	2009/04/01	01:08:01	67.7	63.6	61.7	61.5	61.2
1021	2009/04/01	01:08:16	60.4	59.2	59.1	62.6	66.0
1026	2009/04/01	01:08:31	65.5	67.1	66.8	65.2	62.5
1031	2009/04/01	01:08:46	60.8	62.5	63.8	63.5	66.5
1036	2009/04/01	01:09:01	60.7	60.6	60.0	62.4	65.3
1041	2009/04/01	01:09:16	66.1	64.2	70.2	67.2	63.9
1046	2009/04/01	01:09:31	68.5	65.1	67.1	63.4	60.6
1051	2009/04/01	01:09:46	61.4	65.6	65.4	61.0	61.0
1056	2009/04/01	01:10:01	63.7	64.9	62.3	61.6	60.8
1061	2009/04/01	01:10:16	60.9	60.3	60.7	64.4	66.2
1066	2009/04/01	01:10:31	68.7	69.5	62.8	62.6	61.9
1071	2009/04/01	01:10:46	60.9	59.8	59.1	59.3	62.1
1076	2009/04/01	01:11:01	63.0	68.4	66.9	67.9	69.9
1081	2009/04/01	01:11:16	68.1	67.1	75.0	70.1	63.1
1086	2009/04/01	01:11:31	61.7	63.7	60.9	65.4	63.5
1091	2009/04/01	01:11:46	61.0	63.0	63.3	66.7	66.7
1096	2009/04/01	01:12:01	62.2	63.4	72.8	68.8	65.6
1101	2009/04/01	01:12:16	64.0	59.3	59.8	61.2	59.9
1106	2009/04/01	01:12:31	59.6	72.6	69.1	63.2	60.1
1111	2009/04/01	01:12:46	62.1	61.9	63.8	68.2	68.5
1116	2009/04/01	01:13:01	63.8	61.3	66.4	64.0	70.9
1121	2009/04/01	01:13:16	65.6	59.4	59.0	62.5	60.3
1126	2009/04/01	01:13:31	65.0	62.4	63.7	64.6	60.4
1131	2009/04/01	01:13:46	57.8	58.4	58.5	59.1	59.3
1136	2009/04/01	01:14:01	61.8	69.0	67.6	65.7	63.1
1141	2009/04/01	01:14:16	61.5	63.1	66.9	67.1	64.9
1146	2009/04/01	01:14:31	61.5	63.8	67.9	61.5	60.5
1151	2009/04/01	01:14:46	59.6	60.2	59.6	61.2	62.1
1156	2009/04/01	01:15:01	64.8	66.2	64.2	63.5	64.4
1161	2009/04/01	01:15:16	62.0	68.1	62.7	67.9	63.2
1166	2009/04/01	01:15:31	62.1	60.8	60.9	62.6	60.1
1171	2009/04/01	01:15:46	59.6	60.1	63.4	63.1	62.6
1176	2009/04/01	01:16:01	66.4	60.9	61.5	64.7	60.1
1181	2009/04/01	01:16:16	60.6	65.1	69.8	67.6	66.7
1186	2009/04/01	01:16:31	69.8	68.1	63.6	64.6	66.7
1191	2009/04/01	01:16:46	66.5	60.4	57.7	59.0	61.7
1196	2009/04/01	01:17:01	61.2	60.9	61.3	60.9	61.1
1201	2009/04/01	01:17:16	61.3	64.4	70.1	65.0	63.6
1206	2009/04/01	01:17:31	59.7	59.5	59.4	60.3	61.1
1211	2009/04/01	01:17:46	67.3	74.2	77.3	65.9	65.0
1216	2009/04/01	01:18:01	69.5	65.0	66.1	67.5	64.3
1221	2009/04/01	01:18:16	64.2	68.1	68.8	70.2	63.5
1226	2009/04/01	01:18:31	60.9	63.3	65.0	74.0	68.8
1231	2009/04/01	01:18:46	70.4	65.0	69.5	66.7	65.5
1236	2009/04/01	01:19:01	61.9	60.9	60.8	63.8	72.0
1241	2009/04/01	01:19:16	64.5	63.5	63.1	61.8	62.0
1246	2009/04/01	01:19:31	62.2	63.2	65.1	66.9	70.1
1251	2009/04/01	01:19:46	65.5	71.2	71.5	73.6	67.4
1256	2009/04/01	01:20:01	65.1	61.8	62.8	62.1	62.2
1261	2009/04/01	01:20:16	64.8	63.6	59.9	63.2	64.9
1266	2009/04/01	01:20:31	61.9	61.1	60.8	63.7	64.9
1271	2009/04/01	01:20:46	63.0	68.4	76.6	65.4	62.2
1276	2009/04/01	01:21:01	60.9	67.2	74.5	70.3	68.7
1281	2009/04/01	01:21:16	61.5	64.0	62.5	64.3	64.9
1286	2009/04/01	01:21:31	66.1	64.5	64.7	65.1	66.1
1291	2009/04/01	01:21:46	68.7	69.0	63.3	64.8	63.0
1296	2009/04/01	01:22:01	64.1	62.6	66.1	72.2	70.6
1301	2009/04/01	01:22:16	73.7	74.5	70.2	67.1	71.9
1306	2009/04/01	01:22:31	67.6	64.4	68.3	71.3	65.1
1311	2009/04/01	01:22:46	63.8	63.1	64.5	66.2	64.0
1316	2009/04/01	01:23:01	63.4	84.8	66.6	69.4	63.4
1321	2009/04/01	01:23:16	60.8	62.5	73.5	64.1	64.5
1326	2009/04/01	01:23:31	68.4	69.0	64.1	72.8	70.6
1331	2009/04/01	01:23:46	62.2	59.4	60.9	63.1	62.3
1336	2009/04/01	01:24:01	64.4	62.9	65.7	70.4	73.0
1341	2009/04/01	01:24:16	69.9	70.6	66.8	66.5	65.5
1346	2009/04/01	01:24:31	69.5	66.6	64.8	71.0	69.0
1351	2009/04/01	01:24:46	64.4	63.7	64.9	69.6	67.0
1356	2009/04/01	01:25:01	64.7	65.0	63.3	63.1	62.6
1361	2009/04/01	01:25:16	63.0	60.3	63.1	68.4	68.3
1366	2009/04/01	01:25:31	71.9	70.1	68.3	66.4	71.4
1371	2009/04/01	01:25:46	63.1	65.0	63.2	61.9	62.2
1376	2009/04/01	01:26:01	62.6	63.3	62.0	63.8	66.7
1381	2009/04/01	01:26:16	70.9	66.4	67.6	65.9	69.7
1386	2009/04/01	01:26:31	65.0	63.6	65.2	64.5	65.1
1391	2009/04/01	01:26:46	66.9	78.5	73.6	68.7	78.7
1396	2009/04/01	01:27:01	61.1	60.8	62.2	65.2	70.4
1401	2009/04/01	01:27:16	69.4	64.1	66.3	65.2	65.7
1406	2009/04/01	01:27:31	62.1	61.1	60.4	61.7	63.7
1411	2009/04/01	01:27:46	63.8	59.9	62.9	64.2	68.6

1416	2009/04/01	01:28:01	69.5	67.3	66.4	64.1	65.4
1421	2009/04/01	01:28:16	63.0	62.0	61.6	64.9	65.3
1426	2009/04/01	01:28:31	68.4	79.0	63.0	62.4	64.7
1431	2009/04/01	01:28:46	68.6	64.7	62.9	65.0	69.9
1436	2009/04/01	01:29:01	65.1	64.0	65.8	63.2	63.1
1441	2009/04/01	01:29:16	61.9	63.7	66.3	66.4	65.8
1446	2009/04/01	01:29:31	66.7	68.0	64.5	62.1	63.9
1451	2009/04/01	01:29:46	62.3	70.4	69.4	70.8	66.1
1456	2009/04/01	01:30:01	64.3	63.4	60.7	59.3	61.1
1461	2009/04/01	01:30:16	62.6	64.4	66.6	61.6	64.3
1466	2009/04/01	01:30:31	70.8	68.0	67.3	63.0	61.3
1471	2009/04/01	01:30:46	62.6	63.3	60.3	59.5	61.2
1476	2009/04/01	01:31:01	65.4	64.0	64.1	70.1	65.6
1481	2009/04/01	01:31:16	65.3	64.6	65.2	62.0	66.1
1486	2009/04/01	01:31:31	67.9	70.5	73.1	68.0	67.8
1491	2009/04/01	01:31:46	66.7	66.6	68.3	62.6	65.0
1496	2009/04/01	01:32:01	65.5	65.3	63.9	63.8	64.4
1501	2009/04/01	01:32:16	62.9	63.7	67.4	66.3	62.1
1506	2009/04/01	01:32:31	62.6	62.2	63.9	65.7	64.2
1511	2009/04/01	01:32:46	61.8	61.4	61.5	62.5	67.9
1516	2009/04/01	01:33:01	61.4	63.0	67.3	69.3	68.8
1521	2009/04/01	01:33:16	67.5	63.1	64.6	64.8	64.9
1526	2009/04/01	01:33:31	59.0	57.9	59.8	60.7	66.0
1531	2009/04/01	01:33:46	70.0	63.0	63.6	65.2	65.2
1536	2009/04/01	01:34:01	62.0	62.2	63.7	62.2	62.1
1541	2009/04/01	01:34:16	60.8	59.9	61.3	62.5	64.9
1546	2009/04/01	01:34:31	63.7	63.8	63.7	63.0	63.4
1551	2009/04/01	01:34:46	65.8	62.1	61.7	60.4	60.5
1556	2009/04/01	01:35:01	60.2	61.1	62.9	62.5	62.2
1561	2009/04/01	01:35:16	62.6	61.3	61.1	63.5	67.7
1566	2009/04/01	01:35:31	67.8	69.1	70.5	71.1	70.6
1571	2009/04/01	01:35:46	69.3	64.9	64.6	68.0	64.9
1576	2009/04/01	01:36:01	61.5	62.0	61.9	61.1	61.2
1581	2009/04/01	01:36:16	60.3	59.7	62.1	64.9	65.9
1586	2009/04/01	01:36:31	63.3	67.3	61.4	62.8	68.4
1591	2009/04/01	01:36:46	65.1	62.3	61.3	61.3	63.3
1596	2009/04/01	01:37:01	62.7	62.6	65.5	65.6	70.1
1601	2009/04/01	01:37:16	68.5	69.3	67.1	68.5	66.0
1606	2009/04/01	01:37:31	66.5	64.6	61.1	63.3	61.9
1611	2009/04/01	01:37:46	60.3	61.1	61.7	61.8	62.4
1616	2009/04/01	01:38:01	64.6	64.0	62.4	62.4	62.2
1621	2009/04/01	01:38:16	61.9	62.1	60.1	61.5	62.8
1626	2009/04/01	01:38:31	63.4	63.3	65.1	64.0	67.1
1631	2009/04/01	01:38:46	69.4	68.1	63.1	63.1	65.0
1636	2009/04/01	01:39:01	65.0	63.0	62.5	59.8	68.1
1641	2009/04/01	01:39:16	68.8	66.5	67.4	61.0	60.7
1646	2009/04/01	01:39:31	62.4	65.7	68.5	65.1	64.3
1651	2009/04/01	01:39:46	62.0	60.0	58.7	60.7	63.1
1656	2009/04/01	01:40:01	67.5	69.2	67.8	66.0	64.4
1661	2009/04/01	01:40:16	60.0	64.7	65.6	61.1	61.6
1666	2009/04/01	01:40:31	61.7	60.7	61.7	65.2	71.8
1671	2009/04/01	01:40:46	72.8	65.3	67.9	65.8	63.9
1676	2009/04/01	01:41:01	61.8	62.4	65.7	66.4	64.9
1681	2009/04/01	01:41:16	68.4	59.9	61.8	63.4	64.4
1686	2009/04/01	01:41:31	67.6	66.3	61.7	71.5	74.3
1691	2009/04/01	01:41:46	73.2	66.7	70.2	75.5	70.1
1696	2009/04/01	01:42:01	64.2	67.5	71.3	62.3	59.9
1701	2009/04/01	01:42:16	59.8	58.8	57.6	58.4	58.9
1706	2009/04/01	01:42:31	61.9	59.1	64.6	64.0	60.5
1711	2009/04/01	01:42:46	64.6	64.2	70.4	62.2	65.8
1716	2009/04/01	01:43:01	65.6	66.2	64.9	61.6	67.3
1721	2009/04/01	01:43:16	67.8	63.2	64.1	63.9	63.3
1726	2009/04/01	01:43:31	65.5	66.0	61.7	63.6	72.9
1731	2009/04/01	01:43:46	64.7	63.4	66.8	64.0	67.1
1736	2009/04/01	01:44:01	61.6	61.9	64.2	67.3	69.1
1741	2009/04/01	01:44:16	69.5	64.0	63.5	62.8	63.1
1746	2009/04/01	01:44:31	64.9	63.8	62.7	66.9	63.9
1751	2009/04/01	01:44:46	64.8	70.2	69.5	67.1	67.8
1756	2009/04/01	01:45:01	63.0	60.5	61.3	64.0	65.5
1761	2009/04/01	01:45:16	63.8	61.9	63.0	63.5	60.2
1766	2009/04/01	01:45:31	64.1	64.1	68.4	65.2	61.2
1771	2009/04/01	01:45:46	65.9	66.5	65.9	61.4	61.7
1776	2009/04/01	01:46:01	60.8	61.0	62.0	65.8	60.9
1781	2009/04/01	01:46:16	60.1	58.9	59.1	61.4	59.8
1786	2009/04/01	01:46:31	55.0	57.5	61.7	66.1	62.9
1791	2009/04/01	01:46:46	59.0	58.6	65.8	65.3	61.7
1796	2009/04/01	01:47:01	67.3	66.5	69.9	69.4	65.5
1801	2009/04/01	01:47:16	67.5	66.3	63.2	64.3	60.6
1806	2009/04/01	01:47:31	61.8	63.7	59.8	58.4	59.5
1811	2009/04/01	01:47:46	59.0	61.0	63.0	62.3	60.4
1816	2009/04/01	01:48:01	60.6	61.3	61.1	65.1	65.0
1821	2009/04/01	01:48:16	67.9	61.9	65.7	68.9	61.9
1826	2009/04/01	01:48:31	60.9	59.8	59.4	58.9	61.9
1831	2009/04/01	01:48:46	68.2	67.4	67.2	65.0	62.5
1836	2009/04/01	01:49:01	65.7	65.6	65.0	62.8	62.3
1841	2009/04/01	01:49:16	63.6	71.2	63.8	60.1	59.1
1846	2009/04/01	01:49:31	58.8	58.4	60.6	62.6	60.3
1851	2009/04/01	01:49:46	59.3	58.6	58.8	59.7	62.6
1856	2009/04/01	01:50:01	60.1	58.8	59.1	61.2	64.2
1861	2009/04/01	01:50:16	68.3	68.1	63.7	63.1	64.6
1866	2009/04/01	01:50:31	60.0	63.4	66.9	64.7	67.7
1871	2009/04/01	01:50:46	65.4	61.8	61.2	63.9	61.0
1876	2009/04/01	01:51:01	61.3	66.4	67.1	67.5	63.3
1881	2009/04/01	01:51:16	59.3	59.0	58.4	59.5	61.9
1886	2009/04/01	01:51:31	61.3	61.2	62.4	64.4	60.2
1891	2009/04/01	01:51:46	62.2	60.0	62.1	65.3	69.4
1896	2009/04/01	01:52:01	68.3	65.2	61.6	61.4	61.1
1901	2009/04/01	01:52:16	59.3	58.7	60.1	60.9	59.5
1906	2009/04/01	01:52:31	59.9	60.0	67.3	66.3	70.6

1911	2009/04/01	01:52:46	67.9	66.7	63.0	71.2	62.6
1916	2009/04/01	01:53:01	58.8	59.9	60.6	62.7	67.1
1921	2009/04/01	01:53:16	79.7	70.8	64.6	61.7	63.4
1926	2009/04/01	01:53:31	62.7	66.8	61.5	61.3	63.6
1931	2009/04/01	01:53:46	66.5	68.4	64.7	65.3	65.5
1936	2009/04/01	01:54:01	63.3	66.4	65.9	61.4	63.0
1941	2009/04/01	01:54:16	64.4	61.6	63.1	66.6	62.6
1946	2009/04/01	01:54:31	62.4	63.4	62.1	63.3	62.4
1951	2009/04/01	01:54:46	60.1	60.6	67.0	63.4	59.4
1956	2009/04/01	01:55:01	58.2	57.8	59.6	66.6	67.9
1961	2009/04/01	01:55:16	65.1	72.8	69.0	62.9	63.1
1966	2009/04/01	01:55:31	70.2	65.3	70.9	65.0	67.4
1971	2009/04/01	01:55:46	70.6	62.5	64.1	60.4	64.8
1976	2009/04/01	01:56:01	62.1	60.6	60.8	63.7	64.4
1981	2009/04/01	01:56:16	67.3	62.9	61.5	62.2	61.6
1986	2009/04/01	01:56:31	64.5	62.9	61.6	61.7	62.4
1991	2009/04/01	01:56:46	62.8	64.1	63.2	63.5	68.4
1996	2009/04/01	01:57:01	61.4	59.4	59.0	60.2	64.8
2001	2009/04/01	01:57:16	62.8	58.9	61.0	65.1	66.0
2006	2009/04/01	01:57:31	65.5	67.9	62.4	64.8	61.5
2011	2009/04/01	01:57:46	59.8	58.9	59.5	58.7	65.7
2016	2009/04/01	01:58:01	62.3	59.7	61.8	61.0	59.3
2021	2009/04/01	01:58:16	59.2	59.0	63.5	68.9	63.0
2026	2009/04/01	01:58:31	59.7	60.9	64.1	62.4	60.6
2031	2009/04/01	01:58:46	62.6	74.7	65.4	65.5	63.0
2036	2009/04/01	01:59:01	61.9	65.0	68.4	64.5	62.7
2041	2009/04/01	01:59:16	61.1	65.4	66.0	62.3	62.0
2046	2009/04/01	01:59:31	61.9	69.9	66.5	61.5	62.3
2051	2009/04/01	01:59:46	61.6	66.1	63.4	63.0	59.0
2056	2009/04/01	02:00:01	61.7	60.1	59.6	58.4	60.6
2061	2009/04/01	02:00:16	64.0	64.3	66.4	65.7	68.3
2066	2009/04/01	02:00:31	69.1	69.1	70.3	68.0	68.0
2071	2009/04/01	02:00:46	67.2	67.6	65.9	63.0	69.4
2076	2009/04/01	02:01:01	65.0	67.5	63.8	64.8	60.9
2081	2009/04/01	02:01:16	66.9	65.1	69.9	69.0	68.8
2086	2009/04/01	02:01:31	71.9	67.9	65.7	65.9	64.5
2091	2009/04/01	02:01:46	62.5	61.9	62.3	62.4	62.8
2096	2009/04/01	02:02:01	60.1	62.3	65.2	64.5	60.8
2101	2009/04/01	02:02:16	57.9	58.4	59.0	59.8	59.5
2106	2009/04/01	02:02:31	58.2	61.3	61.7	61.1	61.4
2111	2009/04/01	02:02:46	64.8	62.1	61.1	60.8	62.9
2116	2009/04/01	02:03:01	70.3	70.2	75.1	69.4	67.9
2121	2009/04/01	02:03:16	65.9	63.7	61.3	59.9	63.4
2126	2009/04/01	02:03:31	58.8	61.1	60.1	66.9	61.0
2131	2009/04/01	02:03:46	62.0	63.3	65.1	61.7	66.5
2136	2009/04/01	02:04:01	67.6	68.4	67.3	63.9	63.3
2141	2009/04/01	02:04:16	66.6	63.5	64.1	63.5	61.8
2146	2009/04/01	02:04:31	60.7	58.5	61.5	64.4	71.3
2151	2009/04/01	02:04:46	60.8	61.6	61.8	64.7	60.5
2156	2009/04/01	02:05:01	59.2	63.5	68.9	65.7	59.3
2161	2009/04/01	02:05:16	61.8	63.9	63.2	64.7	59.3
2166	2009/04/01	02:05:31	64.7	62.3	59.5	58.8	61.7
2171	2009/04/01	02:05:46	60.2	63.2	67.9	63.0	65.1
2176	2009/04/01	02:06:01	63.0	66.0	62.4	59.4	60.5
2181	2009/04/01	02:06:16	61.7	61.5	59.7	58.9	63.0
2186	2009/04/01	02:06:31	62.0	63.7	62.7	61.3	59.4
2191	2009/04/01	02:06:46	62.2	66.8	68.8	63.2	60.6
2196	2009/04/01	02:07:01	62.3	63.3	60.2	59.6	59.7
2201	2009/04/01	02:07:16	58.3	60.3	59.3	61.2	61.9
2206	2009/04/01	02:07:31	63.5	68.5	70.5	66.0	66.5
2211	2009/04/01	02:07:46	66.2	62.6	64.4	60.1	57.7
2216	2009/04/01	02:08:01	57.2	57.4	65.6	61.3	62.0
2221	2009/04/01	02:08:16	65.7	64.1	65.5	66.3	66.0
2226	2009/04/01	02:08:31	70.6	67.8	70.2	66.1	66.3
2231	2009/04/01	02:08:46	65.4	65.0	62.7	60.4	61.0
2236	2009/04/01	02:09:01	63.1	64.8	63.1	65.2	64.5
2241	2009/04/01	02:09:16	63.3	64.4	61.3	62.3	63.6
2246	2009/04/01	02:09:31	61.8	62.1	63.7	60.3	63.6
2251	2009/04/01	02:09:46	67.7	61.9	65.3	68.0	65.5
2256	2009/04/01	02:10:01	63.4	61.9	63.4	64.4	59.7
2261	2009/04/01	02:10:16	60.7	68.5	65.0	61.7	63.4
2266	2009/04/01	02:10:31	68.0	63.2	61.2	61.8	64.8
2271	2009/04/01	02:10:46	63.7	67.2	67.3	64.3	65.9
2276	2009/04/01	02:11:01	62.4	60.8	59.6	60.3	60.9
2281	2009/04/01	02:11:16	63.8	64.2	60.9	63.4	64.4
2286	2009/04/01	02:11:31	67.3	67.9	69.8	63.6	63.1
2291	2009/04/01	02:11:46	62.9	62.3	62.0	61.5	70.5
2296	2009/04/01	02:12:01	75.2	79.4	80.1	68.4	63.5
2301	2009/04/01	02:12:16	67.2	67.4	71.5	68.1	63.3
2306	2009/04/01	02:12:31	65.5	68.3	65.8	67.3	63.3
2311	2009/04/01	02:12:46	63.0	61.1	63.4	64.4	64.5
2316	2009/04/01	02:13:01	65.6	67.3	63.2	66.0	65.1
2321	2009/04/01	02:13:16	66.6	65.7	69.8	68.6	64.0
2326	2009/04/01	02:13:31	76.9	69.7	68.9	65.2	65.5
2331	2009/04/01	02:13:46	59.6	58.8	61.1	63.1	62.0
2336	2009/04/01	02:14:01	62.7	72.6	81.1	64.8	61.8
2341	2009/04/01	02:14:16	65.6	62.4	61.2	60.9	64.6
2346	2009/04/01	02:14:31	70.1	71.1	64.1	63.6	67.1
2351	2009/04/01	02:14:46	61.9	61.4	63.8	61.3	69.8
2356	2009/04/01	02:15:01	71.5	71.4	67.3	65.0	67.7
2361	2009/04/01	02:15:16	71.0	67.4	65.1	61.3	60.2
2366	2009/04/01	02:15:31	60.4	61.9	61.7	59.5	65.5
2371	2009/04/01	02:15:46	67.1	61.5	62.6	66.8	62.6
2376	2009/04/01	02:16:01	60.4	60.4	65.1	62.0	64.2
2381	2009/04/01	02:16:16	63.6	62.6	61.4	61.7	64.7
2386	2009/04/01	02:16:31	64.8	61.1	64.4	67.4	68.8
2391	2009/04/01	02:16:46	72.2	69.8	65.0	65.0	61.6
2396	2009/04/01	02:17:01	61.1	61.8	64.2	61.9	63.0
2401	2009/04/01	02:17:16	64.1	71.6	69.6	66.5	61.1

2406	2009/04/01	02:17:31	63.7	65.6	64.1	63.1	61.8
2411	2009/04/01	02:17:46	61.7	65.8	65.5	62.6	60.1
2416	2009/04/01	02:18:01	62.0	62.8	63.4	64.8	60.9
2421	2009/04/01	02:18:16	61.8	64.7	68.1	65.2	60.7
2426	2009/04/01	02:18:31	63.9	64.1	61.5	61.0	62.7
2431	2009/04/01	02:18:46	64.5	67.8	65.4	64.2	62.9
2436	2009/04/01	02:19:01	67.7	71.9	64.4	64.6	62.5
2441	2009/04/01	02:19:16	63.3	60.9	61.6	61.2	61.4
2446	2009/04/01	02:19:31	60.3	61.1	60.1	62.7	68.6
2451	2009/04/01	02:19:46	68.7	69.0	69.3	66.0	62.4
2456	2009/04/01	02:20:01	59.8	59.7	59.2	57.8	59.3
2461	2009/04/01	02:20:16	62.1	66.3	68.7	65.2	68.1
2466	2009/04/01	02:20:31	67.0	65.8	63.2	60.2	61.4
2471	2009/04/01	02:20:46	65.6	60.8	61.4	62.1	64.4
2476	2009/04/01	02:21:01	60.8	60.8	61.5	68.4	63.3
2481	2009/04/01	02:21:16	66.2	60.9	62.1	61.7	64.9
2486	2009/04/01	02:21:31	62.1	64.9	60.6	58.8	60.8
2491	2009/04/01	02:21:46	65.8	71.0	68.1	65.1	69.1
2496	2009/04/01	02:22:01	66.6	66.7	62.3	59.3	59.5
2501	2009/04/01	02:22:16	59.5	60.4	60.5	64.4	69.3
2506	2009/04/01	02:22:31	67.9	65.5	70.4	73.5	67.6
2511	2009/04/01	02:22:46	67.8	69.0	68.5	64.7	62.8
2516	2009/04/01	02:23:01	62.7	67.0	63.8	69.7	61.2
2521	2009/04/01	02:23:16	62.2	65.9	68.2	68.3	65.5
2526	2009/04/01	02:23:31	68.0	61.5	62.3	61.9	61.9
2531	2009/04/01	02:23:46	60.6	61.3	62.6	64.1	61.3
2536	2009/04/01	02:24:01	61.7	65.0	68.5	66.3	67.2
2541	2009/04/01	02:24:16	72.6	62.9	62.1	60.8	59.9
2546	2009/04/01	02:24:31	60.1	61.1	60.3	60.2	61.2
2551	2009/04/01	02:24:46	67.0	65.2	64.5	66.1	66.6
2556	2009/04/01	02:25:01	65.6	63.9	62.4	61.7	59.6
2561	2009/04/01	02:25:16	60.2	60.1	59.7	60.1	66.1
2566	2009/04/01	02:25:31	67.3	64.3	65.7	67.9	68.6
2571	2009/04/01	02:25:46	68.4	65.6	66.3	64.6	60.6
2576	2009/04/01	02:26:01	65.1	61.2	61.2	64.6	65.8
2581	2009/04/01	02:26:16	64.0	63.3	61.7	66.3	63.3
2586	2009/04/01	02:26:31	59.3	58.9	59.5	66.3	62.7
2591	2009/04/01	02:26:46	60.8	71.2	62.2	61.5	58.6
2596	2009/04/01	02:27:01	64.1	63.4	63.4	71.4	68.9
2601	2009/04/01	02:27:16	68.6	67.2	66.9	66.6	62.9
2606	2009/04/01	02:27:31	67.2	66.6	63.9	66.8	62.3
2611	2009/04/01	02:27:46	61.6	65.9	63.4	59.7	61.7
2616	2009/04/01	02:28:01	65.8	66.0	62.0	65.2	70.3
2621	2009/04/01	02:28:16	70.3	69.3	67.6	64.6	65.2
2626	2009/04/01	02:28:31	64.1	62.2	61.2	61.5	65.2
2631	2009/04/01	02:28:46	68.8	67.0	67.6	66.8	66.9
2636	2009/04/01	02:29:01	65.2	65.4	65.1	67.8	69.8
2641	2009/04/01	02:29:16	63.8	64.2	65.6	63.1	64.6
2646	2009/04/01	02:29:31	62.8	64.6	62.5	65.6	66.2
2651	2009/04/01	02:29:46	69.9	63.3	62.4	61.7	62.6
2656	2009/04/01	02:30:01	61.9	61.6	61.1	63.4	65.0
2661	2009/04/01	02:30:16	62.9	64.9	65.5	62.3	63.2
2666	2009/04/01	02:30:31	63.4	66.3	71.7	62.8	62.9
2671	2009/04/01	02:30:46	69.0	63.7	65.0	60.8	60.6
2676	2009/04/01	02:31:01	61.0	62.2	60.2	60.9	61.8
2681	2009/04/01	02:31:16	61.3	60.9	61.2	61.6	65.9
2686	2009/04/01	02:31:31	64.8	63.4	64.6	64.7	61.3
2691	2009/04/01	02:31:46	65.4	64.6	62.1	61.8	61.5
2696	2009/04/01	02:32:01	61.5	65.6	68.7	66.0	63.0
2701	2009/04/01	02:32:16	63.9	68.7	60.2	60.1	61.6
2706	2009/04/01	02:32:31	60.9	66.6	64.3	62.2	61.9
2711	2009/04/01	02:32:46	61.4	61.6	61.8	59.5	62.3
2716	2009/04/01	02:33:01	58.6	59.6	60.0	62.8	68.8
2721	2009/04/01	02:33:16	60.2	59.1	65.2	63.9	61.5
2726	2009/04/01	02:33:31	64.9	66.7	60.8	64.3	62.9
2731	2009/04/01	02:33:46	64.9	64.5	64.7	61.8	65.6
2736	2009/04/01	02:34:01	67.0	64.9	62.8	63.0	64.2
2741	2009/04/01	02:34:16	60.6	62.9	61.7	61.4	60.7
2746	2009/04/01	02:34:31	62.8	67.1	64.2	65.5	63.3
2751	2009/04/01	02:34:46	61.4	62.6	61.8	61.7	61.4
2756	2009/04/01	02:35:01	61.7	63.3	65.2	63.5	60.7
2761	2009/04/01	02:35:16	60.4	59.8	60.6	63.3	64.6
2766	2009/04/01	02:35:31	69.0	66.7	64.5	63.3	63.2
2771	2009/04/01	02:35:46	62.4	60.9	63.5	63.7	64.5
2776	2009/04/01	02:36:01	66.5	62.4	61.7	65.1	62.7
2781	2009/04/01	02:36:16	64.6	63.2	60.6	60.4	62.0
2786	2009/04/01	02:36:31	68.3	65.7	60.9	64.0	60.2
2791	2009/04/01	02:36:46	59.6	59.7	59.7	64.5	65.0
2796	2009/04/01	02:37:01	66.0	64.3	61.3	61.7	62.4
2801	2009/04/01	02:37:16	67.5	63.8	64.9	69.9	67.0
2806	2009/04/01	02:37:31	61.9	60.4	58.7	57.8	66.2
2811	2009/04/01	02:37:46	65.7	61.6	59.6	69.7	62.3
2816	2009/04/01	02:38:01	66.2	63.3	62.4	63.8	63.0
2821	2009/04/01	02:38:16	64.8	61.0	60.9	60.4	63.1
2826	2009/04/01	02:38:31	70.7	68.1	66.6	67.0	65.1
2831	2009/04/01	02:38:46	63.9	63.9	61.5	62.8	61.1
2836	2009/04/01	02:39:01	63.0	60.3	59.9	61.4	67.8
2841	2009/04/01	02:39:16	67.1	60.5	60.9	58.8	62.0
2846	2009/04/01	02:39:31	63.9	64.4	63.3	68.6	67.0
2851	2009/04/01	02:39:46	72.9	68.4	63.7	62.7	62.8
2856	2009/04/01	02:40:01	75.3	71.0	70.3	63.7	64.3
2861	2009/04/01	02:40:16	59.7	61.3	66.1	66.9	65.5
2866	2009/04/01	02:40:31	65.6	68.1	64.3	63.7	64.9
2871	2009/04/01	02:40:46	60.8	59.5	58.2	59.9	68.7
2876	2009/04/01	02:41:01	63.7	63.8	59.2	58.0	62.0
2881	2009/04/01	02:41:16	57.6	56.7	57.1	59.0	58.9
2886	2009/04/01	02:41:31	57.9	59.8	62.0	66.1	68.6
2891	2009/04/01	02:41:46	69.7	65.2	61.5	63.1	61.4
2896	2009/04/01	02:42:01	60.3	59.0	59.8	60.5	60.0

2901	2009/04/01	02:42:16	60.0	64.3	69.0	67.2	67.2
2906	2009/04/01	02:42:31	64.1	63.9	69.0	62.2	61.4
2911	2009/04/01	02:42:46	61.2	60.5	61.0	59.4	58.6
2916	2009/04/01	02:43:01	61.6	66.5	71.1	60.7	59.7
2921	2009/04/01	02:43:16	60.9	60.8	60.9	63.5	64.9
2926	2009/04/01	02:43:31	60.5	59.9	60.7	61.2	62.6
2931	2009/04/01	02:43:46	69.1	68.9	64.1	61.5	61.4
2936	2009/04/01	02:44:01	62.8	65.9	62.4	66.6	60.9
2941	2009/04/01	02:44:16	60.9	65.3	60.9	63.6	68.3
2946	2009/04/01	02:44:31	66.6	65.2	67.0	61.6	62.0
2951	2009/04/01	02:44:46	61.0	60.9	63.4	64.3	61.5
2956	2009/04/01	02:45:01	60.8	60.5	62.6	66.5	63.3
2961	2009/04/01	02:45:16	65.3	62.7	66.2	61.4	60.9
2966	2009/04/01	02:45:31	62.2	67.3	69.9	67.0	63.1
2971	2009/04/01	02:45:46	64.2	60.7	59.2	61.9	62.7
2976	2009/04/01	02:46:01	62.2	64.0	63.9	64.0	61.1
2981	2009/04/01	02:46:16	61.3	62.3	60.0	60.9	59.9
2986	2009/04/01	02:46:31	62.6	63.0	62.2	64.8	69.1
2991	2009/04/01	02:46:46	67.7	61.7	68.8	67.1	67.3
2996	2009/04/01	02:47:01	68.8	60.3	60.1	60.6	59.0
3001	2009/04/01	02:47:16	58.8	68.3	64.6	65.2	59.9
3006	2009/04/01	02:47:31	62.0	60.9	66.2	63.7	62.5
3011	2009/04/01	02:47:46	65.9	61.5	61.1	61.9	59.4
3016	2009/04/01	02:48:01	63.7	65.1	68.8	68.0	69.0
3021	2009/04/01	02:48:16	62.5	62.7	61.2	63.6	61.8
3026	2009/04/01	02:48:31	63.4	61.8	59.0	59.4	59.2
3031	2009/04/01	02:48:46	60.7	63.6	69.4	64.2	60.3
3036	2009/04/01	02:49:01	63.4	60.9	71.4	60.5	58.9
3041	2009/04/01	02:49:16	56.5	60.0	63.7	69.1	68.0
3046	2009/04/01	02:49:31	61.7	67.5	66.8	67.9	60.4
3051	2009/04/01	02:49:46	59.0	58.7	59.1	60.4	61.6
3056	2009/04/01	02:50:01	63.4	66.6	63.8	62.4	60.1
3061	2009/04/01	02:50:16	60.7	60.3	63.0	67.0	64.7
3066	2009/04/01	02:50:31	67.1	66.6	71.6	64.9	61.4
3071	2009/04/01	02:50:46	59.9	61.8	64.1	66.5	68.7
3076	2009/04/01	02:51:01	75.0	73.4	64.8	63.4	60.4
3081	2009/04/01	02:51:16	63.1	63.9	61.5	64.2	64.7
3086	2009/04/01	02:51:31	63.5	64.6	64.3	63.3	65.5
3091	2009/04/01	02:51:46	72.0	62.3	61.9	64.2	59.8
3096	2009/04/01	02:52:01	58.5	60.0	65.9	72.3	70.3
3101	2009/04/01	02:52:16	68.9	66.4	63.2	60.0	57.5
3106	2009/04/01	02:52:31	59.0	68.6	62.9	59.3	57.0
3111	2009/04/01	02:52:46	58.2	61.9	66.5	60.9	60.0
3116	2009/04/01	02:53:01	60.4	61.2	59.1	58.3	58.6
3121	2009/04/01	02:53:16	62.6	62.6	66.1	65.8	64.5
3126	2009/04/01	02:53:31	61.6	62.8	61.7	64.1	72.6
3131	2009/04/01	02:53:46	67.0	69.7	66.8	64.7	64.6
3136	2009/04/01	02:54:01	71.4	64.3	70.3	75.6	86.1
3141	2009/04/01	02:54:16	93.4	93.4	101.5	87.4	78.3
3146	2009/04/01	02:54:31	70.2	68.6	67.2	64.7	63.3
3151	2009/04/01	02:54:46	67.4	65.4	69.6	65.9	64.7
3156	2009/04/01	02:55:01	67.1	59.6	61.6	64.2	67.3
3161	2009/04/01	02:55:16	65.7	63.2	62.1	65.0	63.0
3166	2009/04/01	02:55:31	59.1	60.5	60.0	61.5	63.1
3171	2009/04/01	02:55:46	62.2	60.8	67.1	65.7	68.9
3176	2009/04/01	02:56:01	72.7	72.3	67.4	60.9	59.5
3181	2009/04/01	02:56:16	60.8	60.3	60.3	60.0	65.5
3186	2009/04/01	02:56:31	68.6	68.5	69.3	71.0	74.7
3191	2009/04/01	02:56:46	77.1	83.8	90.1	98.3	102.6
3196	2009/04/01	02:57:01	84.4	69.0	63.0	65.0	62.6
3201	2009/04/01	02:57:16	63.8	65.7	63.3	64.8	68.4
3206	2009/04/01	02:57:31	65.7	65.5	62.8	64.4	64.9
3211	2009/04/01	02:57:46	60.6	62.3	63.9	68.1	71.2
3216	2009/04/01	02:58:01	69.5	65.8	63.7	62.8	65.1
3221	2009/04/01	02:58:16	61.7	64.7	62.9	62.0	59.6
3226	2009/04/01	02:58:31	62.5	65.8	61.9	63.1	61.0
3231	2009/04/01	02:58:46	63.6	65.2	61.3	58.8	62.2
3236	2009/04/01	02:59:01	68.9	72.7	68.6	62.9	62.9
3241	2009/04/01	02:59:16	64.4	61.8	60.5	68.8	67.1
3246	2009/04/01	02:59:31	63.5	63.5	59.0	57.6	60.6
3251	2009/04/01	02:59:46	65.5	64.6	60.3	61.7	61.2
3256	2009/04/01	03:00:01	60.1	59.6	61.4	64.8	61.2
3261	2009/04/01	03:00:16	58.9	60.2	60.8	65.2	69.0
3266	2009/04/01	03:00:31	66.7	62.2	64.1	64.1	60.6
3271	2009/04/01	03:00:46	59.6	58.9	60.4	62.2	58.6
3276	2009/04/01	03:01:01	60.5	64.1	68.8	69.4	69.7
3281	2009/04/01	03:01:16	67.3	65.7	66.5	61.1	61.5
3286	2009/04/01	03:01:31	61.1	62.4	69.4	65.3	61.0
3291	2009/04/01	03:01:46	61.8	63.1	63.9	67.7	63.7
3296	2009/04/01	03:02:01	62.5	63.6	64.4	70.3	63.4
3301	2009/04/01	03:02:16	63.0	61.9	61.0	61.6	61.3
3306	2009/04/01	03:02:31	60.0	61.7	63.4	65.2	64.5
3311	2009/04/01	03:02:46	61.4	62.7	65.4	61.8	61.5
3316	2009/04/01	03:03:01	61.8	60.0	62.0	68.8	73.9
3321	2009/04/01	03:03:16	73.9	86.9	69.3	71.8	61.9
3326	2009/04/01	03:03:31	61.5	60.5	63.0	60.1	59.5
3331	2009/04/01	03:03:46	59.8	59.8	58.4	58.3	60.4
3336	2009/04/01	03:04:01	62.7	59.9	60.3	63.5	61.5
3341	2009/04/01	03:04:16	58.7	61.9	65.6	66.2	64.4
3346	2009/04/01	03:04:31	69.6	62.9	61.0	62.9	64.9
3351	2009/04/01	03:04:46	60.1	59.8	63.9	64.7	63.8
3356	2009/04/01	03:05:01	67.4	70.8	69.5	64.5	63.9
3361	2009/04/01	03:05:16	64.4	61.4	63.5	63.9	63.1
3366	2009/04/01	03:05:31	59.5	60.8	64.7	64.4	63.7
3371	2009/04/01	03:05:46	61.8	60.2	60.4	61.1	61.7
3376	2009/04/01	03:06:01	61.7	64.1	67.3	66.4	72.2
3381	2009/04/01	03:06:16	80.9	68.8	65.5	69.3	66.1
3386	2009/04/01	03:06:31	61.1	58.9	62.7	60.4	61.5
3391	2009/04/01	03:06:46	60.3	59.9	59.0	58.7	59.9

3396	2009/04/01	03:07:01	65.2	66.1	68.6	67.3	70.6
3401	2009/04/01	03:07:16	65.9	62.3	61.2	61.0	65.0
3406	2009/04/01	03:07:31	67.1	66.0	61.9	62.7	63.7
3411	2009/04/01	03:07:46	65.4	71.9	71.5	64.3	65.6
3416	2009/04/01	03:08:01	67.3	65.2	64.4	63.5	64.5
3421	2009/04/01	03:08:16	64.7	63.6	62.1	65.1	62.6
3426	2009/04/01	03:08:31	63.5	63.4	67.7	64.3	61.0
3431	2009/04/01	03:08:46	64.1	70.4	67.8	68.7	69.1
3436	2009/04/01	03:09:01	64.5	61.1	61.6	62.7	62.4
3441	2009/04/01	03:09:16	62.4	61.7	65.8	67.5	61.9
3446	2009/04/01	03:09:31	62.8	64.7	60.3	60.9	61.5
3451	2009/04/01	03:09:46	58.9	58.4	59.2	60.1	58.8
3456	2009/04/01	03:10:01	59.6	59.5	59.0	59.6	62.8
3461	2009/04/01	03:10:16	61.8	67.3	63.4	63.6	66.2
3466	2009/04/01	03:10:31	63.0	59.2	59.7	67.8	62.5
3471	2009/04/01	03:10:46	62.0	66.4	70.6	69.4	66.6
3476	2009/04/01	03:11:01	62.6	63.4	63.7	60.4	60.8
3481	2009/04/01	03:11:16	63.4	62.6	62.4	65.1	68.5
3486	2009/04/01	03:11:31	63.9	64.7	66.0	62.3	61.0
3491	2009/04/01	03:11:46	62.9	62.1	63.0	69.4	68.8
3496	2009/04/01	03:12:01	69.7	68.9	66.8	68.4	64.4
3501	2009/04/01	03:12:16	66.7	68.5	66.3	65.1	65.5
3506	2009/04/01	03:12:31	62.0	64.9	63.4	60.3	59.9
3511	2009/04/01	03:12:46	59.5	64.7	70.6	66.0	61.5
3516	2009/04/01	03:13:01	63.2	61.8	61.8	61.4	67.4
3521	2009/04/01	03:13:16	67.3	66.5	60.6	60.4	60.2
3526	2009/04/01	03:13:31	63.9	67.2	62.2	62.8	65.5
3531	2009/04/01	03:13:46	70.0	67.9	65.4	66.2	63.5
3536	2009/04/01	03:14:01	65.9	64.0	63.7	60.7	61.0
3541	2009/04/01	03:14:16	61.5	61.0	66.1	62.9	61.5
3546	2009/04/01	03:14:31	60.7	62.4	59.2	60.4	62.8
3551	2009/04/01	03:14:46	60.2	64.5	66.5	65.8	68.8
3556	2009/04/01	03:15:01	66.6	66.6	68.6	65.9	63.0
3561	2009/04/01	03:15:16	64.3	61.9	60.6	63.1	64.0
3566	2009/04/01	03:15:31	61.7	61.1	63.3	60.6	66.2
3571	2009/04/01	03:15:46	69.3	74.9	70.4	68.8	66.1
3576	2009/04/01	03:16:01	62.7	60.3	58.8	59.5	60.4
3581	2009/04/01	03:16:16	61.0	63.1	62.7	62.9	69.3
3586	2009/04/01	03:16:31	70.4	63.6	63.4	65.4	62.9
3591	2009/04/01	03:16:46	62.4	61.4	64.1	66.0	63.5
3596	2009/04/01	03:17:01	62.8	67.8	62.4	63.0	65.0
3601	2009/04/01	03:17:16	63.3	69.2	65.3	63.3	63.7
3606	2009/04/01	03:17:31	64.8	62.5	60.8	61.1	63.7
3611	2009/04/01	03:17:46	60.7	61.2	64.1	62.9	66.5
3616	2009/04/01	03:18:01	67.4	67.5	68.9	66.0	71.4
3621	2009/04/01	03:18:16	64.2	65.4	63.7	73.8	64.5
3626	2009/04/01	03:18:31	66.8	67.1	66.0	61.7	62.3
3631	2009/04/01	03:18:46	67.1	68.9	67.3	68.0	71.4
3636	2009/04/01	03:19:01	72.4	67.4	66.8	65.7	64.3
3641	2009/04/01	03:19:16	60.7	59.5	60.4	63.3	58.8
3646	2009/04/01	03:19:31	59.4	61.0	59.8	61.1	62.6
3651	2009/04/01	03:19:46	67.7	62.6	62.2	69.4	64.3
3656	2009/04/01	03:20:01	67.4	63.9	65.8	62.9	58.4
3661	2009/04/01	03:20:16	60.2	61.7	60.7	66.2	62.4
3666	2009/04/01	03:20:31	66.4	67.0	70.9	69.2	66.4
3671	2009/04/01	03:20:46	64.2	66.4	68.5	66.0	62.6
3676	2009/04/01	03:21:01	59.5	61.2	60.3	62.1	63.8
3681	2009/04/01	03:21:16	66.1	61.6	60.7	60.3	60.6
3686	2009/04/01	03:21:31	64.3	65.0	66.6	70.2	70.5
3691	2009/04/01	03:21:46	76.2	64.1	66.3	65.8	65.3
3696	2009/04/01	03:22:01	62.0	61.5	62.9	65.6	63.4
3701	2009/04/01	03:22:16	61.7	63.3	64.7	64.8	67.0
3706	2009/04/01	03:22:31	67.6	66.0	72.2	66.1	64.6
3711	2009/04/01	03:22:46	70.2	62.4	62.9	70.9	64.2
3716	2009/04/01	03:23:01	60.8	60.0	62.2	69.0	68.3
3721	2009/04/01	03:23:16	69.9	71.9	67.9	63.4	65.4
3726	2009/04/01	03:23:31	64.8	64.1	61.4	67.4	66.1
3731	2009/04/01	03:23:46	69.4	67.9	63.7	61.0	61.2
3736	2009/04/01	03:24:01	60.2	59.7	61.7	62.9	63.9
3741	2009/04/01	03:24:16	67.0	65.0	63.7	63.0	61.1
3746	2009/04/01	03:24:31	64.7	63.3	61.5	65.5	66.2
3751	2009/04/01	03:24:46	71.3	69.4	64.7	65.2	62.4
3756	2009/04/01	03:25:01	62.4	66.6	66.4	66.1	61.5
3761	2009/04/01	03:25:16	60.8	64.5	71.8	64.6	63.1
3766	2009/04/01	03:25:31	64.1	69.6	63.5	64.1	64.1
3771	2009/04/01	03:25:46	65.7	70.0	68.8	68.8	67.1
3776	2009/04/01	03:26:01	64.9	62.0	62.0	64.6	66.5
3781	2009/04/01	03:26:16	63.2	64.3	62.8	66.8	63.3
3786	2009/04/01	03:26:31	60.5	62.1	60.9	60.1	60.8
3791	2009/04/01	03:26:46	61.9	63.2	69.7	68.2	68.2
3796	2009/04/01	03:27:01	65.4	63.8	61.9	65.8	65.4
3801	2009/04/01	03:27:16	64.7	66.9	64.5	63.8	64.5
3806	2009/04/01	03:27:31	70.0	67.1	72.1	67.7	63.0
3811	2009/04/01	03:27:46	61.2	60.3	60.4	60.1	59.7
3816	2009/04/01	03:28:01	61.3	61.5	63.9	63.4	66.9
3821	2009/04/01	03:28:16	65.6	70.2	73.1	70.5	68.1
3826	2009/04/01	03:28:31	68.0	65.7	67.4	67.8	67.7
3831	2009/04/01	03:28:46	65.8	64.7	65.1	73.9	77.8
3836	2009/04/01	03:29:01	76.7	75.8	66.6	64.4	62.6
3841	2009/04/01	03:29:16	63.2	67.4	70.9	68.9	69.0
3846	2009/04/01	03:29:31	65.8	69.3	62.0	68.2	63.7
3851	2009/04/01	03:29:46	65.7	64.6	60.8	61.2	61.8
3856	2009/04/01	03:30:01	62.4	63.7	61.7	62.4	62.6
3861	2009/04/01	03:30:16	62.3	64.7	68.5	72.2	70.1
3866	2009/04/01	03:30:31	65.6	64.5	61.5	61.3	61.1
3871	2009/04/01	03:30:46	61.7	63.4	64.7	64.1	62.6
3876	2009/04/01	03:31:01	65.6	65.2	65.7	63.4	63.4
3881	2009/04/01	03:31:16	71.9	68.8	68.6	68.4	68.8
3886	2009/04/01	03:31:31	64.7	67.0	64.5	64.2	61.9

3891	2009/04/01	03:31:46	60.7	62.3	65.6	62.5	61.1
3896	2009/04/01	03:32:01	69.9	66.0	62.6	64.5	65.5
3901	2009/04/01	03:32:16	62.6	60.4	61.0	63.6	66.9
3906	2009/04/01	03:32:31	69.6	61.9	61.9	63.5	69.2
3911	2009/04/01	03:32:46	61.5	61.1	62.2	67.2	61.2
3916	2009/04/01	03:33:01	63.0	65.8	63.3	59.8	60.2
3921	2009/04/01	03:33:16	58.9	60.4	60.3	62.6	65.0
3926	2009/04/01	03:33:31	67.5	65.5	72.0	65.5	61.4
3931	2009/04/01	03:33:46	59.8	66.3	64.9	65.4	69.2
3936	2009/04/01	03:34:01	67.4	69.4	70.3	68.5	69.6
3941	2009/04/01	03:34:16	70.6	62.6	61.7	59.9	61.7
3946	2009/04/01	03:34:31	60.7	61.9	63.7	67.6	70.1
3951	2009/04/01	03:34:46	64.5	63.3	60.1	60.3	60.5
3956	2009/04/01	03:35:01	61.1	60.6	64.5	60.2	59.8
3961	2009/04/01	03:35:16	62.0	63.6	63.0	65.7	69.3
3966	2009/04/01	03:35:31	65.6	68.0	60.9	59.1	59.6
3971	2009/04/01	03:35:46	61.1	62.3	62.0	60.4	60.1
3976	2009/04/01	03:36:01	58.6	61.1	65.6	62.4	64.2
3981	2009/04/01	03:36:16	60.5	59.8	59.1	60.6	65.1
3986	2009/04/01	03:36:31	61.8	64.4	59.6	63.3	67.9
3991	2009/04/01	03:36:46	61.8	60.2	58.2	62.3	68.4
3996	2009/04/01	03:37:01	73.0	61.1	62.2	60.5	67.1
4001	2009/04/01	03:37:16	61.8	63.7	67.8	64.7	65.0
4006	2009/04/01	03:37:31	65.1	61.6	60.7	58.7	58.4
4011	2009/04/01	03:37:46	59.3	62.1	62.0	62.1	63.9
4016	2009/04/01	03:38:01	68.1	72.7	63.4	62.2	62.2
4021	2009/04/01	03:38:16	67.3	66.9	63.5	71.4	68.5
4026	2009/04/01	03:38:31	61.1	63.8	61.2	60.0	58.7
4031	2009/04/01	03:38:46	57.3	58.1	58.9	64.7	63.9
4036	2009/04/01	03:39:01	57.2	57.8	56.9	60.2	60.1
4041	2009/04/01	03:39:16	61.1	58.9	56.5	56.2	60.4
4046	2009/04/01	03:39:31	64.1	59.2	58.5	62.6	65.6
4051	2009/04/01	03:39:46	71.3	63.0	69.2	65.5	58.9
4056	2009/04/01	03:40:01	57.8	58.0	60.2	61.6	57.5
4061	2009/04/01	03:40:16	59.6	58.9	57.8	61.1	61.1
4066	2009/04/01	03:40:31	65.4	71.7	67.6	63.6	64.4
4071	2009/04/01	03:40:46	63.8	63.3	63.0	60.6	63.6
4076	2009/04/01	03:41:01	62.6	60.0	66.4	70.3	67.5
4081	2009/04/01	03:41:16	61.8	64.4	66.4	60.5	62.6
4086	2009/04/01	03:41:31	63.4	62.8	61.1	60.4	61.7
4091	2009/04/01	03:41:46	65.7	61.7	60.5	63.1	69.5
4096	2009/04/01	03:42:01	68.8	62.8	63.8	73.2	78.0
4101	2009/04/01	03:42:16	67.9	64.1	61.0	58.1	57.8
4106	2009/04/01	03:42:31	63.5	63.7	58.4	57.3	57.7
4111	2009/04/01	03:42:46	59.1	60.2	59.2	59.9	65.6
4116	2009/04/01	03:43:01	70.7	64.9	62.2	69.7	69.6
4121	2009/04/01	03:43:16	70.6	64.6	66.3	61.4	63.3
4126	2009/04/01	03:43:31	63.1	57.2	63.3	61.2	61.4
4131	2009/04/01	03:43:46	59.7	61.0	61.3	65.3	69.0
4136	2009/04/01	03:44:01	68.1	67.6	65.3	61.8	62.6
4141	2009/04/01	03:44:16	65.4	60.8	59.5	61.6	65.1
4146	2009/04/01	03:44:31	63.2	58.5	62.8	67.6	65.9
4151	2009/04/01	03:44:46	68.9	66.1	62.4	64.7	62.2
4156	2009/04/01	03:45:01	62.4	60.3	61.3	62.7	63.3
4161	2009/04/01	03:45:16	62.8	61.7	63.2	63.5	68.5
4166	2009/04/01	03:45:31	70.1	68.5	67.7	67.5	62.8
4171	2009/04/01	03:45:46	68.6	63.4	60.4	60.2	62.8
4176	2009/04/01	03:46:01	60.9	61.4	59.4	59.3	59.7
4181	2009/04/01	03:46:16	61.9	67.9	65.2	68.8	67.3
4186	2009/04/01	03:46:31	70.3	67.0	67.5	67.9	65.2
4191	2009/04/01	03:46:46	63.2	67.7	63.4	64.7	62.4
4196	2009/04/01	03:47:01	64.9	63.2	61.8	61.0	65.3
4201	2009/04/01	03:47:16	62.0	61.5	58.4	61.5	65.1
4206	2009/04/01	03:47:31	66.7	66.5	61.5	61.1	61.6
4211	2009/04/01	03:47:46	59.8	60.1	60.8	60.1	58.3
4216	2009/04/01	03:48:01	60.6	59.6	66.3	72.9	72.0
4221	2009/04/01	03:48:16	65.3	60.8	63.7	59.7	58.9
4226	2009/04/01	03:48:31	60.4	62.6	62.4	61.6	60.3
4231	2009/04/01	03:48:46	62.9	71.3	70.0	64.8	62.8
4236	2009/04/01	03:49:01	66.6	60.5	60.9	63.5	61.1
4241	2009/04/01	03:49:16	60.2	61.2	59.7	59.8	67.6
4246	2009/04/01	03:49:31	65.0	62.3	63.6	62.7	60.7
4251	2009/04/01	03:49:46	64.2	61.4	60.5	72.7	63.0
4256	2009/04/01	03:50:01	68.3	68.7	67.7	69.6	69.1
4261	2009/04/01	03:50:16	68.4	66.1	66.9	63.4	64.6
4266	2009/04/01	03:50:31	65.0	61.2	60.6	63.5	62.5
4271	2009/04/01	03:50:46	60.6	61.2	65.8	66.0	62.9
4276	2009/04/01	03:51:01	60.5	60.1	59.9	60.7	59.5
4281	2009/04/01	03:51:16	61.7	63.7	60.1	59.0	59.5
4286	2009/04/01	03:51:31	63.2	63.4	62.9	65.4	63.6
4291	2009/04/01	03:51:46	59.3	59.7	59.3	65.3	74.7
4296	2009/04/01	03:52:01	65.2	57.7	58.9	68.4	77.5
4301	2009/04/01	03:52:16	65.0	66.8	63.5	62.9	62.3
4306	2009/04/01	03:52:31	64.7	63.2	65.8	65.5	62.0
4311	2009/04/01	03:52:46	60.0	60.0	57.4	57.4	57.9
4316	2009/04/01	03:53:01	60.0	64.1	63.8	65.0	63.3
4321	2009/04/01	03:53:16	64.8	66.5	63.2	63.0	64.1
4326	2009/04/01	03:53:31	63.9	64.6	65.8	61.4	62.2
4331	2009/04/01	03:53:46	62.8	65.1	63.6	63.5	65.3
4336	2009/04/01	03:54:01	64.2	65.5	66.7	63.1	63.2
4341	2009/04/01	03:54:16	65.3	64.8	63.2	62.7	65.3
4346	2009/04/01	03:54:31	60.2	60.9	58.2	57.9	63.8
4351	2009/04/01	03:54:46	70.4	67.5	67.6	63.0	63.5
4356	2009/04/01	03:55:01	62.2	62.1	59.2	60.1	68.9
4361	2009/04/01	03:55:16	74.4	68.3	62.3	60.8	64.6
4366	2009/04/01	03:55:31	64.3	66.4	65.2	66.1	63.2
4371	2009/04/01	03:55:46	61.7	61.9	61.9	70.6	67.2
4376	2009/04/01	03:56:01	64.5	61.4	61.4	65.4	69.2
4381	2009/04/01	03:56:16	68.5	69.4	68.3	67.5	66.1

4386	2009/04/01	03:56:31	76.3	74.2	67.0	61.1	61.5
4391	2009/04/01	03:56:46	62.7	59.6	58.5	57.2	59.7
4396	2009/04/01	03:57:01	60.7	62.6	62.7	58.8	62.0
4401	2009/04/01	03:57:16	68.3	65.1	69.2	70.4	61.2
4406	2009/04/01	03:57:31	63.5	64.4	65.2	68.5	68.3
4411	2009/04/01	03:57:46	61.6	61.0	65.5	62.4	62.1
4416	2009/04/01	03:58:01	61.3	61.0	66.5	59.5	59.2
4421	2009/04/01	03:58:16	58.0	60.9	61.5	66.2	66.2
4426	2009/04/01	03:58:31	68.6	62.0	73.1	65.4	65.3
4431	2009/04/01	03:58:46	64.3	64.8	62.6	60.3	63.0
4436	2009/04/01	03:59:01	61.3	61.6	60.4	62.2	61.1
4441	2009/04/01	03:59:16	62.4	62.9	63.6	66.8	71.0
4446	2009/04/01	03:59:31	69.7	70.2	70.9	71.1	67.2
4451	2009/04/01	03:59:46	67.8	73.6	73.5	78.7	72.3
4456	2009/04/01	04:00:01	64.4	61.7	68.6	62.1	62.1
4461	2009/04/01	04:00:16	62.0	63.0	62.4	62.3	66.5
4466	2009/04/01	04:00:31	60.5	64.4	70.0	65.1	62.9
4471	2009/04/01	04:00:46	68.1	62.3	61.7	62.5	64.9
4476	2009/04/01	04:01:01	69.6	70.6	65.9	68.9	69.1
4481	2009/04/01	04:01:16	62.8	64.1	63.3	62.4	62.1
4486	2009/04/01	04:01:31	60.1	59.8	60.4	61.0	62.4
4491	2009/04/01	04:01:46	60.5	61.0	60.1	61.5	61.8
4496	2009/04/01	04:02:01	64.2	65.1	64.5	63.3	68.9
4501	2009/04/01	04:02:16	65.7	68.9	72.1	65.1	64.8
4506	2009/04/01	04:02:31	66.9	63.1	66.2	65.0	68.2
4511	2009/04/01	04:02:46	62.4	61.2	60.4	61.0	61.4
4516	2009/04/01	04:03:01	63.2	61.9	62.4	60.9	61.1
4521	2009/04/01	04:03:16	59.6	64.3	67.6	67.6	62.6
4526	2009/04/01	04:03:31	71.2	68.8	65.2	65.2	65.4
4531	2009/04/01	04:03:46	61.8	64.7	68.7	69.0	60.5
4536	2009/04/01	04:04:01	60.3	59.8	60.6	63.7	59.1
4541	2009/04/01	04:04:16	60.3	61.5	68.1	59.7	58.3
4546	2009/04/01	04:04:31	59.0	59.4	59.6	61.2	59.6
4551	2009/04/01	04:04:46	58.6	60.8	60.2	60.8	62.8
4556	2009/04/01	04:05:01	62.8	63.9	65.8	68.5	70.6
4561	2009/04/01	04:05:16	66.3	71.2	70.7	68.1	67.8
4566	2009/04/01	04:05:31	65.7	64.4	67.0	66.7	62.1
4571	2009/04/01	04:05:46	59.4	59.0	59.7	60.6	61.7
4576	2009/04/01	04:06:01	60.4	64.1	61.2	59.3	59.8
4581	2009/04/01	04:06:16	67.2	74.9	70.0	68.6	66.7
4586	2009/04/01	04:06:31	69.4	70.5	68.5	67.5	68.5
4591	2009/04/01	04:06:46	66.5	64.1	63.8	62.2	63.2
4596	2009/04/01	04:07:01	68.0	70.5	66.6	64.5	66.8
4601	2009/04/01	04:07:16	60.1	67.5	60.6	61.0	63.0
4606	2009/04/01	04:07:31	67.5	66.7	64.1	62.6	61.5
4611	2009/04/01	04:07:46	62.7	66.5	65.4	64.0	62.5
4616	2009/04/01	04:08:01	61.6	60.9	62.3	65.1	66.2
4621	2009/04/01	04:08:16	69.6	65.4	69.2	66.7	65.1
4626	2009/04/01	04:08:31	71.4	71.1	65.0	64.5	64.1
4631	2009/04/01	04:08:46	59.6	59.0	61.1	63.0	74.9
4636	2009/04/01	04:09:01	62.4	62.9	61.5	65.4	69.3
4641	2009/04/01	04:09:16	69.8	71.3	66.7	73.3	69.3
4646	2009/04/01	04:09:31	62.6	64.2	62.5	62.0	61.5
4651	2009/04/01	04:09:46	59.9	59.0	61.7	61.7	59.9
4656	2009/04/01	04:10:01	60.4	59.2	60.0	61.7	65.3
4661	2009/04/01	04:10:16	66.2	66.4	67.7	67.4	62.5
4666	2009/04/01	04:10:31	64.2	61.9	60.1	64.2	60.8
4671	2009/04/01	04:10:46	60.8	65.1	72.3	68.9	65.9
4676	2009/04/01	04:11:01	61.3	59.7	59.7	60.4	60.8
4681	2009/04/01	04:11:16	59.9	59.4	59.6	61.0	60.6
4686	2009/04/01	04:11:31	63.6	66.8	64.8	64.7	69.3
4691	2009/04/01	04:11:46	75.8	69.4	65.1	63.4	65.0
4696	2009/04/01	04:12:01	63.8	65.0	61.9	60.4	60.1
4701	2009/04/01	04:12:16	60.3	64.4	65.0	63.6	65.5
4706	2009/04/01	04:12:31	62.9	63.4	62.7	62.6	61.4
4711	2009/04/01	04:12:46	60.9	62.1	63.2	70.1	69.7
4716	2009/04/01	04:13:01	69.0	66.6	69.2	68.7	65.9
4721	2009/04/01	04:13:16	64.5	65.0	60.9	61.3	61.3
4726	2009/04/01	04:13:31	59.5	61.0	61.4	62.0	64.4
4731	2009/04/01	04:13:46	66.4	67.8	70.3	67.3	68.3
4736	2009/04/01	04:14:01	68.8	74.9	68.4	64.4	66.0
4741	2009/04/01	04:14:16	62.5	63.0	66.1	62.8	62.5
4746	2009/04/01	04:14:31	62.4	61.3	63.7	62.4	60.6
4751	2009/04/01	04:14:46	60.1	62.8	64.5	61.0	62.6
4756	2009/04/01	04:15:01	64.5	64.4	67.2	70.8	66.1
4761	2009/04/01	04:15:16	66.8	66.2	62.5	63.4	61.0
4766	2009/04/01	04:15:31	64.0	66.5	80.3	67.2	64.1
4771	2009/04/01	04:15:46	62.7	60.3	61.5	62.9	68.8
4776	2009/04/01	04:16:01	68.7	64.5	62.9	68.2	68.7
4781	2009/04/01	04:16:16	64.8	59.2	58.4	59.1	58.1
4786	2009/04/01	04:16:31	60.7	66.6	64.9	64.3	80.0
4791	2009/04/01	04:16:46	63.5	68.6	63.8	65.5	60.8
4796	2009/04/01	04:17:01	63.2	60.0	60.8	65.8	65.1
4801	2009/04/01	04:17:16	61.9	62.8	65.4	69.0	68.0
4806	2009/04/01	04:17:31	65.8	68.8	65.7	63.9	62.1
4811	2009/04/01	04:17:46	61.8	59.5	60.1	59.6	59.9
4816	2009/04/01	04:18:01	60.9	61.2	60.7	60.4	61.5
4821	2009/04/01	04:18:16	66.6	60.4	60.9	64.0	69.0
4826	2009/04/01	04:18:31	64.1	70.4	71.2	63.3	61.4
4831	2009/04/01	04:18:46	64.0	61.2	58.6	59.4	58.8
4836	2009/04/01	04:19:01	61.2	63.9	66.1	62.6	63.4
4841	2009/04/01	04:19:16	61.9	61.2	56.8	56.4	57.0
4846	2009/04/01	04:19:31	58.6	61.7	61.5	60.1	66.8
4851	2009/04/01	04:19:46	61.4	61.2	62.6	58.9	60.7
4856	2009/04/01	04:20:01	68.2	60.8	64.7	65.3	69.0
4861	2009/04/01	04:20:16	68.6	67.2	64.0	62.2	62.8
4866	2009/04/01	04:20:31	63.4	63.1	60.1	59.2	60.3
4871	2009/04/01	04:20:46	63.2	62.5	62.0	65.8	66.2
4876	2009/04/01	04:21:01	71.8	69.4	66.6	66.3	64.8

4881	2009/04/01	04:21:16	74.0	66.4	66.7	59.7	60.3
4886	2009/04/01	04:21:31	59.9	62.8	62.4	60.7	66.0
4891	2009/04/01	04:21:46	70.5	68.5	68.3	65.2	65.4
4896	2009/04/01	04:22:01	62.9	70.5	62.9	61.9	65.2
4901	2009/04/01	04:22:16	68.8	66.4	60.5	64.6	59.3
4906	2009/04/01	04:22:31	60.1	59.2	62.0	66.9	67.8
4911	2009/04/01	04:22:46	69.9	64.7	59.7	60.1	61.5
4916	2009/04/01	04:23:01	59.6	59.2	59.2	62.7	62.4
4921	2009/04/01	04:23:16	62.5	60.1	61.6	59.5	61.1
4926	2009/04/01	04:23:31	62.2	60.2	61.9	63.4	63.4
4931	2009/04/01	04:23:46	63.1	58.8	60.8	64.9	69.3
4936	2009/04/01	04:24:01	66.9	69.2	65.9	66.3	66.9
4941	2009/04/01	04:24:16	67.6	67.1	63.2	63.8	66.7
4946	2009/04/01	04:24:31	64.7	63.8	66.4	61.4	60.2
4951	2009/04/01	04:24:46	62.6	62.2	61.6	59.3	60.6
4956	2009/04/01	04:25:01	63.4	67.8	71.9	68.8	67.2
4961	2009/04/01	04:25:16	63.4	61.1	61.1	65.0	64.0
4966	2009/04/01	04:25:31	61.6	64.1	69.2	70.7	68.3
4971	2009/04/01	04:25:46	62.0	60.2	61.4	61.4	63.9
4976	2009/04/01	04:26:01	60.6	62.0	62.0	59.1	60.0
4981	2009/04/01	04:26:16	59.7	60.1	59.4	62.0	68.2
4986	2009/04/01	04:26:31	63.4	65.2	63.0	64.2	66.7
4991	2009/04/01	04:26:46	61.9	63.5	61.2	61.6	61.8
4996	2009/04/01	04:27:01	61.2	60.5	63.8	59.7	58.8
5001	2009/04/01	04:27:16	63.8	70.1	62.7	65.6	60.5
5006	2009/04/01	04:27:31	59.6	59.3	59.7	64.6	63.5
5011	2009/04/01	04:27:46	69.1	62.6	60.6	62.5	59.0
5016	2009/04/01	04:28:01	61.4	63.2	62.2	59.2	64.6
5021	2009/04/01	04:28:16	74.1	68.2	65.8	69.7	70.5
5026	2009/04/01	04:28:31	67.5	67.7	70.1	63.5	60.2
5031	2009/04/01	04:28:46	58.6	59.2	59.6	59.2	58.9
5036	2009/04/01	04:29:01	63.9	65.6	67.5	67.2	66.7
5041	2009/04/01	04:29:16	61.8	62.3	63.8	61.5	66.1
5046	2009/04/01	04:29:31	63.6	60.0	58.7	59.8	60.9
5051	2009/04/01	04:29:46	60.4	62.9	61.9	58.2	59.4
5056	2009/04/01	04:30:01	58.9	58.7	64.5	71.6	69.3
5061	2009/04/01	04:30:16	73.4	69.9	64.4	66.0	60.6
5066	2009/04/01	04:30:31	58.9	57.9	59.1	60.1	67.4
5071	2009/04/01	04:30:46	68.9	64.8	64.9	63.0	65.5
5076	2009/04/01	04:31:01	67.9	69.3	63.8	61.8	62.7
5081	2009/04/01	04:31:16	67.7	65.1	65.1	60.8	63.8
5086	2009/04/01	04:31:31	60.6	67.8	70.2	65.6	65.7
5091	2009/04/01	04:31:46	61.6	58.2	58.1	59.1	61.3
5096	2009/04/01	04:32:01	64.3	68.6	64.7	62.9	60.3
5101	2009/04/01	04:32:16	65.0	64.7	62.4	60.3	61.9
5106	2009/04/01	04:32:31	64.1	62.6	61.9	61.7	60.1
5111	2009/04/01	04:32:46	60.6	64.5	61.4	60.4	63.6
5116	2009/04/01	04:33:01	59.1	59.0	62.1	67.1	67.4
5121	2009/04/01	04:33:16	69.4	67.3	61.9	61.8	61.9
5126	2009/04/01	04:33:31	59.4	61.5	63.7	60.4	59.9
5131	2009/04/01	04:33:46	60.4	64.4	68.0	61.8	61.5
5136	2009/04/01	04:34:01	62.5	63.2	63.9	62.3	65.8
5141	2009/04/01	04:34:16	67.1	62.4	62.5	61.4	62.7
5146	2009/04/01	04:34:31	62.9	62.9	63.5	64.4	63.0
5151	2009/04/01	04:34:46	62.5	60.8	59.0	59.0	61.6
5156	2009/04/01	04:35:01	66.8	64.1	63.0	64.7	62.0
5161	2009/04/01	04:35:16	64.6	63.3	57.6	58.4	59.0
5166	2009/04/01	04:35:31	61.4	65.2	63.8	62.1	63.4
5171	2009/04/01	04:35:46	62.0	60.8	60.8	60.3	62.4
5176	2009/04/01	04:36:01	63.0	70.4	71.3	61.3	70.8
5181	2009/04/01	04:36:16	68.1	67.3	64.3	63.2	66.8
5186	2009/04/01	04:36:31	62.2	67.1	60.0	59.7	62.0
5191	2009/04/01	04:36:46	62.2	63.1	60.6	58.0	57.9
5196	2009/04/01	04:37:01	59.3	60.9	63.0	70.7	67.3
5201	2009/04/01	04:37:16	71.2	69.2	66.3	65.9	62.9
5206	2009/04/01	04:37:31	63.2	60.6	68.9	60.3	60.0
5211	2009/04/01	04:37:46	59.4	60.6	61.0	61.3	63.6
5216	2009/04/01	04:38:01	59.4	59.7	64.2	63.7	63.4
5221	2009/04/01	04:38:16	66.3	65.6	65.8	62.9	75.9
5226	2009/04/01	04:38:31	70.0	63.8	62.0	61.1	64.4
5231	2009/04/01	04:38:46	63.3	64.1	70.3	68.4	66.3
5236	2009/04/01	04:39:01	66.2	64.1	61.0	61.6	62.6
5241	2009/04/01	04:39:16	63.3	61.5	62.6	60.4	60.6
5246	2009/04/01	04:39:31	61.4	66.1	60.6	67.6	65.5
5251	2009/04/01	04:39:46	66.2	69.0	67.3	63.7	62.6
5256	2009/04/01	04:40:01	60.5	60.4	61.3	61.8	61.5
5261	2009/04/01	04:40:16	59.9	60.3	60.4	59.9	59.3
5266	2009/04/01	04:40:31	61.2	64.1	64.2	60.3	60.4
5271	2009/04/01	04:40:46	59.9	72.8	84.3	76.0	64.4
5276	2009/04/01	04:41:01	60.1	62.5	69.4	62.4	65.1
5281	2009/04/01	04:41:16	64.4	67.9	70.7	67.9	61.8
5286	2009/04/01	04:41:31	60.3	61.7	61.1	64.9	58.4
5291	2009/04/01	04:41:46	59.9	60.1	61.6	62.4	65.3
5296	2009/04/01	04:42:01	65.3	64.9	62.7	65.3	83.9
5301	2009/04/01	04:42:16	75.2	61.8	58.9	59.5	59.3
5306	2009/04/01	04:42:31	61.0	67.0	67.1	60.8	60.3
5311	2009/04/01	04:42:46	61.7	61.1	61.9	60.6	61.8
5316	2009/04/01	04:43:01	63.2	64.3	60.9	64.0	63.1
5321	2009/04/01	04:43:16	59.8	62.2	66.4	63.1	61.5
5326	2009/04/01	04:43:31	61.2	60.2	61.0	62.2	61.4
5331	2009/04/01	04:43:46	65.3	65.8	64.7	71.9	87.0
5336	2009/04/01	04:44:01	65.9	60.3	58.9	59.1	59.1
5341	2009/04/01	04:44:16	59.4	60.3	62.1	60.9	60.6
5346	2009/04/01	04:44:31	65.2	63.4	63.7	63.3	65.3
5351	2009/04/01	04:44:46	61.9	59.9	62.6	73.8	77.6
5356	2009/04/01	04:45:01	68.3	68.0	63.5	61.1	63.7
5361	2009/04/01	04:45:16	64.1	59.3	62.0	61.3	58.7
5366	2009/04/01	04:45:31	59.3	60.2	65.7	61.2	60.0
5371	2009/04/01	04:45:46	62.0	68.3	65.4	66.7	64.3

5376	2009/04/01	04:46:01	61.7	65.8	62.8	61.4	68.9
5381	2009/04/01	04:46:16	68.0	63.4	65.0	63.2	60.2
5386	2009/04/01	04:46:31	61.8	65.5	69.8	64.1	64.6
5391	2009/04/01	04:46:46	62.5	64.5	68.8	62.4	64.9
5396	2009/04/01	04:47:01	68.7	64.9	60.9	62.1	70.2
5401	2009/04/01	04:47:16	68.3	65.4	60.2	60.1	62.2
5406	2009/04/01	04:47:31	61.0	58.3	58.2	61.4	60.0
5411	2009/04/01	04:47:46	59.2	58.2	70.8	65.1	58.1
5416	2009/04/01	04:48:01	57.5	55.3	56.9	60.3	66.6
5421	2009/04/01	04:48:16	68.3	59.8	57.2	58.7	63.3
5426	2009/04/01	04:48:31	66.1	57.9	56.7	57.2	59.3
5431	2009/04/01	04:48:46	59.1	62.2	57.9	60.4	65.3
5436	2009/04/01	04:49:01	64.2	64.8	67.3	64.7	61.3
5441	2009/04/01	04:49:16	60.1	65.9	60.7	60.8	58.6
5446	2009/04/01	04:49:31	61.1	61.0	59.5	63.5	57.7
5451	2009/04/01	04:49:46	59.8	66.0	67.0	63.0	62.3
5456	2009/04/01	04:50:01	60.7	61.9	58.9	62.6	63.8
5461	2009/04/01	04:50:16	62.6	64.4	66.2	65.1	62.0
5466	2009/04/01	04:50:31	59.5	58.3	59.6	61.0	59.2
5471	2009/04/01	04:50:46	66.0	66.8	70.5	63.7	63.4
5476	2009/04/01	04:51:01	67.9	61.4	58.9	57.9	61.5
5481	2009/04/01	04:51:16	63.3	58.7	58.1	64.4	67.0
5486	2009/04/01	04:51:31	69.0	61.1	63.2	63.2	59.3
5491	2009/04/01	04:51:46	58.3	59.7	59.8	57.7	60.2
5496	2009/04/01	04:52:01	59.3	60.1	61.4	67.0	67.6
5501	2009/04/01	04:52:16	60.8	61.7	62.6	58.3	56.7
5506	2009/04/01	04:52:31	55.6	57.9	61.4	60.0	60.8
5511	2009/04/01	04:52:46	63.0	70.7	69.3	64.9	62.1
5516	2009/04/01	04:53:01	61.1	61.7	57.5	59.4	60.6
5521	2009/04/01	04:53:16	64.5	63.6	68.2	67.0	58.7
5526	2009/04/01	04:53:31	62.1	59.0	58.1	57.0	58.7
5531	2009/04/01	04:53:46	67.1	66.6	68.7	65.2	63.9
5536	2009/04/01	04:54:01	61.2	60.9	61.9	64.3	73.3
5541	2009/04/01	04:54:16	64.9	61.9	66.1	61.8	60.8
5546	2009/04/01	04:54:31	65.5	58.9	60.4	61.4	57.0
5551	2009/04/01	04:54:46	59.3	68.8	71.2	61.5	58.7
5556	2009/04/01	04:55:01	60.5	62.1	58.1	56.8	57.1
5561	2009/04/01	04:55:16	58.6	59.9	63.2	63.4	58.3
5566	2009/04/01	04:55:31	64.7	65.5	69.8	66.2	62.0
5571	2009/04/01	04:55:46	63.7	62.0	63.2	59.8	61.7
5576	2009/04/01	04:56:01	61.5	59.2	58.4	57.3	62.5
5581	2009/04/01	04:56:16	63.8	69.7	67.2	68.1	67.4
5586	2009/04/01	04:56:31	70.5	70.5	68.4	66.0	64.5
5591	2009/04/01	04:56:46	62.2	61.3	59.2	59.1	62.8
5596	2009/04/01	04:57:01	62.0	60.0	61.4	62.6	63.6
5601	2009/04/01	04:57:16	63.8	62.9	63.3	65.9	60.6
5606	2009/04/01	04:57:31	63.0	61.5	60.5	63.0	62.4
5611	2009/04/01	04:57:46	62.2	58.6	59.9	61.0	62.9
5616	2009/04/01	04:58:01	60.5	58.9	55.5	57.4	60.0
5621	2009/04/01	04:58:16	64.1	67.6	59.4	63.3	63.3
5626	2009/04/01	04:58:31	60.4	56.9	62.1	63.8	61.8
5631	2009/04/01	04:58:46	62.4	60.3	58.1	60.2	59.1
5636	2009/04/01	04:59:01	56.3	55.6	55.6	59.5	68.7
5641	2009/04/01	04:59:16	59.6	68.2	66.8	65.4	62.8
5646	2009/04/01	04:59:31	63.8	62.8	59.0	60.1	65.3
5651	2009/04/01	04:59:46	60.9	60.7	60.5	64.3	70.6
5656	2009/04/01	05:00:01	67.9	62.4	72.5	67.0	64.6
5661	2009/04/01	05:00:16	60.7	60.7	60.9	61.1	59.8
5666	2009/04/01	05:00:31	62.0	62.9	62.3	62.4	60.1
5671	2009/04/01	05:00:46	61.7	60.9	60.9	66.5	60.5
5676	2009/04/01	05:01:01	58.5	66.3	63.5	65.7	58.2
5681	2009/04/01	05:01:16	60.8	66.0	66.8	65.0	61.8
5686	2009/04/01	05:01:31	63.1	64.5	63.2	58.6	59.4
5691	2009/04/01	05:01:46	61.1	57.1	59.6	60.0	62.6
5696	2009/04/01	05:02:01	63.7	71.7	64.1	68.2	65.8
5701	2009/04/01	05:02:16	65.5	62.5	59.0	56.1	57.9
5706	2009/04/01	05:02:31	59.2	62.6	60.6	62.4	59.3
5711	2009/04/01	05:02:46	58.5	61.2	61.4	60.9	72.0
5716	2009/04/01	05:03:01	63.8	65.7	69.7	62.1	58.8
5721	2009/04/01	05:03:16	57.6	57.7	56.5	57.9	57.7
5726	2009/04/01	05:03:31	62.3	61.4	61.3	67.4	68.3
5731	2009/04/01	05:03:46	59.7	61.8	60.4	61.4	62.2
5736	2009/04/01	05:04:01	62.7	60.8	60.5	60.4	60.8
5741	2009/04/01	05:04:16	72.6	69.2	71.6	70.7	63.6
5746	2009/04/01	05:04:31	64.5	63.0	58.1	57.3	63.6
5751	2009/04/01	05:04:46	69.4	66.8	63.8	64.3	62.1
5756	2009/04/01	05:05:01	66.4	62.7	64.8	61.3	60.0
5761	2009/04/01	05:05:16	57.7	60.7	61.1	59.5	63.2
5766	2009/04/01	05:05:31	60.3	65.6	62.0	57.3	58.9
5771	2009/04/01	05:05:46	63.1	67.2	66.0	66.0	62.1
5776	2009/04/01	05:06:01	63.5	66.9	62.4	61.8	64.3
5781	2009/04/01	05:06:16	64.0	69.2	68.6	65.1	63.8
5786	2009/04/01	05:06:31	61.4	59.6	62.5	64.7	64.4
5791	2009/04/01	05:06:46	62.7	69.5	67.7	60.5	60.4
5796	2009/04/01	05:07:01	60.7	60.0	59.6	62.3	64.5
5801	2009/04/01	05:07:16	58.7	59.6	57.5	56.9	58.5
5806	2009/04/01	05:07:31	65.0	65.9	66.4	68.8	60.7
5811	2009/04/01	05:07:46	68.6	66.8	61.1	59.6	59.0
5816	2009/04/01	05:08:01	61.3	63.3	57.9	59.9	70.5
5821	2009/04/01	05:08:16	78.7	65.1	61.2	61.1	63.3
5826	2009/04/01	05:08:31	63.1	64.0	64.6	59.7	60.5
5831	2009/04/01	05:08:46	59.7	58.2	60.5	63.7	60.0
5836	2009/04/01	05:09:01	66.5	60.3	66.3	66.9	65.8
5841	2009/04/01	05:09:16	69.3	66.6	61.6	61.0	63.4
5846	2009/04/01	05:09:31	58.5	56.3	59.8	56.1	57.1
5851	2009/04/01	05:09:46	57.0	57.2	63.0	62.7	66.6
5856	2009/04/01	05:10:01	66.1	66.7	61.8	58.8	57.8
5861	2009/04/01	05:10:16	58.2	62.7	60.8	58.6	64.3
5866	2009/04/01	05:10:31	64.4	56.6	56.7	57.4	61.2

5871	2009/04/01	05:10:46	61.0	57.3	55.8	57.5	57.5
5876	2009/04/01	05:11:01	59.4	64.4	64.8	60.5	58.9
5881	2009/04/01	05:11:16	66.6	63.4	65.6	65.3	66.5
5886	2009/04/01	05:11:31	68.6	59.1	61.5	68.2	64.6
5891	2009/04/01	05:11:46	62.5	55.8	54.9	56.6	57.5
5896	2009/04/01	05:12:01	59.9	61.4	63.5	63.7	60.4
5901	2009/04/01	05:12:16	59.6	63.7	62.9	67.8	63.7
5906	2009/04/01	05:12:31	64.7	61.1	59.7	58.4	59.2
5911	2009/04/01	05:12:46	56.7	62.1	58.6	60.4	64.9
5916	2009/04/01	05:13:01	63.8	57.7	60.3	65.2	62.0
5921	2009/04/01	05:13:16	56.4	58.2	58.5	59.8	67.3
5926	2009/04/01	05:13:31	63.4	61.3	59.2	62.7	65.5
5931	2009/04/01	05:13:46	65.0	64.6	66.3	60.9	62.0
5936	2009/04/01	05:14:01	59.5	56.8	61.3	67.5	63.5
5941	2009/04/01	05:14:16	68.3	66.6	64.5	60.0	63.3
5946	2009/04/01	05:14:31	62.0	59.5	59.1	58.4	59.2
5951	2009/04/01	05:14:46	61.4	69.1	64.6	68.9	66.7
5956	2009/04/01	05:15:01	63.1	59.4	65.2	63.7	57.4
5961	2009/04/01	05:15:16	60.1	65.2	59.7	67.0	62.0
5966	2009/04/01	05:15:31	65.6	60.4	63.7	68.3	58.2
5971	2009/04/01	05:15:46	61.3	66.2	59.8	58.5	60.7
5976	2009/04/01	05:16:01	64.6	64.2	60.4	57.7	60.0
5981	2009/04/01	05:16:16	59.6	58.8	57.9	58.4	63.7
5986	2009/04/01	05:16:31	72.0	68.2	62.9	62.5	60.2
5991	2009/04/01	05:16:46	59.5	61.3	64.0	64.8	59.7
5996	2009/04/01	05:17:01	59.2	58.6	60.6	65.1	70.1
6001	2009/04/01	05:17:16	69.9	64.5	63.4	62.8	62.6
6006	2009/04/01	05:17:31	59.3	63.2	61.5	64.0	67.9
6011	2009/04/01	05:17:46	84.6	62.5	64.3	62.7	57.4
6016	2009/04/01	05:18:01	61.3	65.2	67.8	64.4	61.8
6021	2009/04/01	05:18:16	59.5	65.4	61.2	58.1	57.4
6026	2009/04/01	05:18:31	59.7	61.4	66.6	57.2	58.2
6031	2009/04/01	05:18:46	63.0	72.1	66.7	70.8	66.9
6036	2009/04/01	05:19:01	60.5	66.3	61.7	62.1	57.5
6041	2009/04/01	05:19:16	66.9	57.6	57.8	57.9	61.8
6046	2009/04/01	05:19:31	62.9	64.6	61.4	63.2	63.7
6051	2009/04/01	05:19:46	70.1	74.4	68.5	68.0	71.0
6056	2009/04/01	05:20:01	74.2	70.0	66.4	66.6	70.3
6061	2009/04/01	05:20:16	65.2	64.1	65.9	68.5	65.2
6066	2009/04/01	05:20:31	72.0	70.4	65.5	61.7	60.3
6071	2009/04/01	05:20:46	65.9	71.1	74.7	72.5	72.9
6076	2009/04/01	05:21:01	77.9	68.9	61.9	59.4	57.4
6081	2009/04/01	05:21:16	59.7	62.5	60.6	60.5	62.6
6086	2009/04/01	05:21:31	60.8	60.7	58.4	58.8	61.3
6091	2009/04/01	05:21:46	63.8	59.9	57.5	57.3	58.6
6096	2009/04/01	05:22:01	64.6	70.2	67.8	67.6	68.3
6101	2009/04/01	05:22:16	71.1	68.3	65.8	66.3	65.0
6106	2009/04/01	05:22:31	62.2	62.5	61.7	61.4	63.2
6111	2009/04/01	05:22:46	63.3	61.9	65.3	65.8	62.9
6116	2009/04/01	05:23:01	62.9	65.4	64.3	62.2	60.5
6121	2009/04/01	05:23:16	58.2	55.4	59.1	64.6	70.1
6126	2009/04/01	05:23:31	64.5	62.3	64.9	66.6	68.0
6131	2009/04/01	05:23:46	60.9	60.8	67.1	63.6	62.3
6136	2009/04/01	05:24:01	66.6	69.2	61.0	63.3	71.2
6141	2009/04/01	05:24:16	66.2	61.2	61.8	61.1	60.6
6146	2009/04/01	05:24:31	61.9	59.6	57.7	57.6	59.9
6151	2009/04/01	05:24:46	60.2	58.9	58.1	59.0	61.3
6156	2009/04/01	05:25:01	61.4	60.8	66.2	61.5	65.6
6161	2009/04/01	05:25:16	75.3	67.3	68.7	64.9	64.7
6166	2009/04/01	05:25:31	63.5	63.8	64.4	61.1	59.9
6171	2009/04/01	05:25:46	58.5	58.5	63.3	70.4	67.0
6176	2009/04/01	05:26:01	62.5	63.4	64.5	64.6	61.8
6181	2009/04/01	05:26:16	66.7	59.9	60.5	61.6	61.4
6186	2009/04/01	05:26:31	61.2	61.0	60.5	59.8	57.7
6191	2009/04/01	05:26:46	58.0	60.6	61.3	67.5	68.7
6196	2009/04/01	05:27:01	72.8	74.5	69.7	69.3	65.3
6201	2009/04/01	05:27:16	66.4	67.2	64.8	69.1	66.7
6206	2009/04/01	05:27:31	65.8	61.3	61.0	60.5	59.8
6211	2009/04/01	05:27:46	62.0	65.8	67.1	68.0	67.0
6216	2009/04/01	05:28:01	60.2	62.3	61.9	60.0	63.5
6221	2009/04/01	05:28:16	66.8	63.5	68.1	70.2	67.8
6226	2009/04/01	05:28:31	72.7	65.9	63.1	63.3	60.5
6231	2009/04/01	05:28:46	58.0	59.8	59.8	59.8	58.1
6236	2009/04/01	05:29:01	61.9	68.0	70.6	70.5	66.2
6241	2009/04/01	05:29:16	66.5	65.8	62.4	61.1	59.4
6246	2009/04/01	05:29:31	56.5	55.8	54.1	55.9	54.8
6251	2009/04/01	05:29:46	57.8	64.2	69.1	68.8	65.1
6256	2009/04/01	05:30:01	62.6	64.8	62.4	65.4	60.1
6261	2009/04/01	05:30:16	59.0	58.4	65.7	64.1	60.0
6266	2009/04/01	05:30:31	59.1	61.8	57.5	60.2	62.7
6271	2009/04/01	05:30:46	59.5	62.1	67.7	69.9	69.5
6276	2009/04/01	05:31:01	62.3	59.0	58.9	60.3	61.1
6281	2009/04/01	05:31:16	59.0	57.3	59.1	62.5	61.9
6286	2009/04/01	05:31:31	65.9	61.3	57.3	62.2	60.3
6291	2009/04/01	05:31:46	59.1	57.3	63.8	68.7	69.3
6296	2009/04/01	05:32:01	68.1	62.2	60.6	61.4	59.4
6301	2009/04/01	05:32:16	60.7	64.2	61.4	59.5	59.1
6306	2009/04/01	05:32:31	61.2	62.5	64.5	66.8	61.0
6311	2009/04/01	05:32:46	56.7	55.9	58.9	63.2	64.4
6316	2009/04/01	05:33:01	57.9	57.5	59.1	56.8	56.9
6321	2009/04/01	05:33:16	58.2	61.2	60.0	60.2	60.2
6326	2009/04/01	05:33:31	58.4	60.4	64.6	73.1	83.4
6331	2009/04/01	05:33:46	69.5	62.4	64.1	63.3	64.7
6336	2009/04/01	05:34:01	61.8	61.7	65.1	64.6	63.1
6341	2009/04/01	05:34:16	58.0	56.1	58.9	58.9	60.1
6346	2009/04/01	05:34:31	62.9	60.5	62.6	64.7	75.3
6351	2009/04/01	05:34:46	72.1	58.9	57.0	62.0	69.4
6356	2009/04/01	05:35:01	69.0	59.5	63.6	61.2	57.4
6361	2009/04/01	05:35:16	55.2	56.0	58.5	58.5	59.6

6366	2009/04/01	05:35:31	58.6	59.0	60.6	62.1	67.9
6371	2009/04/01	05:35:46	62.9	63.3	56.3	57.7	64.2
6376	2009/04/01	05:36:01	58.2	61.1	64.2	59.7	56.8
6381	2009/04/01	05:36:16	57.5	60.9	64.6	59.6	58.1
6386	2009/04/01	05:36:31	56.4	61.2	62.0	65.9	60.8
6391	2009/04/01	05:36:46	64.7	63.6	60.7	57.0	62.8
6396	2009/04/01	05:37:01	64.6	62.8	57.2	60.6	60.8
6401	2009/04/01	05:37:16	60.7	65.1	60.3	61.5	62.1
6406	2009/04/01	05:37:31	67.0	67.6	64.9	65.3	62.5
6411	2009/04/01	05:37:46	58.2	56.9	56.5	55.6	54.3
6416	2009/04/01	05:38:01	55.7	57.1	57.0	60.6	65.6
6421	2009/04/01	05:38:16	69.0	65.4	60.0	62.6	62.1
6426	2009/04/01	05:38:31	59.0	59.0	61.9	64.4	64.1
6431	2009/04/01	05:38:46	67.2	65.4	66.3	60.2	57.7
6436	2009/04/01	05:39:01	60.5	67.0	63.2	59.8	57.1
6441	2009/04/01	05:39:16	59.7	61.1	60.2	66.5	62.5
6446	2009/04/01	05:39:31	65.2	68.5	63.4	62.9	64.0
6451	2009/04/01	05:39:46	59.2	60.1	63.0	63.9	66.1
6456	2009/04/01	05:40:01	69.5	70.6	71.4	61.9	64.3
6461	2009/04/01	05:40:16	61.5	57.8	57.7	57.9	58.7
6466	2009/04/01	05:40:31	63.7	67.8	63.8	66.7	63.0
6471	2009/04/01	05:40:46	59.2	57.9	57.6	60.1	59.5
6476	2009/04/01	05:41:01	58.4	60.8	57.9	60.6	68.7
6481	2009/04/01	05:41:16	62.3	59.3	58.1	61.3	66.7
6486	2009/04/01	05:41:31	65.7	65.6	58.9	59.8	58.9
6491	2009/04/01	05:41:46	59.1	57.1	64.5	61.5	67.1
6496	2009/04/01	05:42:01	64.6	60.1	64.1	67.4	66.2
6501	2009/04/01	05:42:16	61.5	56.3	55.4	55.1	56.0
6506	2009/04/01	05:42:31	64.6	64.3	59.0	60.9	62.9
6511	2009/04/01	05:42:46	56.7	59.2	60.5	59.1	64.6
6516	2009/04/01	05:43:01	61.2	64.5	63.2	62.1	59.0
6521	2009/04/01	05:43:16	62.9	70.1	69.7	67.9	68.9
6526	2009/04/01	05:43:31	61.9	61.7	66.7	62.3	61.2
6531	2009/04/01	05:43:46	59.8	59.5	63.3	59.6	58.9
6536	2009/04/01	05:44:01	58.2	58.5	57.1	57.3	58.2
6541	2009/04/01	05:44:16	67.0	70.5	64.3	63.7	61.0
6546	2009/04/01	05:44:31	63.0	65.6	61.3	59.0	60.9
6551	2009/04/01	05:44:46	65.8	60.1	59.0	58.8	59.7
6556	2009/04/01	05:45:01	57.9	58.5	64.6	66.5	68.0
6561	2009/04/01	05:45:16	67.0	64.3	63.2	67.7	64.6
6566	2009/04/01	05:45:31	63.9	62.8	60.2	74.9	79.0
6571	2009/04/01	05:45:46	64.9	62.7	63.0	67.8	69.7
6576	2009/04/01	05:46:01	61.1	59.2	61.1	65.5	66.3
6581	2009/04/01	05:46:16	60.4	64.5	64.0	64.4	61.2
6586	2009/04/01	05:46:31	62.1	63.6	62.6	67.8	66.4
6591	2009/04/01	05:46:46	62.9	68.8	71.9	73.7	67.8
6596	2009/04/01	05:47:01	64.0	64.0	70.3	59.8	62.4
6601	2009/04/01	05:47:16	62.2	63.9	57.9	62.2	64.7
6606	2009/04/01	05:47:31	61.9	62.8	60.0	58.8	59.8
6611	2009/04/01	05:47:46	63.6	68.8	64.2	67.7	60.2
6616	2009/04/01	05:48:01	58.3	57.4	58.7	57.1	57.7
6621	2009/04/01	05:48:16	61.5	63.4	59.2	59.9	59.7
6626	2009/04/01	05:48:31	62.7	60.2	59.0	57.8	60.5
6631	2009/04/01	05:48:46	58.5	58.2	58.3	58.0	64.5
6636	2009/04/01	05:49:01	65.8	67.0	67.0	63.4	60.1
6641	2009/04/01	05:49:16	62.8	60.9	60.6	64.9	65.3
6646	2009/04/01	05:49:31	65.5	64.7	62.0	60.3	58.0
6651	2009/04/01	05:49:46	60.7	64.4	69.1	69.6	65.2
6656	2009/04/01	05:50:01	72.2	68.4	76.1	80.2	86.3
6661	2009/04/01	05:50:16	94.6	94.8	99.1	107.3	92.1
6666	2009/04/01	05:50:31	72.5	68.5	72.8	68.4	64.3
6671	2009/04/01	05:50:46	67.7	61.4	63.2	59.2	62.1
6676	2009/04/01	05:51:01	60.9	60.9	61.8	62.3	67.7
6681	2009/04/01	05:51:16	70.4	72.2	68.4	69.4	70.7
6686	2009/04/01	05:51:31	82.3	78.3	88.9	75.1	63.6
6691	2009/04/01	05:51:46	61.2	64.3	65.5	61.2	63.2
6696	2009/04/01	05:52:01	74.6	69.2	70.1	75.9	68.7
6701	2009/04/01	05:52:16	78.5	74.5	91.0	97.3	67.1
6706	2009/04/01	05:52:31	70.3	60.4	60.6	62.3	61.8
6711	2009/04/01	05:52:46	62.6	62.1	58.2	59.3	67.1
6716	2009/04/01	05:53:01	68.4	67.6	68.3	65.6	64.5
6721	2009/04/01	05:53:16	67.0	65.4	66.3	61.0	61.1
6726	2009/04/01	05:53:31	61.6	60.8	60.9	65.7	70.6
6731	2009/04/01	05:53:46	67.3	64.2	64.2	64.1	65.5
6736	2009/04/01	05:54:01	64.4	62.3	61.6	60.3	59.3
6741	2009/04/01	05:54:16	62.3	61.5	72.8	73.6	64.7
6746	2009/04/01	05:54:31	68.5	65.1	63.1	64.0	66.6
6751	2009/04/01	05:54:46	61.5	59.7	60.3	62.0	64.7
6756	2009/04/01	05:55:01	62.6	60.1	60.2	64.8	61.8
6761	2009/04/01	05:55:16	62.1	58.0	59.5	62.3	67.3
6766	2009/04/01	05:55:31	66.2	64.0	64.9	60.9	61.5
6771	2009/04/01	05:55:46	63.1	62.3	63.0	60.4	59.1
6776	2009/04/01	05:56:01	58.4	59.8	59.9	60.5	63.1
6781	2009/04/01	05:56:16	58.9	56.8	61.8	63.9	70.7
6786	2009/04/01	05:56:31	62.5	62.6	65.4	62.9	59.9
6791	2009/04/01	05:56:46	66.3	58.8	57.6	58.5	63.6
6796	2009/04/01	05:57:01	59.1	59.5	64.2	59.4	57.0
6801	2009/04/01	05:57:16	56.7	54.6	59.9	67.2	65.3
6806	2009/04/01	05:57:31	69.0	66.5	67.1	64.4	59.0
6811	2009/04/01	05:57:46	57.8	56.1	56.8	58.0	62.1
6816	2009/04/01	05:58:01	67.6	63.7	65.7	66.0	62.7
6821	2009/04/01	05:58:16	65.4	65.6	60.9	60.2	58.7
6826	2009/04/01	05:58:31	59.1	62.7	63.0	65.1	65.8
6831	2009/04/01	05:58:46	71.6	69.2	63.3	64.5	65.2
6836	2009/04/01	05:59:01	62.3	63.6	61.4	59.7	59.4
6841	2009/04/01	05:59:16	59.2	59.2	58.9	58.8	58.0
6846	2009/04/01	05:59:31	57.8	58.3	60.9	63.9	61.5
6851	2009/04/01	05:59:46	61.3	58.3	57.6	57.4	61.1
6856	2009/04/01	06:00:01	70.5	65.8	67.9	60.4	58.4

6861	2009/04/01	06:00:16	63.3	64.6	61.2	58.5	58.3
6866	2009/04/01	06:00:31	59.6	59.9	62.5	60.6	59.5
6871	2009/04/01	06:00:46	61.7	61.8	64.6	62.2	59.9
6876	2009/04/01	06:01:01	64.1	63.0	57.8	64.0	71.5
6881	2009/04/01	06:01:16	69.7	66.6	64.9	60.7	65.6
6886	2009/04/01	06:01:31	63.7	60.3	58.6	58.6	62.0
6891	2009/04/01	06:01:46	64.2	57.8	53.2	69.9	64.9
6896	2009/04/01	06:02:01	61.2	66.6	68.3	66.1	60.9
6901	2009/04/01	06:02:16	66.7	64.5	67.5	64.5	67.3
6906	2009/04/01	06:02:31	60.8	60.5	65.7	67.8	65.7
6911	2009/04/01	06:02:46	64.8	63.8	71.0	62.6	61.9
6916	2009/04/01	06:03:01	62.8	73.1	75.8	68.1	63.3
6921	2009/04/01	06:03:16	63.9	59.5	58.3	59.1	61.1
6926	2009/04/01	06:03:31	63.2	62.4	64.2	67.7	66.6
6931	2009/04/01	06:03:46	64.2	68.0	64.3	63.0	64.9
6936	2009/04/01	06:04:01	64.5	62.3	64.5	66.8	67.8
6941	2009/04/01	06:04:16	66.2	72.6	63.9	60.3	67.8
6946	2009/04/01	06:04:31	60.1	58.0	57.5	57.2	57.6
6951	2009/04/01	06:04:46	67.3	62.5	58.2	56.5	57.0
6956	2009/04/01	06:05:01	63.0	63.0	68.4	62.1	63.4
6961	2009/04/01	06:05:16	66.5	62.7	58.5	58.7	59.7
6966	2009/04/01	06:05:31	59.1	62.8	66.0	57.6	56.7
6971	2009/04/01	06:05:46	59.2	63.3	67.2	77.4	64.9
6976	2009/04/01	06:06:01	64.7	60.5	55.7	55.9	55.4
6981	2009/04/01	06:06:16	59.6	69.9	58.1	62.7	63.3
6986	2009/04/01	06:06:31	63.6	59.6	59.5	57.4	58.4
6991	2009/04/01	06:06:46	61.5	62.1	63.0	61.1	63.5
6996	2009/04/01	06:07:01	67.0	66.4	58.7	57.6	57.1
7001	2009/04/01	06:07:16	58.7	59.1	62.9	66.9	69.3
7006	2009/04/01	06:07:31	67.3	67.6	64.5	67.1	65.5
7011	2009/04/01	06:07:46	64.6	63.2	60.3	65.6	70.5
7016	2009/04/01	06:08:01	74.5	68.1	69.5	66.2	63.8
7021	2009/04/01	06:08:16	61.0	63.7	64.5	58.8	57.6
7026	2009/04/01	06:08:31	60.0	66.9	70.4	68.3	70.0
7031	2009/04/01	06:08:46	60.5	65.9	63.7	59.4	58.1
7036	2009/04/01	06:09:01	60.6	59.4	61.7	63.7	75.5
7041	2009/04/01	06:09:16	65.6	61.1	59.0	61.9	58.3
7046	2009/04/01	06:09:31	61.1	64.4	65.3	63.7	58.3
7051	2009/04/01	06:09:46	55.8	55.0	51.6	52.5	51.7
7056	2009/04/01	06:10:01	53.0	55.2	63.2	62.4	62.2
7061	2009/04/01	06:10:16	62.2	62.0	64.5	59.1	55.5
7066	2009/04/01	06:10:31	57.7	58.7	59.2	58.6	60.8
7071	2009/04/01	06:10:46	75.1	77.8	68.8	58.3	55.3
7076	2009/04/01	06:11:01	55.3	53.7	53.5	61.3	62.3
7081	2009/04/01	06:11:16	61.4	65.8	68.2	56.4	63.3
7086	2009/04/01	06:11:31	62.6	66.9	66.0	67.6	69.4
7091	2009/04/01	06:11:46	59.8	62.2	61.5	60.8	61.3
7096	2009/04/01	06:12:01	62.5	58.5	57.2	57.7	63.8
7101	2009/04/01	06:12:16	65.2	61.4	60.1	67.0	65.3
7106	2009/04/01	06:12:31	57.4	58.6	58.7	60.8	62.9
7111	2009/04/01	06:12:46	66.7	67.4	61.5	60.5	62.0
7116	2009/04/01	06:13:01	60.8	61.7	58.9	57.5	56.6
7121	2009/04/01	06:13:16	61.4	58.0	62.0	63.9	61.1
7126	2009/04/01	06:13:31	60.4	58.6	63.5	68.2	67.1
7131	2009/04/01	06:13:46	62.7	64.5	71.3	66.0	61.3
7136	2009/04/01	06:14:01	60.2	62.0	61.0	59.3	60.2
7141	2009/04/01	06:14:16	61.7	62.8	66.6	59.8	65.9
7146	2009/04/01	06:14:31	62.0	55.1	58.4	62.5	67.2
7151	2009/04/01	06:14:46	67.9	61.3	59.4	69.8	65.4
7156	2009/04/01	06:15:01	62.5	62.0	54.8	58.1	65.8
7161	2009/04/01	06:15:16	62.7	61.1	56.9	58.3	63.7
7166	2009/04/01	06:15:31	65.2	56.1	57.0	58.3	56.4
7171	2009/04/01	06:15:46	56.4	55.8	60.2	59.3	60.2
7176	2009/04/01	06:16:01	59.3	63.0	63.1	60.3	60.3
7181	2009/04/01	06:16:16	59.6	63.0	60.8	57.4	57.8
7186	2009/04/01	06:16:31	60.6	65.2	64.8	72.3	68.7
7191	2009/04/01	06:16:46	64.8	59.5	60.7	63.9	61.8
7196	2009/04/01	06:17:01	56.6	58.3	61.0	63.2	61.5
7201	2009/04/01	06:17:16	64.5	69.3	68.8	64.3	60.0
7206	2009/04/01	06:17:31	56.0	55.5	56.5	62.7	64.8
7211	2009/04/01	06:17:46	66.1	62.1	61.9	60.5	61.5
7216	2009/04/01	06:18:01	60.3	62.6	66.3	63.2	63.9
7221	2009/04/01	06:18:16	60.4	59.5	60.3	62.3	60.3
7226	2009/04/01	06:18:31	61.2	61.2	60.2	64.4	66.1
7231	2009/04/01	06:18:46	64.9	58.5	58.8	70.1	67.6
7236	2009/04/01	06:19:01	69.9	65.3	64.4	65.5	66.3
7241	2009/04/01	06:19:16	64.6	69.5	61.1	57.4	60.1
7246	2009/04/01	06:19:31	62.7	70.7	66.0	62.5	65.4
7251	2009/04/01	06:19:46	60.1	60.1	57.3	55.9	59.2
7256	2009/04/01	06:20:01	67.1	69.0	59.8	61.3	65.9
7261	2009/04/01	06:20:16	62.4	59.2	59.7	57.4	55.5
7266	2009/04/01	06:20:31	55.4	55.4	55.0	59.4	66.8
7271	2009/04/01	06:20:46	69.1	69.0	62.9	62.0	66.3
7276	2009/04/01	06:21:01	66.6	64.3	63.4	60.7	66.0
7281	2009/04/01	06:21:16	66.7	63.7	63.3	65.2	67.2
7286	2009/04/01	06:21:31	63.9	69.7	71.3	71.0	71.0
7291	2009/04/01	06:21:46	64.3	62.3	67.3	64.7	62.4
7296	2009/04/01	06:22:01	58.9	61.3	65.6	63.4	56.2
7301	2009/04/01	06:22:16	60.6	66.4	63.6	58.2	57.8
7306	2009/04/01	06:22:31	57.6	57.7	58.6	58.1	63.0
7311	2009/04/01	06:22:46	58.8	58.5	56.5	64.4	64.6
7316	2009/04/01	06:23:01	63.1	61.5	64.8	68.1	61.5
7321	2009/04/01	06:23:16	66.1	62.7	69.2	64.8	62.4
7326	2009/04/01	06:23:31	66.9	62.6	58.3	61.6	56.6
7331	2009/04/01	06:23:46	54.8	54.6	56.6	58.7	62.9
7336	2009/04/01	06:24:01	70.5	70.4	65.6	61.3	57.0
7341	2009/04/01	06:24:16	57.4	58.3	58.2	57.4	61.5
7346	2009/04/01	06:24:31	59.8	60.8	61.0	64.6	63.9
7351	2009/04/01	06:24:46	60.6	66.1	64.4	63.7	65.3

7356	2009/04/01	06:25:01	66.1	67.4	65.5	62.7	60.6
7361	2009/04/01	06:25:16	62.4	66.2	60.0	66.9	64.7
7366	2009/04/01	06:25:31	59.3	62.5	61.6	60.1	60.3
7371	2009/04/01	06:25:46	68.0	70.9	64.4	62.2	61.3
7376	2009/04/01	06:26:01	70.7	61.1	56.9	58.7	64.6
7381	2009/04/01	06:26:16	66.2	65.1	58.8	56.2	55.5
7386	2009/04/01	06:26:31	60.9	61.7	62.2	61.1	54.7
7391	2009/04/01	06:26:46	57.6	59.8	63.1	67.9	68.5
7396	2009/04/01	06:27:01	67.9	62.7	62.0	60.9	60.8
7401	2009/04/01	06:27:16	61.5	61.4	58.0	58.0	57.3
7406	2009/04/01	06:27:31	59.1	64.2	69.9	67.3	65.1
7411	2009/04/01	06:27:46	59.2	62.2	63.3	61.3	67.7
7416	2009/04/01	06:28:01	60.5	67.4	62.8	62.2	59.4
7421	2009/04/01	06:28:16	62.3	67.4	63.2	58.2	59.4
7426	2009/04/01	06:28:31	62.3	59.9	56.7	56.3	60.8
7431	2009/04/01	06:28:46	63.9	66.8	65.6	59.4	63.3
7436	2009/04/01	06:29:01	59.0	59.7	69.5	67.5	67.1
7441	2009/04/01	06:29:16	65.7	64.4	65.9	64.1	61.9
7446	2009/04/01	06:29:31	60.3	61.0	66.5	59.9	60.8
7451	2009/04/01	06:29:46	60.4	65.6	58.0	60.5	68.1
7456	2009/04/01	06:30:01	60.0	57.8	65.9	66.7	57.7
7461	2009/04/01	06:30:16	57.8	63.7	64.4	60.8	65.2
7466	2009/04/01	06:30:31	69.8	67.9	65.6	70.8	69.0
7471	2009/04/01	06:30:46	68.3	68.0	63.6	67.1	65.3
7476	2009/04/01	06:31:01	60.8	58.0	59.5	60.7	60.2
7481	2009/04/01	06:31:16	60.2	61.8	62.0	63.1	62.1
7486	2009/04/01	06:31:31	58.0	66.5	67.1	65.8	65.9
7491	2009/04/01	06:31:46	69.1	68.9	61.8	61.1	59.8
7496	2009/04/01	06:32:01	61.3	64.3	59.5	60.5	64.4
7501	2009/04/01	06:32:16	63.7	60.3	59.8	60.6	64.4
7506	2009/04/01	06:32:31	60.9	62.5	66.0	61.5	63.0
7511	2009/04/01	06:32:46	67.0	59.9	60.8	58.3	62.1
7516	2009/04/01	06:33:01	70.5	62.8	69.0	62.0	62.6
7521	2009/04/01	06:33:16	56.8	59.2	66.4	62.8	65.9
7526	2009/04/01	06:33:31	60.0	58.2	61.1	68.7	64.2
7531	2009/04/01	06:33:46	61.1	60.6	62.6	75.1	64.0
7536	2009/04/01	06:34:01	61.0	63.2	63.8	68.1	62.0
7541	2009/04/01	06:34:16	66.4	61.4	62.1	65.0	66.5
7546	2009/04/01	06:34:31	60.7	58.7	59.2	58.7	60.2
7551	2009/04/01	06:34:46	64.6	58.2	57.9	61.2	57.2
7556	2009/04/01	06:35:01	59.6	58.0	62.2	61.7	57.8
7561	2009/04/01	06:35:16	65.6	65.9	67.5	65.7	59.5
7566	2009/04/01	06:35:31	57.5	56.3	57.3	59.1	61.8
7571	2009/04/01	06:35:46	59.4	62.8	65.6	65.4	62.6
7576	2009/04/01	06:36:01	59.2	63.3	69.3	62.4	56.9
7581	2009/04/01	06:36:16	58.3	58.2	56.8	56.9	57.1
7586	2009/04/01	06:36:31	59.6	60.0	58.1	60.0	60.9
7591	2009/04/01	06:36:46	58.7	60.5	67.4	68.1	62.6
7596	2009/04/01	06:37:01	63.2	62.5	59.3	59.3	57.8
7601	2009/04/01	06:37:16	61.0	61.0	60.1	62.8	60.4
7606	2009/04/01	06:37:31	62.9	63.8	64.7	62.4	64.5
7611	2009/04/01	06:37:46	67.7	66.9	60.9	63.5	63.9
7616	2009/04/01	06:38:01	64.2	57.5	58.3	59.6	58.1
7621	2009/04/01	06:38:16	60.1	63.7	64.3	60.5	66.5
7626	2009/04/01	06:38:31	61.4	75.9	79.5	66.7	60.5
7631	2009/04/01	06:38:46	61.2	60.8	68.0	68.7	65.2
7636	2009/04/01	06:39:01	64.2	55.8	58.8	60.6	59.7
7641	2009/04/01	06:39:16	57.0	60.7	67.5	65.0	62.6
7646	2009/04/01	06:39:31	61.8	64.1	66.5	60.5	55.2
7651	2009/04/01	06:39:46	55.6	55.9	56.8	56.4	55.0
7656	2009/04/01	06:40:01	55.4	54.6	54.1	63.4	58.6
7661	2009/04/01	06:40:16	57.3	60.7	64.5	60.7	59.2
7666	2009/04/01	06:40:31	60.0	57.7	60.1	69.2	69.2
7671	2009/04/01	06:40:46	64.4	66.3	65.7	62.0	58.8
7676	2009/04/01	06:41:01	58.2	63.2	69.1	69.7	63.1
7681	2009/04/01	06:41:16	63.8	56.9	56.2	71.9	58.6
7686	2009/04/01	06:41:31	57.7	59.7	63.6	63.1	62.2
7691	2009/04/01	06:41:46	70.3	69.0	69.8	63.9	68.2
7696	2009/04/01	06:42:01	66.3	67.3	67.8	62.4	58.8
7701	2009/04/01	06:42:16	59.6	60.7	62.2	63.0	58.2
7706	2009/04/01	06:42:31	64.1	76.0	68.9	63.3	60.6
7711	2009/04/01	06:42:46	67.7	64.1	67.2	63.1	59.8
7716	2009/04/01	06:43:01	57.5	57.7	57.2	57.6	58.2
7721	2009/04/01	06:43:16	58.9	58.8	63.7	59.2	65.8
7726	2009/04/01	06:43:31	61.9	67.8	65.3	59.5	62.7
7731	2009/04/01	06:43:46	60.9	58.4	62.2	69.2	67.2
7736	2009/04/01	06:44:01	62.6	62.4	63.8	70.1	69.4
7741	2009/04/01	06:44:16	63.6	60.7	58.4	59.0	59.9
7746	2009/04/01	06:44:31	59.2	59.0	64.8	71.3	65.8
7751	2009/04/01	06:44:46	68.6	61.9	64.2	65.6	59.9
7756	2009/04/01	06:45:01	57.7	59.3	58.3	60.7	63.0
7761	2009/04/01	06:45:16	61.7	59.2	64.4	65.9	62.1
7766	2009/04/01	06:45:31	62.0	62.7	59.3	58.8	63.7
7771	2009/04/01	06:45:46	60.0	63.0	62.9	67.2	64.2
7776	2009/04/01	06:46:01	67.0	68.1	64.1	62.6	63.4
7781	2009/04/01	06:46:16	62.1	63.4	60.3	60.6	62.8
7786	2009/04/01	06:46:31	61.2	59.5	60.4	60.2	60.7
7791	2009/04/01	06:46:46	64.9	66.1	61.2	62.3	64.8
7796	2009/04/01	06:47:01	68.4	68.0	64.7	63.9	63.4
7801	2009/04/01	06:47:16	62.4	65.1	60.8	60.2	59.7
7806	2009/04/01	06:47:31	60.9	59.8	59.5	60.1	58.6
7811	2009/04/01	06:47:46	58.3	66.0	68.6	68.8	69.6
7816	2009/04/01	06:48:01	61.4	64.8	64.4	62.1	60.0
7821	2009/04/01	06:48:16	63.3	61.2	58.3	60.6	61.2
7826	2009/04/01	06:48:31	63.8	61.7	62.4	63.9	61.1
7831	2009/04/01	06:48:46	67.4	59.9	58.9	60.5	60.7
7836	2009/04/01	06:49:01	58.1	61.1	65.9	68.2	68.1
7841	2009/04/01	06:49:16	66.7	67.9	67.8	65.3	60.9
7846	2009/04/01	06:49:31	58.8	65.1	65.6	62.7	62.4

7851	2009/04/01	06:49:46	62.5	70.6	61.9	58.9	57.7
7856	2009/04/01	06:50:01	57.4	55.5	56.8	55.5	58.8
7861	2009/04/01	06:50:16	66.4	64.2	63.4	62.1	69.8
7866	2009/04/01	06:50:31	65.5	60.1	66.1	62.8	69.6
7871	2009/04/01	06:50:46	70.1	66.4	69.8	62.8	61.4
7876	2009/04/01	06:51:01	61.9	62.3	61.2	60.4	62.1
7881	2009/04/01	06:51:16	63.4	57.6	68.9	62.2	64.1
7886	2009/04/01	06:51:31	60.0	58.7	57.8	55.3	55.0
7891	2009/04/01	06:51:46	55.6	55.7	59.2	66.2	65.3
7896	2009/04/01	06:52:01	63.1	67.1	64.1	61.1	57.9
7901	2009/04/01	06:52:16	58.0	63.4	62.7	59.0	60.5
7906	2009/04/01	06:52:31	65.1	63.1	59.4	58.6	66.0
7911	2009/04/01	06:52:46	60.6	58.0	57.3	61.4	60.3
7916	2009/04/01	06:53:01	58.7	60.1	63.0	58.6	57.5
7921	2009/04/01	06:53:16	59.4	59.4	62.3	60.2	63.7
7926	2009/04/01	06:53:31	64.3	60.6	64.6	64.5	66.9
7931	2009/04/01	06:53:46	63.5	60.5	57.7	56.1	55.3
7936	2009/04/01	06:54:01	56.4	58.2	55.0	55.1	57.1
7941	2009/04/01	06:54:16	58.0	66.6	59.5	55.7	54.1
7946	2009/04/01	06:54:31	57.8	59.1	60.7	60.0	60.4
7951	2009/04/01	06:54:46	58.0	58.0	57.0	59.3	64.6
7956	2009/04/01	06:55:01	66.0	66.7	61.7	67.2	62.4
7961	2009/04/01	06:55:16	60.0	59.2	57.7	57.9	61.6
7966	2009/04/01	06:55:31	63.0	58.2	61.4	70.4	66.5
7971	2009/04/01	06:55:46	62.5	57.7	58.8	63.6	68.7
7976	2009/04/01	06:56:01	65.0	67.1	64.5	67.6	64.4
7981	2009/04/01	06:56:16	60.4	58.4	64.0	62.9	68.8
7986	2009/04/01	06:56:31	67.6	63.7	71.8	61.2	60.2
7991	2009/04/01	06:56:46	64.7	62.4	61.9	62.5	66.2
7996	2009/04/01	06:57:01	62.9	64.4	60.1	60.3	65.1
8001	2009/04/01	06:57:16	66.3	65.9	63.1	64.8	63.2
8006	2009/04/01	06:57:31	60.6	56.8	55.8	56.1	58.3
8011	2009/04/01	06:57:46	63.4	70.6	60.7	63.3	60.5
8016	2009/04/01	06:58:01	61.2	68.6	60.6	58.6	60.5
8021	2009/04/01	06:58:16	59.1	60.0	59.3	58.4	58.6
8026	2009/04/01	06:58:31	57.7	57.6	59.8	64.6	56.4
8031	2009/04/01	06:58:46	58.3	63.6	58.7	58.7	62.0
8036	2009/04/01	06:59:01	57.7	57.1	58.9	57.6	56.1
8041	2009/04/01	06:59:16	59.6	58.7	58.3	59.5	57.6
8046	2009/04/01	06:59:31	57.9	57.5	56.9	63.5	70.3
8051	2009/04/01	06:59:46	71.2	63.4	65.5	64.9	62.3
8056	2009/04/01	07:00:01	60.3	61.0	62.3	59.4	60.4
8061	2009/04/01	07:00:16	60.4	57.8	63.0	63.4	57.5
8066	2009/04/01	07:00:31	59.6	60.3	64.5	59.5	60.9
8071	2009/04/01	07:00:46	57.1	56.0	57.6	61.3	60.9
8076	2009/04/01	07:01:01	65.5	68.2	65.1	63.6	63.3
8081	2009/04/01	07:01:16	61.4	57.5	59.7	59.9	64.8
8086	2009/04/01	07:01:31	60.1	61.5	66.9	67.5	63.7
8091	2009/04/01	07:01:46	63.0	61.9	68.9	65.8	65.6
8096	2009/04/01	07:02:01	60.3	62.8	65.4	63.8	64.5
8101	2009/04/01	07:02:16	63.4	63.1	64.1	64.3	64.4
8106	2009/04/01	07:02:31	65.9	66.6	65.7	75.4	70.0
8111	2009/04/01	07:02:46	66.9	65.3	62.4	62.8	71.7
8116	2009/04/01	07:03:01	56.7	59.0	63.0	65.5	71.4
8121	2009/04/01	07:03:16	66.7	61.2	61.3	59.9	58.5
8126	2009/04/01	07:03:31	60.0	60.3	56.9	60.7	66.0
8131	2009/04/01	07:03:46	59.1	57.6	62.0	57.4	59.5
8136	2009/04/01	07:04:01	58.6	59.4	61.9	60.3	62.3
8141	2009/04/01	07:04:16	64.5	69.1	72.0	65.9	66.5
8146	2009/04/01	07:04:31	62.8	68.5	68.6	65.7	68.0
8151	2009/04/01	07:04:46	62.6	68.8	65.6	71.0	67.1
8156	2009/04/01	07:05:01	62.5	67.2	66.5	66.7	61.1
8161	2009/04/01	07:05:16	54.9	56.2	56.1	61.0	60.6
8166	2009/04/01	07:05:31	61.4	71.1	74.3	69.1	66.3
8171	2009/04/01	07:05:46	60.4	60.5	66.4	59.8	54.7
8176	2009/04/01	07:06:01	57.4	58.2	59.6	64.0	62.7
8181	2009/04/01	07:06:16	59.1	62.6	71.0	62.3	65.3
8186	2009/04/01	07:06:31	61.2	58.5	58.5	57.5	57.5
8191	2009/04/01	07:06:46	57.3	59.1	67.2	67.7	62.4
8196	2009/04/01	07:07:01	64.7	59.0	57.5	58.6	61.5
8201	2009/04/01	07:07:16	59.5	58.8	60.8	60.9	66.0
8206	2009/04/01	07:07:31	68.3	66.9	60.3	63.6	59.9
8211	2009/04/01	07:07:46	57.1	59.4	64.6	59.8	59.8
8216	2009/04/01	07:08:01	58.6	59.8	57.9	62.1	73.6
8221	2009/04/01	07:08:16	71.8	66.3	64.2	63.2	60.2
8226	2009/04/01	07:08:31	60.3	58.2	55.8	59.1	59.1
8231	2009/04/01	07:08:46	58.7	59.7	61.5	63.0	64.4
8236	2009/04/01	07:09:01	63.8	60.1	64.6	65.4	61.5
8241	2009/04/01	07:09:16	61.1	60.8	60.9	60.0	62.2
8246	2009/04/01	07:09:31	63.5	56.1	58.7	57.3	54.7
8251	2009/04/01	07:09:46	65.3	68.4	62.9	66.1	65.8
8256	2009/04/01	07:10:01	63.9	61.1	60.5	58.9	59.8
8261	2009/04/01	07:10:16	58.8	60.4	66.4	68.7	63.1
8266	2009/04/01	07:10:31	61.4	62.1	63.7	64.5	64.0
8271	2009/04/01	07:10:46	61.2	62.2	58.4	57.2	57.5
8276	2009/04/01	07:11:01	55.4	55.0	59.2	63.8	71.1
8281	2009/04/01	07:11:16	64.6	69.8	65.4	69.0	70.5
8286	2009/04/01	07:11:31	60.4	63.5	62.2	62.9	60.3
8291	2009/04/01	07:11:46	60.0	57.9	59.0	60.1	60.6
8296	2009/04/01	07:12:01	67.2	65.5	57.0	60.0	59.5
8301	2009/04/01	07:12:16	63.4	61.7	63.7	60.0	66.7
8306	2009/04/01	07:12:31	61.8	59.2	58.9	56.7	55.5
8311	2009/04/01	07:12:46	56.8	56.3	55.7	60.3	63.8
8316	2009/04/01	07:13:01	64.1	62.6	60.7	57.9	58.0
8321	2009/04/01	07:13:16	57.1	60.7	58.5	60.5	59.5
8326	2009/04/01	07:13:31	58.8	66.1	71.1	69.0	58.6
8331	2009/04/01	07:13:46	61.2	61.5	57.6	58.3	58.6
8336	2009/04/01	07:14:01	57.5	57.0	57.4	56.7	59.8
8341	2009/04/01	07:14:16	69.9	68.0	60.4	60.1	60.3

8346	2009/04/01	07:14:31	68.1	63.2	60.0	61.5	63.0
8351	2009/04/01	07:14:46	57.9	58.1	58.3	58.9	57.7
8356	2009/04/01	07:15:01	56.0	57.7	64.9	67.2	63.1
8361	2009/04/01	07:15:16	67.3	66.5	61.8	63.5	66.2
8366	2009/04/01	07:15:31	62.8	59.4	62.0	63.3	64.0
8371	2009/04/01	07:15:46	62.7	64.2	58.8	65.3	59.8
8376	2009/04/01	07:16:01	60.5	66.1	66.7	69.2	60.1
8381	2009/04/01	07:16:16	61.5	64.7	61.1	55.8	59.9
8386	2009/04/01	07:16:31	61.4	61.5	58.0	57.7	64.3
8391	2009/04/01	07:16:46	65.8	64.5	61.1	58.4	60.0
8396	2009/04/01	07:17:01	61.1	61.6	64.7	59.9	60.8
8401	2009/04/01	07:17:16	66.1	64.0	58.3	56.5	61.4
8406	2009/04/01	07:17:31	68.6	57.5	59.6	58.8	56.9
8411	2009/04/01	07:17:46	57.6	56.4	57.2	59.1	61.8
8416	2009/04/01	07:18:01	63.8	64.1	65.5	71.2	63.8
8421	2009/04/01	07:18:16	68.0	66.8	67.4	64.8	62.5
8426	2009/04/01	07:18:31	62.4	65.0	65.2	63.7	67.5
8431	2009/04/01	07:18:46	71.2	73.4	65.5	63.3	61.0
8436	2009/04/01	07:19:01	59.1	58.7	65.4	59.3	61.5
8441	2009/04/01	07:19:16	63.0	63.2	63.3	65.4	68.0
8446	2009/04/01	07:19:31	64.9	60.7	59.7	59.7	61.0
8451	2009/04/01	07:19:46	60.4	64.8	57.4	59.0	67.9
8456	2009/04/01	07:20:01	62.5	57.9	57.1	56.5	56.8
8461	2009/04/01	07:20:16	58.1	64.9	63.7	65.3	63.1
8466	2009/04/01	07:20:31	57.0	58.3	60.6	59.2	59.7
8471	2009/04/01	07:20:46	62.1	63.8	58.0	58.1	59.3
8476	2009/04/01	07:21:01	64.1	64.1	61.9	61.3	60.5
8481	2009/04/01	07:21:16	64.2	68.5	71.7	62.9	64.4
8486	2009/04/01	07:21:31	60.4	59.0	57.5	57.6	58.3
8491	2009/04/01	07:21:46	57.2	55.8	56.2	55.7	55.8
8496	2009/04/01	07:22:01	59.2	62.9	60.4	68.1	68.9
8501	2009/04/01	07:22:16	65.2	64.5	67.0	60.9	58.2
8506	2009/04/01	07:22:31	59.9	61.5	65.3	63.1	64.5
8511	2009/04/01	07:22:46	61.0	59.6	61.2	64.9	60.6
8516	2009/04/01	07:23:01	64.4	61.6	62.0	63.5	63.3
8521	2009/04/01	07:23:16	58.3	60.7	59.8	60.0	58.2
8526	2009/04/01	07:23:31	59.3	63.6	60.7	59.4	60.2
8531	2009/04/01	07:23:46	63.0	61.8	57.8	58.9	56.7
8536	2009/04/01	07:24:01	59.2	58.1	63.3	62.8	67.4
8541	2009/04/01	07:24:16	63.4	61.6	65.6	59.4	62.7
8546	2009/04/01	07:24:31	63.5	66.2	64.5	64.2	64.5
8551	2009/04/01	07:24:46	59.9	57.7	59.9	65.8	63.6
8556	2009/04/01	07:25:01	62.2	56.3	57.1	61.1	60.7
8561	2009/04/01	07:25:16	65.9	61.3	60.6	57.6	57.6
8566	2009/04/01	07:25:31	61.3	66.3	68.0	65.3	58.7
8571	2009/04/01	07:25:46	58.3	58.8	57.2	59.6	62.0
8576	2009/04/01	07:26:01	64.9	61.2	63.0	65.8	62.8
8581	2009/04/01	07:26:16	61.2	62.5	59.1	61.8	58.0
8586	2009/04/01	07:26:31	58.8	58.3	58.9	65.7	64.2
8591	2009/04/01	07:26:46	61.8	67.7	60.2	63.9	67.4
8596	2009/04/01	07:27:01	66.0	65.6	60.4	61.1	60.7
8601	2009/04/01	07:27:16	61.0	59.8	61.9	64.0	68.0
8606	2009/04/01	07:27:31	65.0	63.8	67.2	63.8	61.1
8611	2009/04/01	07:27:46	65.0	60.5	60.7	61.5	59.6
8616	2009/04/01	07:28:01	63.1	60.7	61.4	64.4	62.2
8621	2009/04/01	07:28:16	57.7	59.5	57.5	57.6	58.2
8626	2009/04/01	07:28:31	60.1	59.5	59.9	60.9	61.2
8631	2009/04/01	07:28:46	61.1	64.4	64.2	62.0	63.8
8636	2009/04/01	07:29:01	64.6	70.0	69.3	71.7	73.3
8641	2009/04/01	07:29:16	81.1	76.1	65.9	64.0	64.4
8646	2009/04/01	07:29:31	61.8	66.2	64.8	61.1	61.0
8651	2009/04/01	07:29:46	63.2	61.9	64.8	65.6	63.9
8656	2009/04/01	07:30:01	62.3	65.8	63.7	62.9	62.3
8661	2009/04/01	07:30:16	61.7	59.9	60.3	61.6	60.8
8666	2009/04/01	07:30:31	63.3	62.5	60.7	62.8	63.7
8671	2009/04/01	07:30:46	58.4	63.3	67.2	62.1	62.3
8676	2009/04/01	07:31:01	59.3	62.5	64.0	63.4	61.3
8681	2009/04/01	07:31:16	61.3	66.6	64.5	59.4	59.5
8686	2009/04/01	07:31:31	61.6	62.3	63.4	66.9	70.5
8691	2009/04/01	07:31:46	68.2	61.1	63.3	61.9	61.1
8696	2009/04/01	07:32:01	62.3	64.0	68.0	63.9	62.4
8701	2009/04/01	07:32:16	61.4	66.9	66.3	62.1	59.5
8706	2009/04/01	07:32:31	59.6	59.7	59.6	59.7	58.1
8711	2009/04/01	07:32:46	60.8	62.4	62.3	58.7	58.5
8716	2009/04/01	07:33:01	66.6	61.1	60.7	60.5	64.2
8721	2009/04/01	07:33:16	68.5	62.2	59.3	64.7	66.5
8726	2009/04/01	07:33:31	61.8	60.2	63.2	64.5	64.1
8731	2009/04/01	07:33:46	64.2	60.8	61.7	71.0	63.3
8736	2009/04/01	07:34:01	60.8	60.5	68.9	66.2	60.2
8741	2009/04/01	07:34:16	59.8	57.1	58.5	59.5	63.0
8746	2009/04/01	07:34:31	59.6	63.2	67.4	67.4	66.2
8751	2009/04/01	07:34:46	66.0	62.2	59.4	63.6	61.7
8756	2009/04/01	07:35:01	70.4	63.3	64.1	63.5	63.4
8761	2009/04/01	07:35:16	63.4	62.2	62.1	63.8	64.9
8766	2009/04/01	07:35:31	61.1	64.5	60.6	59.5	59.6
8771	2009/04/01	07:35:46	62.4	64.1	60.9	57.5	57.4
8776	2009/04/01	07:36:01	56.5	56.9	60.9	66.6	62.8
8781	2009/04/01	07:36:16	62.4	60.4	60.3	62.9	60.3
8786	2009/04/01	07:36:31	58.2	60.0	62.7	60.4	61.4
8791	2009/04/01	07:36:46	61.2	63.2	62.0	60.1	61.1
8796	2009/04/01	07:37:01	62.4	62.5	63.2	74.6	69.1
8801	2009/04/01	07:37:16	66.1	68.9	68.2	63.8	62.4
8806	2009/04/01	07:37:31	67.6	63.0	69.3	61.7	61.8
8811	2009/04/01	07:37:46	62.9	61.8	64.0	64.3	59.5
8816	2009/04/01	07:38:01	62.8	62.5	65.3	63.5	61.8
8821	2009/04/01	07:38:16	60.6	61.8	58.4	60.7	65.6
8826	2009/04/01	07:38:31	68.7	64.3	67.1	63.5	61.6
8831	2009/04/01	07:38:46	61.0	60.1	60.5	60.5	60.1
8836	2009/04/01	07:39:01	60.6	60.7	62.4	66.4	62.2

8841	2009/04/01	07:39:16	63.0	64.9	64.6	61.7	61.6
8846	2009/04/01	07:39:31	64.4	62.5	61.5	61.9	61.6
8851	2009/04/01	07:39:46	62.2	70.1	67.6	65.2	67.8
8856	2009/04/01	07:40:01	63.6	65.3	65.0	62.1	55.8
8861	2009/04/01	07:40:16	55.8	58.8	60.9	64.8	59.9
8866	2009/04/01	07:40:31	62.5	63.9	62.0	60.0	62.8
8871	2009/04/01	07:40:46	72.0	67.2	65.0	65.0	64.1
8876	2009/04/01	07:41:01	64.4	65.8	63.8	63.2	65.8
8881	2009/04/01	07:41:16	61.7	63.5	68.2	66.9	63.6
8886	2009/04/01	07:41:31	68.4	61.2	60.9	68.5	68.5
8891	2009/04/01	07:41:46	66.9	61.9	60.4	63.0	62.6
8896	2009/04/01	07:42:01	60.6	65.0	64.4	59.0	60.0
8901	2009/04/01	07:42:16	60.3	61.2	66.7	69.8	70.8
8906	2009/04/01	07:42:31	66.2	61.1	59.9	65.1	60.1
8911	2009/04/01	07:42:46	62.6	66.9	78.8	72.3	65.9
8916	2009/04/01	07:43:01	69.1	63.7	61.1	60.0	63.1
8921	2009/04/01	07:43:16	60.6	59.4	61.2	66.6	62.3
8926	2009/04/01	07:43:31	59.3	58.6	60.0	62.1	65.4
8931	2009/04/01	07:43:46	71.7	63.8	66.6	66.9	64.6
8936	2009/04/01	07:44:01	65.6	62.7	60.8	63.6	67.1
8941	2009/04/01	07:44:16	68.5	62.5	60.1	59.7	64.6
8946	2009/04/01	07:44:31	65.5	69.2	62.3	68.2	66.0
8951	2009/04/01	07:44:46	62.5	64.4	65.8	58.5	66.8
8956	2009/04/01	07:45:01	62.3	61.2	61.3	61.9	62.8
8961	2009/04/01	07:45:16	61.4	60.3	59.8	61.3	61.3
8966	2009/04/01	07:45:31	60.7	65.9	67.1	64.6	63.6
8971	2009/04/01	07:45:46	59.6	59.4	61.1	64.0	61.7
8976	2009/04/01	07:46:01	61.0	61.9	61.6	59.5	60.8
8981	2009/04/01	07:46:16	60.4	58.9	59.9	62.2	70.1
8986	2009/04/01	07:46:31	68.5	66.8	65.9	62.6	64.2
8991	2009/04/01	07:46:46	62.9	61.2	63.5	60.9	60.2
8996	2009/04/01	07:47:01	60.4	63.5	63.5	64.6	65.5
9001	2009/04/01	07:47:16	66.5	65.3	62.9	64.0	61.3
9006	2009/04/01	07:47:31	59.5	59.5	58.2	58.0	58.9
9011	2009/04/01	07:47:46	59.7	64.3	66.9	65.7	61.0
9016	2009/04/01	07:48:01	62.7	61.6	63.7	61.3	59.1
9021	2009/04/01	07:48:16	60.3	66.7	63.8	68.8	61.2
9026	2009/04/01	07:48:31	64.3	61.9	66.2	65.2	61.0
9031	2009/04/01	07:48:46	59.3	66.3	65.0	71.9	64.0
9036	2009/04/01	07:49:01	63.4	60.2	65.2	62.1	64.0
9041	2009/04/01	07:49:16	63.3	63.8	66.9	67.7	64.5
9046	2009/04/01	07:49:31	62.0	63.4	62.5	62.7	63.2
9051	2009/04/01	07:49:46	64.2	59.4	61.7	65.5	67.7
9056	2009/04/01	07:50:01	69.5	76.8	64.7	58.7	59.7
9061	2009/04/01	07:50:16	63.8	66.1	63.6	62.7	62.1
9066	2009/04/01	07:50:31	64.0	65.3	66.4	65.3	65.8
9071	2009/04/01	07:50:46	64.1	65.0	59.4	59.8	60.9
9076	2009/04/01	07:51:01	61.6	62.8	62.1	63.4	64.5
9081	2009/04/01	07:51:16	69.0	66.6	62.2	61.4	66.1
9086	2009/04/01	07:51:31	65.5	64.2	60.9	57.7	58.3
9091	2009/04/01	07:51:46	60.4	63.1	61.0	59.0	59.5
9096	2009/04/01	07:52:01	60.3	59.7	62.6	63.8	62.3
9101	2009/04/01	07:52:16	63.3	68.4	65.4	61.1	60.4
9106	2009/04/01	07:52:31	63.4	64.6	63.8	59.2	60.3
9111	2009/04/01	07:52:46	60.4	60.2	60.4	65.1	66.9
9116	2009/04/01	07:53:01	65.5	63.0	63.9	64.4	62.8
9121	2009/04/01	07:53:16	60.5	59.5	59.4	59.4	60.0
9126	2009/04/01	07:53:31	60.8	66.1	64.1	60.6	64.7
9131	2009/04/01	07:53:46	66.2	60.3	61.2	62.8	62.3
9136	2009/04/01	07:54:01	59.6	58.0	61.6	69.0	62.0
9141	2009/04/01	07:54:16	60.4	64.5	61.7	64.1	63.2
9146	2009/04/01	07:54:31	60.1	60.1	65.8	64.3	61.3
9151	2009/04/01	07:54:46	59.8	58.9	59.1	58.7	58.8
9156	2009/04/01	07:55:01	59.2	62.8	67.1	62.3	64.1
9161	2009/04/01	07:55:16	66.0	64.0	61.9	65.7	62.7
9166	2009/04/01	07:55:31	60.7	60.4	61.4	60.1	59.1
9171	2009/04/01	07:55:46	59.0	59.3	57.8	58.6	59.7
9176	2009/04/01	07:56:01	60.3	59.5	58.0	61.3	67.7
9181	2009/04/01	07:56:16	60.5	63.0	65.1	66.5	63.3
9186	2009/04/01	07:56:31	63.7	65.5	64.1	63.1	63.3
9191	2009/04/01	07:56:46	63.1	62.2	61.5	61.8	62.7
9196	2009/04/01	07:57:01	68.1	70.9	67.8	61.1	64.4
9201	2009/04/01	07:57:16	67.3	64.5	66.4	62.8	59.7
9206	2009/04/01	07:57:31	59.2	64.0	67.3	69.5	60.1
9211	2009/04/01	07:57:46	65.1	67.5	59.3	59.0	59.2
9216	2009/04/01	07:58:01	59.0	58.0	59.7	58.0	57.4
9221	2009/04/01	07:58:16	58.6	58.9	58.9	60.3	62.4
9226	2009/04/01	07:58:31	59.4	59.7	60.0	58.6	59.7
9231	2009/04/01	07:58:46	63.1	59.2	58.0	57.1	58.8
9236	2009/04/01	07:59:01	58.9	59.3	59.5	59.9	61.3
9241	2009/04/01	07:59:16	63.3	61.7	58.8	60.9	65.5
9246	2009/04/01	07:59:31	66.7	58.0	57.7	57.0	56.5
9251	2009/04/01	07:59:46	57.3	60.3	61.2	56.9	58.1
9256	2009/04/01	08:00:01	58.0	60.1	61.3	66.0	59.5
9261	2009/04/01	08:00:16	63.4	60.5	59.3	65.5	63.0
9266	2009/04/01	08:00:31	60.2	60.0	64.4	65.3	70.5
9271	2009/04/01	08:00:46	63.8	60.1	59.9	62.3	69.2
9276	2009/04/01	08:01:01	65.6	62.2	64.7	67.7	67.9
9281	2009/04/01	08:01:16	61.7	60.5	61.7	62.8	60.3
9286	2009/04/01	08:01:31	65.3	64.0	60.0	65.5	67.7
9291	2009/04/01	08:01:46	60.8	63.5	62.6	61.6	67.0
9296	2009/04/01	08:02:01	61.6	59.8	60.5	61.0	68.4
9301	2009/04/01	08:02:16	67.5	63.4	60.6	64.0	64.4
9306	2009/04/01	08:02:31	71.1	65.7	61.8	63.7	68.4
9311	2009/04/01	08:02:46	63.0	61.7	65.0	59.7	60.2
9316	2009/04/01	08:03:01	62.9	68.4	60.0	61.3	67.5
9321	2009/04/01	08:03:16	62.6	68.0	63.9	60.8	61.6
9326	2009/04/01	08:03:31	65.7	60.6	61.7	61.1	60.4
9331	2009/04/01	08:03:46	62.3	64.1	69.2	65.5	63.0

9336	2009/04/01	08:04:01	66.1	65.7	61.2	62.0	63.9
9341	2009/04/01	08:04:16	60.5	58.1	59.1	63.7	60.2
9346	2009/04/01	08:04:31	60.9	64.3	67.1	67.1	63.5
9351	2009/04/01	08:04:46	60.4	60.9	60.5	61.5	63.2
9356	2009/04/01	08:05:01	60.7	61.4	69.1	64.4	66.9
9361	2009/04/01	08:05:16	65.6	64.4	61.5	59.6	60.3
9366	2009/04/01	08:05:31	58.8	58.5	58.5	58.6	63.9
9371	2009/04/01	08:05:46	63.7	68.1	65.7	71.1	63.3
9376	2009/04/01	08:06:01	68.6	62.9	62.1	62.0	61.4
9381	2009/04/01	08:06:16	65.7	68.2	68.3	64.1	64.1
9386	2009/04/01	08:06:31	63.8	65.3	60.6	62.6	68.3
9391	2009/04/01	08:06:46	66.9	60.5	62.7	64.1	68.5
9396	2009/04/01	08:07:01	60.9	58.9	58.6	60.3	64.5
9401	2009/04/01	08:07:16	60.0	59.4	61.6	62.0	60.0
9406	2009/04/01	08:07:31	61.5	62.1	65.2	60.3	58.8
9411	2009/04/01	08:07:46	61.8	65.5	64.1	66.6	66.9
9416	2009/04/01	08:08:01	59.3	59.3	60.1	62.0	59.4
9421	2009/04/01	08:08:16	60.4	62.0	60.2	59.3	59.1
9426	2009/04/01	08:08:31	59.1	59.6	62.5	66.1	65.0
9431	2009/04/01	08:08:46	59.2	58.4	58.9	59.3	59.1
9436	2009/04/01	08:09:01	61.3	72.3	63.9	63.7	63.8
9441	2009/04/01	08:09:16	62.5	63.3	67.4	66.7	63.8
9446	2009/04/01	08:09:31	59.7	59.0	59.5	59.9	60.0
9451	2009/04/01	08:09:46	67.3	64.0	63.1	57.8	59.2
9456	2009/04/01	08:10:01	59.5	61.1	63.0	65.1	60.9
9461	2009/04/01	08:10:16	63.5	64.7	65.0	62.6	61.5
9466	2009/04/01	08:10:31	64.5	64.7	61.1	61.2	60.6
9471	2009/04/01	08:10:46	61.1	64.9	65.9	63.2	64.2
9476	2009/04/01	08:11:01	66.3	61.3	68.5	67.2	62.2
9481	2009/04/01	08:11:16	59.8	59.9	61.3	67.3	60.6
9486	2009/04/01	08:11:31	64.2	65.0	65.6	62.0	60.4
9491	2009/04/01	08:11:46	64.4	66.7	65.8	64.9	66.4
9496	2009/04/01	08:12:01	64.0	63.2	69.3	60.5	59.9
9501	2009/04/01	08:12:16	61.9	61.1	60.1	57.9	59.5
9506	2009/04/01	08:12:31	60.7	61.8	65.4	63.9	61.1
9511	2009/04/01	08:12:46	60.3	64.2	66.9	63.1	64.0
9516	2009/04/01	08:13:01	69.0	60.6	65.1	64.1	67.5
9521	2009/04/01	08:13:16	60.6	59.8	59.4	59.3	59.9
9526	2009/04/01	08:13:31	61.5	58.7	59.4	66.4	64.5
9531	2009/04/01	08:13:46	61.7	65.9	64.9	62.5	67.6
9536	2009/04/01	08:14:01	62.5	73.8	66.3	62.7	63.4
9541	2009/04/01	08:14:16	66.6	66.8	65.8	61.2	63.7
9546	2009/04/01	08:14:31	66.2	70.7	70.2	63.6	62.6
9551	2009/04/01	08:14:46	64.0	61.4	61.7	61.5	60.5
9556	2009/04/01	08:15:01	60.0	65.1	70.5	69.0	67.2
9561	2009/04/01	08:15:16	70.4	64.7	60.9	60.0	60.5
9566	2009/04/01	08:15:31	59.6	59.0	59.2	59.8	62.8
9571	2009/04/01	08:15:46	64.7	60.7	60.6	59.0	57.7
9576	2009/04/01	08:16:01	60.4	61.1	60.3	62.7	61.1
9581	2009/04/01	08:16:16	58.8	58.7	58.7	57.2	56.8
9586	2009/04/01	08:16:31	58.9	62.7	68.1	63.5	63.0
9591	2009/04/01	08:16:46	64.2	66.8	65.1	63.5	64.3
9596	2009/04/01	08:17:01	63.0	65.9	64.9	60.0	61.5
9601	2009/04/01	08:17:16	62.1	66.1	68.7	65.9	63.9
9606	2009/04/01	08:17:31	58.5	62.8	66.5	61.8	61.5
9611	2009/04/01	08:17:46	63.2	65.7	71.3	65.9	67.3
9616	2009/04/01	08:18:01	63.9	61.7	62.5	64.0	62.1
9621	2009/04/01	08:18:16	60.0	59.7	62.0	59.6	59.1
9626	2009/04/01	08:18:31	58.3	58.0	60.2	61.2	61.1
9631	2009/04/01	08:18:46	59.9	64.4	63.6	64.2	61.1
9636	2009/04/01	08:19:01	60.6	61.2	60.1	60.1	62.9
9641	2009/04/01	08:19:16	65.8	67.0	65.2	61.8	65.0
9646	2009/04/01	08:19:31	60.4	63.7	61.4	59.8	58.6
9651	2009/04/01	08:19:46	58.8	62.6	65.3	60.5	59.2
9656	2009/04/01	08:20:01	60.0	61.7	65.1	64.1	61.0
9661	2009/04/01	08:20:16	61.1	60.1	61.4	59.9	60.7
9666	2009/04/01	08:20:31	60.5	61.6	62.5	65.7	60.4
9671	2009/04/01	08:20:46	59.1	58.9	58.7	59.1	60.5
9676	2009/04/01	08:21:01	65.4	65.8	59.6	58.8	58.8
9681	2009/04/01	08:21:16	60.7	61.5	60.8	62.6	67.1
9686	2009/04/01	08:21:31	65.4	61.5	64.0	66.3	67.2
9691	2009/04/01	08:21:46	63.6	69.6	66.8	65.8	67.2
9696	2009/04/01	08:22:01	65.9	66.8	75.8	65.4	63.2
9701	2009/04/01	08:22:16	62.0	62.5	60.2	63.4	62.7
9706	2009/04/01	08:22:31	61.1	62.8	65.1	61.6	59.0
9711	2009/04/01	08:22:46	59.1	59.2	58.3	61.1	58.4
9716	2009/04/01	08:23:01	58.3	58.9	59.7	63.8	61.9
9721	2009/04/01	08:23:16	59.9	61.0	64.1	65.7	64.8
9726	2009/04/01	08:23:31	69.2	63.7	62.3	68.5	64.8
9731	2009/04/01	08:23:46	61.0	59.3	59.1	61.8	67.2
9736	2009/04/01	08:24:01	59.0	58.4	65.7	72.4	74.1
9741	2009/04/01	08:24:16	69.1	60.4	59.3	58.8	59.8
9746	2009/04/01	08:24:31	59.1	58.5	60.4	59.9	60.5
9751	2009/04/01	08:24:46	60.3	61.7	58.7	58.0	58.8
9756	2009/04/01	08:25:01	58.7	62.6	64.0	61.7	61.0
9761	2009/04/01	08:25:16	62.1	67.3	66.7	70.0	68.1
9766	2009/04/01	08:25:31	62.1	62.5	60.6	61.1	58.8
9771	2009/04/01	08:25:46	58.9	59.3	59.9	61.4	58.4
9776	2009/04/01	08:26:01	60.7	60.6	62.5	60.4	66.2
9781	2009/04/01	08:26:16	62.5	66.1	59.6	61.2	58.8
9786	2009/04/01	08:26:31	56.1	56.6	57.4	57.9	55.7
9791	2009/04/01	08:26:46	57.7	58.0	61.6	62.8	59.1
9796	2009/04/01	08:27:01	61.8	58.6	59.1	58.8	61.3
9801	2009/04/01	08:27:16	65.6	65.9	64.3	60.9	59.3
9806	2009/04/01	08:27:31	58.3	59.6	59.3	58.9	58.3
9811	2009/04/01	08:27:46	58.3	63.0	69.7	62.1	60.8
9816	2009/04/01	08:28:01	59.6	60.0	61.4	60.7	67.4
9821	2009/04/01	08:28:16	65.1	62.4	61.5	60.4	67.7
9826	2009/04/01	08:28:31	66.8	62.8	59.1	61.4	62.5

9831	2009/04/01	08:28:46	60.0	58.4	57.4	63.0	71.8
9836	2009/04/01	08:29:01	69.0	63.0	66.3	63.2	63.8
9841	2009/04/01	08:29:16	66.5	63.3	67.9	82.5	66.0
9846	2009/04/01	08:29:31	67.2	62.6	58.8	57.1	60.1
9851	2009/04/01	08:29:46	59.4	58.9	58.4	58.9	71.0
9856	2009/04/01	08:30:01	60.9	60.4	65.5	66.3	59.7
9861	2009/04/01	08:30:16	62.3	61.1	62.0	63.0	61.3
9866	2009/04/01	08:30:31	62.6	61.3	59.6	60.1	65.9
9871	2009/04/01	08:30:46	63.6	64.6	64.5	60.9	66.5
9876	2009/04/01	08:31:01	64.3	62.6	62.8	58.5	61.7
9881	2009/04/01	08:31:16	65.1	67.6	70.2	68.6	66.2
9886	2009/04/01	08:31:31	68.0	61.6	64.6	64.8	59.8
9891	2009/04/01	08:31:46	61.6	62.3	66.4	71.0	63.1
9896	2009/04/01	08:32:01	68.7	68.5	61.6	61.5	62.9
9901	2009/04/01	08:32:16	65.9	60.0	60.0	59.1	62.7
9906	2009/04/01	08:32:31	62.9	59.9	61.4	63.3	64.1
9911	2009/04/01	08:32:46	62.3	60.8	67.3	67.0	65.8
9916	2009/04/01	08:33:01	62.6	63.9	65.3	63.0	62.9
9921	2009/04/01	08:33:16	61.9	60.6	59.4	62.3	67.1
9926	2009/04/01	08:33:31	64.9	59.2	56.9	59.0	60.3
9931	2009/04/01	08:33:46	67.8	59.8	60.5	58.2	57.8
9936	2009/04/01	08:34:01	58.3	57.9	58.2	59.4	62.6
9941	2009/04/01	08:34:16	59.0	57.6	59.9	61.2	60.7
9946	2009/04/01	08:34:31	62.7	63.3	65.5	62.5	59.0
9951	2009/04/01	08:34:46	57.5	57.2	59.4	60.1	58.7
9956	2009/04/01	08:35:01	63.6	63.6	68.2	62.7	63.6
9961	2009/04/01	08:35:16	64.2	63.5	62.6	59.9	61.5
9966	2009/04/01	08:35:31	68.2	62.8	63.1	60.8	62.1
9971	2009/04/01	08:35:46	62.1	60.0	62.8	65.2	60.9
9976	2009/04/01	08:36:01	60.6	61.7	61.3	64.1	62.4
9981	2009/04/01	08:36:16	58.8	60.4	60.4	66.6	60.6
9986	2009/04/01	08:36:31	69.9	62.3	63.0	67.1	64.7
9991	2009/04/01	08:36:46	62.1	61.3	63.0	73.5	72.2
9996	2009/04/01	08:37:01	66.3	65.3	66.7	61.9	62.0
10001	2009/04/01	08:37:16	62.3	62.1	67.9	70.3	67.4
10006	2009/04/01	08:37:31	69.9	63.6	63.3	57.8	68.1
10011	2009/04/01	08:37:46	61.8	59.3	59.5	63.4	62.4
10016	2009/04/01	08:38:01	57.8	54.6	55.2	57.7	67.9
10021	2009/04/01	08:38:16	60.1	59.2	61.4	63.5	61.1
10026	2009/04/01	08:38:31	62.4	61.2	60.3	58.9	59.0
10031	2009/04/01	08:38:46	58.8	61.1	61.2	57.1	56.5
10036	2009/04/01	08:39:01	58.9	65.8	71.4	66.0	63.7
10041	2009/04/01	08:39:16	70.8	67.9	65.7	63.2	62.9
10046	2009/04/01	08:39:31	63.8	61.8	59.8	61.3	68.1
10051	2009/04/01	08:39:46	67.3	61.2	59.5	58.8	58.7
10056	2009/04/01	08:40:01	56.3	58.9	56.5	57.3	57.9
10061	2009/04/01	08:40:16	61.9	65.0	67.7	65.3	63.2
10066	2009/04/01	08:40:31	60.0	60.6	64.3	61.1	59.7
10071	2009/04/01	08:40:46	61.5	60.6	60.6	62.7	65.5
10076	2009/04/01	08:41:01	66.8	64.2	62.7	62.4	62.4
10081	2009/04/01	08:41:16	63.5	60.2	68.6	74.2	71.4
10086	2009/04/01	08:41:31	63.1	58.5	56.1	57.4	56.6
10091	2009/04/01	08:41:46	56.8	58.9	58.5	62.6	60.3
10096	2009/04/01	08:42:01	57.1	60.9	70.4	65.7	71.0
10101	2009/04/01	08:42:16	64.1	66.1	63.2	61.9	65.3
10106	2009/04/01	08:42:31	62.8	64.2	64.6	61.8	65.5
10111	2009/04/01	08:42:46	66.8	72.1	69.9	63.4	59.5
10116	2009/04/01	08:43:01	62.0	62.8	60.4	62.8	68.1
10121	2009/04/01	08:43:16	67.1	68.1	62.5	66.1	67.6
10126	2009/04/01	08:43:31	61.8	68.4	65.0	72.8	69.1
10131	2009/04/01	08:43:46	62.7	60.7	64.1	62.5	62.3
10136	2009/04/01	08:44:01	60.2	63.7	64.1	64.9	64.4
10141	2009/04/01	08:44:16	59.5	59.5	60.3	60.8	58.4
10146	2009/04/01	08:44:31	59.3	67.7	71.3	64.3	63.0
10151	2009/04/01	08:44:46	61.8	59.3	63.4	70.3	61.5
10156	2009/04/01	08:45:01	63.6	66.0	67.8	61.4	63.5
10161	2009/04/01	08:45:16	65.2	73.5	67.2	60.8	58.8
10166	2009/04/01	08:45:31	58.9	61.2	65.7	60.7	59.7
10171	2009/04/01	08:45:46	60.3	61.9	65.0	61.8	69.0
10176	2009/04/01	08:46:01	62.3	58.1	57.0	58.8	60.7
10181	2009/04/01	08:46:16	59.6	62.1	62.6	64.5	63.0
10186	2009/04/01	08:46:31	63.6	61.2	59.8	60.9	65.5
10191	2009/04/01	08:46:46	71.4	69.0	62.9	66.9	67.2
10196	2009/04/01	08:47:01	64.6	63.0	62.2	60.1	61.8
10201	2009/04/01	08:47:16	60.2	58.5	61.6	64.1	63.8
10206	2009/04/01	08:47:31	62.7	60.3	60.8	59.7	60.5
10211	2009/04/01	08:47:46	61.7	63.9	61.2	60.1	65.7
10216	2009/04/01	08:48:01	65.8	64.1	66.2	62.4	62.5
10221	2009/04/01	08:48:16	61.6	60.7	63.3	66.5	61.4
10226	2009/04/01	08:48:31	62.1	63.2	70.8	69.7	63.1
10231	2009/04/01	08:48:46	69.2	63.5	60.7	59.7	57.1
10236	2009/04/01	08:49:01	58.9	61.2	61.7	64.6	62.7
10241	2009/04/01	08:49:16	65.2	68.7	64.6	69.5	68.9
10246	2009/04/01	08:49:31	70.4	71.8	65.3	66.0	62.7
10251	2009/04/01	08:49:46	69.7	61.8	62.3	66.2	62.3
10256	2009/04/01	08:50:01	72.3	64.2	63.7	65.6	58.6
10261	2009/04/01	08:50:16	56.5	57.4	58.6	58.9	60.2
10266	2009/04/01	08:50:31	60.2	63.0	63.1	65.5	66.8
10271	2009/04/01	08:50:46	68.3	70.1	64.4	60.4	61.0
10276	2009/04/01	08:51:01	63.9	60.9	61.0	63.5	69.7
10281	2009/04/01	08:51:16	69.9	66.9	79.2	68.3	64.9
10286	2009/04/01	08:51:31	67.0	69.6	62.4	62.0	65.2
10291	2009/04/01	08:51:46	67.7	64.9	67.0	66.8	63.3
10296	2009/04/01	08:52:01	60.6	59.9	57.4	59.0	60.5
10301	2009/04/01	08:52:16	69.4	66.7	61.9	58.6	57.7
10306	2009/04/01	08:52:31	60.0	62.6	58.5	57.9	57.9
10311	2009/04/01	08:52:46	60.7	62.7	59.7	62.8	60.8
10316	2009/04/01	08:53:01	65.7	66.5	66.6	70.6	67.8
10321	2009/04/01	08:53:16	68.1	63.1	71.8	67.1	62.2

10326	2009/04/01	08:53:31	65.0	64.5	66.3	61.2	60.2
10331	2009/04/01	08:53:46	59.4	58.3	60.1	64.5	63.8
10336	2009/04/01	08:54:01	71.5	62.9	63.3	63.9	66.5
10341	2009/04/01	08:54:16	64.4	61.3	59.5	59.4	59.5
10346	2009/04/01	08:54:31	61.7	65.3	73.1	64.2	60.0
10351	2009/04/01	08:54:46	59.3	57.4	60.9	63.9	64.0
10356	2009/04/01	08:55:01	62.4	72.4	72.8	64.8	62.6
10361	2009/04/01	08:55:16	65.9	66.8	60.0	58.9	57.6
10366	2009/04/01	08:55:31	56.4	58.8	63.4	60.9	66.6
10371	2009/04/01	08:55:46	64.2	65.6	59.3	57.7	61.7
10376	2009/04/01	08:56:01	66.7	60.6	64.3	68.5	62.0
10381	2009/04/01	08:56:16	60.3	61.4	67.3	59.2	57.1
10386	2009/04/01	08:56:31	59.3	61.0	58.2	57.8	59.0
10391	2009/04/01	08:56:46	57.0	59.0	60.7	67.6	62.5
10396	2009/04/01	08:57:01	61.0	64.3	66.6	63.2	60.4
10401	2009/04/01	08:57:16	60.7	59.1	58.7	58.2	63.7
10406	2009/04/01	08:57:31	60.6	63.3	62.1	61.8	59.4
10411	2009/04/01	08:57:46	61.6	61.0	60.0	57.6	64.8
10416	2009/04/01	08:58:01	69.9	67.5	62.8	65.6	63.4
10421	2009/04/01	08:58:16	61.1	67.3	68.3	60.7	67.5
10426	2009/04/01	08:58:31	59.3	70.2	66.2	67.6	66.0
10431	2009/04/01	08:58:46	69.8	70.8	67.5	66.8	58.5
10436	2009/04/01	08:59:01	57.9	58.5	59.2	60.0	61.5
10441	2009/04/01	08:59:16	61.6	63.0	60.8	70.0	84.3
10446	2009/04/01	08:59:31	76.4	65.3	65.2	62.5	59.3
10451	2009/04/01	08:59:46	60.5	63.5	63.2	67.8	64.6
10456	2009/04/01	09:00:01	61.8	65.7	62.8	65.8	67.8
10461	2009/04/01	09:00:16	59.5	61.4	62.1	58.0	59.3
10466	2009/04/01	09:00:31	59.7	60.1	63.9	66.0	64.6
10471	2009/04/01	09:00:46	61.2	67.9	62.7	61.3	63.7
10476	2009/04/01	09:01:01	62.8	69.6	68.1	66.4	64.3
10481	2009/04/01	09:01:16	65.1	61.9	59.8	65.3	65.0
10486	2009/04/01	09:01:31	60.9	60.0	60.6	66.0	61.4
10491	2009/04/01	09:01:46	66.1	69.5	60.4	59.4	60.7
10496	2009/04/01	09:02:01	64.6	65.0	61.5	61.8	69.4
10501	2009/04/01	09:02:16	65.0	61.0	62.1	61.3	61.7
10506	2009/04/01	09:02:31	64.4	59.1	69.4	62.9	65.7
10511	2009/04/01	09:02:46	59.6	59.5	59.3	58.1	57.1
10516	2009/04/01	09:03:01	57.1	57.1	70.5	65.6	68.4
10521	2009/04/01	09:03:16	61.6	61.7	62.7	64.3	65.8
10526	2009/04/01	09:03:31	58.3	59.7	64.3	70.8	67.6
10531	2009/04/01	09:03:46	64.8	63.6	61.4	60.2	59.5
10536	2009/04/01	09:04:01	59.6	68.1	65.3	61.5	58.2
10541	2009/04/01	09:04:16	59.0	60.9	65.0	65.0	66.6
10546	2009/04/01	09:04:31	61.9	62.7	65.4	64.0	67.0
10551	2009/04/01	09:04:46	62.0	61.4	65.7	67.6	59.8
10556	2009/04/01	09:05:01	62.7	67.0	62.3	61.2	64.1
10561	2009/04/01	09:05:16	63.6	61.6	63.1	66.0	66.2
10566	2009/04/01	09:05:31	60.3	59.5	58.8	58.6	56.6
10571	2009/04/01	09:05:46	57.4	57.6	59.3	68.4	66.0
10576	2009/04/01	09:06:01	59.4	60.8	64.4	66.9	69.5
10581	2009/04/01	09:06:16	61.7	56.7	57.1	57.8	57.3
10586	2009/04/01	09:06:31	61.4	66.5	65.0	57.4	56.4
10591	2009/04/01	09:06:46	57.5	57.8	68.2	61.6	57.2
10596	2009/04/01	09:07:01	58.5	60.8	62.8	58.0	58.6
10601	2009/04/01	09:07:16	60.6	69.3	63.8	60.1	60.8
10606	2009/04/01	09:07:31	65.4	65.7	66.5	68.1	72.7
10611	2009/04/01	09:07:46	61.3	59.8	59.7	62.6	60.3
10616	2009/04/01	09:08:01	60.2	59.8	63.0	65.5	70.3
10621	2009/04/01	09:08:16	63.1	60.9	58.7	59.3	60.7
10626	2009/04/01	09:08:31	61.0	59.3	60.9	63.3	65.1
10631	2009/04/01	09:08:46	62.6	65.8	63.1	63.9	66.2
10636	2009/04/01	09:09:01	65.4	63.5	61.6	61.2	63.2
10641	2009/04/01	09:09:16	62.1	61.3	58.3	63.0	63.8
10646	2009/04/01	09:09:31	69.0	70.6	72.3	63.8	61.3
10651	2009/04/01	09:09:46	59.0	58.5	58.5	60.3	60.3
10656	2009/04/01	09:10:01	59.8	61.7	59.6	59.2	61.6
10661	2009/04/01	09:10:16	63.2	70.6	62.2	60.4	58.6
10666	2009/04/01	09:10:31	58.0	56.6	57.3	59.0	59.4
10671	2009/04/01	09:10:46	57.5	58.0	58.9	60.5	61.6
10676	2009/04/01	09:11:01	60.1	62.0	60.8	58.9	57.5
10681	2009/04/01	09:11:16	59.5	62.2	66.2	57.9	60.2
10686	2009/04/01	09:11:31	64.9	65.8	63.1	58.8	59.9
10691	2009/04/01	09:11:46	60.1	56.8	58.2	57.5	57.9
10696	2009/04/01	09:12:01	58.5	57.8	59.2	65.5	62.9
10701	2009/04/01	09:12:16	65.0	62.6	61.4	63.0	66.4
10706	2009/04/01	09:12:31	71.0	66.8	67.4	76.5	64.8
10711	2009/04/01	09:12:46	60.9	59.3	60.5	70.7	63.6
10716	2009/04/01	09:13:01	67.9	68.7	62.0	64.2	64.3
10721	2009/04/01	09:13:16	58.9	60.1	64.2	67.3	61.7
10726	2009/04/01	09:13:31	66.3	63.8	66.6	62.7	64.8
10731	2009/04/01	09:13:46	60.9	57.3	57.9	57.5	68.7
10736	2009/04/01	09:14:01	69.5	61.7	58.7	58.0	58.6
10741	2009/04/01	09:14:16	58.0	69.0	61.4	68.1	59.9
10746	2009/04/01	09:14:31	58.8	60.4	63.6	68.3	62.6
10751	2009/04/01	09:14:46	61.3	64.8	66.5	62.1	67.1
10756	2009/04/01	09:15:01	65.6	66.8	65.4	60.5	59.7
10761	2009/04/01	09:15:16	59.4	63.5	65.7	58.1	63.0
10766	2009/04/01	09:15:31	61.8	58.9	57.0	57.9	63.7
10771	2009/04/01	09:15:46	69.0	66.6	61.0	65.3	60.5
10776	2009/04/01	09:16:01	58.6	57.8	59.4	61.3	62.6
10781	2009/04/01	09:16:16	60.8	59.4	72.7	72.6	65.0
10786	2009/04/01	09:16:31	61.5	64.0	62.6	65.0	63.7
10791	2009/04/01	09:16:46	61.8	64.2	67.1	60.4	60.7
10796	2009/04/01	09:17:01	61.4	60.6	59.5	58.9	63.1
10801	2009/04/01	09:17:16	71.3	77.2	68.0	60.9	60.0
10806	2009/04/01	09:17:31	58.5	57.0	60.5	57.9	62.5
10811	2009/04/01	09:17:46	58.8	66.7	62.4	62.6	68.1
10816	2009/04/01	09:18:01	60.6	59.2	58.9	59.4	60.7

10821	2009/04/01	09:18:16	61.7	62.1	60.5	59.4	63.9
10826	2009/04/01	09:18:31	64.5	61.3	62.3	61.1	60.0
10831	2009/04/01	09:18:46	58.9	59.1	58.3	60.5	63.0
10836	2009/04/01	09:19:01	63.2	62.5	64.3	65.6	67.6
10841	2009/04/01	09:19:16	69.1	64.1	61.4	62.3	68.4
10846	2009/04/01	09:19:31	67.4	67.4	66.9	69.8	69.4
10851	2009/04/01	09:19:46	61.8	62.1	60.5	60.5	62.4
10856	2009/04/01	09:20:01	58.3	58.3	59.4	59.5	60.0
10861	2009/04/01	09:20:16	68.5	63.1	66.3	65.5	65.8
10866	2009/04/01	09:20:31	67.6	62.8	63.4	65.7	65.1
10871	2009/04/01	09:20:46	65.2	65.3	66.5	69.4	72.0
10876	2009/04/01	09:21:01	64.3	64.6	63.1	60.7	71.2
10881	2009/04/01	09:21:16	69.9	64.6	68.9	62.0	69.4
10886	2009/04/01	09:21:31	63.4	69.9	68.2	67.5	63.4
10891	2009/04/01	09:21:46	63.1	59.4	60.8	65.8	66.8
10896	2009/04/01	09:22:01	60.0	61.2	58.4	60.8	61.3
10901	2009/04/01	09:22:16	61.9	57.6	61.1	62.1	61.0
10906	2009/04/01	09:22:31	60.4	61.6	67.7	68.8	59.6
10911	2009/04/01	09:22:46	62.7	63.2	60.7	66.7	66.3
10916	2009/04/01	09:23:01	63.6	62.0	61.6	69.6	64.4
10921	2009/04/01	09:23:16	59.3	60.0	61.5	63.5	65.6
10926	2009/04/01	09:23:31	61.2	63.6	67.3	65.6	63.6
10931	2009/04/01	09:23:46	60.1	59.5	59.3	58.2	57.2
10936	2009/04/01	09:24:01	57.3	57.1	56.9	56.4	57.2
10941	2009/04/01	09:24:16	67.0	61.1	56.8	57.0	55.8
10946	2009/04/01	09:24:31	58.5	61.3	65.0	59.1	57.6
10951	2009/04/01	09:24:46	57.8	58.3	58.6	58.9	60.7
10956	2009/04/01	09:25:01	60.4	58.0	59.8	59.8	62.5
10961	2009/04/01	09:25:16	66.3	64.2	59.7	59.0	61.4
10966	2009/04/01	09:25:31	69.9	69.0	63.6	63.4	64.8
10971	2009/04/01	09:25:46	61.3	59.3	62.4	61.9	58.6
10976	2009/04/01	09:26:01	57.5	59.2	59.4	60.0	60.1
10981	2009/04/01	09:26:16	58.0	62.5	62.3	65.8	60.8
10986	2009/04/01	09:26:31	62.9	65.4	60.6	65.7	64.5
10991	2009/04/01	09:26:46	58.4	56.8	56.0	57.2	56.2
10996	2009/04/01	09:27:01	57.9	58.3	60.1	61.0	65.7
11001	2009/04/01	09:27:16	62.1	66.0	61.6	59.3	62.4
11006	2009/04/01	09:27:31	67.1	63.9	62.9	62.4	64.2
11011	2009/04/01	09:27:46	61.7	61.4	79.5	70.9	70.9
11016	2009/04/01	09:28:01	62.5	60.7	60.4	60.8	61.4
11021	2009/04/01	09:28:16	61.0	65.6	60.0	60.8	59.8
11026	2009/04/01	09:28:31	59.5	64.3	67.4	71.6	65.2
11031	2009/04/01	09:28:46	62.3	62.6	64.9	63.5	59.9
11036	2009/04/01	09:29:01	60.8	63.8	69.1	60.0	61.8
11041	2009/04/01	09:29:16	63.8	58.4	57.9	57.5	57.3
11046	2009/04/01	09:29:31	58.0	58.0	58.7	60.4	69.1
11051	2009/04/01	09:29:46	66.7	70.4	60.1	61.5	65.9
11056	2009/04/01	09:30:01	64.2	66.7	65.3	64.8	64.8
11061	2009/04/01	09:30:16	58.7	58.4	62.0	67.3	69.4
11066	2009/04/01	09:30:31	61.5	60.8	61.2	61.1	61.3
11071	2009/04/01	09:30:46	64.0	59.9	60.5	60.9	61.1
11076	2009/04/01	09:31:01	60.1	62.0	61.2	59.3	59.1
11081	2009/04/01	09:31:16	58.9	60.3	60.4	59.9	59.9
11086	2009/04/01	09:31:31	61.1	62.4	67.0	77.2	66.1
11091	2009/04/01	09:31:46	60.6	64.2	61.7	59.4	58.4
11096	2009/04/01	09:32:01	59.5	61.0	63.4	59.5	60.2
11101	2009/04/01	09:32:16	61.5	60.9	61.6	64.5	62.0
11106	2009/04/01	09:32:31	61.2	59.7	61.6	63.9	70.5
11111	2009/04/01	09:32:46	64.0	64.1	69.2	68.4	63.6
11116	2009/04/01	09:33:01	64.4	64.7	59.8	60.3	61.2
11121	2009/04/01	09:33:16	65.2	59.3	59.1	60.9	61.3
11126	2009/04/01	09:33:31	60.3	61.3	62.7	60.2	61.4
11131	2009/04/01	09:33:46	65.4	65.8	59.6	61.6	60.1
11136	2009/04/01	09:34:01	60.8	60.8	64.4	66.2	59.7
11141	2009/04/01	09:34:16	60.5	60.7	60.6	60.3	59.5
11146	2009/04/01	09:34:31	59.0	60.5	62.5	69.8	64.0
11151	2009/04/01	09:34:46	62.9	64.5	59.1	60.7	63.7
11156	2009/04/01	09:35:01	66.8	63.9	60.6	60.1	60.3
11161	2009/04/01	09:35:16	60.5	62.5	68.0	59.9	60.2
11166	2009/04/01	09:35:31	63.0	70.4	66.3	63.9	59.9
11171	2009/04/01	09:35:46	60.5	61.2	59.7	61.1	61.9
11176	2009/04/01	09:36:01	63.0	61.6	60.8	60.9	66.7
11181	2009/04/01	09:36:16	59.4	58.5	58.8	60.4	61.4
11186	2009/04/01	09:36:31	66.5	60.7	64.0	67.4	66.2
11191	2009/04/01	09:36:46	67.2	63.7	58.3	58.0	57.6
11196	2009/04/01	09:37:01	56.6	61.1	61.5	62.9	61.3
11201	2009/04/01	09:37:16	65.9	64.5	70.7	69.4	68.2
11206	2009/04/01	09:37:31	69.6	81.9	82.4	76.1	66.9
11211	2009/04/01	09:37:46	62.5	62.2	61.4	60.1	60.0
11216	2009/04/01	09:38:01	61.6	66.0	70.1	66.6	68.4
11221	2009/04/01	09:38:16	63.7	60.5	63.8	69.1	65.1
11226	2009/04/01	09:38:31	63.0	59.4	58.4	62.2	65.5
11231	2009/04/01	09:38:46	60.3	58.6	58.7	56.3	57.3
11236	2009/04/01	09:39:01	59.8	64.3	60.2	57.9	59.0
11241	2009/04/01	09:39:16	59.1	57.9	57.6	60.1	59.5
11246	2009/04/01	09:39:31	58.4	59.5	61.7	68.8	68.5
11251	2009/04/01	09:39:46	67.4	66.9	61.8	64.5	64.1
11256	2009/04/01	09:40:01	67.3	63.3	63.6	69.6	63.2
11261	2009/04/01	09:40:16	60.8	65.6	60.1	60.8	58.7
11266	2009/04/01	09:40:31	58.1	57.7	61.4	63.0	57.7
11271	2009/04/01	09:40:46	61.0	59.4	59.6	58.8	61.8
11276	2009/04/01	09:41:01	66.3	63.1	66.3	67.8	68.1
11281	2009/04/01	09:41:16	74.5	57.5	57.4	57.9	59.9
11286	2009/04/01	09:41:31	58.7	64.9	63.7	61.0	70.4
11291	2009/04/01	09:41:46	60.9	58.9	58.5	63.2	69.2
11296	2009/04/01	09:42:01	67.3	61.8	65.4	64.2	63.3
11301	2009/04/01	09:42:16	63.6	61.3	61.2	62.8	61.8
11306	2009/04/01	09:42:31	67.2	61.8	57.0	56.9	57.2
11311	2009/04/01	09:42:46	57.5	58.6	60.5	60.6	63.9

11316	2009/04/01	09:43:01	63.2	60.1	59.1	59.6	59.5
11321	2009/04/01	09:43:16	62.4	66.9	71.0	64.4	61.1
11326	2009/04/01	09:43:31	64.8	62.9	69.8	62.1	57.3
11331	2009/04/01	09:43:46	56.9	58.9	60.5	61.8	62.4
11336	2009/04/01	09:44:01	67.0	70.3	64.5	61.8	59.1
11341	2009/04/01	09:44:16	59.2	57.1	58.5	57.6	60.2
11346	2009/04/01	09:44:31	65.0	65.7	66.4	64.0	67.7
11351	2009/04/01	09:44:46	60.3	58.6	57.1	57.0	57.3
11356	2009/04/01	09:45:01	59.9	65.0	64.2	62.2	60.0
11361	2009/04/01	09:45:16	71.1	60.9	59.3	57.9	58.8
11366	2009/04/01	09:45:31	69.7	61.9	56.7	57.6	58.8
11371	2009/04/01	09:45:46	62.4	66.0	64.0	66.8	63.0
11376	2009/04/01	09:46:01	60.4	61.5	58.4	57.0	56.7
11381	2009/04/01	09:46:16	57.3	66.6	59.5	57.4	57.3
11386	2009/04/01	09:46:31	58.3	60.5	63.7	60.6	58.9
11391	2009/04/01	09:46:46	62.8	60.4	59.0	58.7	60.7
11396	2009/04/01	09:47:01	62.2	62.7	59.9	64.0	70.0
11401	2009/04/01	09:47:16	70.6	63.2	61.6	60.0	58.2
11406	2009/04/01	09:47:31	57.6	58.9	61.7	65.6	59.6
11411	2009/04/01	09:47:46	60.2	59.8	59.8	59.9	58.8
11416	2009/04/01	09:48:01	57.4	57.9	58.6	56.1	58.5
11421	2009/04/01	09:48:16	56.6	56.3	56.4	57.8	66.3
11426	2009/04/01	09:48:31	62.7	62.2	66.1	65.2	58.2
11431	2009/04/01	09:48:46	58.3	57.3	55.9	56.1	57.2
11436	2009/04/01	09:49:01	62.0	60.1	60.7	57.8	59.9
11441	2009/04/01	09:49:16	65.2	71.0	71.1	63.1	66.7
11446	2009/04/01	09:49:31	65.2	64.4	62.1	58.5	59.9
11451	2009/04/01	09:49:46	60.5	60.1	58.0	59.9	70.4
11456	2009/04/01	09:50:01	61.6	62.0	64.1	64.7	59.4
11461	2009/04/01	09:50:16	69.6	63.0	58.5	57.0	55.7
11466	2009/04/01	09:50:31	58.2	56.0	57.4	62.7	68.1
11471	2009/04/01	09:50:46	59.4	57.9	56.6	57.4	57.7
11476	2009/04/01	09:51:01	59.9	60.4	60.2	59.9	62.2
11481	2009/04/01	09:51:16	61.7	67.1	63.0	65.4	57.0
11486	2009/04/01	09:51:31	58.5	58.7	59.0	60.9	61.9
11491	2009/04/01	09:51:46	64.1	67.3	67.3	72.2	70.4
11496	2009/04/01	09:52:01	77.1	68.6	62.2	61.0	68.4
11501	2009/04/01	09:52:16	62.9	58.5	55.7	58.9	59.9
11506	2009/04/01	09:52:31	59.7	56.8	59.4	58.8	58.2
11511	2009/04/01	09:52:46	56.9	56.6	56.9	58.8	60.6
11516	2009/04/01	09:53:01	63.7	65.4	67.8	63.0	62.0
11521	2009/04/01	09:53:16	65.6	75.8	70.7	59.8	61.2
11526	2009/04/01	09:53:31	69.1	69.9	68.2	65.1	62.4
11531	2009/04/01	09:53:46	61.3	65.0	65.4	59.3	61.7
11536	2009/04/01	09:54:01	65.1	57.6	56.9	56.5	58.9
11541	2009/04/01	09:54:16	63.7	66.2	59.6	59.6	58.8
11546	2009/04/01	09:54:31	57.4	58.8	60.1	59.1	57.0
11551	2009/04/01	09:54:46	57.9	58.2	58.4	58.5	56.7
11556	2009/04/01	09:55:01	56.9	57.8	65.1	63.4	66.3
11561	2009/04/01	09:55:16	61.2	59.7	61.9	64.9	57.2
11566	2009/04/01	09:55:31	60.4	61.6	66.4	61.0	61.0
11571	2009/04/01	09:55:46	58.5	56.2	56.7	56.9	59.6
11576	2009/04/01	09:56:01	60.3	69.1	66.1	69.2	63.6
11581	2009/04/01	09:56:16	61.1	64.4	65.5	67.0	61.1
11586	2009/04/01	09:56:31	65.8	67.9	62.0	65.3	68.0
11591	2009/04/01	09:56:46	58.9	55.5	56.5	58.7	58.1
11596	2009/04/01	09:57:01	56.9	58.3	58.0	57.0	57.6
11601	2009/04/01	09:57:16	59.4	60.9	66.7	59.4	60.5
11606	2009/04/01	09:57:31	63.7	70.6	69.5	70.0	62.3
11611	2009/04/01	09:57:46	61.0	60.2	58.9	57.9	60.9
11616	2009/04/01	09:58:01	66.5	60.9	60.8	62.6	60.8
11621	2009/04/01	09:58:16	63.0	66.9	65.8	58.8	60.2
11626	2009/04/01	09:58:31	63.3	63.1	60.8	62.8	63.3
11631	2009/04/01	09:58:46	60.5	60.0	62.4	57.5	57.0
11636	2009/04/01	09:59:01	57.8	58.4	59.0	57.3	60.6
11641	2009/04/01	09:59:16	62.7	58.0	57.6	65.9	67.3
11646	2009/04/01	09:59:31	64.7	64.6	63.7	62.4	62.1
11651	2009/04/01	09:59:46	60.1	60.9	63.0	64.8	68.1
11656	2009/04/01	10:00:01	64.9	69.5	67.0	63.0	59.6
11661	2009/04/01	10:00:16	57.6	57.7	57.4	57.6	62.9
11666	2009/04/01	10:00:31	57.8	60.4	65.0	62.1	59.9
11671	2009/04/01	10:00:46	60.2	60.0	62.9	61.5	59.5
11676	2009/04/01	10:01:01	61.6	60.0	59.8	62.3	63.9
11681	2009/04/01	10:01:16	63.9	68.1	66.0	63.7	65.4
11686	2009/04/01	10:01:31	63.7	63.3	67.1	66.1	59.5
11691	2009/04/01	10:01:46	58.9	57.7	60.5	59.0	59.0
11696	2009/04/01	10:02:01	60.1	60.1	58.3	62.7	64.5
11701	2009/04/01	10:02:16	67.0	59.0	61.3	62.2	59.2
11706	2009/04/01	10:02:31	58.7	59.9	57.6	58.2	58.0
11711	2009/04/01	10:02:46	57.2	56.4	57.0	57.6	57.7
11716	2009/04/01	10:03:01	58.3	57.2	56.3	56.5	57.6
11721	2009/04/01	10:03:16	64.7	62.7	64.4	66.8	67.3
11726	2009/04/01	10:03:31	68.6	62.9	59.2	60.8	61.1
11731	2009/04/01	10:03:46	61.1	58.9	59.1	57.9	57.7
11736	2009/04/01	10:04:01	58.5	58.0	57.8	57.0	56.1
11741	2009/04/01	10:04:16	57.8	58.3	56.6	57.2	62.4
11746	2009/04/01	10:04:31	65.6	56.2	65.2	64.6	67.6
11751	2009/04/01	10:04:46	60.4	57.9	57.2	58.6	69.8
11756	2009/04/01	10:05:01	62.4	63.0	64.9	60.9	60.6
11761	2009/04/01	10:05:16	62.8	63.7	62.0	64.4	58.1
11766	2009/04/01	10:05:31	58.6	57.2	58.8	63.1	66.5
11771	2009/04/01	10:05:46	60.2	57.5	69.3	61.7	58.1
11776	2009/04/01	10:06:01	56.1	56.6	56.2	58.8	57.8
11781	2009/04/01	10:06:16	59.6	63.8	66.8	59.6	59.4
11786	2009/04/01	10:06:31	58.2	60.1	65.4	66.4	59.5
11791	2009/04/01	10:06:46	59.8	60.0	57.8	57.6	60.6
11796	2009/04/01	10:07:01	60.8	59.9	66.6	65.8	61.8
11801	2009/04/01	10:07:16	61.1	61.4	62.6	66.9	59.7
11806	2009/04/01	10:07:31	59.0	62.6	62.5	68.2	62.0

11811	2009/04/01	10:07:46	57.5	58.0	58.8	59.6	63.1
11816	2009/04/01	10:08:01	69.6	62.5	61.2	61.1	59.8
11821	2009/04/01	10:08:16	58.1	59.9	61.3	59.9	57.1
11826	2009/04/01	10:08:31	67.7	60.0	57.6	59.4	57.3
11831	2009/04/01	10:08:46	56.0	55.7	57.1	56.6	64.2
11836	2009/04/01	10:09:01	64.1	62.5	63.0	62.8	66.9
11841	2009/04/01	10:09:16	62.5	62.6	61.4	64.4	62.1
11846	2009/04/01	10:09:31	58.8	62.0	67.1	66.2	59.6
11851	2009/04/01	10:09:46	60.1	59.5	59.8	60.2	62.1
11856	2009/04/01	10:10:01	65.0	65.6	58.9	62.6	70.8
11861	2009/04/01	10:10:16	66.3	64.9	60.2	59.4	57.9
11866	2009/04/01	10:10:31	56.9	56.7	55.5	56.5	57.0
11871	2009/04/01	10:10:46	56.3	58.6	57.7	60.0	59.7
11876	2009/04/01	10:11:01	64.2	63.6	58.3	57.2	58.8
11881	2009/04/01	10:11:16	59.9	59.2	57.7	57.5	57.6
11886	2009/04/01	10:11:31	57.7	59.6	60.7	58.9	59.6
11891	2009/04/01	10:11:46	70.3	62.9	61.6	65.5	58.3
11896	2009/04/01	10:12:01	57.3	56.9	57.9	55.5	57.0
11901	2009/04/01	10:12:16	63.9	62.8	59.8	58.4	57.4
11906	2009/04/01	10:12:31	56.3	56.6	57.0	58.6	59.6
11911	2009/04/01	10:12:46	60.3	61.6	67.7	61.4	62.0
11916	2009/04/01	10:13:01	65.7	69.1	67.9	63.6	63.3
11921	2009/04/01	10:13:16	63.0	68.2	62.2	60.1	63.6
11926	2009/04/01	10:13:31	67.0	61.0	58.7	59.4	61.4
11931	2009/04/01	10:13:46	61.5	57.4	57.1	57.5	56.9
11936	2009/04/01	10:14:01	58.8	66.9	63.9	59.6	60.5
11941	2009/04/01	10:14:16	61.1	66.9	62.4	66.8	65.0
11946	2009/04/01	10:14:31	61.3	60.8	66.6	69.2	62.4
11951	2009/04/01	10:14:46	60.8	59.5	58.3	56.6	57.2
11956	2009/04/01	10:15:01	58.1	56.8	57.9	60.6	58.2
11961	2009/04/01	10:15:16	61.2	60.8	59.3	60.8	64.2
11966	2009/04/01	10:15:31	61.8	64.5	58.5	57.6	60.3
11971	2009/04/01	10:15:46	59.7	60.5	59.8	59.8	60.1
11976	2009/04/01	10:16:01	58.6	59.2	63.2	62.5	57.5
11981	2009/04/01	10:16:16	58.0	59.6	59.1	71.0	66.0
11986	2009/04/01	10:16:31	69.0	62.6	64.2	59.9	57.8
11991	2009/04/01	10:16:46	59.0	61.3	59.4	59.4	59.0
11996	2009/04/01	10:17:01	57.7	59.6	58.5	57.6	56.5
12001	2009/04/01	10:17:16	57.4	58.9	59.4	59.4	62.8
12006	2009/04/01	10:17:31	63.5	57.8	60.0	60.1	62.0
12011	2009/04/01	10:17:46	61.9	62.0	56.7	59.5	59.9
12016	2009/04/01	10:18:01	61.8	69.3	59.8	58.9	58.8
12021	2009/04/01	10:18:16	59.6	58.6	57.9	58.7	58.4
12026	2009/04/01	10:18:31	57.7	56.9	57.3	57.8	57.5
12031	2009/04/01	10:18:46	58.4	58.2	59.7	59.6	69.6
12036	2009/04/01	10:19:01	65.9	60.2	59.7	64.5	65.6
12041	2009/04/01	10:19:16	64.0	67.6	62.3	58.4	58.4
12046	2009/04/01	10:19:31	55.9	56.2	56.1	56.7	57.7
12051	2009/04/01	10:19:46	71.1	63.4	58.9	61.5	67.8
12056	2009/04/01	10:20:01	69.6	61.5	58.9	58.1	58.0
12061	2009/04/01	10:20:16	60.1	58.9	62.9	65.4	59.6
12066	2009/04/01	10:20:31	60.2	60.7	58.6	59.8	63.6
12071	2009/04/01	10:20:46	58.8	56.7	63.0	60.4	58.6
12076	2009/04/01	10:21:01	57.6	56.4	56.0	55.4	56.4
12081	2009/04/01	10:21:16	58.5	62.2	62.2	59.5	59.9
12086	2009/04/01	10:21:31	61.7	68.1	67.0	67.7	66.6
12091	2009/04/01	10:21:46	64.5	64.9	61.5	57.9	57.2
12096	2009/04/01	10:22:01	61.7	67.9	59.3	58.2	57.6
12101	2009/04/01	10:22:16	59.2	62.4	61.9	58.8	57.7
12106	2009/04/01	10:22:31	59.3	71.3	65.4	58.2	58.0
12111	2009/04/01	10:22:46	59.2	59.5	61.3	68.6	66.6
12116	2009/04/01	10:23:01	66.3	65.1	59.8	59.8	59.8
12121	2009/04/01	10:23:16	62.4	67.2	60.2	59.8	59.6
12126	2009/04/01	10:23:31	58.7	58.6	59.4	57.9	56.7
12131	2009/04/01	10:23:46	56.7	56.5	56.7	57.3	60.6
12136	2009/04/01	10:24:01	62.0	67.8	59.3	61.4	60.3
12141	2009/04/01	10:24:16	58.2	60.0	59.4	61.0	65.5
12146	2009/04/01	10:24:31	58.2	58.1	61.7	63.1	61.3
12151	2009/04/01	10:24:46	59.0	60.2	63.7	63.6	59.1
12156	2009/04/01	10:25:01	58.9	58.7	59.6	59.3	60.6
12161	2009/04/01	10:25:16	60.2	64.3	76.6	68.0	62.2
12166	2009/04/01	10:25:31	61.7	60.6	62.8	63.2	58.9
12171	2009/04/01	10:25:46	67.2	62.4	60.3	60.8	64.9
12176	2009/04/01	10:26:01	65.4	58.6	56.2	56.5	56.7
12181	2009/04/01	10:26:16	57.9	58.8	63.6	64.6	58.4
12186	2009/04/01	10:26:31	57.6	56.9	57.4	58.0	58.5
12191	2009/04/01	10:26:46	58.7	58.0	63.5	68.3	64.3
12196	2009/04/01	10:27:01	60.9	61.2	63.9	64.6	63.9
12201	2009/04/01	10:27:16	61.7	60.1	62.5	67.6	62.6
12206	2009/04/01	10:27:31	59.9	67.3	62.6	60.2	63.5
12211	2009/04/01	10:27:46	67.7	66.1	60.7	60.8	59.0
12216	2009/04/01	10:28:01	60.0	58.2	70.4	61.8	58.8
12221	2009/04/01	10:28:16	56.9	58.0	59.2	64.3	67.7
12226	2009/04/01	10:28:31	68.7	59.1	58.6	59.5	57.6
12231	2009/04/01	10:28:46	57.0	58.6	61.2	58.5	58.4
12236	2009/04/01	10:29:01	57.4	58.7	58.7	60.1	62.7
12241	2009/04/01	10:29:16	60.3	62.6	62.7	62.1	57.8
12246	2009/04/01	10:29:31	55.9	57.1	56.8	56.5	56.4
12251	2009/04/01	10:29:46	56.1	54.1	55.2	59.1	65.3
12256	2009/04/01	10:30:01	67.3	61.8	61.0	60.2	61.3
12261	2009/04/01	10:30:16	64.6	65.2	60.4	61.7	65.9
12266	2009/04/01	10:30:31	62.7	62.1	63.5	62.4	63.9
12271	2009/04/01	10:30:46	60.4	62.1	66.9	66.5	61.2
12276	2009/04/01	10:31:01	59.9	58.9	58.2	57.7	59.6
12281	2009/04/01	10:31:16	57.2	58.6	58.4	58.7	60.9
12286	2009/04/01	10:31:31	67.7	64.5	59.9	61.8	64.5
12291	2009/04/01	10:31:46	59.7	59.8	59.6	58.6	58.0
12296	2009/04/01	10:32:01	59.9	60.2	61.0	59.2	57.8
12301	2009/04/01	10:32:16	59.3	60.4	65.8	69.2	64.5

12306	2009/04/01	10:32:31	60.8	62.0	64.7	60.8	58.3
12311	2009/04/01	10:32:46	58.6	60.8	61.8	61.4	61.7
12316	2009/04/01	10:33:01	67.1	63.6	58.7	57.8	57.2
12321	2009/04/01	10:33:16	59.0	60.6	59.7	58.3	56.5
12326	2009/04/01	10:33:31	58.3	56.5	58.1	56.3	56.3
12331	2009/04/01	10:33:46	57.0	57.4	59.9	59.3	61.0
12336	2009/04/01	10:34:01	62.5	63.3	62.1	62.6	67.2
12341	2009/04/01	10:34:16	61.4	59.0	58.1	56.1	56.6
12346	2009/04/01	10:34:31	57.8	57.9	60.9	59.3	58.7
12351	2009/04/01	10:34:46	60.3	64.4	61.9	60.0	63.3
12356	2009/04/01	10:35:01	68.0	65.2	60.4	59.0	60.4
12361	2009/04/01	10:35:16	61.6	65.5	70.3	69.2	62.2
12366	2009/04/01	10:35:31	60.6	59.2	58.7	58.1	59.3
12371	2009/04/01	10:35:46	61.8	67.3	66.2	62.2	60.1
12376	2009/04/01	10:36:01	58.9	59.6	57.5	58.7	56.9
12381	2009/04/01	10:36:16	61.1	65.4	63.5	61.5	59.9
12386	2009/04/01	10:36:31	59.1	60.0	58.8	59.3	60.1
12391	2009/04/01	10:36:46	59.4	59.4	58.4	59.1	58.4
12396	2009/04/01	10:37:01	61.9	67.5	71.8	64.0	61.4
12401	2009/04/01	10:37:16	59.4	57.9	60.7	62.8	65.6
12406	2009/04/01	10:37:31	58.3	57.7	56.1	56.5	56.3
12411	2009/04/01	10:37:46	55.9	57.0	57.2	59.2	65.4
12416	2009/04/01	10:38:01	59.8	57.6	58.0	61.5	66.6
12421	2009/04/01	10:38:16	59.0	58.4	56.5	58.6	59.4
12426	2009/04/01	10:38:31	62.3	60.8	61.5	67.4	70.4
12431	2009/04/01	10:38:46	62.8	60.8	62.2	61.3	60.3
12436	2009/04/01	10:39:01	59.4	67.3	59.7	59.4	61.6
12441	2009/04/01	10:39:16	61.0	58.8	57.5	57.5	57.7
12446	2009/04/01	10:39:31	61.2	64.6	61.9	65.1	63.8
12451	2009/04/01	10:39:46	62.2	60.7	61.4	58.6	59.2
12456	2009/04/01	10:40:01	58.8	58.0	56.3	56.1	57.5
12461	2009/04/01	10:40:16	56.6	57.8	59.4	58.1	57.9
12466	2009/04/01	10:40:31	58.6	61.0	61.2	61.7	60.0
12471	2009/04/01	10:40:46	59.2	58.8	59.0	63.4	73.1
12476	2009/04/01	10:41:01	62.1	59.0	57.0	58.3	60.3
12481	2009/04/01	10:41:16	61.3	59.8	56.8	58.5	58.0
12486	2009/04/01	10:41:31	59.2	65.1	62.6	66.4	61.9
12491	2009/04/01	10:41:46	58.2	60.4	68.0	65.2	64.7
12496	2009/04/01	10:42:01	67.0	67.2	64.5	61.0	61.0
12501	2009/04/01	10:42:16	67.8	65.9	65.2	61.8	56.5
12506	2009/04/01	10:42:31	57.2	58.0	59.9	64.8	61.5
12511	2009/04/01	10:42:46	61.2	59.6	59.0	59.1	64.3
12516	2009/04/01	10:43:01	64.8	60.7	59.7	59.5	58.6
12521	2009/04/01	10:43:16	57.9	57.6	59.8	65.8	66.2
12526	2009/04/01	10:43:31	60.6	58.6	58.0	59.9	63.7
12531	2009/04/01	10:43:46	59.5	57.2	58.0	58.1	55.5
12536	2009/04/01	10:44:01	59.3	64.0	64.2	62.9	64.5
12541	2009/04/01	10:44:16	66.1	66.9	61.0	60.3	58.8
12546	2009/04/01	10:44:31	61.4	67.5	60.5	63.2	66.8
12551	2009/04/01	10:44:46	64.7	60.7	69.0	60.2	62.7
12556	2009/04/01	10:45:01	67.0	69.0	63.6	61.6	58.8
12561	2009/04/01	10:45:16	56.7	56.5	59.1	61.1	65.2
12566	2009/04/01	10:45:31	60.9	58.3	60.3	62.1	66.3
12571	2009/04/01	10:45:46	67.9	60.6	62.7	65.1	63.8
12576	2009/04/01	10:46:01	60.7	58.4	57.9	62.0	63.3
12581	2009/04/01	10:46:16	58.2	57.7	58.7	58.9	58.7
12586	2009/04/01	10:46:31	63.2	61.6	60.6	60.5	58.9
12591	2009/04/01	10:46:46	57.9	56.8	59.3	59.4	59.4
12596	2009/04/01	10:47:01	58.4	59.0	58.5	59.8	65.7
12601	2009/04/01	10:47:16	64.8	57.3	59.4	59.9	60.4
12606	2009/04/01	10:47:31	58.4	58.0	57.6	58.9	56.7
12611	2009/04/01	10:47:46	56.9	58.3	57.4	58.1	55.9
12616	2009/04/01	10:48:01	55.7	56.4	56.6	57.2	58.4
12621	2009/04/01	10:48:16	58.5	68.3	61.9	58.0	62.3
12626	2009/04/01	10:48:31	67.2	59.9	57.0	59.8	63.5
12631	2009/04/01	10:48:46	65.2	67.7	63.7	58.5	62.0
12636	2009/04/01	10:49:01	68.0	59.8	59.6	58.3	59.5
12641	2009/04/01	10:49:16	62.1	66.1	58.9	58.3	57.1
12646	2009/04/01	10:49:31	57.5	58.8	68.5	64.3	66.3
12651	2009/04/01	10:49:46	60.0	57.2	58.3	58.9	58.1
12656	2009/04/01	10:50:01	56.2	56.1	55.1	56.6	55.3
12661	2009/04/01	10:50:16	57.6	59.2	57.5	57.9	55.1
12666	2009/04/01	10:50:31	56.1	58.6	56.4	57.4	58.3
12671	2009/04/01	10:50:46	57.5	57.6	58.4	60.2	59.4
12676	2009/04/01	10:51:01	58.1	57.6	59.1	57.2	68.0
12681	2009/04/01	10:51:16	63.8	60.1	59.0	58.8	58.0
12686	2009/04/01	10:51:31	57.9	56.5	57.9	56.9	59.4
12691	2009/04/01	10:51:46	55.9	55.8	59.9	66.5	58.6
12696	2009/04/01	10:52:01	58.3	58.0	58.0	58.2	58.4
12701	2009/04/01	10:52:16	57.2	57.2	60.3	67.8	57.7
12706	2009/04/01	10:52:31	56.5	57.2	56.3	57.4	56.0
12711	2009/04/01	10:52:46	57.9	58.0	61.4	61.8	57.0
12716	2009/04/01	10:53:01	56.8	58.0	54.7	56.0	56.1
12721	2009/04/01	10:53:16	60.3	59.5	59.9	61.9	58.8
12726	2009/04/01	10:53:31	61.2	67.8	58.7	59.2	64.5
12731	2009/04/01	10:53:46	59.2	56.6	58.6	58.1	58.5
12736	2009/04/01	10:54:01	62.8	60.1	58.6	59.8	57.6
12741	2009/04/01	10:54:16	55.1	56.3	56.0	57.5	56.5
12746	2009/04/01	10:54:31	57.9	59.1	59.1	57.8	57.4
12751	2009/04/01	10:54:46	59.5	57.7	58.1	59.4	59.0
12756	2009/04/01	10:55:01	69.1	59.2	57.8	54.8	56.1
12761	2009/04/01	10:55:16	56.3	57.7	60.2	62.9	67.5
12766	2009/04/01	10:55:31	58.8	60.2	66.3	59.4	59.1
12771	2009/04/01	10:55:46	62.3	59.9	56.5	56.4	55.1
12776	2009/04/01	10:56:01	56.2	56.0	57.5	57.8	64.1
12781	2009/04/01	10:56:16	63.4	56.9	58.7	59.1	55.9
12786	2009/04/01	10:56:31	55.5	55.7	56.8	60.6	64.5
12791	2009/04/01	10:56:46	59.5	59.4	58.3	57.2	57.5
12796	2009/04/01	10:57:01	58.8	62.9	60.8	58.6	61.6

12801	2009/04/01	10:57:16	65.6	58.4	68.8	62.5	61.1
12806	2009/04/01	10:57:31	62.0	62.7	66.4	65.7	60.8
12811	2009/04/01	10:57:46	59.2	60.4	63.1	65.4	64.3
12816	2009/04/01	10:58:01	65.6	65.1	63.6	59.3	58.8
12821	2009/04/01	10:58:16	59.9	59.6	58.4	60.4	65.0
12826	2009/04/01	10:58:31	63.2	60.1	66.7	64.3	61.9
12831	2009/04/01	10:58:46	67.4	56.8	55.2	55.4	59.2
12836	2009/04/01	10:59:01	63.4	69.6	62.6	61.9	62.1
12841	2009/04/01	10:59:16	56.7	57.2	55.9	55.1	57.3
12846	2009/04/01	10:59:31	56.0	55.3	57.1	54.8	56.5
12851	2009/04/01	10:59:46	55.3	56.1	57.9	56.4	56.4
12856	2009/04/01	11:00:01	57.1	57.8	57.7	65.5	59.2
12861	2009/04/01	11:00:16	58.3	57.4	58.1	57.4	56.5
12866	2009/04/01	11:00:31	56.2	56.2	57.0	54.0	55.8
12871	2009/04/01	11:00:46	55.6	54.8	56.2	56.3	55.6
12876	2009/04/01	11:01:01	54.2	55.8	55.7	56.5	55.7
12881	2009/04/01	11:01:16	57.4	57.9	59.4	63.1	65.3
12886	2009/04/01	11:01:31	56.3	71.3	65.8	61.3	60.2
12891	2009/04/01	11:01:46	59.3	59.0	64.8	63.7	58.0
12896	2009/04/01	11:02:01	60.0	66.8	57.1	56.3	56.6
12901	2009/04/01	11:02:16	57.1	57.2	58.4	57.2	58.0
12906	2009/04/01	11:02:31	60.9	66.0	70.8	66.0	64.4
12911	2009/04/01	11:02:46	66.0	67.7	64.1	59.1	57.7
12916	2009/04/01	11:03:01	60.5	58.5	60.5	58.0	54.9
12921	2009/04/01	11:03:16	53.4	55.5	56.5	56.5	58.1
12926	2009/04/01	11:03:31	58.7	65.6	59.1	59.1	56.9
12931	2009/04/01	11:03:46	57.8	58.4	56.8	56.9	58.0
12936	2009/04/01	11:04:01	58.6	57.7	56.9	57.2	60.2
12941	2009/04/01	11:04:16	66.5	59.6	58.5	57.2	57.3
12946	2009/04/01	11:04:31	56.7	56.3	57.6	59.8	64.4
12951	2009/04/01	11:04:46	59.3	59.4	64.1	63.6	58.8
12956	2009/04/01	11:05:01	57.0	61.0	60.7	60.7	59.3
12961	2009/04/01	11:05:16	60.8	63.9	63.6	57.0	62.5
12966	2009/04/01	11:05:31	60.9	58.9	60.3	58.7	57.9
12971	2009/04/01	11:05:46	58.6	59.3	57.9	65.5	64.3
12976	2009/04/01	11:06:01	62.0	58.4	57.8	57.6	56.3
12981	2009/04/01	11:06:16	56.7	58.1	58.7	61.1	66.5
12986	2009/04/01	11:06:31	63.4	63.5	62.6	62.5	59.5
12991	2009/04/01	11:06:46	59.9	60.2	62.2	60.5	60.7
12996	2009/04/01	11:07:01	58.3	59.4	59.2	62.7	57.3
13001	2009/04/01	11:07:16	58.7	57.6	58.8	60.4	59.0
13006	2009/04/01	11:07:31	66.2	59.6	60.0	57.4	57.5
13011	2009/04/01	11:07:46	56.5	57.1	56.8	57.8	55.9
13016	2009/04/01	11:08:01	57.2	56.2	57.0	55.8	57.7
13021	2009/04/01	11:08:16	57.7	57.1	57.8	57.1	57.4
13026	2009/04/01	11:08:31	56.0	54.7	57.3	58.6	60.9
13031	2009/04/01	11:08:46	57.4	58.5	58.3	58.7	57.5
13036	2009/04/01	11:09:01	57.5	61.3	64.4	60.0	56.7
13041	2009/04/01	11:09:16	57.8	57.4	55.1	55.3	55.6
13046	2009/04/01	11:09:31	57.0	58.2	62.9	62.7	55.3
13051	2009/04/01	11:09:46	57.8	59.7	58.9	59.7	59.8
13056	2009/04/01	11:10:01	59.2	59.3	57.6	58.4	56.7
13061	2009/04/01	11:10:16	57.9	57.8	64.6	59.7	63.3
13066	2009/04/01	11:10:31	65.1	56.2	58.8	60.0	58.8
13071	2009/04/01	11:10:46	59.8	66.4	64.9	58.6	65.6
13076	2009/04/01	11:11:01	62.0	60.1	58.1	57.1	57.7
13081	2009/04/01	11:11:16	60.7	61.2	64.0	59.7	60.2
13086	2009/04/01	11:11:31	59.9	59.6	62.5	57.8	58.3
13091	2009/04/01	11:11:46	60.0	61.1	59.4	59.5	63.9
13096	2009/04/01	11:12:01	68.0	64.0	60.3	58.9	58.5
13101	2009/04/01	11:12:16	58.0	57.9	56.2	59.2	64.7
13106	2009/04/01	11:12:31	64.8	68.3	65.3	67.3	61.1
13111	2009/04/01	11:12:46	59.5	57.8	60.0	63.9	66.1
13116	2009/04/01	11:13:01	76.8	58.9	57.1	57.2	67.9
13121	2009/04/01	11:13:16	60.8	57.8	60.2	60.8	60.7
13126	2009/04/01	11:13:31	60.8	56.1	65.7	64.7	60.0
13131	2009/04/01	11:13:46	58.2	60.3	64.2	60.8	58.9
13136	2009/04/01	11:14:01	57.7	56.3	55.1	56.6	57.4
13141	2009/04/01	11:14:16	58.8	60.3	63.4	59.2	62.6
13146	2009/04/01	11:14:31	63.2	59.6	58.2	59.6	63.0
13151	2009/04/01	11:14:46	61.1	57.2	58.1	63.7	66.1
13156	2009/04/01	11:15:01	68.0	60.2	61.9	65.1	58.0
13161	2009/04/01	11:15:16	58.4	60.1	60.0	62.5	66.2
13166	2009/04/01	11:15:31	67.3	62.4	59.9	59.5	59.1
13171	2009/04/01	11:15:46	59.3	65.0	63.9	63.3	64.6
13176	2009/04/01	11:16:01	61.7	59.5	56.4	59.4	65.1
13181	2009/04/01	11:16:16	65.2	64.1	68.2	62.9	59.4
13186	2009/04/01	11:16:31	58.3	57.7	58.5	56.3	57.5
13191	2009/04/01	11:16:46	56.7	58.4	59.0	58.9	64.2
13196	2009/04/01	11:17:01	65.3	67.6	60.4	60.8	59.8
13201	2009/04/01	11:17:16	58.9	57.9	57.7	58.3	56.8
13206	2009/04/01	11:17:31	57.2	56.6	57.1	57.4	56.5
13211	2009/04/01	11:17:46	59.1	66.0	66.4	60.6	59.7
13216	2009/04/01	11:18:01	62.7	65.3	62.2	67.4	65.3
13221	2009/04/01	11:18:16	68.4	65.7	61.4	65.0	64.4
13226	2009/04/01	11:18:31	67.8	70.7	68.7	67.0	68.7
13231	2009/04/01	11:18:46	67.9	69.4	71.2	69.0	70.7
13236	2009/04/01	11:19:01	69.6	68.7	64.4	63.7	62.3
13241	2009/04/01	11:19:16	61.9	61.3	61.1	61.7	60.1
13246	2009/04/01	11:19:31	64.0	59.0	57.9	57.7	58.7
13251	2009/04/01	11:19:46	57.2	56.8	58.6	58.0	57.0
13256	2009/04/01	11:20:01	62.0	65.6	62.7	59.4	58.3
13261	2009/04/01	11:20:16	55.5	59.0	58.6	61.7	65.3
13266	2009/04/01	11:20:31	65.1	65.3	62.9	61.1	58.3
13271	2009/04/01	11:20:46	58.6	57.8	59.5	60.2	58.5
13276	2009/04/01	11:21:01	58.5	58.8	60.8	65.9	69.4
13281	2009/04/01	11:21:16	71.1	64.2	60.4	60.5	58.7
13286	2009/04/01	11:21:31	58.2	56.7	58.0	55.4	56.7
13291	2009/04/01	11:21:46	54.0	53.7	54.8	54.5	57.7

13296	2009/04/01	11:22:01	61.2	65.1	60.6	58.1	59.0
13301	2009/04/01	11:22:16	59.0	58.6	58.9	61.7	68.4
13306	2009/04/01	11:22:31	63.4	59.5	60.4	67.0	62.6
13311	2009/04/01	11:22:46	67.1	64.6	66.0	61.3	64.1
13316	2009/04/01	11:23:01	71.0	63.2	62.7	66.2	69.1
13321	2009/04/01	11:23:16	77.1	65.6	62.1	63.1	59.5
13326	2009/04/01	11:23:31	61.0	60.0	58.2	57.7	59.0
13331	2009/04/01	11:23:46	58.7	59.7	59.3	59.5	58.5
13336	2009/04/01	11:24:01	58.8	57.3	57.8	63.0	70.1
13341	2009/04/01	11:24:16	61.1	56.6	58.1	57.5	58.8
13346	2009/04/01	11:24:31	59.3	61.1	62.6	66.4	60.8
13351	2009/04/01	11:24:46	58.8	56.4	57.3	57.3	60.4
13356	2009/04/01	11:25:01	64.5	58.2	55.9	57.7	61.8
13361	2009/04/01	11:25:16	65.7	59.1	62.8	64.5	66.1
13366	2009/04/01	11:25:31	60.1	56.0	56.8	57.4	58.3
13371	2009/04/01	11:25:46	64.1	63.2	57.9	57.8	57.0
13376	2009/04/01	11:26:01	56.9	62.7	61.6	58.5	58.0
13381	2009/04/01	11:26:16	56.2	56.1	56.2	55.6	54.4
13386	2009/04/01	11:26:31	55.2	54.9	56.4	58.3	63.5
13391	2009/04/01	11:26:46	63.5	56.2	59.2	60.8	64.0
13396	2009/04/01	11:27:01	67.3	61.1	59.9	59.9	59.7
13401	2009/04/01	11:27:16	63.3	61.8	59.5	61.4	62.6
13406	2009/04/01	11:27:31	62.5	59.1	57.2	56.7	56.4
13411	2009/04/01	11:27:46	53.5	55.1	54.3	56.3	58.4
13416	2009/04/01	11:28:01	57.7	58.6	59.3	65.1	62.5
13421	2009/04/01	11:28:16	60.3	57.6	57.3	54.6	57.3
13426	2009/04/01	11:28:31	56.8	61.3	65.9	67.7	62.2
13431	2009/04/01	11:28:46	61.3	64.0	60.6	58.7	56.8
13436	2009/04/01	11:29:01	57.2	57.4	56.8	56.6	58.0
13441	2009/04/01	11:29:16	58.7	58.0	58.6	59.8	57.8
13446	2009/04/01	11:29:31	60.9	62.7	59.3	57.3	59.6
13451	2009/04/01	11:29:46	59.5	59.8	71.3	58.8	58.6
13456	2009/04/01	11:30:01	57.9	56.5	57.5	56.2	61.6
13461	2009/04/01	11:30:16	62.0	60.9	61.7	70.5	61.3
13466	2009/04/01	11:30:31	57.5	58.7	59.3	69.3	64.3
13471	2009/04/01	11:30:46	66.7	62.6	61.5	59.7	59.2
13476	2009/04/01	11:31:01	59.3	64.0	69.0	59.8	58.1
13481	2009/04/01	11:31:16	63.3	70.6	67.6	62.0	61.1
13486	2009/04/01	11:31:31	57.3	57.6	54.3	55.8	56.9
13491	2009/04/01	11:31:46	61.2	66.0	59.9	60.4	60.2
13496	2009/04/01	11:32:01	63.8	68.8	64.4	60.7	61.9
13501	2009/04/01	11:32:16	64.8	58.8	61.3	62.1	60.7
13506	2009/04/01	11:32:31	59.3	59.0	57.4	58.6	59.8
13511	2009/04/01	11:32:46	61.6	58.5	60.2	60.9	60.5
13516	2009/04/01	11:33:01	58.9	58.9	60.3	62.1	65.9
13521	2009/04/01	11:33:16	61.8	59.0	59.9	61.0	58.8
13526	2009/04/01	11:33:31	58.1	57.2	57.9	58.4	59.4
13531	2009/04/01	11:33:46	63.5	63.0	58.5	58.9	58.6
13536	2009/04/01	11:34:01	57.1	56.3	57.9	56.0	58.2
13541	2009/04/01	11:34:16	56.4	57.9	57.6	57.9	56.8
13546	2009/04/01	11:34:31	56.9	59.7	64.7	62.5	59.3
13551	2009/04/01	11:34:46	59.6	59.2	59.1	59.6	60.2
13556	2009/04/01	11:35:01	59.4	60.4	62.5	64.1	59.5
13561	2009/04/01	11:35:16	59.2	58.9	60.9	64.1	65.9
13566	2009/04/01	11:35:31	69.1	60.4	59.1	58.1	58.5
13571	2009/04/01	11:35:46	59.0	58.7	58.8	58.1	58.9
13576	2009/04/01	11:36:01	57.4	57.1	59.8	63.7	68.9
13581	2009/04/01	11:36:16	63.0	59.4	58.8	58.0	57.9
13586	2009/04/01	11:36:31	59.6	60.7	64.6	62.1	65.1
13591	2009/04/01	11:36:46	58.7	59.4	58.2	58.6	58.2
13596	2009/04/01	11:37:01	58.5	63.6	68.6	61.1	59.1
13601	2009/04/01	11:37:16	65.2	64.6	62.7	64.1	66.8
13606	2009/04/01	11:37:31	64.2	60.4	59.5	58.1	59.6
13611	2009/04/01	11:37:46	59.7	59.0	60.5	59.3	58.8
13616	2009/04/01	11:38:01	59.4	58.6	58.8	63.2	66.3
13621	2009/04/01	11:38:16	58.6	56.4	55.6	55.6	56.4
13626	2009/04/01	11:38:31	56.4	56.3	56.4	57.2	59.5
13631	2009/04/01	11:38:46	65.3	68.4	60.5	58.5	58.6
13636	2009/04/01	11:39:01	58.6	58.5	58.9	58.2	59.7
13641	2009/04/01	11:39:16	58.2	60.1	59.6	60.3	65.0
13646	2009/04/01	11:39:31	58.5	58.6	62.4	63.6	58.8
13651	2009/04/01	11:39:46	59.0	58.7	58.9	57.5	59.7
13656	2009/04/01	11:40:01	59.6	71.1	62.7	58.5	57.1
13661	2009/04/01	11:40:16	58.5	55.7	56.4	55.0	56.7
13666	2009/04/01	11:40:31	56.7	61.2	62.3	61.2	61.7
13671	2009/04/01	11:40:46	64.3	58.9	58.3	58.8	57.6
13676	2009/04/01	11:41:01	55.4	57.9	57.5	54.8	55.8
13681	2009/04/01	11:41:16	64.0	68.3	62.4	64.1	65.7
13686	2009/04/01	11:41:31	61.9	56.1	55.8	56.7	62.0
13691	2009/04/01	11:41:46	71.8	62.6	61.8	62.2	59.0
13696	2009/04/01	11:42:01	57.3	56.9	57.3	55.2	55.3
13701	2009/04/01	11:42:16	55.3	55.7	54.4	55.6	56.7
13706	2009/04/01	11:42:31	55.1	55.9	54.8	55.7	54.2
13711	2009/04/01	11:42:46	53.9	54.5	54.8	55.9	58.2
13716	2009/04/01	11:43:01	67.1	59.4	58.2	57.9	56.4
13721	2009/04/01	11:43:16	55.1	56.5	54.0	55.2	55.8
13726	2009/04/01	11:43:31	55.6	55.8	56.6	58.7	59.0
13731	2009/04/01	11:43:46	61.9	65.7	65.1	60.4	56.9
13736	2009/04/01	11:44:01	55.5	57.2	54.8	56.3	57.8
13741	2009/04/01	11:44:16	56.3	57.5	54.4	55.8	54.5
13746	2009/04/01	11:44:31	53.9	57.6	57.9	58.5	57.9
13751	2009/04/01	11:44:46	57.8	57.9	58.3	57.6	57.1
13756	2009/04/01	11:45:01	58.7	55.3	65.6	60.3	66.8
13761	2009/04/01	11:45:16	63.6	57.6	57.4	56.5	56.4
13766	2009/04/01	11:45:31	56.6	56.9	56.3	56.9	56.6
13771	2009/04/01	11:45:46	56.2	56.7	56.3	55.6	55.2
13776	2009/04/01	11:46:01	56.9	56.2	56.0	59.1	57.9
13781	2009/04/01	11:46:16	56.4	58.3	63.0	65.9	61.1
13786	2009/04/01	11:46:31	64.5	61.3	58.9	56.4	56.0

13791	2009/04/01	11:46:46	56.8	56.7	57.4	58.3	57.0
13796	2009/04/01	11:47:01	55.6	67.6	63.7	60.9	56.2
13801	2009/04/01	11:47:16	56.3	55.1	56.9	55.1	61.1
13806	2009/04/01	11:47:31	60.1	57.4	56.2	56.3	59.3
13811	2009/04/01	11:47:46	67.1	63.6	60.2	60.5	59.0
13816	2009/04/01	11:48:01	58.4	57.7	60.5	64.2	71.7
13821	2009/04/01	11:48:16	68.0	61.6	60.2	58.4	57.2
13826	2009/04/01	11:48:31	59.2	57.5	60.2	59.5	63.0
13831	2009/04/01	11:48:46	63.1	57.5	56.8	58.1	59.2
13836	2009/04/01	11:49:01	58.7	59.2	59.7	59.5	67.9
13841	2009/04/01	11:49:16	61.6	60.4	59.9	61.0	63.1
13846	2009/04/01	11:49:31	56.9	62.9	61.9	58.5	59.5
13851	2009/04/01	11:49:46	57.3	58.1	59.4	59.7	57.8
13856	2009/04/01	11:50:01	64.3	68.3	64.0	58.7	56.4
13861	2009/04/01	11:50:16	55.2	55.7	58.6	61.4	63.4
13866	2009/04/01	11:50:31	57.7	58.5	57.6	58.3	57.4
13871	2009/04/01	11:50:46	58.5	58.8	60.9	65.7	59.7
13876	2009/04/01	11:51:01	58.8	66.6	61.0	57.1	56.1
13881	2009/04/01	11:51:16	57.0	57.0	57.4	57.6	58.0
13886	2009/04/01	11:51:31	57.7	59.3	59.5	58.6	60.4
13891	2009/04/01	11:51:46	59.1	60.7	58.7	59.6	58.0
13896	2009/04/01	11:52:01	58.0	59.7	62.5	65.5	60.5
13901	2009/04/01	11:52:16	55.4	54.7	56.1	57.2	58.0
13906	2009/04/01	11:52:31	57.3	57.1	57.6	55.8	56.7
13911	2009/04/01	11:52:46	55.9	57.4	58.0	59.2	58.8
13916	2009/04/01	11:53:01	60.2	59.4	59.6	58.7	58.3
13921	2009/04/01	11:53:16	57.3	59.8	56.9	56.4	57.9
13926	2009/04/01	11:53:31	52.5	52.2	53.1	57.9	58.6
13931	2009/04/01	11:53:46	60.1	58.3	61.0	61.6	62.2
13936	2009/04/01	11:54:01	59.2	59.2	58.7	58.3	59.1
13941	2009/04/01	11:54:16	59.0	59.7	60.4	59.0	58.9
13946	2009/04/01	11:54:31	58.8	58.2	57.1	56.8	59.3
13951	2009/04/01	11:54:46	57.5	58.7	59.4	60.0	65.5
13956	2009/04/01	11:55:01	66.3	61.7	61.6	63.6	69.7
13961	2009/04/01	11:55:16	57.8	60.8	60.2	58.6	56.1
13966	2009/04/01	11:55:31	53.5	54.9	57.7	58.2	57.8
13971	2009/04/01	11:55:46	56.7	58.8	57.1	57.3	64.7
13976	2009/04/01	11:56:01	67.6	60.8	62.9	59.4	57.0
13981	2009/04/01	11:56:16	58.0	57.4	58.0	60.1	57.5
13986	2009/04/01	11:56:31	60.6	57.2	57.7	59.3	60.5
13991	2009/04/01	11:56:46	61.6	59.0	58.6	60.8	59.5
13996	2009/04/01	11:57:01	61.1	66.3	67.2	60.2	60.3
14001	2009/04/01	11:57:16	59.2	59.9	65.0	67.0	57.6
14006	2009/04/01	11:57:31	59.9	62.5	56.0	55.4	58.2
14011	2009/04/01	11:57:46	64.5	59.6	58.8	60.8	69.7
14016	2009/04/01	11:58:01	68.1	63.3	68.6	59.5	59.8
14021	2009/04/01	11:58:16	61.4	57.9	59.5	69.8	61.8
14026	2009/04/01	11:58:31	60.1	58.7	57.5	60.2	58.3
14031	2009/04/01	11:58:46	56.5	56.8	59.2	57.3	62.0
14036	2009/04/01	11:59:01	69.6	63.7	61.4	60.4	65.0
14041	2009/04/01	11:59:16	59.6	56.9	59.1	59.2	64.1
14046	2009/04/01	11:59:31	68.8	61.1	65.4	62.3	60.9
14051	2009/04/01	11:59:46	59.0	58.9	60.3	60.9	59.7
14056	2009/04/01	12:00:01	58.2	58.9	57.1	57.9	57.9
14061	2009/04/01	12:00:16	57.1	58.3	56.6	57.3	56.4
14066	2009/04/01	12:00:31	58.7	60.7	60.5	57.7	55.9
14071	2009/04/01	12:00:46	61.2	57.9	57.4	60.9	60.3
14076	2009/04/01	12:01:01	59.9	71.1	74.3	75.7	60.9
14081	2009/04/01	12:01:16	58.0	61.1	61.1	60.4	57.1
14086	2009/04/01	12:01:31	58.4	58.9	60.4	62.5	66.2
14091	2009/04/01	12:01:46	60.3	60.5	69.8	61.1	59.0
14096	2009/04/01	12:02:01	58.6	58.6	61.3	61.6	60.6
14101	2009/04/01	12:02:16	63.4	71.1	66.6	62.6	59.5
14106	2009/04/01	12:02:31	58.4	59.0	57.8	58.6	57.7
14111	2009/04/01	12:02:46	67.6	61.6	58.0	60.8	66.9
14116	2009/04/01	12:03:01	58.4	55.0	55.7	54.3	55.9
14121	2009/04/01	12:03:16	54.1	53.5	55.4	56.0	57.4
14126	2009/04/01	12:03:31	58.2	58.1	58.7	56.5	61.2
14131	2009/04/01	12:03:46	64.4	57.9	57.0	56.8	57.1
14136	2009/04/01	12:04:01	56.2	57.4	56.5	58.0	60.0
14141	2009/04/01	12:04:16	59.2	59.3	60.3	64.1	72.4
14146	2009/04/01	12:04:31	62.9	62.9	62.7	64.8	63.4
14151	2009/04/01	12:04:46	66.4	58.1	58.2	57.9	57.8
14156	2009/04/01	12:05:01	57.6	56.7	59.7	58.1	59.7
14161	2009/04/01	12:05:16	61.8	64.0	64.7	65.3	62.5
14166	2009/04/01	12:05:31	66.7	62.0	61.0	62.7	68.2
14171	2009/04/01	12:05:46	64.3	66.2	71.9	74.6	72.4
14176	2009/04/01	12:06:01	72.6	73.8	73.8	67.0	67.3
14181	2009/04/01	12:06:16	67.4	63.9	63.5	66.6	61.8
14186	2009/04/01	12:06:31	62.3	71.4	61.9	64.7	63.0
14191	2009/04/01	12:06:46	57.3	57.9	58.7	57.4	58.4
14196	2009/04/01	12:07:01	59.9	65.3	59.4	57.9	56.7
14201	2009/04/01	12:07:16	56.4	56.4	58.9	59.4	56.9
14206	2009/04/01	12:07:31	58.3	63.3	64.6	61.3	58.5
14211	2009/04/01	12:07:46	60.1	61.2	59.1	59.3	61.9
14216	2009/04/01	12:08:01	62.1	58.0	60.5	59.8	59.6
14221	2009/04/01	12:08:16	57.3	59.3	56.3	59.0	60.1
14226	2009/04/01	12:08:31	67.4	68.6	58.7	56.4	55.0
14231	2009/04/01	12:08:46	57.5	55.2	55.0	56.9	57.1
14236	2009/04/01	12:09:01	61.1	62.2	65.8	61.6	61.3
14241	2009/04/01	12:09:16	66.7	62.7	64.8	59.2	58.2
14246	2009/04/01	12:09:31	58.8	58.3	55.2	55.8	56.1
14251	2009/04/01	12:09:46	56.6	55.5	54.0	56.1	54.8
14256	2009/04/01	12:10:01	56.2	57.3	55.9	57.4	55.1
14261	2009/04/01	12:10:16	58.0	58.5	61.6	59.7	59.9
14266	2009/04/01	12:10:31	59.5	59.6	60.3	65.5	63.4
14271	2009/04/01	12:10:46	59.2	61.7	62.2	56.3	57.8
14276	2009/04/01	12:11:01	64.5	59.8	55.5	58.7	55.8
14281	2009/04/01	12:11:16	54.3	56.0	56.5	56.9	57.6

14286	2009/04/01	12:11:31	61.3	66.6	59.5	59.5	66.1
14291	2009/04/01	12:11:46	62.6	64.0	62.4	59.1	63.3
14296	2009/04/01	12:12:01	61.3	62.1	66.8	62.5	60.4
14301	2009/04/01	12:12:16	59.2	57.9	58.0	62.8	61.9
14306	2009/04/01	12:12:31	59.3	60.2	58.6	60.0	68.5
14311	2009/04/01	12:12:46	61.0	60.8	58.7	63.0	57.5
14316	2009/04/01	12:13:01	57.8	58.6	57.6	58.3	58.4
14321	2009/04/01	12:13:16	60.2	59.1	59.0	57.6	58.9
14326	2009/04/01	12:13:31	59.8	59.7	59.7	62.8	66.8
14331	2009/04/01	12:13:46	64.5	65.1	58.8	59.3	57.8
14336	2009/04/01	12:14:01	58.0	57.1	60.2	57.2	58.8
14341	2009/04/01	12:14:16	57.9	62.3	67.3	64.6	65.6
14346	2009/04/01	12:14:31	64.4	57.8	61.1	62.2	64.5
14351	2009/04/01	12:14:46	60.1	59.0	60.8	59.4	59.2
14356	2009/04/01	12:15:01	59.3	59.7	60.1	60.0	63.2
14361	2009/04/01	12:15:16	61.9	65.9	60.6	58.7	58.7
14366	2009/04/01	12:15:31	57.5	58.8	60.7	60.1	62.6
14371	2009/04/01	12:15:46	68.3	66.4	60.7	63.3	57.7
14376	2009/04/01	12:16:01	57.6	58.2	57.4	60.0	59.8
14381	2009/04/01	12:16:16	65.2	59.2	59.8	60.7	59.9
14386	2009/04/01	12:16:31	59.9	60.0	60.1	59.5	61.0
14391	2009/04/01	12:16:46	59.4	61.5	61.1	57.6	61.5
14396	2009/04/01	12:17:01	62.2	67.4	65.3	62.4	58.8
14401	2009/04/01	12:17:16	61.2	63.5	66.7	62.5	60.3
14406	2009/04/01	12:17:31	60.8	59.2	58.3	58.3	58.4
14411	2009/04/01	12:17:46	58.7	58.2	55.9	59.4	58.7
14416	2009/04/01	12:18:01	58.5	58.5	60.9	59.1	65.7
14421	2009/04/01	12:18:16	67.8	60.1	59.4	61.2	60.4
14426	2009/04/01	12:18:31	59.4	60.2	58.7	61.8	64.0
14431	2009/04/01	12:18:46	67.6	60.6	60.1	58.9	60.5
14436	2009/04/01	12:19:01	68.9	61.1	61.7	66.3	63.0
14441	2009/04/01	12:19:16	63.8	66.8	65.9	60.5	57.8
14446	2009/04/01	12:19:31	57.4	54.9	56.5	55.5	55.5
14451	2009/04/01	12:19:46	56.4	57.1	55.2	59.2	59.5
14456	2009/04/01	12:20:01	63.5	58.0	58.5	54.8	56.0
14461	2009/04/01	12:20:16	58.2	57.6	63.1	66.6	59.0
14466	2009/04/01	12:20:31	59.0	66.2	60.2	57.0	58.4
14471	2009/04/01	12:20:46	61.1	59.3	59.7	61.6	58.1
14476	2009/04/01	12:21:01	60.6	58.7	58.2	56.9	56.7
14481	2009/04/01	12:21:16	58.7	58.7	59.6	60.8	63.4
14486	2009/04/01	12:21:31	60.5	59.5	60.4	60.0	61.5
14491	2009/04/01	12:21:46	61.0	60.7	63.3	67.5	60.8
14496	2009/04/01	12:22:01	64.8	71.0	69.5	61.3	68.6
14501	2009/04/01	12:22:16	61.9	60.1	62.6	61.3	61.9
14506	2009/04/01	12:22:31	59.9	60.7	61.7	70.2	61.6
14511	2009/04/01	12:22:46	56.6	60.1	55.9	58.7	63.8
14516	2009/04/01	12:23:01	65.8	59.0	59.8	57.4	57.7
14521	2009/04/01	12:23:16	59.0	64.3	61.4	58.9	59.8
14526	2009/04/01	12:23:31	60.1	55.6	56.4	57.3	61.0
14531	2009/04/01	12:23:46	69.0	64.0	62.3	65.2	60.8
14536	2009/04/01	12:24:01	59.8	59.9	64.5	64.9	58.5
14541	2009/04/01	12:24:16	59.4	59.7	59.9	65.7	62.1
14546	2009/04/01	12:24:31	60.5	59.3	60.7	59.9	59.6
14551	2009/04/01	12:24:46	63.5	63.7	59.0	62.3	58.4
14556	2009/04/01	12:25:01	58.7	59.4	57.7	56.2	58.3
14561	2009/04/01	12:25:16	58.3	58.6	57.9	60.4	60.9
14566	2009/04/01	12:25:31	60.5	63.9	67.8	64.3	67.6
14571	2009/04/01	12:25:46	65.9	66.0	64.4	62.3	60.9
14576	2009/04/01	12:26:01	59.7	58.9	61.2	64.4	64.4
14581	2009/04/01	12:26:16	67.5	63.7	61.3	61.6	61.3
14586	2009/04/01	12:26:31	60.7	58.7	57.4	59.1	58.8
14591	2009/04/01	12:26:46	57.0	56.5	58.0	56.8	60.1
14596	2009/04/01	12:27:01	60.8	58.4	59.6	58.0	61.1
14601	2009/04/01	12:27:16	66.5	66.3	62.6	62.0	59.9
14606	2009/04/01	12:27:31	57.6	56.6	56.2	55.8	57.5
14611	2009/04/01	12:27:46	60.0	59.0	62.8	69.1	69.3
14616	2009/04/01	12:28:01	62.3	60.6	60.4	56.9	59.7
14621	2009/04/01	12:28:16	58.8	58.8	57.6	57.4	56.7
14626	2009/04/01	12:28:31	59.0	65.0	63.2	67.9	62.7
14631	2009/04/01	12:28:46	64.1	60.2	60.4	59.5	61.4
14636	2009/04/01	12:29:01	68.0	61.4	60.9	61.4	59.9
14641	2009/04/01	12:29:16	58.3	57.2	61.6	71.0	62.4
14646	2009/04/01	12:29:31	63.5	59.5	59.4	58.6	58.2
14651	2009/04/01	12:29:46	58.2	59.3	56.8	57.0	57.2
14656	2009/04/01	12:30:01	55.9	58.9	58.0	59.4	61.8
14661	2009/04/01	12:30:16	61.1	59.3	58.3	59.8	59.8
14666	2009/04/01	12:30:31	61.7	60.2	59.3	65.3	68.5
14671	2009/04/01	12:30:46	65.0	58.1	57.8	57.7	59.6
14676	2009/04/01	12:31:01	65.0	56.9	54.4	58.0	54.9
14681	2009/04/01	12:31:16	55.3	57.3	55.1	56.6	58.8
14686	2009/04/01	12:31:31	58.2	57.1	57.7	57.9	56.8
14691	2009/04/01	12:31:46	57.0	55.7	60.4	66.1	67.4
14696	2009/04/01	12:32:01	58.5	59.9	58.5	61.4	56.1
14701	2009/04/01	12:32:16	57.0	56.7	58.3	62.3	65.7
14706	2009/04/01	12:32:31	63.8	62.7	57.9	61.5	63.0
14711	2009/04/01	12:32:46	60.5	63.3	59.7	60.7	58.6
14716	2009/04/01	12:33:01	61.9	61.1	63.0	60.3	59.7
14721	2009/04/01	12:33:16	57.8	57.8	60.5	59.7	59.3
14726	2009/04/01	12:33:31	60.0	58.2	59.0	58.4	58.9
14731	2009/04/01	12:33:46	62.0	68.7	69.6	60.9	56.6
14736	2009/04/01	12:34:01	54.8	55.7	55.8	59.9	65.7
14741	2009/04/01	12:34:16	74.7	59.4	60.0	59.5	62.0
14746	2009/04/01	12:34:31	65.8	67.0	60.0	58.1	58.2
14751	2009/04/01	12:34:46	58.8	56.5	56.0	57.6	59.5
14756	2009/04/01	12:35:01	58.3	62.4	71.5	60.9	57.0
14761	2009/04/01	12:35:16	56.7	58.2	58.0	63.0	64.8
14766	2009/04/01	12:35:31	61.6	60.1	61.5	63.8	67.9
14771	2009/04/01	12:35:46	63.5	59.1	59.8	60.8	62.0
14776	2009/04/01	12:36:01	59.1	64.2	65.6	61.2	60.2

14781	2009/04/01	12:36:16	57.6	57.9	55.6	52.1	55.6
14786	2009/04/01	12:36:31	53.3	53.9	54.7	56.5	57.3
14791	2009/04/01	12:36:46	56.4	57.8	62.1	70.3	70.0
14796	2009/04/01	12:37:01	59.7	61.0	67.8	58.6	57.7
14801	2009/04/01	12:37:16	60.0	63.9	58.3	60.1	61.0
14806	2009/04/01	12:37:31	60.1	62.0	62.5	72.2	61.1
14811	2009/04/01	12:37:46	59.5	59.0	56.2	57.0	56.0
14816	2009/04/01	12:38:01	53.7	55.2	58.0	58.2	56.2
14821	2009/04/01	12:38:16	54.7	54.0	56.1	55.3	56.5
14826	2009/04/01	12:38:31	56.4	57.6	55.6	57.5	58.7
14831	2009/04/01	12:38:46	60.5	60.7	60.6	71.4	60.8
14836	2009/04/01	12:39:01	60.1	61.1	61.8	61.6	59.4
14841	2009/04/01	12:39:16	56.2	58.4	56.8	56.8	59.7
14846	2009/04/01	12:39:31	57.0	57.1	59.8	57.3	57.6
14851	2009/04/01	12:39:46	58.4	70.3	61.1	57.9	55.5
14856	2009/04/01	12:40:01	55.8	56.3	58.6	61.4	64.9
14861	2009/04/01	12:40:16	59.1	58.4	63.2	62.8	57.4
14866	2009/04/01	12:40:31	59.4	57.3	56.4	57.8	56.6
14871	2009/04/01	12:40:46	65.4	59.2	57.1	58.7	59.5
14876	2009/04/01	12:41:01	57.7	59.9	59.6	62.0	60.6
14881	2009/04/01	12:41:16	72.4	73.1	72.1	64.3	67.4
14886	2009/04/01	12:41:31	65.0	65.6	65.1	59.4	58.1
14891	2009/04/01	12:41:46	59.1	61.3	65.1	58.5	55.3
14896	2009/04/01	12:42:01	54.8	53.9	55.1	52.6	54.4
14901	2009/04/01	12:42:16	55.2	58.0	54.8	56.1	60.4
14906	2009/04/01	12:42:31	64.5	55.2	57.5	65.2	64.7
14911	2009/04/01	12:42:46	58.9	52.7	56.7	53.1	56.0
14916	2009/04/01	12:43:01	56.3	55.0	55.6	56.3	55.9
14921	2009/04/01	12:43:16	59.4	56.7	59.4	55.2	52.9
14926	2009/04/01	12:43:31	52.6	50.6	51.8	53.7	57.4
14931	2009/04/01	12:43:46	63.9	63.8	57.3	58.2	56.7
14936	2009/04/01	12:44:01	56.7	56.2	59.9	60.0	59.6
14941	2009/04/01	12:44:16	56.6	56.6	57.6	61.7	70.4
14946	2009/04/01	12:44:31	61.1	56.4	56.4	54.0	53.4
14951	2009/04/01	12:44:46	52.7	56.5	65.4	58.6	56.7
14956	2009/04/01	12:45:01	56.1	58.5	57.7	63.3	64.0
14961	2009/04/01	12:45:16	57.7	58.2	68.3	62.8	58.6
14966	2009/04/01	12:45:31	58.2	64.4	65.9	53.9	58.0
14971	2009/04/01	12:45:46	59.0	58.2	55.1	56.1	51.3
14976	2009/04/01	12:46:01	52.1	51.8	54.2	57.2	58.3
14981	2009/04/01	12:46:16	62.9	62.7	57.5	56.3	57.3
14986	2009/04/01	12:46:31	55.5	54.1	54.9	52.3	53.1
14991	2009/04/01	12:46:46	56.1	55.7	57.7	61.6	58.3
14996	2009/04/01	12:47:01	55.1	59.9	66.3	74.1	64.2
15001	2009/04/01	12:47:16	61.8	58.8	57.4	55.3	57.2
15006	2009/04/01	12:47:31	57.5	57.8	56.3	57.9	54.1
15011	2009/04/01	12:47:46	53.8	54.4	56.5	55.2	54.5
15016	2009/04/01	12:48:01	56.1	55.6	56.9	55.5	56.4
15021	2009/04/01	12:48:16	56.1	55.5	57.0	57.1	53.5
15026	2009/04/01	12:48:31	54.5	65.3	70.8	61.1	59.9
15031	2009/04/01	12:48:46	59.8	60.3	55.5	56.1	57.6
15036	2009/04/01	12:49:01	61.0	70.2	62.0	63.9	65.0
15041	2009/04/01	12:49:16	66.0	57.3	60.5	60.3	62.8
15046	2009/04/01	12:49:31	68.9	67.3	60.2	59.1	56.5
15051	2009/04/01	12:49:46	54.4	53.8	53.9	55.5	59.9
15056	2009/04/01	12:50:01	61.3	68.1	68.0	63.2	63.9
15061	2009/04/01	12:50:16	60.1	60.2	66.3	69.9	61.5
15066	2009/04/01	12:50:31	69.7	70.0	62.7	59.7	57.7
15071	2009/04/01	12:50:46	58.0	58.2	57.7	57.1	56.4
15076	2009/04/01	12:51:01	57.7	56.1	58.7	58.8	60.0
15081	2009/04/01	12:51:16	61.4	60.2	58.6	62.6	66.9
15086	2009/04/01	12:51:31	67.3	59.6	57.8	60.2	58.0
15091	2009/04/01	12:51:46	56.4	58.9	62.4	61.1	56.5
15096	2009/04/01	12:52:01	57.6	58.9	62.8	68.0	59.5
15101	2009/04/01	12:52:16	59.8	56.6	54.7	52.5	52.0
15106	2009/04/01	12:52:31	53.6	53.5	53.3	55.1	55.7
15111	2009/04/01	12:52:46	59.5	61.8	57.1	55.2	54.6
15116	2009/04/01	12:53:01	56.6	56.7	56.6	56.7	57.2
15121	2009/04/01	12:53:16	55.9	57.9	55.1	57.8	56.2
15126	2009/04/01	12:53:31	57.7	54.7	58.1	56.8	58.7
15131	2009/04/01	12:53:46	63.2	66.7	59.9	65.6	64.8
15136	2009/04/01	12:54:01	64.8	60.8	56.3	56.7	58.7
15141	2009/04/01	12:54:16	56.5	60.3	66.6	65.4	57.5
15146	2009/04/01	12:54:31	60.7	69.4	60.9	59.8	60.3
15151	2009/04/01	12:54:46	59.5	58.2	57.0	56.7	58.6
15156	2009/04/01	12:55:01	57.0	57.3	56.5	56.0	64.7
15161	2009/04/01	12:55:16	59.7	55.5	55.2	56.2	57.6
15166	2009/04/01	12:55:31	62.2	68.0	64.9	65.9	59.6
15171	2009/04/01	12:55:46	58.0	58.1	69.3	65.1	61.8
15176	2009/04/01	12:56:01	57.7	55.7	55.5	54.5	54.9
15181	2009/04/01	12:56:16	54.4	54.8	57.1	66.8	62.3
15186	2009/04/01	12:56:31	65.0	61.9	60.8	59.1	56.1
15191	2009/04/01	12:56:46	55.4	54.0	52.2	55.1	55.4
15196	2009/04/01	12:57:01	58.4	58.9	63.4	68.0	61.7
15201	2009/04/01	12:57:16	56.2	55.8	55.0	59.0	65.0
15206	2009/04/01	12:57:31	58.1	61.4	68.1	58.7	63.7
15211	2009/04/01	12:57:46	70.7	61.2	59.4	57.1	56.2
15216	2009/04/01	12:58:01	56.9	65.8	59.2	62.8	67.1
15221	2009/04/01	12:58:16	62.2	61.3	65.5	66.3	58.8
15226	2009/04/01	12:58:31	59.4	58.8	62.7	61.4	57.8
15231	2009/04/01	12:58:46	57.1	55.6	56.2	57.4	54.9
15236	2009/04/01	12:59:01	54.6	55.1	52.6	54.1	53.1
15241	2009/04/01	12:59:16	52.1	54.0	55.1	52.3	53.3
15246	2009/04/01	12:59:31	54.1	59.5	61.2	58.5	59.5
15251	2009/04/01	12:59:46	63.3	61.7	57.8	59.9	57.1
15256	2009/04/01	13:00:01	56.6	57.9	56.2	56.1	55.7
15261	2009/04/01	13:00:16	58.9	62.8	67.7	57.1	55.5
15266	2009/04/01	13:00:31	57.7	57.6	56.9	55.7	56.2
15271	2009/04/01	13:00:46	58.8	63.8	58.8	59.2	62.6

15276	2009/04/01	13:01:01	59.2	57.4	58.0	58.7	64.7
15281	2009/04/01	13:01:16	70.5	60.7	57.8	57.0	53.2
15286	2009/04/01	13:01:31	52.9	64.0	63.2	55.0	55.8
15291	2009/04/01	13:01:46	56.9	58.7	60.8	63.9	64.6
15296	2009/04/01	13:02:01	69.6	68.8	70.8	72.5	72.0
15301	2009/04/01	13:02:16	76.4	78.3	74.5	71.4	66.8
15306	2009/04/01	13:02:31	65.1	59.6	60.8	58.7	57.6
15311	2009/04/01	13:02:46	58.7	56.7	58.2	55.9	55.1
15316	2009/04/01	13:03:01	56.7	54.8	53.6	54.0	52.3
15321	2009/04/01	13:03:16	51.7	52.7	53.3	53.7	55.8
15326	2009/04/01	13:03:31	54.4	55.7	53.8	54.5	57.3
15331	2009/04/01	13:03:46	61.0	60.9	65.0	67.2	61.4
15336	2009/04/01	13:04:01	58.8	60.5	65.2	59.6	56.4
15341	2009/04/01	13:04:16	58.4	54.4	58.8	56.7	55.4
15346	2009/04/01	13:04:31	54.4	51.8	54.1	55.3	58.3
15351	2009/04/01	13:04:46	57.2	61.2	64.9	58.0	56.9
15356	2009/04/01	13:05:01	58.4	57.6	58.2	53.2	55.9
15361	2009/04/01	13:05:16	55.4	55.9	53.7	58.1	55.2
15366	2009/04/01	13:05:31	58.8	54.5	55.2	55.7	58.3
15371	2009/04/01	13:05:46	55.2	57.0	57.5	64.1	58.3
15376	2009/04/01	13:06:01	55.7	57.3	54.3	54.8	57.0
15381	2009/04/01	13:06:16	56.8	67.3	60.5	56.2	54.8
15386	2009/04/01	13:06:31	59.1	57.0	57.1	58.4	57.3
15391	2009/04/01	13:06:46	58.6	56.6	58.4	56.9	54.6
15396	2009/04/01	13:07:01	59.3	55.1	56.1	57.9	56.6
15401	2009/04/01	13:07:16	55.3	56.4	57.1	58.9	62.6
15406	2009/04/01	13:07:31	66.9	58.5	60.3	62.1	61.4
15411	2009/04/01	13:07:46	66.9	62.0	55.2	55.0	54.7
15416	2009/04/01	13:08:01	57.0	59.3	56.7	58.3	59.2
15421	2009/04/01	13:08:16	64.5	66.1	59.4	62.2	61.5
15426	2009/04/01	13:08:31	64.7	64.2	57.0	58.8	55.0
15431	2009/04/01	13:08:46	53.1	55.1	56.0	54.7	55.0
15436	2009/04/01	13:09:01	57.5	59.9	55.1	56.2	67.2
15441	2009/04/01	13:09:16	68.3	59.6	62.2	62.6	56.6
15446	2009/04/01	13:09:31	55.0	52.7	53.5	54.5	56.2
15451	2009/04/01	13:09:46	58.2	62.2	67.4	59.7	60.0
15456	2009/04/01	13:10:01	61.6	57.2	62.0	64.2	56.2
15461	2009/04/01	13:10:16	60.9	61.7	67.6	65.7	66.1
15466	2009/04/01	13:10:31	63.1	59.9	63.4	63.3	56.4
15471	2009/04/01	13:10:46	61.2	58.9	58.3	62.7	64.2
15476	2009/04/01	13:11:01	55.1	56.1	57.9	55.7	57.6
15481	2009/04/01	13:11:16	56.6	55.7	56.2	59.8	69.9
15486	2009/04/01	13:11:31	59.3	58.5	57.0	57.8	57.4
15491	2009/04/01	13:11:46	54.5	55.5	55.6	54.5	55.3
15496	2009/04/01	13:12:01	53.7	56.0	55.6	60.9	63.0
15501	2009/04/01	13:12:16	56.4	56.6	57.5	56.1	59.7
15506	2009/04/01	13:12:31	61.5	59.4	57.5	57.8	56.7
15511	2009/04/01	13:12:46	58.8	64.3	60.5	57.1	55.5
15516	2009/04/01	13:13:01	59.5	65.6	63.8	57.8	59.0
15521	2009/04/01	13:13:16	57.1	60.1	57.5	59.5	57.0
15526	2009/04/01	13:13:31	56.0	57.4	55.7	56.2	56.7
15531	2009/04/01	13:13:46	54.8	55.2	54.0	57.1	55.2
15536	2009/04/01	13:14:01	56.0	55.2	55.8	55.9	56.2
15541	2009/04/01	13:14:16	54.8	55.9	57.4	55.1	54.6
15546	2009/04/01	13:14:31	55.1	57.3	54.9	57.1	58.4
15551	2009/04/01	13:14:46	58.1	60.0	57.0	60.9	59.6
15556	2009/04/01	13:15:01	69.4	69.1	59.5	58.6	55.6
15561	2009/04/01	13:15:16	55.5	55.6	61.7	62.9	68.9
15566	2009/04/01	13:15:31	59.7	61.5	60.1	55.5	56.0
15571	2009/04/01	13:15:46	57.5	59.2	60.6	58.1	59.3
15576	2009/04/01	13:16:01	61.1	67.4	62.5	65.5	58.6
15581	2009/04/01	13:16:16	58.6	56.8	57.1	59.0	58.8
15586	2009/04/01	13:16:31	60.3	57.2	57.5	53.4	57.2
15591	2009/04/01	13:16:46	53.9	52.4	57.2	64.6	58.4
15596	2009/04/01	13:17:01	62.3	62.0	56.3	54.4	53.7
15601	2009/04/01	13:17:16	53.7	54.1	57.0	61.3	61.1
15606	2009/04/01	13:17:31	56.7	56.7	54.0	56.1	62.4
15611	2009/04/01	13:17:46	66.1	57.3	56.6	57.4	57.6
15616	2009/04/01	13:18:01	57.6	55.1	57.4	53.6	56.0
15621	2009/04/01	13:18:16	56.3	57.9	61.1	64.7	60.4
15626	2009/04/01	13:18:31	59.1	57.8	57.3	58.3	60.2
15631	2009/04/01	13:18:46	61.0	57.7	58.8	58.5	56.7
15636	2009/04/01	13:19:01	57.7	57.1	59.2	57.6	58.1
15641	2009/04/01	13:19:16	57.8	57.1	56.9	54.7	57.1
15646	2009/04/01	13:19:31	56.7	59.3	58.4	58.1	57.0
15651	2009/04/01	13:19:46	56.7	57.2	55.5	60.7	68.9
15656	2009/04/01	13:20:01	58.0	56.3	56.1	53.2	51.5
15661	2009/04/01	13:20:16	55.0	59.9	66.1	56.6	56.8
15666	2009/04/01	13:20:31	70.2	62.0	57.2	55.7	57.4
15671	2009/04/01	13:20:46	55.3	58.1	56.0	55.4	56.0
15676	2009/04/01	13:21:01	54.5	55.4	56.1	53.2	53.4
15681	2009/04/01	13:21:16	56.2	55.8	60.0	67.5	56.6
15686	2009/04/01	13:21:31	55.8	59.7	56.1	57.5	55.5
15691	2009/04/01	13:21:46	55.6	56.6	53.7	54.5	57.3
15696	2009/04/01	13:22:01	56.6	58.5	55.1	57.4	58.7
15701	2009/04/01	13:22:16	64.0	65.1	59.6	53.7	53.3
15706	2009/04/01	13:22:31	52.7	52.7	54.5	57.4	55.2
15711	2009/04/01	13:22:46	63.0	52.5	52.5	51.9	51.3
15716	2009/04/01	13:23:01	54.7	57.9	53.8	55.9	54.3
15721	2009/04/01	13:23:16	57.4	52.5	53.7	53.9	54.6
15726	2009/04/01	13:23:31	53.1	54.4	53.4	54.9	52.0
15731	2009/04/01	13:23:46	56.0	51.5	48.8	52.5	52.4
15736	2009/04/01	13:24:01	52.4	55.3	59.3	65.9	58.1
15741	2009/04/01	13:24:16	56.4	58.0	59.2	56.1	53.7
15746	2009/04/01	13:24:31	56.2	55.3	53.1	55.2	54.9
15751	2009/04/01	13:24:46	57.3	58.3	60.5	64.6	55.6
15756	2009/04/01	13:25:01	54.7	58.6	56.4	55.4	52.5
15761	2009/04/01	13:25:16	52.0	54.5	51.0	52.4	51.6
15766	2009/04/01	13:25:31	54.4	54.1	55.9	55.5	55.4

15771	2009/04/01	13:25:46	56.2	55.7	53.5	53.9	55.4
15776	2009/04/01	13:26:01	56.6	57.7	58.7	59.9	58.5
15781	2009/04/01	13:26:16	63.7	66.4	58.2	58.3	60.3
15786	2009/04/01	13:26:31	59.5	57.8	54.6	52.8	53.1
15791	2009/04/01	13:26:46	51.1	52.8	54.8	57.1	57.2
15796	2009/04/01	13:27:01	57.8	57.9	57.0	57.8	52.8
15801	2009/04/01	13:27:16	57.0	52.4	52.1	53.0	53.5
15806	2009/04/01	13:27:31	54.8	55.1	55.3	57.4	66.4
15811	2009/04/01	13:27:46	62.8	56.1	55.4	55.8	58.6
15816	2009/04/01	13:28:01	63.4	59.1	65.1	58.1	54.7
15821	2009/04/01	13:28:16	56.4	57.4	58.8	63.3	58.4
15826	2009/04/01	13:28:31	60.4	58.1	58.5	57.1	57.2
15831	2009/04/01	13:28:46	56.7	58.8	59.1	53.7	55.5
15836	2009/04/01	13:29:01	61.8	73.3	65.5	60.1	59.9
15841	2009/04/01	13:29:16	60.6	59.2	59.2	61.5	55.9
15846	2009/04/01	13:29:31	55.9	55.9	58.5	57.5	57.7
15851	2009/04/01	13:29:46	56.0	58.8	55.7	57.9	56.1
15856	2009/04/01	13:30:01	57.7	58.6	54.8	54.5	54.7
15861	2009/04/01	13:30:16	55.6	56.6	56.8	56.3	54.8
15866	2009/04/01	13:30:31	56.8	54.3	55.4	55.2	56.6
15871	2009/04/01	13:30:46	54.8	56.3	55.8	57.0	58.7
15876	2009/04/01	13:31:01	56.8	56.6	54.7	56.0	55.2
15881	2009/04/01	13:31:16	55.9	53.4	55.6	54.7	52.3
15886	2009/04/01	13:31:31	54.3	51.2	54.4	63.1	63.8
15891	2009/04/01	13:31:46	58.2	53.0	59.2	64.4	55.7
15896	2009/04/01	13:32:01	53.0	53.9	53.1	53.0	52.3
15901	2009/04/01	13:32:16	52.8	59.4	66.2	58.0	55.6
15906	2009/04/01	13:32:31	53.8	54.3	54.2	53.0	51.2
15911	2009/04/01	13:32:46	52.3	52.7	50.6	54.1	51.3
15916	2009/04/01	13:33:01	51.1	54.5	50.6	52.0	52.7
15921	2009/04/01	13:33:16	52.7	54.6	53.5	55.5	53.1
15926	2009/04/01	13:33:31	54.1	52.1	57.0	54.8	54.2
15931	2009/04/01	13:33:46	55.5	53.2	54.3	54.0	54.5
15936	2009/04/01	13:34:01	52.1	55.0	55.8	56.3	62.9
15941	2009/04/01	13:34:16	61.0	58.8	55.9	58.2	55.6
15946	2009/04/01	13:34:31	53.3	54.6	54.3	55.3	58.9
15951	2009/04/01	13:34:46	65.0	63.5	54.6	52.0	52.6
15956	2009/04/01	13:35:01	53.2	53.3	56.4	54.6	53.7
15961	2009/04/01	13:35:16	57.0	53.3	55.8	53.5	55.0
15966	2009/04/01	13:35:31	55.9	52.7	56.1	54.2	53.8
15971	2009/04/01	13:35:46	56.4	54.5	55.5	56.1	53.0
15976	2009/04/01	13:36:01	56.3	54.2	55.2	57.1	54.2
15981	2009/04/01	13:36:16	54.7	54.7	54.8	51.6	52.8
15986	2009/04/01	13:36:31	51.1	51.8	50.7	50.8	51.0
15991	2009/04/01	13:36:46	52.0	53.4	52.5	51.8	55.2
15996	2009/04/01	13:37:01	51.2	52.3	52.7	52.2	53.3
16001	2009/04/01	13:37:16	52.5	52.3	52.0	53.3	50.3
16006	2009/04/01	13:37:31	51.7	48.4	49.9	49.3	48.6
16011	2009/04/01	13:37:46	51.8	52.1	52.3	54.1	53.1
16016	2009/04/01	13:38:01	53.9	54.4	56.9	51.8	55.1
16021	2009/04/01	13:38:16	60.5	64.9	55.1	52.9	52.1
16026	2009/04/01	13:38:31	52.8	52.5	52.0	51.0	51.6
16031	2009/04/01	13:38:46	51.0	52.6	53.4	54.1	52.1
16036	2009/04/01	13:39:01	53.0	53.8	52.4	54.8	49.0
16041	2009/04/01	13:39:16	53.4	47.2	51.1	48.6	48.4
16046	2009/04/01	13:39:31	55.6	55.0	56.3	55.8	56.3
16051	2009/04/01	13:39:46	54.9	56.4	53.8	55.6	56.5
16056	2009/04/01	13:40:01	55.6	54.8	55.4	55.1	59.3
16061	2009/04/01	13:40:16	57.1	53.2	54.4	59.4	70.7
16066	2009/04/01	13:40:31	60.8	59.0	55.8	53.8	56.6
16071	2009/04/01	13:40:46	52.7	57.0	56.3	58.4	56.8
16076	2009/04/01	13:41:01	56.7	58.2	56.7	54.8	55.3
16081	2009/04/01	13:41:16	52.8	52.9	53.5	51.7	51.5
16086	2009/04/01	13:41:31	51.1	51.2	48.4	50.7	54.3
16091	2009/04/01	13:41:46	56.0	51.8	52.9	53.7	51.1
16096	2009/04/01	13:42:01	54.2	54.1	56.5	57.2	55.9
16101	2009/04/01	13:42:16	53.9	53.9	52.2	50.7	49.2
16106	2009/04/01	13:42:31	49.6	50.5	51.9	54.1	56.0
16111	2009/04/01	13:42:46	53.7	55.3	51.5	56.3	52.3
16116	2009/04/01	13:43:01	53.9	55.1	55.5	58.3	57.0
16121	2009/04/01	13:43:16	56.1	57.5	56.8	65.5	60.8
16126	2009/04/01	13:43:31	54.9	57.0	55.8	61.3	67.2
16131	2009/04/01	13:43:46	59.4	56.0	56.3	56.6	52.7
16136	2009/04/01	13:44:01	52.5	53.5	50.1	51.0	48.3
16141	2009/04/01	13:44:16	48.8	48.6	54.7	59.1	64.8
16146	2009/04/01	13:44:31	55.2	53.3	55.1	53.9	54.1
16151	2009/04/01	13:44:46	52.0	52.9	51.9	53.2	54.0
16156	2009/04/01	13:45:01	54.5	54.3	55.1	54.1	55.3
16161	2009/04/01	13:45:16	52.6	54.5	53.7	52.2	54.1
16166	2009/04/01	13:45:31	56.4	53.2	59.7	55.2	55.6
16171	2009/04/01	13:45:46	58.0	62.0	55.9	56.0	55.3
16176	2009/04/01	13:46:01	55.0	54.7	54.7	51.0	52.3
16181	2009/04/01	13:46:16	49.7	50.1	49.5	52.8	51.6
16186	2009/04/01	13:46:31	52.4	50.9	54.1	55.0	58.4
16191	2009/04/01	13:46:46	66.0	56.1	56.7	58.0	57.4
16196	2009/04/01	13:47:01	56.3	52.6	52.5	52.8	54.8
16201	2009/04/01	13:47:16	56.7	54.8	55.5	56.4	63.8
16206	2009/04/01	13:47:31	67.6	59.6	56.3	55.7	52.0
16211	2009/04/01	13:47:46	53.5	55.5	54.6	55.1	52.8
16216	2009/04/01	13:48:01	57.5	60.1	61.1	60.2	55.8
16221	2009/04/01	13:48:16	56.0	55.6	58.2	57.9	59.0
16226	2009/04/01	13:48:31	55.1	61.6	62.6	55.9	57.7
16231	2009/04/01	13:48:46	58.6	62.7	63.9	57.5	57.9
16236	2009/04/01	13:49:01	58.2	58.3	56.5	56.2	55.5
16241	2009/04/01	13:49:16	54.5	54.0	51.2	58.7	64.2
16246	2009/04/01	13:49:31	72.7	62.0	52.2	51.0	49.2
16251	2009/04/01	13:49:46	48.4	50.4	51.5	53.6	51.2
16256	2009/04/01	13:50:01	53.9	52.3	57.1	56.4	57.4
16261	2009/04/01	13:50:16	55.6	59.2	64.2	67.4	59.6

16266	2009/04/01	13:50:31	57.3	58.4	58.3	58.4	58.0
16271	2009/04/01	13:50:46	56.2	59.1	55.9	55.2	53.0
16276	2009/04/01	13:51:01	55.0	52.2	53.1	54.1	53.9
16281	2009/04/01	13:51:16	55.3	54.2	54.7	51.7	52.6
16286	2009/04/01	13:51:31	54.0	55.2	55.8	54.8	55.8
16291	2009/04/01	13:51:46	58.3	58.6	64.8	64.2	53.0
16296	2009/04/01	13:52:01	56.4	58.7	55.9	54.1	56.4
16301	2009/04/01	13:52:16	51.9	53.0	53.6	51.7	55.0
16306	2009/04/01	13:52:31	50.9	55.4	50.2	56.2	55.4
16311	2009/04/01	13:52:46	55.2	57.9	55.7	55.6	55.5
16316	2009/04/01	13:53:01	53.6	52.3	51.9	52.3	51.1
16321	2009/04/01	13:53:16	50.8	49.1	48.9	50.6	49.9
16326	2009/04/01	13:53:31	52.5	54.2	54.6	57.6	57.3
16331	2009/04/01	13:53:46	57.1	57.7	57.9	54.0	54.9
16336	2009/04/01	13:54:01	59.4	52.8	52.5	55.2	50.9
16341	2009/04/01	13:54:16	55.3	53.2	53.0	55.2	55.7
16346	2009/04/01	13:54:31	54.9	56.2	55.9	56.2	55.1
16351	2009/04/01	13:54:46	56.9	56.1	57.2	54.2	55.9
16356	2009/04/01	13:55:01	56.3	51.0	55.9	49.7	53.0
16361	2009/04/01	13:55:16	48.1	50.3	51.7	53.3	50.5
16366	2009/04/01	13:55:31	52.6	52.5	52.8	53.0	51.8
16371	2009/04/01	13:55:46	51.4	51.4	51.9	52.2	55.3
16376	2009/04/01	13:56:01	56.0	54.8	53.5	51.4	54.8
16381	2009/04/01	13:56:16	54.1	59.7	65.3	59.8	54.3
16386	2009/04/01	13:56:31	53.3	50.6	52.0	52.7	51.8
16391	2009/04/01	13:56:46	55.1	53.3	55.4	51.6	54.2
16396	2009/04/01	13:57:01	54.1	55.1	56.2	53.7	56.6
16401	2009/04/01	13:57:16	52.5	51.6	52.6	51.6	47.1
16406	2009/04/01	13:57:31	53.1	50.9	54.3	54.9	55.2
16411	2009/04/01	13:57:46	55.5	55.3	56.7	56.3	54.5
16416	2009/04/01	13:58:01	53.7	53.4	52.8	52.6	49.7
16421	2009/04/01	13:58:16	49.9	49.3	50.7	52.9	51.9
16426	2009/04/01	13:58:31	51.9	53.4	55.2	57.3	55.3
16431	2009/04/01	13:58:46	58.4	54.7	57.7	57.2	57.3
16436	2009/04/01	13:59:01	56.7	56.7	59.1	59.9	56.0
16441	2009/04/01	13:59:16	58.2	65.7	64.4	59.7	57.7
16446	2009/04/01	13:59:31	53.6	54.6	52.1	51.7	53.0
16451	2009/04/01	13:59:46	53.1	54.6	55.1	58.5	54.5
16456	2009/04/01	14:00:01	57.5	57.3	58.1	55.3	55.3
16461	2009/04/01	14:00:16	52.8	47.8	50.4	51.7	54.4
16466	2009/04/01	14:00:31	53.9	53.8	55.5	51.4	49.8
16471	2009/04/01	14:00:46	47.7	51.0	55.8	56.2	58.8
16476	2009/04/01	14:01:01	55.8	56.4	54.7	49.6	57.7
16481	2009/04/01	14:01:16	70.5	59.6	57.5	55.7	55.2
16486	2009/04/01	14:01:31	52.1	52.7	54.6	48.7	56.1
16491	2009/04/01	14:01:46	54.7	55.3	57.8	54.4	56.1
16496	2009/04/01	14:02:01	54.8	52.2	53.6	55.1	51.6
16501	2009/04/01	14:02:16	53.4	53.5	52.7	54.4	57.5
16506	2009/04/01	14:02:31	51.7	53.1	53.0	54.0	54.6
16511	2009/04/01	14:02:46	55.2	54.9	56.1	55.7	61.6
16516	2009/04/01	14:03:01	60.4	56.6	60.1	55.9	60.5
16521	2009/04/01	14:03:16	68.3	56.0	55.2	54.6	53.0
16526	2009/04/01	14:03:31	55.0	60.8	59.9	52.4	55.2
16531	2009/04/01	14:03:46	55.2	53.7	51.6	53.2	58.3
16536	2009/04/01	14:04:01	65.8	55.7	54.9	52.6	53.2
16541	2009/04/01	14:04:16	52.6	54.2	53.1	53.7	53.8
16546	2009/04/01	14:04:31	51.7	52.4	50.7	52.2	53.0
16551	2009/04/01	14:04:46	52.4	52.4	53.1	53.0	54.2
16556	2009/04/01	14:05:01	51.1	50.6	56.1	60.8	67.6
16561	2009/04/01	14:05:16	57.0	53.3	53.3	54.2	55.2
16566	2009/04/01	14:05:31	63.5	61.8	57.2	59.3	58.0
16571	2009/04/01	14:05:46	55.8	61.0	56.6	58.9	58.1
16576	2009/04/01	14:06:01	52.7	59.7	56.5	54.6	55.1
16581	2009/04/01	14:06:16	58.1	58.3	62.9	58.9	60.7
16586	2009/04/01	14:06:31	56.6	53.6	56.1	52.1	55.7
16591	2009/04/01	14:06:46	54.3	56.0	56.1	58.2	54.9
16596	2009/04/01	14:07:01	56.3	55.8	67.0	57.5	54.0
16601	2009/04/01	14:07:16	53.8	53.7	50.2	50.1	46.2
16606	2009/04/01	14:07:31	48.4	49.8	54.2	54.8	55.3
16611	2009/04/01	14:07:46	55.0	55.0	54.9	52.1	51.4
16616	2009/04/01	14:08:01	52.0	55.2	52.3	52.8	50.8
16621	2009/04/01	14:08:16	51.5	51.3	52.4	49.8	51.9
16626	2009/04/01	14:08:31	53.2	56.1	57.6	61.7	59.0
16631	2009/04/01	14:08:46	55.5	53.7	54.2	56.4	55.9
16636	2009/04/01	14:09:01	55.5	54.0	54.4	53.8	50.4
16641	2009/04/01	14:09:16	51.8	51.8	51.8	55.1	54.0
16646	2009/04/01	14:09:31	60.8	56.1	61.1	65.7	55.0
16651	2009/04/01	14:09:46	57.2	53.1	56.8	53.8	50.8
16656	2009/04/01	14:10:01	50.9	54.1	49.3	50.8	51.3
16661	2009/04/01	14:10:16	53.4	56.1	59.8	57.1	58.7
16666	2009/04/01	14:10:31	55.5	55.5	53.5	51.5	55.6
16671	2009/04/01	14:10:46	52.9	55.2	55.2	58.0	57.3
16676	2009/04/01	14:11:01	59.9	55.6	54.3	60.8	67.7
16681	2009/04/01	14:11:16	68.3	63.7	66.2	54.8	51.6
16686	2009/04/01	14:11:31	47.4	48.7	49.7	48.9	52.8
16691	2009/04/01	14:11:46	52.6	53.8	52.4	52.0	55.8
16696	2009/04/01	14:12:01	53.1	55.6	56.7	54.1	53.2
16701	2009/04/01	14:12:16	56.5	53.5	54.2	55.4	54.9
16706	2009/04/01	14:12:31	57.5	50.0	57.5	52.1	53.1
16711	2009/04/01	14:12:46	54.8	54.6	56.3	53.0	55.1
16716	2009/04/01	14:13:01	55.1	54.7	55.7	52.9	51.2
16721	2009/04/01	14:13:16	50.2	51.0	53.7	55.0	55.7
16726	2009/04/01	14:13:31	54.6	55.4	55.5	57.2	54.7
16731	2009/04/01	14:13:46	53.9	52.0	53.9	48.1	48.6
16736	2009/04/01	14:14:01	46.6	49.7	46.8	50.3	49.1
16741	2009/04/01	14:14:16	50.3	52.2	51.4	55.3	56.5
16746	2009/04/01	14:14:31	57.1	59.6	60.4	60.2	68.6
16751	2009/04/01	14:14:46	59.3	65.5	51.3	53.9	48.6
16756	2009/04/01	14:15:01	47.1	48.5	51.2	51.2	52.6

16761	2009/04/01	14:15:16	55.4	57.8	59.6	53.0	51.6
16766	2009/04/01	14:15:31	54.4	52.1	54.8	53.7	53.4
16771	2009/04/01	14:15:46	56.5	53.3	56.6	51.8	53.7
16776	2009/04/01	14:16:01	54.8	52.4	53.3	57.6	53.7
16781	2009/04/01	14:16:16	53.1	55.5	62.2	67.2	56.9
16786	2009/04/01	14:16:31	54.2	51.8	52.7	52.2	56.0
16791	2009/04/01	14:16:46	60.3	65.7	59.4	57.7	57.5
16796	2009/04/01	14:17:01	59.0	64.7	63.3	61.3	60.2
16801	2009/04/01	14:17:16	63.4	62.6	60.7	59.7	56.8
16806	2009/04/01	14:17:31	56.3	56.7	55.7	54.7	52.7
16811	2009/04/01	14:17:46	53.2	57.5	53.0	50.8	51.7
16816	2009/04/01	14:18:01	46.7	46.1	48.5	48.3	49.4
16821	2009/04/01	14:18:16	48.6	48.9	50.5	49.2	53.7
16826	2009/04/01	14:18:31	49.6	52.8	49.4	54.3	47.8
16831	2009/04/01	14:18:46	49.8	49.6	48.9	49.4	54.7
16836	2009/04/01	14:19:01	55.0	52.0	52.3	59.3	70.4
16841	2009/04/01	14:19:16	59.9	59.6	62.5	62.1	55.2
16846	2009/04/01	14:19:31	67.1	60.2	57.9	58.1	54.5
16851	2009/04/01	14:19:46	55.7	53.6	49.0	50.0	51.1
16856	2009/04/01	14:20:01	51.6	53.1	53.4	54.7	56.7
16861	2009/04/01	14:20:16	62.5	56.4	53.9	55.3	54.7
16866	2009/04/01	14:20:31	52.2	49.7	47.3	49.4	52.6
16871	2009/04/01	14:20:46	49.1	48.8	50.2	51.3	50.1
16876	2009/04/01	14:21:01	50.8	53.4	55.0	55.5	55.6
16881	2009/04/01	14:21:16	55.8	53.8	52.8	55.7	68.8
16886	2009/04/01	14:21:31	60.1	55.0	52.5	55.1	53.7
16891	2009/04/01	14:21:46	55.7	51.6	52.7	50.2	50.8
16896	2009/04/01	14:22:01	57.4	50.0	57.1	59.6	54.7
16901	2009/04/01	14:22:16	54.4	54.9	54.2	53.7	52.5
16906	2009/04/01	14:22:31	50.3	50.3	51.3	51.5	53.9
16911	2009/04/01	14:22:46	54.4	55.5	57.5	56.3	55.0
16916	2009/04/01	14:23:01	53.8	49.2	50.6	50.5	49.9
16921	2009/04/01	14:23:16	48.7	50.7	49.2	50.3	50.9
16926	2009/04/01	14:23:31	50.0	51.8	57.6	62.7	60.4
16931	2009/04/01	14:23:46	58.9	59.5	60.9	56.0	57.5
16936	2009/04/01	14:24:01	57.0	62.2	67.3	62.3	60.4
16941	2009/04/01	14:24:16	59.9	59.4	62.7	66.2	63.6
16946	2009/04/01	14:24:31	67.3	70.8	71.2	69.2	70.5
16951	2009/04/01	14:24:46	70.5	70.3	68.9	68.5	66.1
16956	2009/04/01	14:25:01	64.1	63.2	61.8	61.1	57.9
16961	2009/04/01	14:25:16	57.9	55.9	54.2	54.2	50.9
16966	2009/04/01	14:25:31	51.3	50.6	47.6	51.8	50.9
16971	2009/04/01	14:25:46	50.2	52.5	51.1	52.2	47.3
16976	2009/04/01	14:26:01	48.3	47.3	51.0	53.4	52.9
16981	2009/04/01	14:26:16	55.8	55.7	58.8	53.5	54.2
16986	2009/04/01	14:26:31	54.8	54.1	55.4	55.2	56.0
16991	2009/04/01	14:26:46	54.0	50.8	54.2	52.4	54.4
16996	2009/04/01	14:27:01	48.1	50.9	52.6	55.6	56.7
17001	2009/04/01	14:27:16	56.0	56.2	56.4	56.8	52.8
17006	2009/04/01	14:27:31	49.7	50.0	48.3	49.3	50.1
17011	2009/04/01	14:27:46	50.7	49.2	53.0	50.0	52.2
17016	2009/04/01	14:28:01	53.6	53.7	53.8	53.3	52.2
17021	2009/04/01	14:28:16	53.2	57.3	65.9	56.0	56.1
17026	2009/04/01	14:28:31	53.2	53.2	52.5	52.2	48.7
17031	2009/04/01	14:28:46	47.8	49.3	48.9	52.2	53.0
17036	2009/04/01	14:29:01	55.2	54.5	53.4	58.4	51.8
17041	2009/04/01	14:29:16	54.7	51.6	50.0	47.5	45.3
17046	2009/04/01	14:29:31	45.0	45.5	45.9	48.4	51.4
17051	2009/04/01	14:29:46	53.5	52.9	54.3	51.2	54.4
17056	2009/04/01	14:30:01	52.9	55.3	54.8	55.9	50.9
17061	2009/04/01	14:30:16	53.3	51.9	50.4	51.6	49.2
17066	2009/04/01	14:30:31	49.2	51.4	51.5	53.8	54.1
17071	2009/04/01	14:30:46	57.2	65.3	61.3	57.0	56.5
17076	2009/04/01	14:31:01	58.2	54.1	52.9	58.8	60.7
17081	2009/04/01	14:31:16	54.0	54.7	52.5	53.2	60.0
17086	2009/04/01	14:31:31	60.9	69.7	61.0	60.2	57.6
17091	2009/04/01	14:31:46	56.1	54.3	54.7	52.4	53.8
17096	2009/04/01	14:32:01	50.5	51.1	51.2	56.8	55.0
17101	2009/04/01	14:32:16	55.8	58.2	55.9	57.9	52.5
17106	2009/04/01	14:32:31	55.3	54.5	55.0	54.9	54.4
17111	2009/04/01	14:32:46	55.8	59.6	62.9	56.6	53.1
17116	2009/04/01	14:33:01	53.0	53.0	52.7	51.8	53.4
17121	2009/04/01	14:33:16	51.6	51.3	51.6	51.3	52.9
17126	2009/04/01	14:33:31	51.6	50.4	49.6	50.2	49.0
17131	2009/04/01	14:33:46	47.9	48.2	47.0	48.1	49.6
17136	2009/04/01	14:34:01	49.2	52.0	54.6	52.8	55.2
17141	2009/04/01	14:34:16	51.6	54.0	51.2	52.8	52.5
17146	2009/04/01	14:34:31	54.0	53.4	53.2	51.6	53.1
17151	2009/04/01	14:34:46	56.3	54.3	53.0	53.1	50.7
17156	2009/04/01	14:35:01	49.6	50.5	53.0	51.9	51.3
17161	2009/04/01	14:35:16	53.0	52.0	54.0	55.9	54.4
17166	2009/04/01	14:35:31	54.1	55.3	57.1	59.4	60.1
17171	2009/04/01	14:35:46	54.9	53.7	54.6	53.4	55.2
17176	2009/04/01	14:36:01	51.4	54.7	55.8	58.6	61.8
17181	2009/04/01	14:36:16	52.6	50.9	53.2	53.4	51.0
17186	2009/04/01	14:36:31	53.6	49.4	48.3	48.8	51.4
17191	2009/04/01	14:36:46	52.8	54.2	52.5	52.6	50.0
17196	2009/04/01	14:37:01	53.9	49.9	51.8	54.0	55.8
17201	2009/04/01	14:37:16	55.5	56.0	54.8	52.9	53.1
17206	2009/04/01	14:37:31	53.4	54.0	55.3	52.2	52.8
17211	2009/04/01	14:37:46	63.1	65.0	61.5	62.2	54.6
17216	2009/04/01	14:38:01	53.1	59.3	63.4	52.8	53.2
17221	2009/04/01	14:38:16	55.2	54.1	50.6	50.8	52.5
17226	2009/04/01	14:38:31	56.5	62.3	59.8	54.8	53.9
17231	2009/04/01	14:38:46	54.1	53.5	55.5	55.2	52.9
17236	2009/04/01	14:39:01	54.8	54.0	55.9	52.0	50.9
17241	2009/04/01	14:39:16	50.4	51.1	51.2	52.2	50.0
17246	2009/04/01	14:39:31	50.5	51.0	54.8	52.8	53.6
17251	2009/04/01	14:39:46	50.3	49.5	52.6	51.9	52.4

17256	2009/04/01	14:40:01	51.8	53.4	52.6	52.8	52.7
17261	2009/04/01	14:40:16	50.2	52.8	52.9	50.9	51.3
17266	2009/04/01	14:40:31	50.5	53.1	51.2	54.9	55.4
17271	2009/04/01	14:40:46	56.9	57.3	53.9	56.6	52.7
17276	2009/04/01	14:41:01	54.2	52.5	53.1	56.3	63.0
17281	2009/04/01	14:41:16	58.9	53.1	56.2	56.1	59.5
17286	2009/04/01	14:41:31	64.4	53.7	63.8	64.0	63.3
17291	2009/04/01	14:41:46	59.4	51.0	50.9	51.3	49.7
17296	2009/04/01	14:42:01	50.6	52.1	53.4	54.3	52.1
17301	2009/04/01	14:42:16	53.6	55.2	50.5	51.9	54.0
17306	2009/04/01	14:42:31	56.8	61.6	59.3	53.1	52.5
17311	2009/04/01	14:42:46	52.5	55.0	53.8	54.9	55.9
17316	2009/04/01	14:43:01	55.7	55.7	51.9	54.5	51.8
17321	2009/04/01	14:43:16	49.2	50.8	50.8	50.0	49.8
17326	2009/04/01	14:43:31	48.8	48.6	50.3	52.6	53.7
17331	2009/04/01	14:43:46	52.5	52.9	52.6	52.9	49.5
17336	2009/04/01	14:44:01	53.0	49.0	49.4	49.2	50.1
17341	2009/04/01	14:44:16	50.8	50.5	49.1	47.8	50.2
17346	2009/04/01	14:44:31	49.8	50.6	55.0	53.4	56.3
17351	2009/04/01	14:44:46	54.8	54.4	50.7	51.2	50.1
17356	2009/04/01	14:45:01	51.7	49.6	52.5	48.9	49.2
17361	2009/04/01	14:45:16	50.3	51.0	49.7	51.1	49.1
17366	2009/04/01	14:45:31	51.7	52.1	50.5	49.1	48.7
17371	2009/04/01	14:45:46	49.2	49.2	50.0	49.8	51.2
17376	2009/04/01	14:46:01	51.5	48.8	49.9	52.0	54.2
17381	2009/04/01	14:46:16	53.4	55.9	55.8	58.8	54.4
17386	2009/04/01	14:46:31	58.8	64.0	59.3	54.5	56.1
17391	2009/04/01	14:46:46	66.3	64.1	58.7	53.2	53.4
17396	2009/04/01	14:47:01	52.3	49.3	51.0	54.0	52.3
17401	2009/04/01	14:47:16	51.4	51.3	51.8	49.1	51.3
17406	2009/04/01	14:47:31	51.6	53.3	52.1	53.6	56.2
17411	2009/04/01	14:47:46	55.7	61.0	57.6	53.8	54.1
17416	2009/04/01	14:48:01	51.0	50.9	47.1	47.2	49.3
17421	2009/04/01	14:48:16	50.7	51.3	52.9	55.2	54.5
17426	2009/04/01	14:48:31	54.6	54.0	52.7	50.5	52.1
17431	2009/04/01	14:48:46	53.3	54.4	55.8	52.2	55.5
17436	2009/04/01	14:49:01	51.9	52.5	53.7	55.7	56.1
17441	2009/04/01	14:49:16	53.7	52.7	54.4	51.8	52.7
17446	2009/04/01	14:49:31	54.2	53.3	53.6	53.6	55.4
17451	2009/04/01	14:49:46	56.4	56.9	53.0	55.8	50.4
17456	2009/04/01	14:50:01	53.0	52.2	55.1	51.3	54.0
17461	2009/04/01	14:50:16	55.8	60.2	66.9	54.0	52.5
17466	2009/04/01	14:50:31	51.9	50.3	55.2	50.3	55.2
17471	2009/04/01	14:50:46	54.3	55.1	53.7	53.6	54.1
17476	2009/04/01	14:51:01	52.1	52.2	53.2	54.1	56.6
17481	2009/04/01	14:51:16	57.5	55.3	57.3	55.4	57.4
17486	2009/04/01	14:51:31	55.7	53.5	53.6	52.0	52.6
17491	2009/04/01	14:51:46	48.3	49.1	49.5	50.7	54.9
17496	2009/04/01	14:52:01	53.9	54.6	54.2	55.4	54.6
17501	2009/04/01	14:52:16	59.2	58.6	59.6	56.0	62.8
17506	2009/04/01	14:52:31	54.9	53.6	52.6	55.0	52.3
17511	2009/04/01	14:52:46	47.9	48.2	50.3	48.5	51.3
17516	2009/04/01	14:53:01	50.8	50.8	52.9	51.4	52.3
17521	2009/04/01	14:53:16	50.2	50.3	51.3	49.4	50.8
17526	2009/04/01	14:53:31	52.1	54.5	51.1	52.1	51.9
17531	2009/04/01	14:53:46	54.3	53.5	55.5	55.0	55.0
17536	2009/04/01	14:54:01	56.1	47.9	53.3	50.5	55.1
17541	2009/04/01	14:54:16	53.0	53.4	53.5	49.6	55.3
17546	2009/04/01	14:54:31	50.4	53.6	52.0	54.2	52.2
17551	2009/04/01	14:54:46	54.1	53.0	55.3	61.4	58.7
17556	2009/04/01	14:55:01	57.8	53.7	56.7	50.5	48.4
17561	2009/04/01	14:55:16	48.2	44.1	46.8	46.8	48.3
17566	2009/04/01	14:55:31	49.9	49.6	48.3	51.7	45.6
17571	2009/04/01	14:55:46	46.6	46.3	51.2	55.3	56.3
17576	2009/04/01	14:56:01	55.0	54.5	58.3	67.6	61.4
17581	2009/04/01	14:56:16	58.5	53.5	52.0	50.9	51.3
17586	2009/04/01	14:56:31	49.2	48.9	50.4	48.6	50.4
17591	2009/04/01	14:56:46	51.9	52.3	53.5	53.2	54.2
17596	2009/04/01	14:57:01	54.1	55.4	55.3	54.3	54.8
17601	2009/04/01	14:57:16	54.6	56.5	54.4	52.0	52.0
17606	2009/04/01	14:57:31	52.6	53.4	50.5	51.1	51.9
17611	2009/04/01	14:57:46	51.7	53.1	52.3	53.8	54.1
17616	2009/04/01	14:58:01	54.2	54.3	58.1	52.8	52.5
17621	2009/04/01	14:58:16	53.0	50.8	52.2	53.6	54.3
17626	2009/04/01	14:58:31	51.5	50.8	51.4	49.6	54.2
17631	2009/04/01	14:58:46	49.6	53.3	54.2	53.1	54.3
17636	2009/04/01	14:59:01	52.1	54.4	55.0	54.0	53.6
17641	2009/04/01	14:59:16	56.4	51.1	54.5	50.7	53.1
17646	2009/04/01	14:59:31	56.1	59.8	56.9	61.4	66.1
17651	2009/04/01	14:59:46	58.5	54.2	53.1	59.7	53.1
17656	2009/04/01	15:00:01	51.6	53.3	52.7	49.4	51.1
17661	2009/04/01	15:00:16	50.1	49.3	49.3	50.2	53.2
17666	2009/04/01	15:00:31	53.9	55.0	56.8	55.3	56.3
17671	2009/04/01	15:00:46	55.2	53.5	54.7	51.9	49.3
17676	2009/04/01	15:01:01	49.9	52.7	51.5	52.2	54.2
17681	2009/04/01	15:01:16	55.9	57.2	51.4	54.9	50.4
17686	2009/04/01	15:01:31	52.4	48.9	50.0	49.3	49.1
17691	2009/04/01	15:01:46	48.8	49.3	50.4	50.1	53.5
17696	2009/04/01	15:02:01	52.8	55.1	55.9	52.1	54.2
17701	2009/04/01	15:02:16	53.3	53.4	47.5	48.8	48.9
17706	2009/04/01	15:02:31	48.2	52.6	53.6	51.9	53.3
17711	2009/04/01	15:02:46	51.6	51.2	50.3	50.0	51.9
17716	2009/04/01	15:03:01	53.8	55.4	53.6	56.3	54.9
17721	2009/04/01	15:03:16	54.6	52.6	55.1	52.4	54.7
17726	2009/04/01	15:03:31	53.3	54.2	53.8	54.5	53.8
17731	2009/04/01	15:03:46	52.0	49.8	50.3	49.7	51.5
17736	2009/04/01	15:04:01	50.0	50.5	53.7	49.2	49.3
17741	2009/04/01	15:04:16	50.3	54.8	56.2	54.7	54.7
17746	2009/04/01	15:04:31	54.3	53.5	53.6	51.8	53.3

17751	2009/04/01	15:04:46	53.1	54.5	54.8	54.4	58.9
17756	2009/04/01	15:05:01	63.9	64.4	59.0	55.7	54.9
17761	2009/04/01	15:05:16	51.4	50.9	49.9	47.1	46.4
17766	2009/04/01	15:05:31	50.3	49.6	50.8	49.6	51.0
17771	2009/04/01	15:05:46	47.8	49.1	49.3	49.5	53.5
17776	2009/04/01	15:06:01	55.4	57.4	58.7	59.3	57.5
17781	2009/04/01	15:06:16	58.1	52.8	50.7	47.5	52.3
17786	2009/04/01	15:06:31	46.0	44.6	45.5	43.7	45.9
17791	2009/04/01	15:06:46	49.4	49.7	53.6	53.4	54.1
17796	2009/04/01	15:07:01	55.9	51.9	53.1	51.6	50.0
17801	2009/04/01	15:07:16	45.3	46.0	47.7	51.0	54.3
17806	2009/04/01	15:07:31	51.1	54.6	50.3	52.2	48.8
17811	2009/04/01	15:07:46	49.4	47.3	46.2	51.7	48.2
17816	2009/04/01	15:08:01	51.0	50.0	53.4	52.9	52.2
17821	2009/04/01	15:08:16	48.7	53.8	55.2	54.6	57.5
17826	2009/04/01	15:08:31	52.5	56.6	52.8	52.0	51.7
17831	2009/04/01	15:08:46	50.0	52.3	50.2	51.2	47.8
17836	2009/04/01	15:09:01	49.8	51.1	47.9	49.7	50.4
17841	2009/04/01	15:09:16	46.0	48.2	48.4	46.3	50.9
17846	2009/04/01	15:09:31	46.1	49.4	52.0	52.3	55.6
17851	2009/04/01	15:09:46	52.1	51.1	54.3	55.4	54.2
17856	2009/04/01	15:10:01	54.3	56.6	57.0	54.9	57.8
17861	2009/04/01	15:10:16	56.6	63.5	55.7	50.9	49.2
17866	2009/04/01	15:10:31	51.1	47.2	48.7	46.2	46.0
17871	2009/04/01	15:10:46	50.6	48.9	53.3	55.8	56.9
17876	2009/04/01	15:11:01	57.8	54.9	57.1	51.8	47.7
17881	2009/04/01	15:11:16	52.5	45.5	43.1	41.1	44.3
17886	2009/04/01	15:11:31	51.3	51.4	48.3	51.2	52.5
17891	2009/04/01	15:11:46	50.9	49.4	51.3	49.1	50.0
17896	2009/04/01	15:12:01	48.1	51.1	47.9	50.3	49.1
17901	2009/04/01	15:12:16	46.8	47.2	47.6	49.2	51.0
17906	2009/04/01	15:12:31	49.7	51.7	51.6	51.5	53.4
17911	2009/04/01	15:12:46	54.3	50.4	51.1	53.3	48.4
17916	2009/04/01	15:13:01	48.2	50.1	54.2	51.5	55.1
17921	2009/04/01	15:13:16	51.9	54.2	50.4	49.8	47.0
17926	2009/04/01	15:13:31	47.8	45.7	47.5	48.7	50.9
17931	2009/04/01	15:13:46	55.0	55.8	47.6	54.1	45.9
17936	2009/04/01	15:14:01	52.5	53.0	52.1	59.1	54.0
17941	2009/04/01	15:14:16	58.0	65.3	61.0	54.0	55.0
17946	2009/04/01	15:14:31	52.7	56.8	57.6	58.0	58.8
17951	2009/04/01	15:14:46	53.4	50.3	55.6	57.8	53.4
17956	2009/04/01	15:15:01	50.3	53.9	46.7	49.5	47.9
17961	2009/04/01	15:15:16	49.2	52.5	55.5	52.6	56.3
17966	2009/04/01	15:15:31	52.9	56.3	54.3	56.0	56.5
17971	2009/04/01	15:15:46	56.0	54.5	54.4	50.4	51.7
17976	2009/04/01	15:16:01	49.7	48.0	46.1	47.0	50.9
17981	2009/04/01	15:16:16	54.1	58.7	53.6	55.2	55.0
17986	2009/04/01	15:16:31	55.1	53.0	53.6	52.2	53.1
17991	2009/04/01	15:16:46	46.9	46.6	44.3	42.6	41.4
17996	2009/04/01	15:17:01	41.1	41.0	41.4	41.9	42.5
18001	2009/04/01	15:17:16	45.2	50.0	52.2	55.2	53.9
18006	2009/04/01	15:17:31	57.5	54.7	54.5	49.5	49.2
18011	2009/04/01	15:17:46	47.8	52.3	48.4	50.4	48.1
18016	2009/04/01	15:18:01	50.6	49.2	48.5	54.9	49.5
18021	2009/04/01	15:18:16	49.1	49.8	54.0	48.8	47.5
18026	2009/04/01	15:18:31	50.0	51.1	48.2	51.0	49.6
18031	2009/04/01	15:18:46	52.8	53.4	53.0	51.0	50.6
18036	2009/04/01	15:19:01	50.3	48.1	51.1	48.7	44.5
18041	2009/04/01	15:19:16	49.0	43.6	43.9	48.5	51.5
18046	2009/04/01	15:19:31	52.7	50.3	51.7	46.4	49.6
18051	2009/04/01	15:19:46	44.1	42.6	46.7	45.8	47.4
18056	2009/04/01	15:20:01	46.6	49.1	48.6	50.5	47.1
18061	2009/04/01	15:20:16	46.2	48.4	53.9	50.7	51.9
18066	2009/04/01	15:20:31	52.0	53.8	49.9	48.5	48.6
18071	2009/04/01	15:20:46	53.6	52.9	55.9	57.8	53.0
18076	2009/04/01	15:21:01	52.9	53.1	52.6	53.7	52.5
18081	2009/04/01	15:21:16	56.7	55.0	54.1	53.7	52.0
18086	2009/04/01	15:21:31	57.1	52.8	55.7	53.4	50.7
18091	2009/04/01	15:21:46	51.3	49.2	52.1	53.4	48.5
18096	2009/04/01	15:22:01	54.6	47.3	55.4	49.4	52.4
18101	2009/04/01	15:22:16	49.7	52.5	49.6	48.9	46.8
18106	2009/04/01	15:22:31	48.3	50.4	51.3	50.5	55.9
18111	2009/04/01	15:22:46	56.6	61.8	59.4	52.7	53.2
18116	2009/04/01	15:23:01	55.5	54.2	55.1	54.2	53.8
18121	2009/04/01	15:23:16	50.3	51.0	51.2	50.9	48.3
18126	2009/04/01	15:23:31	49.1	47.0	48.3	52.3	53.1
18131	2009/04/01	15:23:46	52.3	55.2	50.9	54.7	48.1
18136	2009/04/01	15:24:01	50.2	48.4	49.0	47.8	47.4
18141	2009/04/01	15:24:16	47.5	46.3	46.8	49.4	52.4
18146	2009/04/01	15:24:31	47.5	49.4	46.1	46.4	48.6
18151	2009/04/01	15:24:46	50.0	55.3	55.5	56.7	55.5
18156	2009/04/01	15:25:01	52.1	55.6	47.1	48.5	51.4
18161	2009/04/01	15:25:16	52.9	55.7	55.3	54.3	54.4
18166	2009/04/01	15:25:31	53.7	52.8	50.4	49.8	50.3
18171	2009/04/01	15:25:46	51.7	54.0	51.3	51.9	53.2
18176	2009/04/01	15:26:01	52.7	52.3	52.4	53.3	49.8
18181	2009/04/01	15:26:16	53.6	52.3	54.2	53.1	52.5
18186	2009/04/01	15:26:31	52.1	52.1	49.0	50.8	48.6
18191	2009/04/01	15:26:46	51.1	49.3	50.1	49.3	50.5
18196	2009/04/01	15:27:01	52.0	51.5	52.3	54.5	53.3
18201	2009/04/01	15:27:16	54.7	52.9	53.6	51.1	50.0
18206	2009/04/01	15:27:31	48.2	49.2	47.8	47.7	48.8
18211	2009/04/01	15:27:46	51.9	53.8	55.1	53.3	51.4
18216	2009/04/01	15:28:01	55.4	49.5	54.3	54.5	48.2
18221	2009/04/01	15:28:16	53.1	50.9	49.2	52.4	49.2
18226	2009/04/01	15:28:31	52.6	51.9	51.9	55.8	55.4
18231	2009/04/01	15:28:46	54.6	54.4	55.0	54.6	52.6
18236	2009/04/01	15:29:01	51.4	49.9	52.9	46.3	49.7
18241	2009/04/01	15:29:16	52.0	48.4	49.7	47.4	51.4

18246	2009/04/01	15:29:31	52.7	48.0	50.4	49.0	49.8
18251	2009/04/01	15:29:46	48.4	47.7	50.3	49.9	49.8
18256	2009/04/01	15:30:01	50.4	48.8	48.4	49.6	49.5
18261	2009/04/01	15:30:16	49.3	52.3	48.4	47.1	48.6
18266	2009/04/01	15:30:31	50.2	47.6	47.2	49.9	46.1
18271	2009/04/01	15:30:46	46.5	46.6	42.4	49.2	43.9
18276	2009/04/01	15:31:01	46.2	48.8	45.1	48.1	49.8
18281	2009/04/01	15:31:16	51.3	52.8	48.7	46.4	46.3
18286	2009/04/01	15:31:31	54.1	60.3	63.4	52.2	51.4
18291	2009/04/01	15:31:46	50.3	53.1	53.9	54.8	54.0
18296	2009/04/01	15:32:01	53.5	51.6	54.4	52.4	49.2
18301	2009/04/01	15:32:16	47.8	45.1	43.7	47.3	50.5
18306	2009/04/01	15:32:31	51.3	52.0	54.1	50.3	51.3
18311	2009/04/01	15:32:46	54.2	48.7	54.2	55.3	53.7
18316	2009/04/01	15:33:01	52.7	52.7	54.0	52.7	52.7
18321	2009/04/01	15:33:16	52.0	57.7	53.5	51.6	48.3
18326	2009/04/01	15:33:31	52.0	45.7	43.5	45.5	47.0
18331	2009/04/01	15:33:46	53.6	61.0	64.3	53.8	55.5
18336	2009/04/01	15:34:01	57.6	54.9	57.1	58.6	69.2
18341	2009/04/01	15:34:16	58.3	55.6	53.5	50.2	52.4
18346	2009/04/01	15:34:31	51.8	51.9	52.4	50.1	53.9
18351	2009/04/01	15:34:46	48.9	48.0	46.2	47.0	43.2
18356	2009/04/01	15:35:01	40.7	42.2	45.3	48.7	49.7
18361	2009/04/01	15:35:16	52.0	49.7	47.5	47.4	49.8
18366	2009/04/01	15:35:31	47.4	52.3	51.5	51.9	51.3
18371	2009/04/01	15:35:46	60.6	63.9	53.9	52.4	50.2
18376	2009/04/01	15:36:01	50.7	49.6	51.2	51.3	54.5
18381	2009/04/01	15:36:16	54.4	53.4	54.6	53.2	52.6
18386	2009/04/01	15:36:31	50.8	53.3	51.4	55.6	55.1
18391	2009/04/01	15:36:46	63.2	62.6	52.8	57.3	54.5
18396	2009/04/01	15:37:01	53.5	53.8	53.3	53.6	51.6
18401	2009/04/01	15:37:16	55.3	49.1	53.6	49.7	51.1
18406	2009/04/01	15:37:31	52.4	50.2	54.7	54.6	47.8
18411	2009/04/01	15:37:46	51.0	45.2	44.4	44.3	49.3
18416	2009/04/01	15:38:01	48.5	48.8	52.2	52.3	53.6
18421	2009/04/01	15:38:16	54.3	49.8	51.7	46.0	44.6
18426	2009/04/01	15:38:31	48.0	52.0	52.4	56.3	50.7
18431	2009/04/01	15:38:46	56.1	50.2	51.0	52.3	51.2
18436	2009/04/01	15:39:01	50.7	52.5	51.0	52.7	52.7
18441	2009/04/01	15:39:16	50.8	50.8	45.8	44.2	43.4
18446	2009/04/01	15:39:31	45.2	49.3	51.5	53.0	49.6
18451	2009/04/01	15:39:46	53.2	45.5	45.3	46.1	46.8
18456	2009/04/01	15:40:01	48.8	52.7	56.5	56.5	54.9
18461	2009/04/01	15:40:16	53.8	51.4	46.4	47.7	50.2
18466	2009/04/01	15:40:31	48.4	49.0	50.7	54.3	54.5
18471	2009/04/01	15:40:46	63.1	61.0	50.0	51.0	56.1
18476	2009/04/01	15:41:01	56.0	53.3	51.6	49.3	48.9
18481	2009/04/01	15:41:16	50.7	53.3	53.6	53.1	56.4
18486	2009/04/01	15:41:31	60.7	59.9	53.9	52.5	53.0
18491	2009/04/01	15:41:46	52.5	54.9	52.5	43.7	44.3
18496	2009/04/01	15:42:01	45.7	46.1	47.5	44.0	46.3
18501	2009/04/01	15:42:16	46.1	47.7	50.4	51.3	48.6
18506	2009/04/01	15:42:31	53.2	47.0	46.5	43.9	46.3
18511	2009/04/01	15:42:46	43.6	41.8	41.9	49.4	42.4
18516	2009/04/01	15:43:01	47.2	49.1	52.6	48.2	54.4
18521	2009/04/01	15:43:16	52.4	54.8	52.5	50.9	50.6
18526	2009/04/01	15:43:31	50.6	50.2	58.6	56.7	58.6
18531	2009/04/01	15:43:46	59.5	59.5	59.4	58.3	58.4
18536	2009/04/01	15:44:01	59.0	59.4	61.1	68.3	63.5
18541	2009/04/01	15:44:16	60.0	55.9	55.6	57.6	57.9
18546	2009/04/01	15:44:31	65.7	64.3	58.7	52.6	49.4
18551	2009/04/01	15:44:46	50.5	49.3	50.1	53.3	50.8
18556	2009/04/01	15:45:01	52.7	54.8	50.3	52.6	50.9
18561	2009/04/01	15:45:16	54.0	54.2	50.8	55.5	49.2
18566	2009/04/01	15:45:31	56.0	49.5	49.8	50.8	49.2
18571	2009/04/01	15:45:46	49.5	50.1	51.3	50.8	49.7
18576	2009/04/01	15:46:01	47.4	47.1	48.7	57.1	60.9
18581	2009/04/01	15:46:16	50.8	51.5	52.0	55.4	53.9
18586	2009/04/01	15:46:31	54.5	51.0	53.2	52.5	52.5
18591	2009/04/01	15:46:46	51.5	53.1	51.0	51.0	50.7
18596	2009/04/01	15:47:01	63.5	62.3	55.8	54.9	51.0
18601	2009/04/01	15:47:16	53.3	53.8	55.7	55.4	54.0
18606	2009/04/01	15:47:31	56.7	54.2	56.1	54.3	52.5
18611	2009/04/01	15:47:46	49.9	49.5	53.9	57.2	56.6
18616	2009/04/01	15:48:01	53.8	58.3	52.6	54.1	50.1
18621	2009/04/01	15:48:16	50.6	54.5	53.7	53.1	53.3
18626	2009/04/01	15:48:31	53.0	53.1	52.9	53.1	53.3
18631	2009/04/01	15:48:46	53.5	53.5	53.8	55.5	56.8
18636	2009/04/01	15:49:01	57.3	57.4	58.2	56.7	59.3
18641	2009/04/01	15:49:16	68.0	61.4	55.6	54.2	56.3
18646	2009/04/01	15:49:31	57.3	56.7	55.5	56.5	55.0
18651	2009/04/01	15:49:46	55.5	54.9	54.8	54.5	54.8
18656	2009/04/01	15:50:01	55.0	56.7	54.9	56.3	55.6
18661	2009/04/01	15:50:16	55.7	56.0	54.4	55.0	53.8
18666	2009/04/01	15:50:31	54.4	54.6	56.0	54.8	55.5
18671	2009/04/01	15:50:46	54.7	55.0	56.1	57.3	55.8
18676	2009/04/01	15:51:01	57.4	54.8	58.1	56.0	56.1
18681	2009/04/01	15:51:16	57.4	55.8	56.2	56.6	55.7
18686	2009/04/01	15:51:31	56.9	56.4	57.3	56.0	59.0
18691	2009/04/01	15:51:46	57.4	56.1	56.7	56.1	55.8
18696	2009/04/01	15:52:01	55.8	57.0	56.6	56.5	55.1
18701	2009/04/01	15:52:16	55.9	54.8	54.8	55.8	56.9
18706	2009/04/01	15:52:31	57.1	57.3	56.4	54.5	55.6
18711	2009/04/01	15:52:46	55.0	55.9	56.7	56.8	58.3
18716	2009/04/01	15:53:01	57.4	57.9	58.2	56.2	57.6
18721	2009/04/01	15:53:16	56.0	55.8	55.1	57.2	58.9
18726	2009/04/01	15:53:31	59.1	57.5	55.9	56.8	56.1
18731	2009/04/01	15:53:46	57.1	57.9	58.7	57.1	56.5
18736	2009/04/01	15:54:01	56.3	55.1	55.4	56.3	57.0

18741	2009/04/01	15:54:16	59.6	57.7	59.5	56.1	56.0
18746	2009/04/01	15:54:31	57.1	55.3	56.4	54.3	54.3
18751	2009/04/01	15:54:46	55.4	55.6	56.1	55.1	55.3
18756	2009/04/01	15:55:01	56.1	56.7	61.8	60.6	58.0
18761	2009/04/01	15:55:16	59.4	61.1	69.4	62.4	60.2
18766	2009/04/01	15:55:31	57.9	57.6	55.1	54.3	54.3
18771	2009/04/01	15:55:46	54.6	54.1	54.6	55.3	55.6
18776	2009/04/01	15:56:01	54.7	55.8	55.1	57.3	57.0
18781	2009/04/01	15:56:16	55.3	56.8	55.1	58.0	57.0
18786	2009/04/01	15:56:31	56.9	57.2	55.3	58.2	55.0
18791	2009/04/01	15:56:46	55.8	57.3	57.5	59.0	56.4
18796	2009/04/01	15:57:01	58.4	56.2	54.8	54.6	55.0
18801	2009/04/01	15:57:16	55.8	55.9	54.8	55.4	54.8
18806	2009/04/01	15:57:31	54.1	55.0	54.3	54.5	54.5
18811	2009/04/01	15:57:46	50.9	46.6	46.0	53.6	47.3
18816	2009/04/01	15:58:01	51.8	50.8	51.1	51.3	51.7
18821	2009/04/01	15:58:16	51.8	51.0	52.5	52.1	55.9
18826	2009/04/01	15:58:31	53.7	51.7	51.0	48.5	51.0
18831	2009/04/01	15:58:46	56.0	54.3	53.2	55.0	55.4
18836	2009/04/01	15:59:01	54.8	52.3	52.8	50.2	51.5
18841	2009/04/01	15:59:16	53.3	52.7	48.9	54.1	48.8
18846	2009/04/01	15:59:31	47.5	47.5	44.3	47.1	46.0
18851	2009/04/01	15:59:46	43.9	42.6	47.6	47.7	50.8
18856	2009/04/01	16:00:01	47.2	52.6	43.8	48.2	48.3
18861	2009/04/01	16:00:16	49.6	49.6	53.3	46.8	46.3
18866	2009/04/01	16:00:31	43.3	42.4	42.8	43.5	49.8
18871	2009/04/01	16:00:46	48.4	52.6	55.5	52.5	50.3
18876	2009/04/01	16:01:01	47.0	47.7	46.2	49.2	49.9
18881	2009/04/01	16:01:16	45.7	50.7	50.4	51.6	51.5
18886	2009/04/01	16:01:31	53.0	55.8	52.0	52.9	52.4
18891	2009/04/01	16:01:46	52.4	51.8	47.5	49.2	45.7
18896	2009/04/01	16:02:01	47.8	45.5	45.1	44.3	44.3
18901	2009/04/01	16:02:16	41.4	40.4	40.4	41.8	44.5
18906	2009/04/01	16:02:31	45.0	44.8	46.8	52.0	50.3
18911	2009/04/01	16:02:46	55.0	56.2	53.8	55.0	51.9
18916	2009/04/01	16:03:01	51.3	49.8	49.6	48.2	53.4
18921	2009/04/01	16:03:16	49.9	52.5	54.6	55.8	51.5
18926	2009/04/01	16:03:31	59.1	53.2	51.9	50.8	47.6
18931	2009/04/01	16:03:46	48.1	41.5	39.8	37.5	38.0
18936	2009/04/01	16:04:01	40.8	42.5	43.8	49.2	52.2
18941	2009/04/01	16:04:16	52.1	56.9	49.9	55.8	49.4
18946	2009/04/01	16:04:31	45.6	47.0	48.9	50.1	46.8
18951	2009/04/01	16:04:46	46.8	47.9	50.8	47.8	54.0
18956	2009/04/01	16:05:01	54.7	55.5	58.0	54.1	55.4
18961	2009/04/01	16:05:16	55.4	54.1	55.4	57.1	53.3
18966	2009/04/01	16:05:31	57.8	51.5	50.2	53.3	49.4
18971	2009/04/01	16:05:46	51.4	50.4	50.4	49.7	50.5
18976	2009/04/01	16:06:01	48.4	47.6	48.9	49.5	46.8
18981	2009/04/01	16:06:16	46.5	46.6	49.4	47.9	55.0
18986	2009/04/01	16:06:31	49.4	51.3	52.1	51.0	41.7
18991	2009/04/01	16:06:46	43.2	42.1	42.9	45.8	49.2
18996	2009/04/01	16:07:01	49.9	53.8	53.7	53.8	58.2
19001	2009/04/01	16:07:16	56.0	59.1	53.9	54.2	50.3
19006	2009/04/01	16:07:31	48.0	47.5	50.6	54.8	55.6
19011	2009/04/01	16:07:46	55.9	56.3	54.5	48.8	48.3
19016	2009/04/01	16:08:01	56.4	54.5	55.7	52.8	51.1
19021	2009/04/01	16:08:16	51.4	52.8	53.7	49.2	53.9
19026	2009/04/01	16:08:31	49.1	49.9	48.5	49.6	48.7
19031	2009/04/01	16:08:46	46.4	44.8	43.1	48.9	48.6
19036	2009/04/01	16:09:01	48.3	50.6	53.9	58.1	58.8
19041	2009/04/01	16:09:16	57.0	57.6	56.8	58.4	51.2
19046	2009/04/01	16:09:31	55.2	55.7	54.3	55.4	54.7
19051	2009/04/01	16:09:46	58.1	54.2	57.6	53.5	51.9
19056	2009/04/01	16:10:01	56.3	59.8	62.6	65.7	51.4
19061	2009/04/01	16:10:16	47.8	43.1	44.0	43.5	41.4
19066	2009/04/01	16:10:31	41.8	40.1	40.8	42.8	50.7
19071	2009/04/01	16:10:46	46.2	52.0	50.9	53.4	53.3
19076	2009/04/01	16:11:01	54.1	51.3	52.5	55.4	55.1
19081	2009/04/01	16:11:16	56.6	57.1	55.3	56.9	55.6
19086	2009/04/01	16:11:31	54.4	57.2	58.2	58.4	53.3
19091	2009/04/01	16:11:46	56.1	52.3	53.3	53.4	51.7
19096	2009/04/01	16:12:01	50.6	51.3	53.4	57.2	50.4
19101	2009/04/01	16:12:16	52.7	48.4	46.9	46.4	45.6
19106	2009/04/01	16:12:31	46.4	47.9	53.9	55.4	53.2
19111	2009/04/01	16:12:46	53.7	55.3	52.9	52.7	53.7
19116	2009/04/01	16:13:01	56.1	55.0	56.7	54.1	56.6
19121	2009/04/01	16:13:16	52.9	53.9	50.6	54.3	49.7
19126	2009/04/01	16:13:31	52.2	50.2	51.5	53.0	56.9
19131	2009/04/01	16:13:46	58.2	54.5	56.4	59.7	66.7
19136	2009/04/01	16:14:01	62.8	59.2	65.2	58.2	53.1
19141	2009/04/01	16:14:16	51.1	50.9	50.7	50.8	50.8
19146	2009/04/01	16:14:31	52.2	53.4	53.6	57.8	54.7
19151	2009/04/01	16:14:46	56.1	58.1	54.1	58.6	54.7
19156	2009/04/01	16:15:01	63.5	51.5	48.7	51.2	49.2
19161	2009/04/01	16:15:16	52.1	50.2	55.3	55.4	54.1
19166	2009/04/01	16:15:31	55.0	51.4	55.1	54.4	55.2
19171	2009/04/01	16:15:46	60.4	66.6	56.1	54.7	54.5
19176	2009/04/01	16:16:01	58.2	56.2	55.5	53.2	52.6
19181	2009/04/01	16:16:16	53.3	55.5	53.9	53.6	52.5
19186	2009/04/01	16:16:31	52.3	51.1	51.2	52.0	55.6
19191	2009/04/01	16:16:46	54.8	54.0	51.9	53.9	50.4
19196	2009/04/01	16:17:01	50.9	52.1	55.0	55.2	56.4
19201	2009/04/01	16:17:16	56.6	52.2	54.9	54.7	57.4
19206	2009/04/01	16:17:31	49.4	52.1	50.7	50.7	54.9
19211	2009/04/01	16:17:46	51.6	51.8	51.0	53.8	53.4
19216	2009/04/01	16:18:01	53.0	52.4	55.0	52.4	55.1
19221	2009/04/01	16:18:16	59.6	66.4	57.9	54.6	55.0
19226	2009/04/01	16:18:31	54.9	56.6	54.6	54.6	52.7
19231	2009/04/01	16:18:46	51.6	51.8	51.1	51.9	50.1

19236	2009/04/01	16:19:01	50.9	51.4	46.9	45.5	44.5
19241	2009/04/01	16:19:16	44.6	45.3	44.6	45.5	44.8
19246	2009/04/01	16:19:31	45.0	44.4	41.8	40.8	43.3
19251	2009/04/01	16:19:46	44.4	49.2	47.4	54.7	51.1
19256	2009/04/01	16:20:01	50.8	50.6	49.8	54.2	54.5
19261	2009/04/01	16:20:16	53.8	54.1	49.7	52.8	40.9
19266	2009/04/01	16:20:31	44.7	47.1	50.7	55.4	52.2
19271	2009/04/01	16:20:46	53.9	53.4	50.5	50.7	50.5
19276	2009/04/01	16:21:01	51.3	54.5	56.2	52.4	58.8
19281	2009/04/01	16:21:16	55.1	55.8	56.8	56.5	54.0
19286	2009/04/01	16:21:31	55.3	52.7	55.2	55.0	54.1
19291	2009/04/01	16:21:46	52.8	53.2	53.1	53.6	52.4
19296	2009/04/01	16:22:01	51.8	52.7	51.3	55.0	56.8
19301	2009/04/01	16:22:16	55.1	58.8	55.5	59.6	53.4
19306	2009/04/01	16:22:31	54.5	54.7	54.4	52.2	54.3
19311	2009/04/01	16:22:46	52.4	54.3	52.2	54.1	52.8
19316	2009/04/01	16:23:01	53.2	52.6	53.3	54.2	51.7
19321	2009/04/01	16:23:16	50.5	54.7	48.1	54.4	52.9
19326	2009/04/01	16:23:31	53.0	53.5	55.3	56.2	60.8
19331	2009/04/01	16:23:46	54.8	58.1	53.5	54.0	53.1
19336	2009/04/01	16:24:01	51.3	48.0	52.7	46.0	45.2
19341	2009/04/01	16:24:16	44.4	43.6	49.8	46.3	48.1
19346	2009/04/01	16:24:31	46.2	49.3	46.9	49.1	48.6
19351	2009/04/01	16:24:46	55.9	49.8	55.4	53.2	54.4
19356	2009/04/01	16:25:01	57.8	54.2	57.0	50.9	51.6
19361	2009/04/01	16:25:16	50.6	53.3	54.6	51.9	52.5
19366	2009/04/01	16:25:31	51.7	49.6	52.5	51.5	49.2
19371	2009/04/01	16:25:46	51.7	48.0	45.4	47.2	45.3
19376	2009/04/01	16:26:01	44.6	46.2	43.7	43.8	46.1
19381	2009/04/01	16:26:16	44.1	45.8	50.5	55.2	56.3
19386	2009/04/01	16:26:31	56.4	54.5	60.9	52.6	51.0
19391	2009/04/01	16:26:46	45.8	50.4	47.7	49.1	52.5
19396	2009/04/01	16:27:01	54.1	55.4	55.1	56.9	53.8
19401	2009/04/01	16:27:16	56.1	55.0	52.6	52.9	56.3
19406	2009/04/01	16:27:31	55.5	53.2	53.9	54.6	50.1
19411	2009/04/01	16:27:46	53.5	49.1	51.1	49.9	50.2
19416	2009/04/01	16:28:01	51.9	54.8	53.4	51.8	55.9
19421	2009/04/01	16:28:16	50.1	53.1	54.1	55.7	53.6
19426	2009/04/01	16:28:31	52.5	51.2	50.8	53.4	48.9
19431	2009/04/01	16:28:46	48.7	47.8	49.7	50.0	52.6
19436	2009/04/01	16:29:01	50.8	52.4	51.3	51.7	52.8
19441	2009/04/01	16:29:16	50.6	55.2	48.1	46.3	45.8
19446	2009/04/01	16:29:31	46.6	45.5	44.1	46.4	48.8
19451	2009/04/01	16:29:46	52.6	54.0	52.3	53.3	52.9
19456	2009/04/01	16:30:01	54.5	49.3	45.4	45.7	51.2
19461	2009/04/01	16:30:16	53.3	54.1	54.6	56.8	50.7
19466	2009/04/01	16:30:31	53.4	50.4	51.0	52.6	55.7
19471	2009/04/01	16:30:46	57.7	54.3	55.1	57.0	58.4
19476	2009/04/01	16:31:01	61.1	66.2	56.1	52.1	55.7
19481	2009/04/01	16:31:16	55.8	52.9	52.9	50.1	52.3
19486	2009/04/01	16:31:31	47.6	48.1	45.3	44.4	45.1
19491	2009/04/01	16:31:46	49.4	52.4	53.6	48.0	51.6
19496	2009/04/01	16:32:01	50.4	46.7	45.5	45.2	43.8
19501	2009/04/01	16:32:16	45.9	45.9	47.1	47.9	50.9
19506	2009/04/01	16:32:31	53.5	51.5	52.8	53.7	54.7
19511	2009/04/01	16:32:46	52.8	54.0	52.9	53.4	47.3
19516	2009/04/01	16:33:01	45.1	46.1	47.1	45.0	50.0
19521	2009/04/01	16:33:16	49.8	52.8	56.0	60.9	67.6
19526	2009/04/01	16:33:31	56.3	56.1	50.1	48.5	49.8
19531	2009/04/01	16:33:46	50.7	49.6	52.4	48.5	48.5
19536	2009/04/01	16:34:01	49.7	54.7	55.7	59.7	56.5
19541	2009/04/01	16:34:16	54.9	62.9	68.4	59.3	58.8
19546	2009/04/01	16:34:31	54.2	51.7	48.1	45.7	54.5
19551	2009/04/01	16:34:46	49.9	52.7	51.6	49.3	49.9
19556	2009/04/01	16:35:01	53.8	57.3	58.8	64.8	67.7
19561	2009/04/01	16:35:16	56.4	57.8	55.5	55.7	53.5
19566	2009/04/01	16:35:31	51.9	55.0	48.2	55.5	56.0
19571	2009/04/01	16:35:46	52.7	51.2	52.8	51.2	52.0
19576	2009/04/01	16:36:01	45.4	50.7	50.6	50.8	56.1
19581	2009/04/01	16:36:16	54.1	49.8	48.8	51.7	46.3
19586	2009/04/01	16:36:31	53.9	48.1	53.2	53.3	51.8
19591	2009/04/01	16:36:46	55.7	54.3	54.5	53.4	50.5
19596	2009/04/01	16:37:01	51.9	46.2	48.5	46.9	51.0
19601	2009/04/01	16:37:16	52.1	49.9	51.6	55.1	53.3
19606	2009/04/01	16:37:31	49.8	54.6	48.1	50.0	51.5
19611	2009/04/01	16:37:46	52.0	51.6	55.0	50.2	50.7
19616	2009/04/01	16:38:01	51.4	48.1	49.9	52.1	52.1
19621	2009/04/01	16:38:16	55.2	53.5	54.0	53.5	55.1
19626	2009/04/01	16:38:31	58.3	68.7	64.1	54.0	51.1
19631	2009/04/01	16:38:46	48.9	49.0	48.7	52.5	53.7
19636	2009/04/01	16:39:01	52.5	51.1	54.9	51.9	49.4
19641	2009/04/01	16:39:16	52.9	49.7	49.9	49.8	47.6
19646	2009/04/01	16:39:31	46.4	50.0	49.8	46.1	48.7
19651	2009/04/01	16:39:46	49.0	51.3	54.5	58.7	51.6
19656	2009/04/01	16:40:01	49.1	54.7	63.2	63.4	57.1
19661	2009/04/01	16:40:16	55.8	54.4	54.8	51.5	54.0
19666	2009/04/01	16:40:31	50.1	56.3	52.2	60.1	58.1
19671	2009/04/01	16:40:46	49.8	55.0	55.8	53.4	52.8
19676	2009/04/01	16:41:01	49.8	50.3	51.7	49.9	51.2
19681	2009/04/01	16:41:16	48.9	51.2	48.0	50.7	51.4
19686	2009/04/01	16:41:31	55.8	55.9	55.2	56.6	57.2
19691	2009/04/01	16:41:46	56.8	56.8	57.6	58.4	56.6
19696	2009/04/01	16:42:01	53.1	55.8	52.9	49.2	49.8
19701	2009/04/01	16:42:16	48.1	49.2	48.4	48.0	46.8
19706	2009/04/01	16:42:31	50.7	49.4	50.5	51.1	49.8
19711	2009/04/01	16:42:46	52.7	50.4	50.8	51.4	51.6
19716	2009/04/01	16:43:01	55.5	51.4	54.3	52.3	49.4
19721	2009/04/01	16:43:16	48.8	50.1	48.4	54.1	50.8
19726	2009/04/01	16:43:31	52.6	55.2	54.1	53.6	52.8

19731	2009/04/01	16:43:46	54.9	52.2	52.8	53.7	53.2
19736	2009/04/01	16:44:01	51.6	50.6	48.8	55.9	52.2
19741	2009/04/01	16:44:16	48.8	53.9	48.0	58.0	49.9
19746	2009/04/01	16:44:31	55.3	55.5	54.3	54.6	50.7
19751	2009/04/01	16:44:46	54.6	48.3	47.6	47.9	48.0
19756	2009/04/01	16:45:01	48.6	49.1	51.1	51.3	46.5
19761	2009/04/01	16:45:16	50.4	45.7	44.9	46.7	52.0
19766	2009/04/01	16:45:31	51.5	50.7	55.6	54.2	51.8
19771	2009/04/01	16:45:46	54.5	60.0	62.8	53.2	48.7
19776	2009/04/01	16:46:01	49.5	48.6	51.8	54.3	55.5
19781	2009/04/01	16:46:16	53.1	52.1	52.7	53.7	47.1
19786	2009/04/01	16:46:31	42.9	51.5	41.9	42.3	50.3
19791	2009/04/01	16:46:46	50.8	49.7	51.9	49.3	58.9
19796	2009/04/01	16:47:01	55.5	53.8	56.1	56.1	55.7
19801	2009/04/01	16:47:16	53.5	52.1	53.3	48.7	53.1
19806	2009/04/01	16:47:31	49.3	48.1	52.0	55.0	53.8
19811	2009/04/01	16:47:46	56.8	55.0	56.3	53.0	57.0
19816	2009/04/01	16:48:01	56.3	54.7	55.4	51.1	46.3
19821	2009/04/01	16:48:16	45.3	40.8	40.2	41.1	45.3
19826	2009/04/01	16:48:31	48.4	52.3	50.7	48.2	50.0
19831	2009/04/01	16:48:46	44.1	50.3	50.3	48.9	52.5
19836	2009/04/01	16:49:01	54.8	49.7	52.0	48.8	45.4
19841	2009/04/01	16:49:16	43.5	42.5	39.2	38.5	37.8
19846	2009/04/01	16:49:31	37.2	38.3	42.5	45.1	53.7
19851	2009/04/01	16:49:46	54.5	55.1	53.8	50.7	56.9
19856	2009/04/01	16:50:01	44.8	49.9	46.0	47.4	47.2
19861	2009/04/01	16:50:16	53.5	45.4	47.9	41.7	45.3
19866	2009/04/01	16:50:31	45.9	44.2	46.2	45.4	49.5
19871	2009/04/01	16:50:46	61.4	70.1	56.6	53.7	50.9
19876	2009/04/01	16:51:01	45.4	49.9	50.6	53.6	54.1
19881	2009/04/01	16:51:16	54.0	56.7	51.8	57.2	52.6
19886	2009/04/01	16:51:31	51.2	48.1	48.0	48.5	54.6
19891	2009/04/01	16:51:46	49.0	51.5	52.5	49.0	48.1
19896	2009/04/01	16:52:01	50.8	52.2	49.0	53.7	54.5
19901	2009/04/01	16:52:16	58.2	57.0	57.0	55.3	55.5
19906	2009/04/01	16:52:31	55.7	51.7	50.3	53.6	56.6
19911	2009/04/01	16:52:46	58.2	57.4	52.0	57.4	49.1
19916	2009/04/01	16:53:01	43.8	44.1	42.6	46.3	48.5
19921	2009/04/01	16:53:16	45.6	50.9	51.9	57.9	57.6
19926	2009/04/01	16:53:31	63.4	61.7	54.5	56.8	56.5
19931	2009/04/01	16:53:46	52.0	47.8	47.1	40.8	40.2
19936	2009/04/01	16:54:01	40.9	45.0	49.6	48.8	50.9
19941	2009/04/01	16:54:16	50.9	47.8	48.5	44.1	41.6
19946	2009/04/01	16:54:31	38.7	37.7	38.3	41.1	41.6
19951	2009/04/01	16:54:46	44.4	45.1	46.5	50.5	53.4
19956	2009/04/01	16:55:01	54.4	57.0	56.8	53.8	52.7
19961	2009/04/01	16:55:16	47.5	51.6	44.2	48.0	46.3
19966	2009/04/01	16:55:31	50.8	48.4	50.6	51.3	48.2
19971	2009/04/01	16:55:46	50.5	49.3	49.9	50.3	51.6
19976	2009/04/01	16:56:01	49.7	52.2	46.7	46.8	45.1
19981	2009/04/01	16:56:16	46.6	47.4	45.2	48.4	49.9
19986	2009/04/01	16:56:31	46.1	46.3	43.6	42.8	41.9
19991	2009/04/01	16:56:46	41.8	46.7	44.1	42.9	43.2
19996	2009/04/01	16:57:01	49.1	48.5	49.2	48.5	50.4
20001	2009/04/01	16:57:16	52.9	52.9	52.1	49.9	47.8
20006	2009/04/01	16:57:31	52.5	52.0	54.1	53.2	56.4
20011	2009/04/01	16:57:46	55.8	56.0	54.5	54.0	51.6
20016	2009/04/01	16:58:01	47.0	50.5	47.6	52.6	46.8
20021	2009/04/01	16:58:16	45.8	48.0	49.1	48.9	55.8
20026	2009/04/01	16:58:31	54.1	57.7	55.5	49.8	47.8
20031	2009/04/01	16:58:46	44.7	44.0	47.9	48.9	52.9
20036	2009/04/01	16:59:01	53.2	53.9	53.3	53.0	50.3
20041	2009/04/01	16:59:16	50.6	50.7	52.9	53.5	56.8
20046	2009/04/01	16:59:31	67.9	63.3	59.9	56.9	51.9
20051	2009/04/01	16:59:46	48.7	47.8	46.8	48.5	51.8
20056	2009/04/01	17:00:01	48.9	51.6	65.3	61.3	54.1
20061	2009/04/01	17:00:16	52.7	50.5	51.8	50.8	49.6
20066	2009/04/01	17:00:31	48.1	48.3	49.7	53.2	50.0
20071	2009/04/01	17:00:46	50.9	49.4	49.8	48.5	50.5
20076	2009/04/01	17:01:01	46.6	53.3	50.5	51.7	50.0
20081	2009/04/01	17:01:16	49.2	47.5	47.2	48.7	48.6
20086	2009/04/01	17:01:31	47.5	48.6	48.6	49.1	49.9
20091	2009/04/01	17:01:46	46.3	49.8	44.6	42.4	45.8
20096	2009/04/01	17:02:01	46.6	50.8	52.9	51.4	53.4
20101	2009/04/01	17:02:16	54.0	54.5	53.1	52.7	53.4
20106	2009/04/01	17:02:31	47.6	42.1	44.5	46.3	49.7
20111	2009/04/01	17:02:46	50.8	50.2	50.3	48.0	42.3
20116	2009/04/01	17:03:01	43.5	42.1	42.6	42.5	48.0
20121	2009/04/01	17:03:16	49.5	48.1	49.7	49.2	45.9
20126	2009/04/01	17:03:31	43.9	42.9	44.2	44.8	46.6
20131	2009/04/01	17:03:46	49.6	51.2	53.4	57.3	53.6
20136	2009/04/01	17:04:01	55.3	53.5	51.5	56.0	52.5
20141	2009/04/01	17:04:16	56.1	50.3	52.3	51.1	49.3
20146	2009/04/01	17:04:31	48.6	50.5	47.8	48.2	47.0
20151	2009/04/01	17:04:46	46.7	48.5	49.5	51.5	49.7
20156	2009/04/01	17:05:01	53.7	53.4	51.3	49.2	47.5
20161	2009/04/01	17:05:16	47.3	48.4	49.0	48.4	51.8
20166	2009/04/01	17:05:31	48.7	52.2	48.7	52.9	49.7
20171	2009/04/01	17:05:46	51.2	47.0	50.3	44.3	44.3
20176	2009/04/01	17:06:01	48.1	48.6	49.9	50.3	53.7
20181	2009/04/01	17:06:16	51.6	50.1	53.3	45.7	45.4
20186	2009/04/01	17:06:31	47.5	47.5	51.4	48.3	49.5
20191	2009/04/01	17:06:46	47.5	51.4	49.9	52.1	51.4
20196	2009/04/01	17:07:01	52.5	48.5	50.9	52.4	52.2
20201	2009/04/01	17:07:16	53.0	52.2	50.2	48.9	45.6
20206	2009/04/01	17:07:31	43.5	43.5	46.2	49.4	50.6
20211	2009/04/01	17:07:46	54.0	52.0	54.5	50.6	53.6
20216	2009/04/01	17:08:01	50.6	51.4	51.7	53.8	53.0
20221	2009/04/01	17:08:16	56.3	54.7	53.5	52.2	45.9

20226	2009/04/01	17:08:31	44.0	43.7	44.8	50.0	48.6
20231	2009/04/01	17:08:46	48.4	49.3	50.8	48.6	49.8
20236	2009/04/01	17:09:01	50.4	47.8	49.9	53.6	50.6
20241	2009/04/01	17:09:16	53.8	54.5	53.9	53.5	54.6
20246	2009/04/01	17:09:31	50.3	55.7	48.3	51.6	49.7
20251	2009/04/01	17:09:46	51.2	53.7	49.4	48.7	46.7
20256	2009/04/01	17:10:01	46.5	46.4	45.5	44.6	43.3
20261	2009/04/01	17:10:16	44.5	44.9	48.1	47.5	49.9
20266	2009/04/01	17:10:31	49.2	52.2	54.2	53.1	51.7
20271	2009/04/01	17:10:46	50.4	47.5	41.8	42.1	44.0
20276	2009/04/01	17:11:01	45.1	50.5	54.5	55.2	57.1
20281	2009/04/01	17:11:16	53.5	56.4	54.1	55.7	50.2
20286	2009/04/01	17:11:31	56.1	44.3	45.4	43.3	46.7
20291	2009/04/01	17:11:46	48.5	48.4	53.8	49.2	48.6
20296	2009/04/01	17:12:01	46.5	45.2	46.1	46.3	47.8
20301	2009/04/01	17:12:16	48.3	49.8	49.5	46.9	51.9
20306	2009/04/01	17:12:31	54.8	53.8	52.5	50.9	54.5
20311	2009/04/01	17:12:46	53.7	54.9	56.8	56.7	55.0
20316	2009/04/01	17:13:01	54.4	53.9	52.3	55.7	49.0
20321	2009/04/01	17:13:16	54.1	48.7	49.1	49.7	53.9
20326	2009/04/01	17:13:31	52.7	54.4	52.0	49.9	48.1
20331	2009/04/01	17:13:46	46.9	46.6	47.7	49.6	47.9
20336	2009/04/01	17:14:01	48.5	44.9	48.2	50.1	49.1
20341	2009/04/01	17:14:16	49.7	52.7	48.2	52.3	44.8
20346	2009/04/01	17:14:31	49.5	46.6	49.6	49.1	46.6
20351	2009/04/01	17:14:46	48.1	51.0	50.8	53.1	51.8
20356	2009/04/01	17:15:01	55.5	57.0	54.1	56.8	55.4
20361	2009/04/01	17:15:16	54.1	55.6	55.2	52.9	55.2
20366	2009/04/01	17:15:31	54.2	54.9	49.6	53.0	51.6
20371	2009/04/01	17:15:46	52.9	48.4	51.0	51.0	49.1
20376	2009/04/01	17:16:01	51.5	55.7	56.6	61.3	53.4
20381	2009/04/01	17:16:16	59.4	51.5	50.2	51.4	48.3
20386	2009/04/01	17:16:31	46.4	46.2	45.0	43.3	41.9
20391	2009/04/01	17:16:46	40.9	42.1	41.6	44.0	50.2
20396	2009/04/01	17:17:01	50.2	55.0	57.3	56.8	57.7
20401	2009/04/01	17:17:16	56.0	55.6	55.0	57.7	52.3
20406	2009/04/01	17:17:31	52.9	59.0	70.0	59.8	58.2
20411	2009/04/01	17:17:46	69.6	61.9	54.5	49.7	48.5
20416	2009/04/01	17:18:01	42.5	48.5	46.3	48.8	49.1
20421	2009/04/01	17:18:16	51.9	53.6	56.9	57.8	59.4
20426	2009/04/01	17:18:31	55.9	59.0	56.2	62.1	54.6
20431	2009/04/01	17:18:46	53.7	53.7	53.4	51.1	49.7
20436	2009/04/01	17:19:01	50.4	50.5	52.7	52.0	51.5
20441	2009/04/01	17:19:16	52.4	52.8	55.2	53.6	52.4
20446	2009/04/01	17:19:31	53.5	55.7	52.1	53.3	54.8
20451	2009/04/01	17:19:46	56.5	55.0	54.1	51.1	48.3
20456	2009/04/01	17:20:01	47.6	41.7	43.7	49.3	51.2
20461	2009/04/01	17:20:16	54.0	53.3	51.9	52.7	54.1
20466	2009/04/01	17:20:31	55.5	51.0	56.7	53.7	54.3
20471	2009/04/01	17:20:46	57.1	51.9	57.1	48.1	41.3
20476	2009/04/01	17:21:01	38.7	37.5	39.1	43.4	43.0
20481	2009/04/01	17:21:16	47.0	47.2	50.1	46.7	50.6
20486	2009/04/01	17:21:31	45.2	43.0	42.6	46.0	49.6
20491	2009/04/01	17:21:46	51.6	49.1	51.0	48.2	50.7
20496	2009/04/01	17:22:01	48.1	49.1	50.9	48.4	53.3
20501	2009/04/01	17:22:16	45.0	46.9	42.5	42.2	42.8
20506	2009/04/01	17:22:31	44.8	48.1	49.4	49.0	53.9
20511	2009/04/01	17:22:46	50.2	51.9	56.0	54.8	57.9
20516	2009/04/01	17:23:01	58.2	60.1	54.8	60.0	55.4
20521	2009/04/01	17:23:16	50.2	46.2	48.6	49.6	50.9
20526	2009/04/01	17:23:31	44.7	51.1	51.2	50.9	50.4
20531	2009/04/01	17:23:46	53.4	52.9	51.4	48.1	49.2
20536	2009/04/01	17:24:01	50.9	47.9	52.0	48.9	48.6
20541	2009/04/01	17:24:16	47.0	46.3	45.4	48.2	46.2
20546	2009/04/01	17:24:31	46.9	45.7	50.4	51.1	54.8
20551	2009/04/01	17:24:46	57.4	59.4	54.9	47.3	58.2
20556	2009/04/01	17:25:01	74.3	63.3	60.2	56.4	50.4
20561	2009/04/01	17:25:16	45.7	47.1	47.7	51.2	50.8
20566	2009/04/01	17:25:31	54.1	48.1	52.0	50.1	52.6
20571	2009/04/01	17:25:46	53.7	58.2	52.2	57.8	49.0
20576	2009/04/01	17:26:01	49.3	53.7	54.2	58.0	48.1
20581	2009/04/01	17:26:16	51.5	46.5	51.0	49.3	53.1
20586	2009/04/01	17:26:31	51.1	51.1	49.8	49.2	46.6
20591	2009/04/01	17:26:46	47.9	52.3	55.6	47.7	48.8
20596	2009/04/01	17:27:01	53.9	61.3	69.6	64.9	58.4
20601	2009/04/01	17:27:16	56.4	55.2	54.2	52.2	52.4
20606	2009/04/01	17:27:31	50.4	51.4	46.7	55.2	47.2
20611	2009/04/01	17:27:46	47.1	50.7	52.0	51.5	52.1
20616	2009/04/01	17:28:01	53.8	54.3	49.7	52.1	49.4
20621	2009/04/01	17:28:16	52.6	51.9	51.7	52.5	54.5
20626	2009/04/01	17:28:31	48.5	52.7	48.1	45.8	44.0
20631	2009/04/01	17:28:46	43.5	47.4	46.8	50.2	51.8
20636	2009/04/01	17:29:01	50.5	53.3	52.9	51.8	53.1
20641	2009/04/01	17:29:16	50.5	52.3	50.3	52.3	52.8
20646	2009/04/01	17:29:31	53.5	53.9	54.3	55.5	55.8
20651	2009/04/01	17:29:46	57.4	54.1	55.9	54.9	54.3
20656	2009/04/01	17:30:01	54.7	55.3	55.5	52.7	53.7
20661	2009/04/01	17:30:16	52.1	57.7	55.0	56.0	55.2
20666	2009/04/01	17:30:31	56.4	58.7	57.4	55.9	57.1
20671	2009/04/01	17:30:46	56.0	59.0	56.5	58.9	57.2
20676	2009/04/01	17:31:01	56.1	63.8	63.4	66.7	59.2
20681	2009/04/01	17:31:16	56.5	55.3	54.3	53.6	56.9
20686	2009/04/01	17:31:31	55.6	59.0	54.4	56.7	54.9
20691	2009/04/01	17:31:46	49.8	53.0	49.7	48.9	52.9
20696	2009/04/01	17:32:01	54.6	57.4	55.2	54.2	59.2
20701	2009/04/01	17:32:16	56.5	52.0	56.1	54.2	51.5
20706	2009/04/01	17:32:31	52.2	55.5	55.8	56.1	56.6
20711	2009/04/01	17:32:46	56.3	57.4	51.9	51.1	49.5
20716	2009/04/01	17:33:01	47.0	45.7	44.4	45.6	47.8

20721	2009/04/01	17:33:16	49.9	50.2	51.0	52.3	47.0
20726	2009/04/01	17:33:31	50.1	45.4	45.7	48.5	49.0
20731	2009/04/01	17:33:46	48.9	48.8	48.0	46.5	48.1
20736	2009/04/01	17:34:01	47.7	46.8	49.6	51.1	47.0
20741	2009/04/01	17:34:16	48.8	51.5	52.1	56.7	59.9
20746	2009/04/01	17:34:31	63.6	59.5	57.7	58.3	57.1
20751	2009/04/01	17:34:46	55.3	53.9	53.9	55.9	52.0
20756	2009/04/01	17:35:01	53.1	50.2	54.0	47.1	50.4
20761	2009/04/01	17:35:16	53.9	54.0	58.3	57.8	55.9
20766	2009/04/01	17:35:31	56.1	50.5	53.4	51.4	49.8
20771	2009/04/01	17:35:46	52.2	51.9	54.2	54.4	53.4
20776	2009/04/01	17:36:01	56.1	52.9	50.8	57.3	51.9
20781	2009/04/01	17:36:16	53.4	52.7	52.7	54.0	51.2
20786	2009/04/01	17:36:31	50.9	52.4	54.2	49.6	53.0
20791	2009/04/01	17:36:46	45.7	52.1	42.6	45.3	49.5
20796	2009/04/01	17:37:01	50.4	51.7	50.4	50.3	54.3
20801	2009/04/01	17:37:16	55.4	52.2	50.7	49.0	47.1
20806	2009/04/01	17:37:31	47.4	48.1	51.3	52.6	51.9
20811	2009/04/01	17:37:46	52.2	55.4	62.4	56.5	52.9
20816	2009/04/01	17:38:01	54.4	48.6	49.8	49.2	51.8
20821	2009/04/01	17:38:16	49.8	49.8	48.9	47.7	53.1
20826	2009/04/01	17:38:31	49.5	53.3	50.0	52.3	49.2
20831	2009/04/01	17:38:46	48.3	50.8	49.9	46.5	49.3
20836	2009/04/01	17:39:01	52.7	44.8	49.6	47.2	51.4
20841	2009/04/01	17:39:16	54.1	51.7	48.0	47.6	47.0
20846	2009/04/01	17:39:31	44.2	43.3	46.9	45.2	46.8
20851	2009/04/01	17:39:46	51.6	53.2	54.3	53.3	55.5
20856	2009/04/01	17:40:01	53.4	55.4	53.3	53.2	54.4
20861	2009/04/01	17:40:16	53.2	49.1	53.1	47.6	46.1
20866	2009/04/01	17:40:31	47.4	52.0	52.6	55.5	53.8
20871	2009/04/01	17:40:46	44.5	41.9	44.5	46.8	49.5
20876	2009/04/01	17:41:01	52.9	54.2	54.0	50.2	56.8
20881	2009/04/01	17:41:16	49.2	43.2	48.4	37.8	37.0
20886	2009/04/01	17:41:31	40.5	46.3	54.4	53.3	53.7
20891	2009/04/01	17:41:46	52.8	51.2	54.9	51.1	50.6
20896	2009/04/01	17:42:01	53.0	56.6	54.8	52.4	51.0
20901	2009/04/01	17:42:16	47.0	44.3	42.6	48.7	55.3
20906	2009/04/01	17:42:31	60.5	64.3	51.6	54.7	49.4
20911	2009/04/01	17:42:46	46.0	48.9	47.9	50.3	50.0
20916	2009/04/01	17:43:01	49.7	49.2	51.0	45.8	50.0
20921	2009/04/01	17:43:16	43.9	49.9	51.8	50.0	51.4
20926	2009/04/01	17:43:31	53.7	54.1	55.8	54.4	55.3
20931	2009/04/01	17:43:46	55.3	48.3	49.7	43.5	43.9
20936	2009/04/01	17:44:01	46.1	46.7	50.5	48.2	52.6
20941	2009/04/01	17:44:16	50.6	47.3	53.6	53.7	59.9
20946	2009/04/01	17:44:31	63.6	55.2	56.4	58.7	56.7
20951	2009/04/01	17:44:46	55.2	51.6	58.6	66.3	58.8
20956	2009/04/01	17:45:01	56.7	54.5	55.9	56.1	56.4
20961	2009/04/01	17:45:16	57.9	56.2	54.9	52.2	51.6
20966	2009/04/01	17:45:31	53.2	47.9	48.0	52.1	41.5
20971	2009/04/01	17:45:46	49.3	46.5	49.8	45.5	51.9
20976	2009/04/01	17:46:01	44.3	43.9	43.7	48.5	52.4
20981	2009/04/01	17:46:16	54.9	52.2	54.2	52.0	50.6
20986	2009/04/01	17:46:31	48.6	50.0	50.6	50.1	53.1
20991	2009/04/01	17:46:46	55.7	55.7	58.3	50.8	56.5
20996	2009/04/01	17:47:01	48.8	47.9	47.9	48.4	45.7
21001	2009/04/01	17:47:16	45.8	46.9	48.6	45.2	44.9
21006	2009/04/01	17:47:31	45.6	48.8	50.2	51.7	51.9
21011	2009/04/01	17:47:46	54.4	52.4	55.3	52.0	46.5
21016	2009/04/01	17:48:01	47.8	43.9	50.4	46.9	48.8
21021	2009/04/01	17:48:16	48.9	46.8	53.2	48.0	50.0
21026	2009/04/01	17:48:31	50.4	47.5	47.5	53.1	53.4
21031	2009/04/01	17:48:46	50.6	53.0	51.1	53.8	55.6
21036	2009/04/01	17:49:01	56.0	57.8	59.5	67.9	61.0
21041	2009/04/01	17:49:16	58.1	54.4	53.3	57.8	55.7
21046	2009/04/01	17:49:31	55.6	53.3	53.9	53.0	49.7
21051	2009/04/01	17:49:46	52.9	52.5	53.3	52.8	53.1
21056	2009/04/01	17:50:01	48.4	53.3	44.2	44.5	50.6
21061	2009/04/01	17:50:16	49.7	52.1	53.3	54.4	53.3
21066	2009/04/01	17:50:31	54.5	54.3	54.8	54.7	55.0
21071	2009/04/01	17:50:46	53.2	51.3	53.4	54.1	54.1
21076	2009/04/01	17:51:01	53.2	55.0	52.5	57.0	64.8
21081	2009/04/01	17:51:16	58.6	53.5	56.2	53.7	51.5
21086	2009/04/01	17:51:31	49.6	53.2	53.2	53.7	57.8
21091	2009/04/01	17:51:46	50.1	56.6	49.1	48.0	52.0
21096	2009/04/01	17:52:01	49.9	50.8	47.6	47.4	50.8
21101	2009/04/01	17:52:16	48.6	52.9	52.4	53.0	55.9
21106	2009/04/01	17:52:31	56.5	50.4	56.4	55.3	54.4
21111	2009/04/01	17:52:46	55.8	59.2	56.1	56.0	53.6
21116	2009/04/01	17:53:01	54.7	45.5	43.7	47.0	46.0
21121	2009/04/01	17:53:16	50.8	51.5	50.7	51.4	48.9
21126	2009/04/01	17:53:31	47.9	48.8	46.8	50.9	49.6
21131	2009/04/01	17:53:46	52.1	54.4	47.9	53.2	50.2
21136	2009/04/01	17:54:01	51.1	52.4	51.7	54.7	53.6
21141	2009/04/01	17:54:16	57.3	49.7	56.7	50.3	53.1
21146	2009/04/01	17:54:31	51.8	55.9	52.9	53.9	55.0
21151	2009/04/01	17:54:46	56.1	52.2	55.1	55.4	57.3
21156	2009/04/01	17:55:01	55.6	56.9	53.8	57.3	52.9
21161	2009/04/01	17:55:16	52.5	53.4	53.3	55.5	55.9
21166	2009/04/01	17:55:31	53.6	54.0	54.8	60.7	61.2
21171	2009/04/01	17:55:46	55.4	50.1	49.7	49.8	51.7
21176	2009/04/01	17:56:01	51.4	50.6	51.0	52.4	54.0
21181	2009/04/01	17:56:16	55.2	56.2	57.9	54.9	53.1
21186	2009/04/01	17:56:31	52.1	52.2	53.9	55.2	55.8
21191	2009/04/01	17:56:46	61.5	54.1	59.7	54.2	52.3
21196	2009/04/01	17:57:01	56.0	52.0	54.4	53.9	53.2
21201	2009/04/01	17:57:16	54.3	54.6	52.9	52.1	52.8
21206	2009/04/01	17:57:31	53.5	52.6	51.3	51.0	55.0
21211	2009/04/01	17:57:46	54.8	54.8	55.2	51.8	51.8

21216	2009/04/01	17:58:01	48.7	48.7	48.1	49.8	48.4
21221	2009/04/01	17:58:16	48.3	52.2	53.0	53.5	54.2
21226	2009/04/01	17:58:31	52.6	55.5	52.5	51.7	48.6
21231	2009/04/01	17:58:46	49.6	46.7	51.4	52.0	53.7
21236	2009/04/01	17:59:01	53.1	54.1	51.1	51.9	50.6
21241	2009/04/01	17:59:16	48.6	49.0	48.5	46.2	48.4
21246	2009/04/01	17:59:31	51.6	46.8	49.7	49.0	47.5
21251	2009/04/01	17:59:46	47.8	46.0	47.6	47.8	52.5
21256	2009/04/01	18:00:01	50.3	53.5	52.2	52.4	52.4
21261	2009/04/01	18:00:16	49.7	45.4	43.3	45.1	46.8
21266	2009/04/01	18:00:31	49.7	53.2	52.0	53.1	55.3
21271	2009/04/01	18:00:46	53.6	56.0	55.3	60.3	58.6
21276	2009/04/01	18:01:01	60.0	66.0	58.5	65.1	52.3
21281	2009/04/01	18:01:16	54.4	51.4	50.0	52.9	52.4
21286	2009/04/01	18:01:31	55.7	52.4	52.1	48.4	49.0
21291	2009/04/01	18:01:46	53.6	58.6	66.3	57.7	53.0
21296	2009/04/01	18:02:01	54.0	50.2	53.8	60.2	63.2
21301	2009/04/01	18:02:16	55.8	58.5	55.7	52.9	50.4
21306	2009/04/01	18:02:31	51.6	49.9	49.7	50.5	52.6
21311	2009/04/01	18:02:46	52.8	54.7	52.4	54.5	55.7
21316	2009/04/01	18:03:01	52.5	55.0	54.5	56.2	54.7
21321	2009/04/01	18:03:16	49.8	55.8	59.9	66.3	60.4
21326	2009/04/01	18:03:31	56.6	58.6	51.4	52.3	52.0
21331	2009/04/01	18:03:46	52.6	53.8	53.2	51.2	49.3
21336	2009/04/01	18:04:01	51.4	51.2	50.0	51.6	53.8
21341	2009/04/01	18:04:16	55.5	55.8	54.9	52.7	53.2
21346	2009/04/01	18:04:31	53.4	55.2	55.8	55.7	55.4
21351	2009/04/01	18:04:46	51.1	58.3	50.5	56.0	55.3
21356	2009/04/01	18:05:01	56.7	53.7	58.4	55.5	57.2
21361	2009/04/01	18:05:16	56.0	54.7	54.6	54.4	52.0
21366	2009/04/01	18:05:31	50.6	51.9	51.6	55.0	53.5
21371	2009/04/01	18:05:46	53.1	54.2	54.5	54.9	51.6
21376	2009/04/01	18:06:01	53.6	52.5	53.4	51.9	50.2
21381	2009/04/01	18:06:16	48.6	52.6	50.6	53.1	55.0
21386	2009/04/01	18:06:31	52.8	52.6	52.5	53.9	55.7
21391	2009/04/01	18:06:46	53.8	55.4	54.5	52.2	52.8
21396	2009/04/01	18:07:01	53.5	54.5	55.3	55.5	56.2
21401	2009/04/01	18:07:16	52.5	56.4	52.0	53.4	50.6
21406	2009/04/01	18:07:31	55.1	55.4	56.1	56.5	56.4
21411	2009/04/01	18:07:46	57.3	55.7	57.4	53.5	50.9
21416	2009/04/01	18:08:01	49.1	50.9	52.5	56.9	58.4
21421	2009/04/01	18:08:16	50.4	54.6	60.6	72.3	59.2
21426	2009/04/01	18:08:31	57.1	56.8	57.0	53.7	54.8
21431	2009/04/01	18:08:46	54.3	56.9	57.2	56.1	60.8
21436	2009/04/01	18:09:01	53.3	59.3	53.1	53.9	50.2
21441	2009/04/01	18:09:16	45.9	48.5	51.7	53.9	56.2
21446	2009/04/01	18:09:31	54.6	56.1	56.3	54.4	50.4
21451	2009/04/01	18:09:46	51.3	53.2	53.2	53.6	51.9
21456	2009/04/01	18:10:01	48.6	55.0	47.5	50.0	50.5
21461	2009/04/01	18:10:16	49.7	49.7	49.4	53.4	49.7
21466	2009/04/01	18:10:31	52.7	52.8	58.1	63.2	68.6
21471	2009/04/01	18:10:46	57.0	60.1	57.7	58.2	54.7
21476	2009/04/01	18:11:01	55.4	50.6	57.7	57.0	52.0
21481	2009/04/01	18:11:16	55.6	50.0	55.4	46.9	42.1
21486	2009/04/01	18:11:31	44.1	41.1	39.7	39.7	38.4
21491	2009/04/01	18:11:46	39.5	44.7	51.2	49.8	51.4
21496	2009/04/01	18:12:01	54.5	54.6	50.5	55.7	56.5
21501	2009/04/01	18:12:16	54.1	52.2	51.8	48.9	54.4
21506	2009/04/01	18:12:31	48.1	48.6	50.1	54.6	47.8
21511	2009/04/01	18:12:46	50.4	50.6	49.4	48.6	57.2
21516	2009/04/01	18:13:01	52.3	55.0	57.8	56.8	57.2
21521	2009/04/01	18:13:16	56.6	56.2	57.9	54.7	54.8
21526	2009/04/01	18:13:31	54.0	52.9	52.0	54.3	51.8
21531	2009/04/01	18:13:46	52.1	45.6	51.9	42.2	46.8
21536	2009/04/01	18:14:01	41.4	42.3	46.6	51.1	50.5
21541	2009/04/01	18:14:16	54.7	53.9	53.2	53.0	51.9
21546	2009/04/01	18:14:31	55.1	54.8	51.7	51.8	51.8
21551	2009/04/01	18:14:46	54.2	53.7	54.9	52.4	52.3
21556	2009/04/01	18:15:01	46.4	45.7	50.5	47.4	50.6
21561	2009/04/01	18:15:16	50.7	51.3	52.8	54.1	55.1
21566	2009/04/01	18:15:31	50.3	53.5	53.4	56.5	58.1
21571	2009/04/01	18:15:46	59.0	55.9	57.8	55.4	53.9
21576	2009/04/01	18:16:01	55.5	55.9	52.1	56.7	54.4
21581	2009/04/01	18:16:16	54.3	56.3	56.0	54.3	55.8
21586	2009/04/01	18:16:31	54.6	56.3	56.3	55.7	56.9
21591	2009/04/01	18:16:46	56.6	54.8	53.1	52.5	52.4
21596	2009/04/01	18:17:01	54.2	53.0	52.8	53.2	52.5
21601	2009/04/01	18:17:16	50.9	51.2	53.6	49.0	50.4
21606	2009/04/01	18:17:31	51.6	49.1	50.2	47.5	48.6
21611	2009/04/01	18:17:46	50.2	54.3	54.7	57.1	59.7
21616	2009/04/01	18:18:01	58.2	68.2	62.3	60.6	61.3
21621	2009/04/01	18:18:16	60.5	55.1	54.0	55.3	52.4
21626	2009/04/01	18:18:31	55.1	56.4	53.9	54.9	57.2
21631	2009/04/01	18:18:46	57.1	59.1	57.4	56.9	55.1
21636	2009/04/01	18:19:01	53.1	56.3	56.3	54.3	54.2
21641	2009/04/01	18:19:16	55.5	55.3	56.7	56.1	53.7
21646	2009/04/01	18:19:31	55.8	53.7	51.8	57.1	56.6
21651	2009/04/01	18:19:46	57.5	59.6	61.2	59.7	62.5
21656	2009/04/01	18:20:01	59.8	58.3	62.0	57.4	57.0
21661	2009/04/01	18:20:16	55.8	60.1	52.8	57.4	58.3
21666	2009/04/01	18:20:31	58.4	56.7	59.1	54.5	57.4
21671	2009/04/01	18:20:46	50.3	47.9	47.8	52.4	54.1
21676	2009/04/01	18:21:01	53.2	55.5	56.1	57.1	55.3
21681	2009/04/01	18:21:16	57.4	55.3	56.7	56.8	59.2
21686	2009/04/01	18:21:31	58.3	57.1	55.9	57.1	52.5
21691	2009/04/01	18:21:46	54.2	55.3	58.4	58.4	59.5
21696	2009/04/01	18:22:01	60.6	57.4	60.0	57.9	56.4
21701	2009/04/01	18:22:16	57.0	54.8	53.2	57.5	60.3
21706	2009/04/01	18:22:31	60.1	60.4	58.7	60.0	57.9

21711	2009/04/01	18:22:46	57.2	56.1	57.3	54.3	54.1
21716	2009/04/01	18:23:01	53.7	55.4	54.9	54.8	57.6
21721	2009/04/01	18:23:16	57.6	58.5	57.0	53.7	57.8
21726	2009/04/01	18:23:31	52.5	54.8	51.2	52.4	52.1
21731	2009/04/01	18:23:46	57.7	55.5	55.0	54.3	56.3
21736	2009/04/01	18:24:01	57.4	55.4	52.6	58.3	52.8
21741	2009/04/01	18:24:16	54.5	57.2	52.9	51.1	55.9
21746	2009/04/01	18:24:31	53.7	56.6	55.8	56.7	59.6
21751	2009/04/01	18:24:46	56.8	59.1	56.6	56.3	53.2
21756	2009/04/01	18:25:01	53.2	52.0	56.3	50.7	53.7
21761	2009/04/01	18:25:16	55.6	52.7	52.7	55.0	57.9
21766	2009/04/01	18:25:31	53.5	55.5	53.7	50.0	56.0
21771	2009/04/01	18:25:46	52.1	53.1	55.8	53.4	56.4
21776	2009/04/01	18:26:01	55.4	54.6	54.3	53.5	54.5
21781	2009/04/01	18:26:16	52.5	52.6	56.1	54.6	54.6
21786	2009/04/01	18:26:31	53.5	52.9	53.8	51.7	51.6
21791	2009/04/01	18:26:46	52.8	49.3	50.9	50.5	47.7
21796	2009/04/01	18:27:01	49.8	47.8	48.8	46.6	46.6
21801	2009/04/01	18:27:16	48.9	50.9	58.3	65.3	55.9
21806	2009/04/01	18:27:31	55.1	53.0	54.2	51.5	53.3
21811	2009/04/01	18:27:46	51.4	52.7	51.2	51.2	57.6
21816	2009/04/01	18:28:01	54.3	58.8	56.4	57.4	55.9
21821	2009/04/01	18:28:16	52.6	55.0	52.5	54.4	57.0
21826	2009/04/01	18:28:31	56.3	57.0	51.7	56.9	49.7
21831	2009/04/01	18:28:46	46.7	51.6	48.2	47.5	47.9
21836	2009/04/01	18:29:01	53.8	54.6	57.9	63.8	55.3
21841	2009/04/01	18:29:16	52.4	54.6	50.2	51.8	49.8
21846	2009/04/01	18:29:31	52.1	50.3	54.0	54.1	52.8
21851	2009/04/01	18:29:46	56.2	54.3	55.2	54.9	55.2
21856	2009/04/01	18:30:01	55.2	58.3	56.3	56.0	58.0
21861	2009/04/01	18:30:16	58.3	60.0	57.0	59.1	55.7
21866	2009/04/01	18:30:31	55.7	55.4	51.3	53.2	54.8
21871	2009/04/01	18:30:46	56.8	53.7	56.5	54.9	54.2
21876	2009/04/01	18:31:01	55.8	52.9	56.8	50.3	56.1
21881	2009/04/01	18:31:16	51.3	50.7	52.5	54.3	56.6
21886	2009/04/01	18:31:31	55.1	57.9	57.7	56.2	57.6
21891	2009/04/01	18:31:46	53.2	54.3	59.6	60.2	60.6
21896	2009/04/01	18:32:01	56.5	65.7	57.0	57.7	54.7
21901	2009/04/01	18:32:16	57.8	56.6	57.7	52.8	58.3
21906	2009/04/01	18:32:31	55.2	48.9	51.2	54.6	52.1
21911	2009/04/01	18:32:46	56.0	52.3	52.7	55.4	51.8
21916	2009/04/01	18:33:01	53.8	53.8	56.7	54.1	55.7
21921	2009/04/01	18:33:16	54.2	57.3	54.3	55.1	55.8
21926	2009/04/01	18:33:31	56.9	59.0	60.0	56.3	59.0
21931	2009/04/01	18:33:46	53.1	54.7	54.0	54.4	54.5
21936	2009/04/01	18:34:01	56.1	56.4	53.6	59.0	54.2
21941	2009/04/01	18:34:16	56.0	54.4	54.9	52.4	51.2
21946	2009/04/01	18:34:31	50.8	49.1	50.9	50.0	50.5
21951	2009/04/01	18:34:46	51.4	56.5	56.2	55.7	55.5
21956	2009/04/01	18:35:01	57.0	57.6	66.3	59.7	56.7
21961	2009/04/01	18:35:16	57.7	57.4	55.2	58.9	55.5
21966	2009/04/01	18:35:31	54.0	53.6	52.0	54.6	57.1
21971	2009/04/01	18:35:46	59.3	53.3	55.5	50.7	55.1
21976	2009/04/01	18:36:01	50.4	51.8	55.7	58.2	61.4
21981	2009/04/01	18:36:16	62.2	61.4	62.4	60.1	59.8
21986	2009/04/01	18:36:31	52.4	52.5	49.8	56.0	55.8
21991	2009/04/01	18:36:46	55.8	59.4	55.6	52.9	55.6
21996	2009/04/01	18:37:01	53.4	57.3	55.3	53.4	56.8
22001	2009/04/01	18:37:16	57.3	60.5	60.0	55.5	58.4
22006	2009/04/01	18:37:31	56.7	53.3	55.7	57.3	56.3
22011	2009/04/01	18:37:46	58.0	58.2	57.9	59.7	58.3
22016	2009/04/01	18:38:01	56.2	55.7	50.1	49.3	49.5
22021	2009/04/01	18:38:16	49.8	50.6	52.3	54.4	57.6
22026	2009/04/01	18:38:31	58.2	59.5	57.7	58.2	57.9
22031	2009/04/01	18:38:46	56.1	56.0	58.0	56.6	58.4
22036	2009/04/01	18:39:01	60.2	56.9	55.3	54.9	63.6
22041	2009/04/01	18:39:16	74.6	61.2	58.0	51.0	55.5
22046	2009/04/01	18:39:31	52.5	55.6	54.7	52.9	55.5
22051	2009/04/01	18:39:46	56.1	56.9	55.5	55.3	63.8
22056	2009/04/01	18:40:01	67.0	58.4	57.8	62.0	57.9
22061	2009/04/01	18:40:16	51.8	49.6	50.2	50.2	51.0
22066	2009/04/01	18:40:31	47.6	53.7	49.6	51.3	54.6
22071	2009/04/01	18:40:46	51.3	54.9	53.9	54.7	55.0
22076	2009/04/01	18:41:01	54.7	50.9	54.5	56.9	53.3
22081	2009/04/01	18:41:16	56.4	51.7	56.6	56.8	53.6
22086	2009/04/01	18:41:31	58.3	65.6	56.6	55.9	55.5
22091	2009/04/01	18:41:46	56.0	56.3	56.4	53.5	51.1
22096	2009/04/01	18:42:01	51.2	52.8	51.2	51.6	50.9
22101	2009/04/01	18:42:16	55.8	51.1	52.6	53.0	57.1
22106	2009/04/01	18:42:31	56.4	57.6	55.7	55.7	55.2
22111	2009/04/01	18:42:46	53.8	52.0	48.0	51.0	47.7
22116	2009/04/01	18:43:01	49.9	52.4	51.2	53.3	54.5
22121	2009/04/01	18:43:16	57.5	53.6	54.6	55.3	53.9
22126	2009/04/01	18:43:31	53.5	54.3	48.2	55.1	55.4
22131	2009/04/01	18:43:46	50.8	54.4	52.4	55.4	52.8
22136	2009/04/01	18:44:01	57.2	53.2	58.8	58.5	58.2
22141	2009/04/01	18:44:16	58.9	58.1	58.8	58.8	58.8
22146	2009/04/01	18:44:31	52.4	52.9	51.0	57.0	51.5
22151	2009/04/01	18:44:46	51.8	50.8	51.6	51.5	51.6
22156	2009/04/01	18:45:01	53.2	52.7	51.4	54.1	48.1
22161	2009/04/01	18:45:16	47.1	49.7	66.3	59.2	53.1
22166	2009/04/01	18:45:31	56.5	57.3	58.9	54.8	55.1
22171	2009/04/01	18:45:46	54.0	50.9	49.2	52.3	51.6
22176	2009/04/01	18:46:01	56.5	56.4	54.8	55.9	53.6
22181	2009/04/01	18:46:16	53.5	54.4	55.8	57.0	53.8
22186	2009/04/01	18:46:31	55.5	56.9	55.5	62.0	61.4
22191	2009/04/01	18:46:46	55.4	59.2	58.9	57.6	56.3
22196	2009/04/01	18:47:01	57.2	53.4	55.5	53.5	55.6
22201	2009/04/01	18:47:16	52.5	55.4	52.8	57.5	55.7

22206	2009/04/01	18:47:31	53.3	52.8	55.8	56.1	56.3
22211	2009/04/01	18:47:46	59.0	56.7	60.7	55.8	58.9
22216	2009/04/01	18:48:01	56.6	57.2	59.0	58.3	58.6
22221	2009/04/01	18:48:16	57.2	58.5	51.8	55.0	54.4
22226	2009/04/01	18:48:31	56.0	53.9	58.6	58.7	68.4
22231	2009/04/01	18:48:46	59.1	56.7	63.8	62.0	57.5
22236	2009/04/01	18:49:01	54.3	54.8	56.8	54.9	54.9
22241	2009/04/01	18:49:16	51.1	53.2	52.6	54.1	53.6
22246	2009/04/01	18:49:31	55.6	53.4	54.9	54.2	56.1
22251	2009/04/01	18:49:46	53.7	52.7	54.6	55.9	55.2
22256	2009/04/01	18:50:01	55.1	55.8	56.2	59.5	54.0
22261	2009/04/01	18:50:16	54.6	56.9	54.1	53.3	54.0
22266	2009/04/01	18:50:31	57.4	55.1	54.9	54.6	54.2
22271	2009/04/01	18:50:46	55.6	54.5	54.3	55.7	53.5
22276	2009/04/01	18:51:01	56.2	57.1	57.2	55.3	59.6
22281	2009/04/01	18:51:16	69.6	63.0	61.5	61.0	53.9
22286	2009/04/01	18:51:31	52.4	51.4	49.3	49.1	48.1
22291	2009/04/01	18:51:46	50.5	54.3	56.4	57.5	57.5
22296	2009/04/01	18:52:01	59.2	56.8	54.8	56.0	55.6
22301	2009/04/01	18:52:16	55.7	54.4	55.1	57.6	54.0
22306	2009/04/01	18:52:31	52.1	54.9	52.3	59.0	51.5
22311	2009/04/01	18:52:46	55.4	55.0	58.1	57.8	54.9
22316	2009/04/01	18:53:01	57.5	54.9	56.1	53.9	57.4
22321	2009/04/01	18:53:16	51.2	56.9	53.0	51.6	55.1
22326	2009/04/01	18:53:31	53.4	50.2	51.6	51.2	51.3
22331	2009/04/01	18:53:46	52.5	52.8	57.2	58.3	59.8
22336	2009/04/01	18:54:01	65.5	58.6	60.7	57.3	53.7
22341	2009/04/01	18:54:16	58.2	57.1	53.5	60.1	70.4
22346	2009/04/01	18:54:31	59.9	57.0	56.8	58.1	55.5
22351	2009/04/01	18:54:46	57.3	56.0	58.5	58.9	63.6
22356	2009/04/01	18:55:01	67.2	58.2	57.3	55.6	56.2
22361	2009/04/01	18:55:16	55.5	55.3	51.7	53.0	53.5
22366	2009/04/01	18:55:31	54.6	54.7	56.2	56.6	55.9
22371	2009/04/01	18:55:46	57.7	55.6	57.7	55.7	56.8
22376	2009/04/01	18:56:01	54.4	57.1	59.5	56.3	52.6
22381	2009/04/01	18:56:16	56.5	54.2	54.7	56.6	58.5
22386	2009/04/01	18:56:31	56.2	57.7	55.9	56.2	55.5
22391	2009/04/01	18:56:46	54.8	54.5	53.1	55.0	52.1
22396	2009/04/01	18:57:01	53.3	55.5	60.1	62.6	56.7
22401	2009/04/01	18:57:16	53.1	56.4	60.3	57.3	54.9
22406	2009/04/01	18:57:31	53.4	54.6	53.4	59.1	57.6
22411	2009/04/01	18:57:46	57.5	59.7	58.9	59.4	57.8
22416	2009/04/01	18:58:01	54.6	54.8	51.9	51.2	51.7
22421	2009/04/01	18:58:16	53.1	53.8	54.3	54.1	55.8
22426	2009/04/01	18:58:31	50.8	53.5	59.3	65.9	55.3
22431	2009/04/01	18:58:46	56.4	49.9	53.8	52.6	53.4
22436	2009/04/01	18:59:01	57.9	55.3	57.9	52.0	52.9
22441	2009/04/01	18:59:16	52.6	53.2	55.0	54.5	55.9
22446	2009/04/01	18:59:31	51.2	54.8	52.1	53.3	52.7
22451	2009/04/01	18:59:46	54.0	55.1	54.7	56.1	55.5
22456	2009/04/01	19:00:01	58.1	54.6	54.2	54.0	57.0
22461	2009/04/01	19:00:16	56.6	56.3	55.7	53.9	51.6
22466	2009/04/01	19:00:31	55.9	52.7	53.9	54.9	54.6
22471	2009/04/01	19:00:46	52.8	55.1	57.7	56.3	56.1
22476	2009/04/01	19:01:01	57.3	55.7	56.1	58.5	58.9
22481	2009/04/01	19:01:16	62.5	69.8	58.0	60.2	59.7
22486	2009/04/01	19:01:31	59.3	56.0	56.5	54.4	55.7
22491	2009/04/01	19:01:46	57.0	55.5	57.9	54.4	56.5
22496	2009/04/01	19:02:01	55.7	56.4	55.7	56.6	56.8
22501	2009/04/01	19:02:16	54.3	52.8	55.8	55.4	55.9
22506	2009/04/01	19:02:31	54.7	54.5	57.7	55.3	55.1
22511	2009/04/01	19:02:46	51.9	55.1	50.6	52.5	54.3
22516	2009/04/01	19:03:01	54.1	54.7	57.1	53.8	54.7
22521	2009/04/01	19:03:16	55.0	58.3	56.5	57.9	56.5
22526	2009/04/01	19:03:31	58.3	57.9	56.4	56.6	56.1
22531	2009/04/01	19:03:46	55.6	54.4	53.0	53.0	55.4
22536	2009/04/01	19:04:01	56.9	55.3	56.4	56.7	60.0
22541	2009/04/01	19:04:16	58.4	59.4	59.2	60.5	60.2
22546	2009/04/01	19:04:31	58.1	55.0	56.0	52.9	52.9
22551	2009/04/01	19:04:46	55.3	51.3	52.7	53.6	51.2
22556	2009/04/01	19:05:01	52.1	54.2	58.7	57.6	57.7
22561	2009/04/01	19:05:16	56.5	55.9	56.4	55.7	52.9
22566	2009/04/01	19:05:31	52.8	58.0	56.5	56.9	55.5
22571	2009/04/01	19:05:46	56.8	57.1	56.6	54.8	57.6
22576	2009/04/01	19:06:01	57.0	58.3	58.8	59.2	58.3
22581	2009/04/01	19:06:16	57.0	54.0	52.0	52.1	53.4
22586	2009/04/01	19:06:31	55.7	55.8	57.2	56.4	56.7
22591	2009/04/01	19:06:46	56.7	56.6	58.4	57.7	59.1
22596	2009/04/01	19:07:01	60.6	59.2	58.5	61.1	62.4
22601	2009/04/01	19:07:16	62.1	57.3	57.3	55.0	58.6
22606	2009/04/01	19:07:31	58.3	53.5	56.1	57.1	58.0
22611	2009/04/01	19:07:46	56.6	56.6	58.0	54.8	55.9
22616	2009/04/01	19:08:01	57.2	57.0	58.4	58.4	63.3
22621	2009/04/01	19:08:16	65.5	67.6	59.9	64.4	60.3
22626	2009/04/01	19:08:31	56.2	55.9	58.4	59.1	58.6
22631	2009/04/01	19:08:46	57.6	57.6	55.9	57.0	55.8
22636	2009/04/01	19:09:01	54.5	56.8	59.1	55.0	56.3
22641	2009/04/01	19:09:16	53.3	54.5	51.6	53.2	57.5
22646	2009/04/01	19:09:31	56.5	69.4	61.5	58.9	58.1
22651	2009/04/01	19:09:46	55.2	54.2	55.1	55.1	53.3
22656	2009/04/01	19:10:01	56.2	52.9	55.1	54.0	54.6
22661	2009/04/01	19:10:16	52.8	54.6	56.4	57.2	57.4
22666	2009/04/01	19:10:31	56.7	55.0	55.9	53.9	55.5
22671	2009/04/01	19:10:46	55.0	54.7	54.3	52.0	57.9
22676	2009/04/01	19:11:01	52.3	53.4	56.3	58.6	57.8
22681	2009/04/01	19:11:16	61.0	59.9	60.5	63.2	67.1
22686	2009/04/01	19:11:31	70.6	72.8	63.7	61.5	62.1
22691	2009/04/01	19:11:46	65.5	60.4	59.5	59.0	57.0
22696	2009/04/01	19:12:01	56.9	58.1	55.9	56.4	55.4

22701	2009/04/01	19:12:16	54.0	56.2	56.8	57.3	56.4
22706	2009/04/01	19:12:31	60.1	66.7	64.1	58.0	56.0
22711	2009/04/01	19:12:46	56.2	55.7	55.6	55.7	57.4
22716	2009/04/01	19:13:01	57.9	60.0	65.5	59.3	58.7
22721	2009/04/01	19:13:16	59.6	58.1	57.5	55.7	57.3
22726	2009/04/01	19:13:31	55.8	55.9	56.4	57.4	55.5
22731	2009/04/01	19:13:46	55.8	54.6	53.6	56.0	54.8
22736	2009/04/01	19:14:01	55.3	56.0	57.2	54.0	55.9
22741	2009/04/01	19:14:16	55.8	57.6	60.4	63.6	66.8
22746	2009/04/01	19:14:31	62.4	57.8	58.7	56.3	56.6
22751	2009/04/01	19:14:46	58.0	56.6	57.1	54.7	57.8
22756	2009/04/01	19:15:01	56.7	55.1	57.6	58.5	60.9
22761	2009/04/01	19:15:16	61.4	58.1	59.6	60.3	59.8
22766	2009/04/01	19:15:31	61.6	59.5	66.5	63.4	62.5
22771	2009/04/01	19:15:46	61.8	61.8	70.4	60.2	60.2
22776	2009/04/01	19:16:01	60.3	67.2	64.6	61.1	59.2
22781	2009/04/01	19:16:16	58.4	59.9	57.4	58.2	59.1
22786	2009/04/01	19:16:31	62.8	61.8	62.0	61.3	65.3
22791	2009/04/01	19:16:46	56.7	58.4	56.5	55.8	56.7
22796	2009/04/01	19:17:01	57.2	58.0	53.9	56.5	53.2
22801	2009/04/01	19:17:16	55.8	54.0	52.8	55.3	57.0
22806	2009/04/01	19:17:31	55.4	57.5	62.3	67.0	70.1
22811	2009/04/01	19:17:46	63.9	69.8	60.4	61.8	61.9
22816	2009/04/01	19:18:01	59.7	57.4	55.4	55.7	53.9
22821	2009/04/01	19:18:16	56.3	54.9	54.7	53.8	56.3
22826	2009/04/01	19:18:31	59.8	70.9	60.5	63.8	62.3
22831	2009/04/01	19:18:46	59.5	61.8	66.8	67.7	57.1
22836	2009/04/01	19:19:01	53.7	53.2	57.8	61.3	56.0
22841	2009/04/01	19:19:16	58.8	62.3	71.8	63.2	60.2
22846	2009/04/01	19:19:31	58.9	57.9	59.6	56.8	55.5
22851	2009/04/01	19:19:46	53.4	55.9	57.4	52.2	54.0
22856	2009/04/01	19:20:01	57.4	56.0	54.0	58.3	64.3
22861	2009/04/01	19:20:16	63.7	60.0	57.1	56.8	58.2
22866	2009/04/01	19:20:31	67.0	61.6	61.1	58.9	59.2
22871	2009/04/01	19:20:46	60.7	61.5	59.3	60.8	61.1
22876	2009/04/01	19:21:01	65.4	64.4	67.7	73.4	64.0
22881	2009/04/01	19:21:16	59.8	57.5	54.9	56.7	55.8
22886	2009/04/01	19:21:31	56.0	57.3	57.6	60.1	60.7
22891	2009/04/01	19:21:46	63.7	62.0	60.7	66.9	55.6
22896	2009/04/01	19:22:01	56.4	53.9	56.0	56.6	55.4
22901	2009/04/01	19:22:16	53.5	57.0	55.2	56.8	56.9
22906	2009/04/01	19:22:31	56.6	57.4	56.8	54.0	53.6
22911	2009/04/01	19:22:46	53.2	53.9	54.4	54.8	57.4
22916	2009/04/01	19:23:01	54.2	52.7	54.2	55.9	52.1
22921	2009/04/01	19:23:16	54.4	52.0	56.7	57.0	55.2
22926	2009/04/01	19:23:31	56.2	55.2	58.2	57.5	57.8
22931	2009/04/01	19:23:46	57.1	59.6	56.8	58.7	57.4
22936	2009/04/01	19:24:01	58.0	57.0	58.9	60.2	57.5
22941	2009/04/01	19:24:16	57.2	58.1	54.6	54.6	56.0
22946	2009/04/01	19:24:31	54.0	56.3	55.3	56.8	59.0
22951	2009/04/01	19:24:46	55.6	57.1	55.9	55.1	56.0
22956	2009/04/01	19:25:01	56.4	56.0	58.5	56.3	55.0
22961	2009/04/01	19:25:16	54.1	54.2	56.3	57.1	56.2
22966	2009/04/01	19:25:31	59.0	55.5	58.0	56.1	55.2
22971	2009/04/01	19:25:46	54.2	53.2	52.6	52.4	52.8
22976	2009/04/01	19:26:01	55.0	55.3	56.9	58.3	56.1
22981	2009/04/01	19:26:16	56.2	56.0	52.5	55.0	56.2
22986	2009/04/01	19:26:31	55.3	55.4	58.9	56.2	60.1
22991	2009/04/01	19:26:46	62.4	58.9	57.4	59.1	58.2
22996	2009/04/01	19:27:01	62.2	60.4	62.1	66.2	61.6
23001	2009/04/01	19:27:16	58.0	58.6	59.1	58.2	57.6
23006	2009/04/01	19:27:31	58.7	58.3	58.0	60.5	55.0
23011	2009/04/01	19:27:46	57.7	57.7	58.2	56.1	55.9
23016	2009/04/01	19:28:01	58.8	57.6	59.0	57.0	57.5
23021	2009/04/01	19:28:16	58.0	59.0	59.8	62.1	66.7
23026	2009/04/01	19:28:31	60.3	57.5	56.6	55.5	58.1
23031	2009/04/01	19:28:46	58.0	57.9	58.2	57.9	55.0
23036	2009/04/01	19:29:01	53.2	53.0	50.8	50.5	52.3
23041	2009/04/01	19:29:16	54.2	56.5	55.2	56.3	57.9
23046	2009/04/01	19:29:31	57.3	58.4	59.5	54.7	55.6
23051	2009/04/01	19:29:46	52.7	53.5	54.3	51.5	53.2
23056	2009/04/01	19:30:01	53.8	56.4	54.5	57.5	58.2
23061	2009/04/01	19:30:16	54.6	57.4	57.9	60.0	59.0
23066	2009/04/01	19:30:31	61.4	68.8	60.6	59.8	57.6
23071	2009/04/01	19:30:46	58.8	59.2	57.9	54.8	55.3
23076	2009/04/01	19:31:01	55.1	53.3	57.9	53.8	54.3
23081	2009/04/01	19:31:16	55.9	56.9	57.6	67.4	59.5
23086	2009/04/01	19:31:31	57.3	61.3	57.8	55.8	54.3
23091	2009/04/01	19:31:46	56.6	56.9	56.7	60.8	64.3
23096	2009/04/01	19:32:01	58.0	57.0	58.6	60.1	60.3
23101	2009/04/01	19:32:16	60.6	59.1	55.6	59.1	56.4
23106	2009/04/01	19:32:31	57.4	59.7	60.7	59.4	60.6
23111	2009/04/01	19:32:46	57.0	56.4	60.0	69.5	64.9
23116	2009/04/01	19:33:01	66.5	65.6	69.0	59.1	61.2
23121	2009/04/01	19:33:16	61.4	58.8	58.5	57.8	59.0
23126	2009/04/01	19:33:31	59.3	56.2	57.9	54.6	56.7
23131	2009/04/01	19:33:46	58.2	58.5	58.8	59.3	59.1
23136	2009/04/01	19:34:01	56.8	61.1	63.8	60.8	62.3
23141	2009/04/01	19:34:16	64.6	62.1	60.8	60.7	62.9
23146	2009/04/01	19:34:31	60.3	57.2	59.3	58.4	60.8
23151	2009/04/01	19:34:46	57.1	57.1	56.2	55.5	58.3
23156	2009/04/01	19:35:01	60.0	58.3	58.4	61.6	60.4
23161	2009/04/01	19:35:16	62.3	61.4	61.3	62.0	61.1
23166	2009/04/01	19:35:31	66.9	57.7	53.2	59.9	54.5
23171	2009/04/01	19:35:46	55.2	58.4	59.6	59.9	58.8
23176	2009/04/01	19:36:01	60.3	57.7	60.3	60.6	55.2
23181	2009/04/01	19:36:16	56.1	57.7	59.6	57.6	58.9
23186	2009/04/01	19:36:31	56.0	57.4	56.1	54.7	56.2
23191	2009/04/01	19:36:46	57.1	57.5	56.1	57.6	56.7

23196	2009/04/01	19:37:01	57.3	56.3	58.9	58.4	59.8
23201	2009/04/01	19:37:16	59.9	56.6	57.9	56.3	57.3
23206	2009/04/01	19:37:31	54.8	55.8	53.5	57.7	55.9
23211	2009/04/01	19:37:46	58.5	56.8	58.3	54.7	58.0
23216	2009/04/01	19:38:01	60.0	61.0	65.6	62.0	59.8
23221	2009/04/01	19:38:16	61.5	61.0	57.0	57.6	59.3
23226	2009/04/01	19:38:31	59.2	61.8	62.0	59.3	57.7
23231	2009/04/01	19:38:46	57.5	57.0	57.2	58.5	59.1
23236	2009/04/01	19:39:01	59.0	57.9	59.2	57.8	57.0
23241	2009/04/01	19:39:16	57.1	56.6	56.8	55.8	59.7
23246	2009/04/01	19:39:31	63.5	60.3	60.5	59.6	59.7
23251	2009/04/01	19:39:46	62.8	59.7	58.7	58.3	57.4
23256	2009/04/01	19:40:01	56.5	58.0	56.8	58.3	57.6
23261	2009/04/01	19:40:16	58.8	59.3	58.4	57.8	57.0
23266	2009/04/01	19:40:31	57.7	59.5	58.4	57.9	58.6
23271	2009/04/01	19:40:46	55.9	58.2	57.3	58.1	58.3
23276	2009/04/01	19:41:01	58.4	59.3	58.2	58.2	57.4
23281	2009/04/01	19:41:16	58.6	59.2	58.5	58.9	58.4
23286	2009/04/01	19:41:31	59.5	58.8	58.5	58.7	59.5
23291	2009/04/01	19:41:46	58.5	62.0	64.0	61.3	59.2
23296	2009/04/01	19:42:01	61.0	58.0	59.9	56.1	58.0
23301	2009/04/01	19:42:16	58.3	58.6	57.6	59.7	53.7
23306	2009/04/01	19:42:31	56.3	54.0	55.0	55.6	57.1
23311	2009/04/01	19:42:46	58.1	57.9	57.2	56.2	57.5
23316	2009/04/01	19:43:01	57.5	58.5	58.7	57.0	57.5
23321	2009/04/01	19:43:16	57.4	57.9	57.0	57.1	58.8
23326	2009/04/01	19:43:31	58.5	57.3	59.1	56.8	57.2
23331	2009/04/01	19:43:46	56.5	59.6	56.7	57.2	55.6
23336	2009/04/01	19:44:01	58.2	56.4	57.5	57.4	57.1
23341	2009/04/01	19:44:16	66.2	64.7	58.8	57.3	59.3
23346	2009/04/01	19:44:31	58.2	60.3	59.7	65.6	62.8
23351	2009/04/01	19:44:46	59.4	63.6	64.9	62.0	61.2
23356	2009/04/01	19:45:01	60.5	61.2	58.7	58.4	57.2
23361	2009/04/01	19:45:16	59.6	70.6	62.7	56.0	57.2
23366	2009/04/01	19:45:31	58.2	58.9	59.1	58.1	57.3
23371	2009/04/01	19:45:46	57.1	59.1	58.5	60.6	59.4
23376	2009/04/01	19:46:01	60.4	58.1	60.3	58.4	61.7
23381	2009/04/01	19:46:16	59.7	67.1	63.6	58.6	56.8
23386	2009/04/01	19:46:31	56.9	58.2	56.3	58.6	58.3
23391	2009/04/01	19:46:46	60.5	59.6	60.1	59.7	60.9
23396	2009/04/01	19:47:01	60.9	60.2	61.2	61.7	72.1
23401	2009/04/01	19:47:16	61.2	59.7	58.0	58.1	58.5
23406	2009/04/01	19:47:31	59.3	59.0	59.3	58.4	58.9
23411	2009/04/01	19:47:46	56.9	58.3	59.0	60.4	62.0
23416	2009/04/01	19:48:01	60.0	60.8	60.3	59.5	60.1
23421	2009/04/01	19:48:16	58.1	59.6	61.7	60.8	59.8
23426	2009/04/01	19:48:31	58.1	58.3	58.9	56.9	58.5
23431	2009/04/01	19:48:46	58.6	58.7	58.2	59.7	57.9
23436	2009/04/01	19:49:01	59.2	70.1	63.7	59.2	57.4
23441	2009/04/01	19:49:16	58.1	57.7	59.4	58.1	58.0
23446	2009/04/01	19:49:31	58.9	60.0	60.2	60.4	58.9
23451	2009/04/01	19:49:46	58.0	59.3	58.1	59.5	58.3
23456	2009/04/01	19:50:01	58.5	60.5	59.7	62.3	59.9
23461	2009/04/01	19:50:16	60.5	60.4	59.8	58.8	57.9
23466	2009/04/01	19:50:31	58.0	58.7	59.2	60.1	62.3
23471	2009/04/01	19:50:46	61.4	60.9	60.9	59.3	58.3
23476	2009/04/01	19:51:01	58.4	63.1	66.4	60.1	60.9
23481	2009/04/01	19:51:16	64.3	69.6	63.5	63.9	63.3
23486	2009/04/01	19:51:31	62.8	64.2	60.1	62.9	64.4
23491	2009/04/01	19:51:46	60.7	63.8	62.1	61.8	65.3
23496	2009/04/01	19:52:01	64.4	62.9	60.4	59.5	62.4
23501	2009/04/01	19:52:16	68.3	63.5	63.5	64.5	62.6
23506	2009/04/01	19:52:31	64.2	62.2	66.9	65.4	69.2
23511	2009/04/01	19:52:46	64.8	64.4	63.7	64.2	62.8
23516	2009/04/01	19:53:01	62.1	59.5	60.4	59.9	60.4
23521	2009/04/01	19:53:16	59.9	60.8	59.7	58.0	60.1
23526	2009/04/01	19:53:31	58.6	59.0	62.2	62.1	62.4
23531	2009/04/01	19:53:46	60.0	59.5	59.9	60.6	61.7
23536	2009/04/01	19:54:01	62.2	62.5	62.1	64.3	72.9
23541	2009/04/01	19:54:16	64.4	63.6	60.6	61.1	60.4
23546	2009/04/01	19:54:31	60.9	62.4	64.3	61.8	62.3
23551	2009/04/01	19:54:46	64.0	64.6	61.4	62.6	60.4
23556	2009/04/01	19:55:01	60.5	59.4	61.3	61.3	62.0
23561	2009/04/01	19:55:16	62.0	59.8	63.5	70.6	63.9
23566	2009/04/01	19:55:31	62.4	62.0	60.5	59.9	57.7
23571	2009/04/01	19:55:46	58.5	59.5	60.6	61.0	61.1
23576	2009/04/01	19:56:01	61.1	60.2	60.4	60.4	62.1
23581	2009/04/01	19:56:16	60.6	61.3	68.4	65.9	62.5
23586	2009/04/01	19:56:31	60.7	62.7	62.3	60.8	61.1
23591	2009/04/01	19:56:46	60.8	60.8	64.1	64.4	59.0
23596	2009/04/01	19:57:01	60.3	61.8	57.9	60.8	60.5
23601	2009/04/01	19:57:16	58.6	60.5	60.5	59.5	58.7
23606	2009/04/01	19:57:31	59.6	64.8	63.8	62.2	60.7
23611	2009/04/01	19:57:46	59.5	59.2	59.6	58.9	60.4
23616	2009/04/01	19:58:01	60.3	61.9	61.1	62.7	61.3
23621	2009/04/01	19:58:16	61.8	61.2	62.1	62.3	60.4
23626	2009/04/01	19:58:31	60.9	60.4	61.2	60.0	61.2
23631	2009/04/01	19:58:46	60.9	62.0	60.5	61.7	59.8
23636	2009/04/01	19:59:01	60.4	61.0	60.6	59.2	59.6
23641	2009/04/01	19:59:16	59.4	58.6	58.8	62.7	66.2
23646	2009/04/01	19:59:31	60.7	63.3	64.2	65.9	64.5
23651	2009/04/01	19:59:46	61.9	63.0	62.3	60.3	60.6
23656	2009/04/01	20:00:01	58.0	59.3	59.3	60.0	60.6
23661	2009/04/01	20:00:16	61.1	57.4	61.8	60.0	58.8
23666	2009/04/01	20:00:31	61.9	60.7	60.8	60.0	59.5
23671	2009/04/01	20:00:46	69.2	61.1	69.5	64.0	60.5
23676	2009/04/01	20:01:01	58.8	60.7	59.4	61.9	60.7
23681	2009/04/01	20:01:16	61.6	61.9	69.3	64.8	62.2
23686	2009/04/01	20:01:31	62.0	60.9	63.0	60.5	58.8

23691	2009/04/01	20:01:46	60.1	59.8	59.7	60.5	59.8
23696	2009/04/01	20:02:01	61.7	58.9	59.1	59.9	59.0
23701	2009/04/01	20:02:16	59.9	60.7	63.8	62.4	62.2
23706	2009/04/01	20:02:31	61.0	60.7	60.3	60.0	59.7
23711	2009/04/01	20:02:46	59.6	58.5	61.0	57.9	58.4
23716	2009/04/01	20:03:01	59.0	60.4	59.6	60.4	61.0
23721	2009/04/01	20:03:16	59.0	56.9	57.3	57.5	61.0
23726	2009/04/01	20:03:31	62.0	60.3	62.3	63.7	67.3
23731	2009/04/01	20:03:46	61.0	61.9	61.7	61.7	70.7
23736	2009/04/01	20:04:01	64.5	61.3	59.0	62.4	60.8
23741	2009/04/01	20:04:16	59.5	60.4	60.0	59.9	58.6
23746	2009/04/01	20:04:31	59.5	60.3	60.1	59.6	60.6
23751	2009/04/01	20:04:46	60.2	61.6	60.3	60.1	60.1
23756	2009/04/01	20:05:01	61.1	58.9	60.0	59.0	60.9
23761	2009/04/01	20:05:16	60.4	62.6	60.6	63.2	59.8
23766	2009/04/01	20:05:31	60.6	58.9	59.9	58.1	60.8
23771	2009/04/01	20:05:46	61.2	59.5	57.3	57.4	57.4
23776	2009/04/01	20:06:01	58.8	59.8	58.3	60.7	58.0
23781	2009/04/01	20:06:16	58.8	58.7	60.5	60.7	65.4
23786	2009/04/01	20:06:31	60.9	61.1	62.2	62.5	62.7
23791	2009/04/01	20:06:46	61.4	61.1	61.0	59.0	56.0
23796	2009/04/01	20:07:01	57.4	55.7	56.3	56.6	56.8
23801	2009/04/01	20:07:16	60.2	62.2	66.6	62.1	61.0
23806	2009/04/01	20:07:31	61.3	61.9	60.8	61.3	59.9
23811	2009/04/01	20:07:46	64.8	71.0	63.8	59.4	58.3
23816	2009/04/01	20:08:01	61.7	58.4	60.1	59.1	64.3
23821	2009/04/01	20:08:16	66.6	62.3	62.4	59.3	60.2
23826	2009/04/01	20:08:31	60.8	58.0	58.4	57.0	58.8
23831	2009/04/01	20:08:46	59.7	60.7	61.8	60.7	61.0
23836	2009/04/01	20:09:01	61.9	60.1	61.0	64.1	62.0
23841	2009/04/01	20:09:16	62.2	62.0	62.5	60.7	61.4
23846	2009/04/01	20:09:31	58.6	62.8	65.1	61.1	59.5
23851	2009/04/01	20:09:46	66.4	65.0	61.4	60.2	59.6
23856	2009/04/01	20:10:01	60.7	61.9	64.4	62.6	67.2
23861	2009/04/01	20:10:16	64.4	70.2	64.4	62.1	62.5
23866	2009/04/01	20:10:31	61.4	61.1	62.4	73.3	62.1
23871	2009/04/01	20:10:46	60.5	59.5	62.3	63.2	62.5
23876	2009/04/01	20:11:01	63.9	61.8	61.9	64.4	63.8
23881	2009/04/01	20:11:16	63.8	62.8	65.0	63.1	64.0
23886	2009/04/01	20:11:31	63.5	61.8	60.5	62.5	61.2
23891	2009/04/01	20:11:46	61.2	58.9	64.6	60.1	61.1
23896	2009/04/01	20:12:01	61.2	63.9	64.1	63.8	64.1
23901	2009/04/01	20:12:16	64.8	65.9	65.6	70.2	63.9
23906	2009/04/01	20:12:31	62.4	63.6	65.3	67.5	63.8
23911	2009/04/01	20:12:46	65.6	64.1	62.7	65.1	60.4
23916	2009/04/01	20:13:01	59.9	59.4	60.3	59.6	60.8
23921	2009/04/01	20:13:16	60.5	60.8	61.9	61.9	64.2
23926	2009/04/01	20:13:31	65.3	60.2	59.9	59.7	59.8
23931	2009/04/01	20:13:46	60.7	67.1	63.9	62.5	62.2
23936	2009/04/01	20:14:01	62.2	62.4	61.5	62.2	62.9
23941	2009/04/01	20:14:16	62.6	66.0	63.4	64.3	64.7
23946	2009/04/01	20:14:31	59.6	59.1	61.0	60.6	62.4
23951	2009/04/01	20:14:46	67.4	71.6	64.0	63.8	64.2
23956	2009/04/01	20:15:01	60.4	61.1	62.8	65.2	67.1
23961	2009/04/01	20:15:16	64.5	64.3	64.5	64.1	61.0
23966	2009/04/01	20:15:31	62.1	62.2	68.7	62.2	60.7
23971	2009/04/01	20:15:46	60.0	71.3	65.7	59.3	59.0
23976	2009/04/01	20:16:01	60.3	59.4	61.3	62.7	62.5
23981	2009/04/01	20:16:16	63.2	63.4	62.7	63.0	61.7
23986	2009/04/01	20:16:31	62.2	61.9	63.1	62.0	62.0
23991	2009/04/01	20:16:46	61.2	61.6	61.2	61.6	61.5
23996	2009/04/01	20:17:01	60.8	61.4	63.0	61.9	60.8
24001	2009/04/01	20:17:16	61.2	60.3	62.7	61.8	62.2
24006	2009/04/01	20:17:31	63.0	63.0	63.1	63.5	63.2
24011	2009/04/01	20:17:46	62.5	62.8	60.7	63.1	61.1
24016	2009/04/01	20:18:01	61.8	62.3	63.3	62.7	62.8
24021	2009/04/01	20:18:16	59.2	61.5	61.0	61.4	61.2
24026	2009/04/01	20:18:31	62.2	61.4	64.5	62.6	64.1
24031	2009/04/01	20:18:46	64.2	63.4	63.1	64.2	62.6
24036	2009/04/01	20:19:01	63.8	65.2	67.0	62.3	62.3
24041	2009/04/01	20:19:16	62.3	63.0	68.9	64.8	63.9
24046	2009/04/01	20:19:31	62.0	59.5	60.6	62.6	69.1
24051	2009/04/01	20:19:46	62.2	62.6	61.5	62.4	59.9
24056	2009/04/01	20:20:01	60.4	60.6	61.9	61.2	61.0
24061	2009/04/01	20:20:16	60.4	61.7	63.1	64.5	63.1
24066	2009/04/01	20:20:31	63.0	66.9	67.2	70.3	64.7
24071	2009/04/01	20:20:46	64.4	65.9	65.5	63.3	65.6
24076	2009/04/01	20:21:01	63.7	62.5	62.6	63.3	62.8
24081	2009/04/01	20:21:16	62.2	62.6	66.0	63.5	61.3
24086	2009/04/01	20:21:31	60.4	65.1	65.5	63.5	64.2
24091	2009/04/01	20:21:46	69.2	64.9	61.8	62.7	57.5
24096	2009/04/01	20:22:01	60.2	60.1	60.7	60.5	59.8
24101	2009/04/01	20:22:16	60.6	60.0	59.7	63.4	62.5
24106	2009/04/01	20:22:31	60.9	63.6	67.0	60.5	61.5
24111	2009/04/01	20:22:46	59.7	61.0	63.0	62.5	61.8
24116	2009/04/01	20:23:01	63.8	62.7	61.3	62.9	64.2
24121	2009/04/01	20:23:16	65.7	64.6	62.7	62.9	63.6
24126	2009/04/01	20:23:31	64.7	62.1	61.5	62.5	59.9
24131	2009/04/01	20:23:46	62.7	60.9	60.6	60.9	59.5
24136	2009/04/01	20:24:01	60.2	60.0	63.5	65.3	62.7
24141	2009/04/01	20:24:16	63.4	60.8	62.4	61.7	64.8
24146	2009/04/01	20:24:31	62.6	63.4	67.6	63.6	64.7
24151	2009/04/01	20:24:46	63.7	66.2	63.2	63.5	63.2
24156	2009/04/01	20:25:01	65.0	61.2	61.3	61.7	62.9
24161	2009/04/01	20:25:16	62.4	66.2	59.2	60.2	61.2
24166	2009/04/01	20:25:31	59.0	60.7	61.5	68.0	67.0
24171	2009/04/01	20:25:46	64.5	63.0	63.6	63.4	62.9
24176	2009/04/01	20:26:01	61.8	63.9	62.3	63.4	62.6
24181	2009/04/01	20:26:16	63.1	64.2	64.6	63.8	64.0

24186	2009/04/01	20:26:31	62.8	62.3	61.3	60.1	62.8
24191	2009/04/01	20:26:46	60.7	60.2	61.8	62.0	63.1
24196	2009/04/01	20:27:01	69.6	63.2	62.0	59.6	61.9
24201	2009/04/01	20:27:16	61.2	61.5	62.2	62.6	61.9
24206	2009/04/01	20:27:31	61.5	62.1	63.0	62.1	59.9
24211	2009/04/01	20:27:46	61.4	60.7	63.6	64.6	63.2
24216	2009/04/01	20:28:01	62.2	62.7	61.4	63.5	62.9
24221	2009/04/01	20:28:16	63.3	63.5	63.3	68.9	64.9
24226	2009/04/01	20:28:31	63.5	61.3	63.4	61.5	63.5
24231	2009/04/01	20:28:46	70.8	64.9	60.9	61.1	60.2
24236	2009/04/01	20:29:01	61.8	60.9	63.2	63.2	70.3
24241	2009/04/01	20:29:16	65.4	63.4	69.9	63.2	61.0
24246	2009/04/01	20:29:31	60.9	63.3	60.5	62.3	61.4
24251	2009/04/01	20:29:46	62.2	61.7	62.3	60.6	61.6
24256	2009/04/01	20:30:01	60.6	61.9	61.4	61.8	62.4
24261	2009/04/01	20:30:16	61.5	62.3	62.6	60.5	60.8
24266	2009/04/01	20:30:31	60.3	59.3	62.0	65.1	61.3
24271	2009/04/01	20:30:46	61.0	60.9	62.9	61.4	61.6
24276	2009/04/01	20:31:01	61.9	61.2	62.0	61.3	69.1
24281	2009/04/01	20:31:16	67.0	64.3	61.2	62.6	63.4
24286	2009/04/01	20:31:31	67.0	60.2	62.7	62.0	61.3
24291	2009/04/01	20:31:46	62.7	68.0	61.6	59.8	60.7
24296	2009/04/01	20:32:01	61.5	59.2	60.5	61.2	59.8
24301	2009/04/01	20:32:16	58.8	57.7	58.4	57.6	59.5
24306	2009/04/01	20:32:31	57.8	58.6	59.4	65.2	63.1
24311	2009/04/01	20:32:46	60.0	62.6	60.2	59.0	60.2
24316	2009/04/01	20:33:01	58.7	60.2	60.4	59.5	61.7
24321	2009/04/01	20:33:16	60.4	58.8	58.5	60.1	61.0
24326	2009/04/01	20:33:31	57.8	60.3	60.9	61.4	63.0
24331	2009/04/01	20:33:46	61.9	60.7	63.3	61.8	64.9
24336	2009/04/01	20:34:01	79.8	67.4	62.3	60.3	64.9
24341	2009/04/01	20:34:16	71.2	64.1	64.0	65.4	65.2
24346	2009/04/01	20:34:31	63.8	64.6	61.4	58.6	60.4
24351	2009/04/01	20:34:46	65.0	61.6	62.9	60.7	61.7
24356	2009/04/01	20:35:01	64.1	62.3	64.5	63.6	63.1
24361	2009/04/01	20:35:16	64.5	66.6	69.5	68.2	64.9
24366	2009/04/01	20:35:31	62.6	61.4	62.3	59.4	61.1
24371	2009/04/01	20:35:46	62.4	60.9	61.6	61.2	61.5
24376	2009/04/01	20:36:01	59.6	59.1	61.8	61.7	62.1
24381	2009/04/01	20:36:16	61.4	60.6	60.4	61.1	61.2
24386	2009/04/01	20:36:31	63.1	62.0	62.5	63.3	62.0
24391	2009/04/01	20:36:46	61.4	61.9	62.9	60.5	60.5
24396	2009/04/01	20:37:01	61.3	59.8	59.8	62.1	60.7
24401	2009/04/01	20:37:16	61.2	58.6	61.3	63.5	61.9
24406	2009/04/01	20:37:31	59.8	59.8	60.3	58.5	59.1
24411	2009/04/01	20:37:46	59.8	59.6	60.8	62.1	65.3
24416	2009/04/01	20:38:01	65.5	60.1	60.3	61.9	59.4
24421	2009/04/01	20:38:16	61.6	62.0	60.3	61.2	61.7
24426	2009/04/01	20:38:31	61.9	61.8	71.0	63.0	62.3
24431	2009/04/01	20:38:46	63.1	62.2	59.8	60.6	61.3
24436	2009/04/01	20:39:01	59.7	59.4	60.1	61.1	62.3
24441	2009/04/01	20:39:16	60.9	60.7	61.3	59.7	59.6
24446	2009/04/01	20:39:31	60.0	58.5	62.2	59.9	60.4
24451	2009/04/01	20:39:46	60.6	60.7	61.2	61.4	61.5
24456	2009/04/01	20:40:01	62.1	61.1	64.6	63.7	62.0
24461	2009/04/01	20:40:16	61.1	60.3	59.0	62.7	69.6
24466	2009/04/01	20:40:31	69.5	66.6	69.7	63.9	61.8
24471	2009/04/01	20:40:46	60.7	61.8	61.2	61.6	61.5
24476	2009/04/01	20:41:01	59.4	60.3	59.5	61.7	60.8
24481	2009/04/01	20:41:16	61.9	62.4	61.8	61.6	61.8
24486	2009/04/01	20:41:31	58.9	60.8	61.6	68.9	61.6
24491	2009/04/01	20:41:46	60.5	59.3	60.5	61.0	61.1
24496	2009/04/01	20:42:01	60.1	61.4	62.2	64.6	60.6
24501	2009/04/01	20:42:16	59.9	59.7	60.5	60.3	62.2
24506	2009/04/01	20:42:31	61.0	61.4	63.0	59.7	61.4
24511	2009/04/01	20:42:46	69.6	62.1	61.8	61.9	60.4
24516	2009/04/01	20:43:01	61.8	60.6	62.5	60.1	65.4
24521	2009/04/01	20:43:16	65.8	61.6	64.3	62.1	62.6
24526	2009/04/01	20:43:31	61.1	61.9	61.8	63.0	62.8
24531	2009/04/01	20:43:46	63.1	61.8	63.3	60.3	58.8
24536	2009/04/01	20:44:01	69.8	61.8	58.9	59.1	59.5
24541	2009/04/01	20:44:16	64.0	66.7	60.7	61.7	59.8
24546	2009/04/01	20:44:31	61.2	63.8	67.5	61.5	61.3
24551	2009/04/01	20:44:46	61.7	61.5	67.4	61.5	62.5
24556	2009/04/01	20:45:01	62.5	64.7	62.7	65.0	61.4
24561	2009/04/01	20:45:16	63.7	65.6	72.4	63.8	62.4
24566	2009/04/01	20:45:31	59.5	59.3	59.7	59.7	62.2
24571	2009/04/01	20:45:46	60.6	62.4	63.9	62.8	61.8
24576	2009/04/01	20:46:01	62.2	60.5	61.1	61.4	62.4
24581	2009/04/01	20:46:16	60.4	62.0	61.5	63.5	61.8
24586	2009/04/01	20:46:31	64.7	63.4	69.4	64.2	61.3
24591	2009/04/01	20:46:46	62.6	62.7	62.4	61.4	60.1
24596	2009/04/01	20:47:01	60.2	59.3	60.3	61.2	64.1
24601	2009/04/01	20:47:16	62.6	59.9	60.5	60.3	61.3
24606	2009/04/01	20:47:31	62.1	62.1	60.2	62.1	61.4
24611	2009/04/01	20:47:46	60.2	60.6	60.9	60.8	57.9
24616	2009/04/01	20:48:01	58.9	61.5	58.8	58.6	59.9
24621	2009/04/01	20:48:16	66.2	72.1	81.8	67.5	67.8
24626	2009/04/01	20:48:31	69.0	63.7	63.5	61.6	63.1
24631	2009/04/01	20:48:46	60.1	62.5	59.9	60.0	61.1
24636	2009/04/01	20:49:01	67.1	63.6	63.1	61.9	64.8
24641	2009/04/01	20:49:16	72.5	70.0	64.5	69.0	69.8
24646	2009/04/01	20:49:31	63.6	68.6	65.0	64.4	63.7
24651	2009/04/01	20:49:46	68.2	63.7	61.4	59.1	59.6
24656	2009/04/01	20:50:01	60.8	64.6	71.5	62.1	63.2
24661	2009/04/01	20:50:16	63.7	60.4	57.3	58.8	58.7
24666	2009/04/01	20:50:31	63.5	71.0	72.3	68.8	65.8
24671	2009/04/01	20:50:46	65.7	71.5	65.5	60.0	60.7
24676	2009/04/01	20:51:01	60.0	60.1	58.6	59.6	60.0

24681	2009/04/01	20:51:16	59.4	60.8	63.4	69.0	63.3
24686	2009/04/01	20:51:31	66.0	64.7	60.3	61.4	60.3
24691	2009/04/01	20:51:46	59.5	61.0	60.0	60.5	60.3
24696	2009/04/01	20:52:01	61.7	66.8	64.4	60.6	61.0
24701	2009/04/01	20:52:16	60.5	62.6	62.0	68.9	65.8
24706	2009/04/01	20:52:31	63.6	62.3	61.6	61.0	60.7
24711	2009/04/01	20:52:46	61.5	61.2	62.2	63.0	65.3
24716	2009/04/01	20:53:01	73.1	65.2	61.5	62.3	64.4
24721	2009/04/01	20:53:16	74.2	64.5	61.8	61.4	60.0
24726	2009/04/01	20:53:31	60.5	60.0	61.5	61.2	63.1
24731	2009/04/01	20:53:46	62.7	60.0	62.9	62.7	68.2
24736	2009/04/01	20:54:01	61.6	60.8	64.1	62.2	60.0
24741	2009/04/01	20:54:16	61.8	60.7	61.8	61.7	63.1
24746	2009/04/01	20:54:31	62.9	64.5	67.3	64.2	61.5
24751	2009/04/01	20:54:46	60.6	60.7	60.8	59.7	60.8
24756	2009/04/01	20:55:01	62.0	61.9	61.8	62.1	65.4
24761	2009/04/01	20:55:16	69.7	66.0	63.4	63.1	65.9
24766	2009/04/01	20:55:31	69.0	62.1	70.5	63.0	64.2
24771	2009/04/01	20:55:46	63.2	70.5	64.5	62.5	65.9
24776	2009/04/01	20:56:01	64.7	62.9	61.9	61.4	62.5
24781	2009/04/01	20:56:16	62.6	63.0	62.7	63.2	63.0
24786	2009/04/01	20:56:31	63.1	62.2	63.4	62.6	67.5
24791	2009/04/01	20:56:46	68.0	64.3	73.5	63.3	63.3
24796	2009/04/01	20:57:01	63.5	64.4	63.4	62.7	66.2
24801	2009/04/01	20:57:16	61.6	60.9	63.8	67.8	61.7
24806	2009/04/01	20:57:31	63.0	70.4	63.2	66.3	67.2
24811	2009/04/01	20:57:46	63.9	62.4	64.7	65.2	69.2
24816	2009/04/01	20:58:01	63.9	62.3	69.8	64.1	63.5
24821	2009/04/01	20:58:16	63.6	62.2	62.4	63.5	61.6
24826	2009/04/01	20:58:31	61.7	60.9	62.2	69.6	65.8
24831	2009/04/01	20:58:46	64.6	63.6	63.1	63.2	62.3
24836	2009/04/01	20:59:01	63.0	63.6	61.2	63.4	59.8
24841	2009/04/01	20:59:16	61.4	60.5	61.5	60.9	61.9
24846	2009/04/01	20:59:31	64.9	68.4	62.0	65.0	62.2
24851	2009/04/01	20:59:46	64.8	64.3	63.6	64.7	65.5
24856	2009/04/01	21:00:01	63.7	62.7	64.7	64.6	62.6
24861	2009/04/01	21:00:16	61.5	64.9	64.2	67.7	63.4
24866	2009/04/01	21:00:31	60.9	61.7	60.8	68.1	62.2
24871	2009/04/01	21:00:46	63.6	63.5	64.4	66.6	63.4
24876	2009/04/01	21:01:01	63.5	63.5	65.0	65.1	63.5
24881	2009/04/01	21:01:16	62.3	67.2	71.8	67.5	67.5
24886	2009/04/01	21:01:31	66.6	64.3	61.7	64.3	61.8
24891	2009/04/01	21:01:46	63.1	62.0	62.9	62.1	62.2
24896	2009/04/01	21:02:01	63.5	65.4	67.8	69.2	63.0
24901	2009/04/01	21:02:16	66.8	64.8	64.5	67.0	63.2
24906	2009/04/01	21:02:31	60.4	63.5	64.9	62.3	62.6
24911	2009/04/01	21:02:46	63.9	63.1	64.0	64.1	63.3
24916	2009/04/01	21:03:01	63.9	64.2	65.1	65.2	62.6
24921	2009/04/01	21:03:16	63.3	63.1	64.8	64.7	63.6
24926	2009/04/01	21:03:31	63.5	63.0	63.3	65.2	65.6
24931	2009/04/01	21:03:46	64.3	66.5	62.7	62.5	60.9
24936	2009/04/01	21:04:01	62.2	61.8	62.2	63.9	64.0
24941	2009/04/01	21:04:16	63.7	65.3	63.8	70.4	67.6
24946	2009/04/01	21:04:31	64.1	68.7	64.1	64.1	63.7
24951	2009/04/01	21:04:46	63.3	62.7	64.8	63.2	63.7
24956	2009/04/01	21:05:01	62.5	63.4	64.7	62.4	69.7
24961	2009/04/01	21:05:16	63.7	62.1	63.5	67.7	66.8
24966	2009/04/01	21:05:31	66.9	65.1	64.6	64.7	67.0
24971	2009/04/01	21:05:46	66.0	64.1	64.7	63.4	62.4
24976	2009/04/01	21:06:01	63.0	64.6	71.8	65.0	64.0
24981	2009/04/01	21:06:16	63.6	64.0	63.4	63.5	64.5
24986	2009/04/01	21:06:31	63.4	67.0	64.7	62.4	69.5
24991	2009/04/01	21:06:46	64.1	61.4	62.7	63.3	64.5
24996	2009/04/01	21:07:01	65.7	63.5	65.8	64.7	68.3
25001	2009/04/01	21:07:16	63.8	63.7	64.8	63.9	63.9
25006	2009/04/01	21:07:31	63.7	62.3	62.5	64.2	67.8
25011	2009/04/01	21:07:46	67.1	67.1	64.2	62.6	62.5
25016	2009/04/01	21:08:01	71.6	64.4	61.5	61.7	64.6
25021	2009/04/01	21:08:16	69.4	65.1	62.6	63.0	63.1
25026	2009/04/01	21:08:31	65.2	62.0	63.2	63.2	62.4
25031	2009/04/01	21:08:46	62.5	61.7	64.5	63.1	63.0
25036	2009/04/01	21:09:01	64.3	62.6	63.8	65.7	70.3
25041	2009/04/01	21:09:16	66.8	78.0	67.1	64.4	63.8
25046	2009/04/01	21:09:31	66.4	63.9	62.5	63.5	67.8
25051	2009/04/01	21:09:46	66.5	66.0	69.6	69.7	63.7
25056	2009/04/01	21:10:01	64.7	67.6	62.6	62.2	62.0
25061	2009/04/01	21:10:16	61.0	61.6	62.2	61.7	70.7
25066	2009/04/01	21:10:31	65.2	69.3	62.5	61.5	62.4
25071	2009/04/01	21:10:46	65.3	66.7	62.4	62.4	64.2
25076	2009/04/01	21:11:01	70.2	66.8	63.3	60.9	61.3
25081	2009/04/01	21:11:16	64.6	72.6	66.1	64.8	64.8
25086	2009/04/01	21:11:31	67.7	62.1	62.7	64.4	62.5
25091	2009/04/01	21:11:46	64.0	62.8	63.6	63.0	61.7
25096	2009/04/01	21:12:01	61.0	65.3	71.2	69.3	72.4
25101	2009/04/01	21:12:16	70.1	67.1	73.8	64.7	64.4
25106	2009/04/01	21:12:31	62.7	60.9	61.6	62.1	62.8
25111	2009/04/01	21:12:46	62.1	63.0	67.1	71.1	66.8
25116	2009/04/01	21:13:01	65.1	66.3	64.2	67.4	74.3
25121	2009/04/01	21:13:16	70.4	66.9	70.8	67.2	69.2
25126	2009/04/01	21:13:31	65.5	69.1	66.1	66.2	72.7
25131	2009/04/01	21:13:46	62.5	61.5	62.1	61.8	67.1
25136	2009/04/01	21:14:01	65.2	62.3	62.6	65.2	69.3
25141	2009/04/01	21:14:16	64.9	69.7	63.0	60.4	62.5
25146	2009/04/01	21:14:31	65.6	61.1	59.9	61.6	60.3
25151	2009/04/01	21:14:46	60.7	61.1	61.1	62.3	60.8
25156	2009/04/01	21:15:01	62.4	62.8	64.7	67.9	71.7
25161	2009/04/01	21:15:16	70.8	68.4	67.1	66.0	65.2
25166	2009/04/01	21:15:31	61.9	62.4	66.0	67.8	69.0
25171	2009/04/01	21:15:46	67.0	72.4	66.2	71.7	82.3

25176	2009/04/01	21:16:01	68.6	65.2	62.3	63.8	64.4
25181	2009/04/01	21:16:16	68.1	64.9	66.6	65.7	68.1
25186	2009/04/01	21:16:31	61.8	62.4	61.7	61.1	62.8
25191	2009/04/01	21:16:46	62.1	61.2	61.5	60.5	60.6
25196	2009/04/01	21:17:01	61.6	62.5	62.5	66.4	65.6
25201	2009/04/01	21:17:16	66.2	71.2	64.8	64.2	62.0
25206	2009/04/01	21:17:31	62.3	62.0	62.2	63.2	64.2
25211	2009/04/01	21:17:46	65.0	63.5	61.0	64.4	71.2
25216	2009/04/01	21:18:01	68.9	69.3	60.5	65.2	66.0
25221	2009/04/01	21:18:16	62.0	62.2	60.4	62.8	62.3
25226	2009/04/01	21:18:31	63.3	65.8	67.0	64.8	62.1
25231	2009/04/01	21:18:46	64.7	64.2	63.4	61.0	61.6
25236	2009/04/01	21:19:01	65.2	72.1	69.8	72.1	67.4
25241	2009/04/01	21:19:16	63.0	68.3	65.9	62.8	62.0
25246	2009/04/01	21:19:31	61.3	61.9	61.9	63.3	64.0
25251	2009/04/01	21:19:46	63.7	67.4	65.8	63.3	69.1
25256	2009/04/01	21:20:01	69.8	69.5	63.0	69.0	65.7
25261	2009/04/01	21:20:16	62.6	62.7	73.5	64.2	62.0
25266	2009/04/01	21:20:31	63.9	64.7	62.7	67.9	63.2
25271	2009/04/01	21:20:46	64.7	65.4	66.7	65.8	64.8
25276	2009/04/01	21:21:01	71.2	68.0	73.1	71.9	74.9
25281	2009/04/01	21:21:16	71.5	63.3	66.1	62.6	62.6
25286	2009/04/01	21:21:31	62.0	62.4	63.0	63.8	61.8
25291	2009/04/01	21:21:46	61.5	61.4	62.2	61.6	62.5
25296	2009/04/01	21:22:01	61.6	63.1	70.8	65.5	63.5
25301	2009/04/01	21:22:16	61.9	63.8	67.7	75.5	73.5
25306	2009/04/01	21:22:31	70.9	64.7	63.4	62.0	62.4
25311	2009/04/01	21:22:46	62.9	61.2	60.6	61.5	62.3
25316	2009/04/01	21:23:01	63.4	65.5	69.4	66.3	67.6
25321	2009/04/01	21:23:16	65.3	63.4	68.0	61.8	60.0
25326	2009/04/01	21:23:31	59.5	59.7	62.9	71.4	65.8
25331	2009/04/01	21:23:46	63.3	62.3	63.2	62.3	62.7
25336	2009/04/01	21:24:01	62.4	66.0	69.8	65.0	62.7
25341	2009/04/01	21:24:16	65.9	64.2	64.4	63.9	63.8
25346	2009/04/01	21:24:31	64.1	70.0	64.8	63.7	67.0
25351	2009/04/01	21:24:46	64.4	63.2	62.4	64.8	64.3
25356	2009/04/01	21:25:01	71.0	68.7	67.6	62.9	63.4
25361	2009/04/01	21:25:16	61.9	61.6	62.1	62.6	69.4
25366	2009/04/01	21:25:31	70.3	65.2	64.1	63.0	63.4
25371	2009/04/01	21:25:46	62.4	62.8	62.8	71.3	63.6
25376	2009/04/01	21:26:01	63.4	61.8	63.0	62.9	66.3
25381	2009/04/01	21:26:16	67.4	68.0	64.0	62.9	68.3
25386	2009/04/01	21:26:31	67.6	63.3	66.3	66.9	64.1
25391	2009/04/01	21:26:46	65.1	64.4	64.0	64.7	66.4
25396	2009/04/01	21:27:01	65.1	62.2	63.4	64.8	63.6
25401	2009/04/01	21:27:16	65.0	69.2	66.7	66.0	64.3
25406	2009/04/01	21:27:31	66.6	67.1	65.0	63.6	63.0
25411	2009/04/01	21:27:46	63.5	70.1	66.2	65.5	63.7
25416	2009/04/01	21:28:01	64.7	66.1	63.7	64.8	63.0
25421	2009/04/01	21:28:16	62.7	62.6	66.2	68.9	64.8
25426	2009/04/01	21:28:31	64.8	61.9	65.2	72.4	69.6
25431	2009/04/01	21:28:46	64.7	63.7	61.6	62.3	61.7
25436	2009/04/01	21:29:01	63.1	65.7	71.2	66.4	64.6
25441	2009/04/01	21:29:16	64.4	64.0	64.3	65.8	67.3
25446	2009/04/01	21:29:31	65.5	64.2	63.8	69.2	62.6
25451	2009/04/01	21:29:46	63.9	65.1	61.4	63.4	63.5
25456	2009/04/01	21:30:01	64.6	62.9	65.5	62.6	62.4
25461	2009/04/01	21:30:16	64.6	71.7	65.1	62.5	63.7
25466	2009/04/01	21:30:31	63.5	64.9	65.3	63.3	63.5
25471	2009/04/01	21:30:46	64.7	75.2	68.0	67.3	66.2
25476	2009/04/01	21:31:01	65.3	63.9	62.5	62.9	61.9
25481	2009/04/01	21:31:16	62.9	61.1	62.8	71.3	64.8
25486	2009/04/01	21:31:31	61.3	62.1	64.3	74.7	69.9
25491	2009/04/01	21:31:46	63.2	62.6	61.6	61.6	60.4
25496	2009/04/01	21:32:01	61.3	62.0	62.7	63.2	63.8
25501	2009/04/01	21:32:16	62.4	62.9	63.8	61.1	60.6
25506	2009/04/01	21:32:31	59.6	60.9	62.5	61.5	62.2
25511	2009/04/01	21:32:46	67.2	68.1	64.0	62.6	63.4
25516	2009/04/01	21:33:01	64.7	67.0	62.3	62.7	64.3
25521	2009/04/01	21:33:16	70.3	69.1	66.5	69.7	69.9
25526	2009/04/01	21:33:31	68.9	64.4	64.0	63.4	66.9
25531	2009/04/01	21:33:46	71.8	72.0	76.2	73.7	76.2
25536	2009/04/01	21:34:01	79.0	76.9	75.6	72.9	70.2
25541	2009/04/01	21:34:16	66.9	67.2	65.7	70.5	65.7
25546	2009/04/01	21:34:31	62.7	63.1	62.6	62.7	63.1
25551	2009/04/01	21:34:46	62.6	62.9	62.4	62.9	69.1
25556	2009/04/01	21:35:01	69.4	68.9	70.5	65.1	62.7
25561	2009/04/01	21:35:16	64.4	65.7	62.5	66.8	65.4
25566	2009/04/01	21:35:31	64.0	65.3	66.1	67.2	63.4
25571	2009/04/01	21:35:46	62.6	64.4	64.3	64.5	64.4
25576	2009/04/01	21:36:01	65.7	68.4	63.5	62.5	63.1
25581	2009/04/01	21:36:16	63.3	66.0	63.1	65.6	63.2
25586	2009/04/01	21:36:31	65.9	68.7	63.3	64.9	64.5
25591	2009/04/01	21:36:46	64.5	64.0	64.6	65.1	73.2
25596	2009/04/01	21:37:01	65.1	66.6	67.1	64.0	68.4
25601	2009/04/01	21:37:16	73.9	72.9	72.3	65.7	66.0
25606	2009/04/01	21:37:31	66.5	63.9	66.3	65.3	66.0
25611	2009/04/01	21:37:46	66.1	79.2	73.4	72.5	71.7
25616	2009/04/01	21:38:01	67.2	70.3	66.5	64.0	63.6
25621	2009/04/01	21:38:16	74.7	67.2	62.9	64.1	63.6
25626	2009/04/01	21:38:31	62.8	64.3	63.7	64.7	69.2
25631	2009/04/01	21:38:46	69.9	72.6	67.7	65.1	64.5
25636	2009/04/01	21:39:01	65.8	67.7	69.7	71.1	70.5
25641	2009/04/01	21:39:16	67.6	67.1	64.4	68.5	70.9
25646	2009/04/01	21:39:31	69.9	67.3	65.2	67.7	66.1
25651	2009/04/01	21:39:46	65.5	70.8	71.9	72.1	70.6
25656	2009/04/01	21:40:01	68.9	68.6	68.9	66.9	66.3
25661	2009/04/01	21:40:16	66.9	66.9	68.6	68.7	66.5
25666	2009/04/01	21:40:31	63.4	63.5	62.2	62.7	62.2

25671	2009/04/01	21:40:46	65.0	64.1	63.7	63.0	63.6
25676	2009/04/01	21:41:01	63.0	63.5	63.4	68.6	67.6
25681	2009/04/01	21:41:16	62.3	63.8	65.8	71.3	74.3
25686	2009/04/01	21:41:31	79.6	75.7	71.2	69.5	71.1
25691	2009/04/01	21:41:46	69.7	67.7	65.7	64.8	65.9
25696	2009/04/01	21:42:01	64.3	63.1	63.8	66.7	67.2
25701	2009/04/01	21:42:16	64.1	62.8	62.7	63.8	62.9
25706	2009/04/01	21:42:31	63.6	62.7	62.5	62.5	61.7
25711	2009/04/01	21:42:46	63.1	64.7	65.9	67.3	63.8
25716	2009/04/01	21:43:01	65.1	64.0	62.9	61.7	63.2
25721	2009/04/01	21:43:16	70.4	71.4	67.2	68.9	66.2
25726	2009/04/01	21:43:31	63.7	63.4	70.8	64.7	64.3
25731	2009/04/01	21:43:46	63.9	64.8	68.6	63.9	66.7
25736	2009/04/01	21:44:01	65.0	62.5	63.6	63.4	62.8
25741	2009/04/01	21:44:16	63.0	63.8	63.9	65.0	62.8
25746	2009/04/01	21:44:31	63.1	63.1	63.1	62.5	61.4
25751	2009/04/01	21:44:46	62.1	63.2	63.3	62.3	64.1
25756	2009/04/01	21:45:01	68.1	65.3	62.8	63.1	63.8
25761	2009/04/01	21:45:16	69.1	69.4	64.8	63.9	67.0
25766	2009/04/01	21:45:31	64.4	64.6	66.0	63.6	64.3
25771	2009/04/01	21:45:46	66.7	70.4	68.9	63.9	64.1
25776	2009/04/01	21:46:01	71.9	63.8	62.4	61.8	63.2
25781	2009/04/01	21:46:16	62.2	65.6	62.5	61.2	64.2
25786	2009/04/01	21:46:31	64.1	65.3	65.7	63.8	62.4
25791	2009/04/01	21:46:46	64.3	69.3	65.3	66.1	64.3
25796	2009/04/01	21:47:01	64.9	65.1	67.5	65.4	67.4
25801	2009/04/01	21:47:16	69.1	69.8	69.3	79.2	70.8
25806	2009/04/01	21:47:31	66.5	65.2	64.5	63.0	67.2
25811	2009/04/01	21:47:46	63.3	65.8	73.8	70.2	67.4
25816	2009/04/01	21:48:01	65.6	66.5	64.7	65.9	63.3
25821	2009/04/01	21:48:16	69.4	71.8	75.9	77.1	83.7
25826	2009/04/01	21:48:31	68.1	64.7	63.4	71.8	65.5
25831	2009/04/01	21:48:46	70.4	63.9	64.7	63.5	63.1
25836	2009/04/01	21:49:01	62.0	66.7	64.9	66.5	63.1
25841	2009/04/01	21:49:16	63.1	63.7	66.0	67.3	69.7
25846	2009/04/01	21:49:31	69.9	69.0	67.3	65.1	66.2
25851	2009/04/01	21:49:46	71.3	66.5	65.1	62.7	62.9
25856	2009/04/01	21:50:01	64.4	62.7	64.4	62.6	65.4
25861	2009/04/01	21:50:16	67.9	69.2	64.1	65.5	65.3
25866	2009/04/01	21:50:31	67.3	64.0	63.7	64.3	63.6
25871	2009/04/01	21:50:46	63.3	63.4	63.4	64.2	64.0
25876	2009/04/01	21:51:01	64.6	68.3	65.2	64.0	65.8
25881	2009/04/01	21:51:16	64.8	70.2	65.2	68.1	68.8
25886	2009/04/01	21:51:31	67.3	65.8	64.1	63.2	65.4
25891	2009/04/01	21:51:46	70.0	77.7	70.0	70.1	71.3
25896	2009/04/01	21:52:01	72.2	66.5	63.9	65.0	64.5
25901	2009/04/01	21:52:16	63.8	62.6	66.1	63.4	64.7
25906	2009/04/01	21:52:31	65.0	68.1	66.3	64.3	64.6
25911	2009/04/01	21:52:46	64.9	68.4	65.9	64.5	64.9
25916	2009/04/01	21:53:01	64.4	64.5	65.2	68.0	68.1
25921	2009/04/01	21:53:16	70.9	75.8	70.0	66.6	65.5
25926	2009/04/01	21:53:31	64.9	66.2	64.8	67.1	73.7
25931	2009/04/01	21:53:46	81.7	78.7	73.3	68.4	67.4
25936	2009/04/01	21:54:01	69.9	65.3	62.7	63.3	65.7
25941	2009/04/01	21:54:16	67.5	66.7	65.6	65.4	64.6
25946	2009/04/01	21:54:31	65.2	66.7	64.0	64.7	65.0
25951	2009/04/01	21:54:46	69.5	65.4	68.4	65.9	66.6
25956	2009/04/01	21:55:01	65.8	66.7	69.2	64.5	63.3
25961	2009/04/01	21:55:16	65.8	66.1	71.1	67.8	68.1
25966	2009/04/01	21:55:31	67.4	65.2	64.8	64.8	66.3
25971	2009/04/01	21:55:46	75.7	65.2	65.7	67.4	69.1
25976	2009/04/01	21:56:01	66.1	66.8	64.7	62.2	64.2
25981	2009/04/01	21:56:16	63.2	64.2	63.5	64.8	64.9
25986	2009/04/01	21:56:31	64.5	64.1	67.4	65.0	66.4
25991	2009/04/01	21:56:46	64.2	66.4	66.4	63.6	65.5
25996	2009/04/01	21:57:01	68.4	69.2	69.6	68.0	66.0
26001	2009/04/01	21:57:16	64.5	63.7	64.7	65.2	65.3
26006	2009/04/01	21:57:31	64.9	65.9	64.2	64.3	63.9
26011	2009/04/01	21:57:46	66.2	66.9	64.3	63.7	69.4
26016	2009/04/01	21:58:01	64.1	65.8	72.6	69.9	69.7
26021	2009/04/01	21:58:16	64.4	66.5	65.4	63.7	62.7
26026	2009/04/01	21:58:31	62.5	68.8	64.1	64.7	63.5
26031	2009/04/01	21:58:46	64.7	65.1	63.9	65.4	66.1
26036	2009/04/01	21:59:01	65.7	67.1	65.1	63.4	65.0
26041	2009/04/01	21:59:16	63.8	67.8	75.0	70.6	67.6
26046	2009/04/01	21:59:31	68.4	70.2	66.7	68.0	63.8
26051	2009/04/01	21:59:46	63.9	64.4	68.8	68.6	69.8
26056	2009/04/01	22:00:01	64.1	64.9	68.1	69.3	64.8
26061	2009/04/01	22:00:16	63.6	63.1	63.3	64.0	63.6
26066	2009/04/01	22:00:31	67.9	66.1	63.8	63.3	64.4
26071	2009/04/01	22:00:46	63.6	69.4	62.5	63.8	69.5
26076	2009/04/01	22:01:01	70.4	70.2	69.1	67.5	64.6
26081	2009/04/01	22:01:16	63.4	63.7	69.3	65.9	64.1
26086	2009/04/01	22:01:31	64.3	63.8	63.5	63.3	61.9
26091	2009/04/01	22:01:46	65.3	68.7	68.7	66.7	64.4
26096	2009/04/01	22:02:01	65.1	63.6	64.2	62.0	63.3
26101	2009/04/01	22:02:16	62.9	63.0	64.6	66.6	64.3
26106	2009/04/01	22:02:31	65.2	65.7	64.2	63.8	68.1
26111	2009/04/01	22:02:46	71.3	69.9	67.2	66.1	67.9
26116	2009/04/01	22:03:01	69.4	67.4	67.5	66.0	64.2
26121	2009/04/01	22:03:16	64.8	64.9	66.4	67.0	66.0
26126	2009/04/01	22:03:31	65.8	63.0	62.3	62.2	63.4
26131	2009/04/01	22:03:46	64.1	62.8	62.6	67.8	72.1
26136	2009/04/01	22:04:01	74.9	69.7	70.5	70.5	67.2
26141	2009/04/01	22:04:16	65.3	66.8	65.3	70.4	67.3
26146	2009/04/01	22:04:31	67.8	68.9	64.4	82.3	67.6
26151	2009/04/01	22:04:46	65.1	72.4	68.3	66.1	66.6
26156	2009/04/01	22:05:01	67.2	66.0	64.3	64.2	64.8
26161	2009/04/01	22:05:16	75.8	69.0	70.6	71.6	69.0

26166	2009/04/01	22:05:31	66.5	65.8	66.5	66.0	64.7
26171	2009/04/01	22:05:46	63.2	63.4	62.6	62.8	63.5
26176	2009/04/01	22:06:01	65.7	73.8	68.4	67.3	66.4
26181	2009/04/01	22:06:16	65.3	65.0	72.6	66.4	69.0
26186	2009/04/01	22:06:31	68.2	63.5	62.3	62.7	63.3
26191	2009/04/01	22:06:46	62.1	62.1	66.2	69.1	78.6
26196	2009/04/01	22:07:01	72.2	66.6	67.0	70.0	66.4
26201	2009/04/01	22:07:16	64.9	65.4	66.2	64.2	64.9
26206	2009/04/01	22:07:31	68.1	63.3	63.2	61.7	62.6
26211	2009/04/01	22:07:46	63.5	67.7	70.1	65.1	63.7
26216	2009/04/01	22:08:01	66.1	67.9	64.7	62.6	61.3
26221	2009/04/01	22:08:16	62.2	67.6	66.7	64.6	66.1
26226	2009/04/01	22:08:31	69.2	68.3	62.8	61.7	63.0
26231	2009/04/01	22:08:46	65.7	70.9	66.4	64.9	64.9
26236	2009/04/01	22:09:01	66.1	69.8	71.9	65.6	67.6
26241	2009/04/01	22:09:16	66.3	68.4	64.4	66.6	63.2
26246	2009/04/01	22:09:31	63.7	62.0	63.8	65.0	70.6
26251	2009/04/01	22:09:46	73.3	71.3	70.5	75.4	65.6
26256	2009/04/01	22:10:01	70.7	80.9	67.9	64.5	63.3
26261	2009/04/01	22:10:16	62.4	63.3	66.2	63.7	64.3
26266	2009/04/01	22:10:31	65.6	67.3	66.6	70.0	63.0
26271	2009/04/01	22:10:46	63.9	65.5	66.1	68.8	67.5
26276	2009/04/01	22:11:01	77.1	65.6	62.1	62.4	62.7
26281	2009/04/01	22:11:16	62.6	61.9	62.3	63.0	62.2
26286	2009/04/01	22:11:31	61.2	63.9	69.9	73.2	67.3
26291	2009/04/01	22:11:46	73.2	66.9	68.4	64.2	70.2
26296	2009/04/01	22:12:01	69.4	69.4	70.4	66.6	66.3
26301	2009/04/01	22:12:16	62.5	61.4	62.1	62.4	62.1
26306	2009/04/01	22:12:31	62.6	63.0	61.8	61.2	62.7
26311	2009/04/01	22:12:46	62.0	63.8	70.5	63.1	69.6
26316	2009/04/01	22:13:01	64.6	69.5	63.6	66.4	70.5
26321	2009/04/01	22:13:16	67.7	63.0	61.8	62.2	62.5
26326	2009/04/01	22:13:31	65.6	70.5	69.2	71.4	67.5
26331	2009/04/01	22:13:46	65.7	68.6	70.1	67.1	65.2
26336	2009/04/01	22:14:01	68.4	70.3	73.8	68.5	64.1
26341	2009/04/01	22:14:16	61.7	62.4	61.8	63.1	64.3
26346	2009/04/01	22:14:31	68.4	62.0	62.8	64.9	63.8
26351	2009/04/01	22:14:46	63.0	65.0	62.9	61.8	65.9
26356	2009/04/01	22:15:01	64.6	64.7	72.2	72.0	72.5
26361	2009/04/01	22:15:16	70.3	65.3	64.2	68.7	70.7
26366	2009/04/01	22:15:31	69.5	65.2	63.9	63.3	64.3
26371	2009/04/01	22:15:46	63.3	63.6	68.0	72.9	68.7
26376	2009/04/01	22:16:01	69.4	64.5	67.4	69.5	68.4
26381	2009/04/01	22:16:16	67.6	63.8	62.0	63.0	64.7
26386	2009/04/01	22:16:31	66.2	68.3	67.6	64.8	64.9
26391	2009/04/01	22:16:46	73.0	66.6	63.7	67.4	65.8
26396	2009/04/01	22:17:01	72.4	64.2	62.6	62.3	65.6
26401	2009/04/01	22:17:16	73.4	68.5	68.0	64.3	72.0
26406	2009/04/01	22:17:31	76.0	74.2	68.8	70.1	65.1
26411	2009/04/01	22:17:46	71.0	74.7	73.3	65.1	65.1
26416	2009/04/01	22:18:01	64.4	64.3	67.0	63.6	62.6
26421	2009/04/01	22:18:16	63.8	63.6	63.9	64.9	72.0
26426	2009/04/01	22:18:31	71.7	70.7	73.6	71.1	68.5
26431	2009/04/01	22:18:46	67.6	67.1	64.0	63.5	63.9
26436	2009/04/01	22:19:01	64.4	66.3	63.8	61.2	63.8
26441	2009/04/01	22:19:16	71.1	69.6	69.9	73.1	70.1
26446	2009/04/01	22:19:31	65.7	64.3	67.6	71.6	67.0
26451	2009/04/01	22:19:46	65.5	64.7	65.6	65.2	62.5
26456	2009/04/01	22:20:01	61.4	64.3	69.0	71.8	71.0
26461	2009/04/01	22:20:16	71.0	67.6	65.7	65.0	66.8
26466	2009/04/01	22:20:31	66.8	68.3	63.3	64.0	63.8
26471	2009/04/01	22:20:46	65.5	61.1	62.6	70.0	63.5
26476	2009/04/01	22:21:01	62.4	63.4	63.1	63.4	67.6
26481	2009/04/01	22:21:16	71.5	67.7	66.8	62.9	63.9
26486	2009/04/01	22:21:31	61.8	67.6	71.5	72.4	73.1
26491	2009/04/01	22:21:46	71.0	70.0	69.7	66.4	67.1
26496	2009/04/01	22:22:01	69.9	66.0	66.5	63.4	62.2
26501	2009/04/01	22:22:16	64.7	65.8	60.3	60.7	63.3
26506	2009/04/01	22:22:31	66.9	61.2	61.5	67.7	67.7
26511	2009/04/01	22:22:46	61.5	60.7	59.7	61.6	66.8
26516	2009/04/01	22:23:01	70.5	62.2	61.8	65.2	69.7
26521	2009/04/01	22:23:16	71.0	70.3	65.0	61.9	66.0
26526	2009/04/01	22:23:31	69.3	69.7	68.4	63.9	72.8
26531	2009/04/01	22:23:46	70.2	69.0	66.0	62.6	61.5
26536	2009/04/01	22:24:01	61.8	64.1	71.9	70.6	70.3
26541	2009/04/01	22:24:16	72.5	72.8	65.3	64.9	67.3
26546	2009/04/01	22:24:31	63.6	64.1	63.6	64.1	61.9
26551	2009/04/01	22:24:46	63.0	65.3	65.6	65.5	62.9
26556	2009/04/01	22:25:01	61.5	64.6	64.9	67.5	65.2
26561	2009/04/01	22:25:16	66.3	66.1	69.3	71.9	72.3
26566	2009/04/01	22:25:31	71.0	64.9	68.7	64.4	65.3
26571	2009/04/01	22:25:46	70.7	67.1	67.5	65.7	63.3
26576	2009/04/01	22:26:01	63.5	62.5	67.5	69.6	71.7
26581	2009/04/01	22:26:16	69.1	66.8	63.0	62.5	64.4
26586	2009/04/01	22:26:31	62.2	64.4	64.1	71.4	63.4
26591	2009/04/01	22:26:46	65.5	64.3	64.0	61.7	64.0
26596	2009/04/01	22:27:01	62.8	67.0	68.1	65.1	67.0
26601	2009/04/01	22:27:16	67.7	68.0	63.7	64.9	67.7
26606	2009/04/01	22:27:31	64.7	62.9	61.6	66.2	63.0
26611	2009/04/01	22:27:46	64.2	62.0	63.9	62.6	62.4
26616	2009/04/01	22:28:01	64.7	70.3	74.4	68.1	68.8
26621	2009/04/01	22:28:16	69.8	67.9	66.4	64.6	68.4
26626	2009/04/01	22:28:31	68.9	64.3	63.2	61.2	61.8
26631	2009/04/01	22:28:46	61.5	59.7	60.8	59.3	61.0
26636	2009/04/01	22:29:01	61.7	63.9	64.0	62.8	64.2
26641	2009/04/01	22:29:16	70.8	69.3	70.6	63.9	68.3
26646	2009/04/01	22:29:31	70.7	66.5	64.1	62.9	67.1
26651	2009/04/01	22:29:46	68.1	71.9	65.7	64.4	71.5
26656	2009/04/01	22:30:01	66.2	61.2	61.6	61.5	61.8

26661	2009/04/01	22:30:16	66.8	65.3	70.0	68.9	66.2
26666	2009/04/01	22:30:31	63.3	62.4	62.0	67.7	75.1
26671	2009/04/01	22:30:46	66.6	64.5	64.6	63.0	66.4
26676	2009/04/01	22:31:01	71.7	66.3	66.6	69.4	65.4
26681	2009/04/01	22:31:16	63.5	66.1	71.8	69.7	68.8
26686	2009/04/01	22:31:31	72.2	67.3	64.4	63.9	66.5
26691	2009/04/01	22:31:46	65.7	67.1	64.7	66.6	67.0
26696	2009/04/01	22:32:01	64.6	66.3	63.6	65.2	60.3
26701	2009/04/01	22:32:16	59.5	60.8	65.6	70.3	68.5
26706	2009/04/01	22:32:31	63.6	70.8	62.9	62.0	60.3
26711	2009/04/01	22:32:46	61.4	61.2	61.3	59.9	62.0
26716	2009/04/01	22:33:01	63.5	69.6	68.9	68.0	67.4
26721	2009/04/01	22:33:16	68.8	66.8	70.4	74.5	72.8
26726	2009/04/01	22:33:31	68.6	72.0	72.5	70.7	67.8
26731	2009/04/01	22:33:46	66.7	71.8	68.1	65.5	67.3
26736	2009/04/01	22:34:01	65.1	65.0	65.0	64.3	64.8
26741	2009/04/01	22:34:16	71.6	72.3	65.3	63.6	64.3
26746	2009/04/01	22:34:31	66.1	62.5	60.7	62.0	69.5
26751	2009/04/01	22:34:46	64.6	65.6	62.8	62.5	63.8
26756	2009/04/01	22:35:01	67.7	63.0	61.9	62.6	62.0
26761	2009/04/01	22:35:16	61.5	66.2	72.4	71.4	67.5
26766	2009/04/01	22:35:31	67.1	63.2	63.9	68.3	74.0
26771	2009/04/01	22:35:46	63.5	63.0	63.2	63.0	63.7
26776	2009/04/01	22:36:01	67.6	69.2	67.2	68.1	66.7
26781	2009/04/01	22:36:16	66.9	67.4	65.3	61.3	68.2
26786	2009/04/01	22:36:31	67.0	63.1	63.5	68.6	65.6
26791	2009/04/01	22:36:46	68.0	62.3	63.5	66.1	64.4
26796	2009/04/01	22:37:01	61.5	61.4	61.9	63.3	61.8
26801	2009/04/01	22:37:16	65.0	66.1	65.4	67.1	61.8
26806	2009/04/01	22:37:31	66.2	70.7	71.2	73.4	71.1
26811	2009/04/01	22:37:46	67.9	64.4	61.1	62.7	70.1
26816	2009/04/01	22:38:01	69.6	64.3	64.1	62.6	66.3
26821	2009/04/01	22:38:16	63.0	64.5	70.8	63.4	62.7
26826	2009/04/01	22:38:31	62.1	64.4	60.9	61.6	62.8
26831	2009/04/01	22:38:46	61.1	61.4	60.1	61.0	60.7
26836	2009/04/01	22:39:01	64.9	66.2	61.3	62.8	63.8
26841	2009/04/01	22:39:16	66.9	64.7	70.3	68.3	64.9
26846	2009/04/01	22:39:31	68.3	64.4	60.5	61.9	62.2
26851	2009/04/01	22:39:46	63.5	70.5	65.6	60.6	61.9
26856	2009/04/01	22:40:01	63.3	71.1	67.1	63.1	64.1
26861	2009/04/01	22:40:16	62.8	60.8	61.2	60.9	62.3
26866	2009/04/01	22:40:31	60.9	61.2	61.7	62.6	71.5
26871	2009/04/01	22:40:46	72.5	67.7	64.9	62.1	62.2
26876	2009/04/01	22:41:01	60.4	58.6	59.7	59.4	65.1
26881	2009/04/01	22:41:16	72.6	63.4	69.3	66.0	64.8
26886	2009/04/01	22:41:31	64.5	65.5	67.6	65.5	62.5
26891	2009/04/01	22:41:46	69.6	67.1	69.8	67.6	70.0
26896	2009/04/01	22:42:01	63.8	62.5	59.5	60.2	59.6
26901	2009/04/01	22:42:16	62.4	70.6	65.1	62.7	60.6
26906	2009/04/01	22:42:31	61.1	60.0	60.5	62.8	66.4
26911	2009/04/01	22:42:46	70.0	65.3	67.1	63.1	68.6
26916	2009/04/01	22:43:01	63.2	61.7	61.7	61.5	60.2
26921	2009/04/01	22:43:16	63.1	67.0	69.7	64.8	63.3
26926	2009/04/01	22:43:31	62.4	69.0	67.2	70.5	62.7
26931	2009/04/01	22:43:46	59.6	62.5	70.0	69.7	64.1
26936	2009/04/01	22:44:01	65.6	66.5	65.4	62.6	60.5
26941	2009/04/01	22:44:16	60.2	60.3	67.0	63.5	63.2
26946	2009/04/01	22:44:31	63.1	63.1	61.8	67.5	67.1
26951	2009/04/01	22:44:46	59.5	64.6	62.4	65.1	67.0
26956	2009/04/01	22:45:01	64.9	69.6	63.9	67.3	62.3
26961	2009/04/01	22:45:16	63.6	71.3	70.3	71.3	70.7
26966	2009/04/01	22:45:31	70.9	65.1	66.1	65.8	69.0
26971	2009/04/01	22:45:46	64.5	63.3	67.2	72.4	70.0
26976	2009/04/01	22:46:01	68.8	69.2	66.0	73.9	68.1
26981	2009/04/01	22:46:16	66.7	65.8	75.0	67.0	69.1
26986	2009/04/01	22:46:31	64.1	62.1	62.4	61.3	65.5
26991	2009/04/01	22:46:46	60.7	61.5	61.1	61.7	60.6
26996	2009/04/01	22:47:01	60.0	64.8	65.9	63.0	61.4
27001	2009/04/01	22:47:16	62.5	63.4	62.1	62.4	61.0
27006	2009/04/01	22:47:31	63.4	63.3	63.5	61.9	61.9
27011	2009/04/01	22:47:46	62.1	64.8	69.1	72.7	71.3
27016	2009/04/01	22:48:01	72.6	70.9	71.9	71.3	70.4
27021	2009/04/01	22:48:16	65.1	63.3	62.0	62.0	63.5
27026	2009/04/01	22:48:31	62.7	64.1	63.2	62.2	62.8
27031	2009/04/01	22:48:46	72.4	67.0	63.9	65.7	68.5
27036	2009/04/01	22:49:01	66.0	63.8	63.8	67.2	69.8
27041	2009/04/01	22:49:16	69.0	73.5	64.8	65.7	67.0
27046	2009/04/01	22:49:31	66.0	63.5	61.8	64.6	67.2
27051	2009/04/01	22:49:46	66.1	71.4	71.0	73.3	70.7
27056	2009/04/01	22:50:01	75.7	71.8	70.3	70.7	64.8
27061	2009/04/01	22:50:16	63.6	64.0	61.8	62.7	62.3
27066	2009/04/01	22:50:31	64.0	63.0	66.0	66.2	68.0
27071	2009/04/01	22:50:46	70.5	70.8	69.1	68.3	72.8
27076	2009/04/01	22:51:01	66.2	67.0	68.3	71.4	64.8
27081	2009/04/01	22:51:16	71.4	68.5	63.6	61.9	63.0
27086	2009/04/01	22:51:31	62.2	63.6	65.6	63.0	61.1
27091	2009/04/01	22:51:46	60.3	61.5	64.2	70.2	66.9
27096	2009/04/01	22:52:01	63.1	61.8	65.2	70.4	70.1
27101	2009/04/01	22:52:16	68.0	68.3	66.2	67.2	64.2
27106	2009/04/01	22:52:31	67.4	64.1	64.2	66.3	65.8
27111	2009/04/01	22:52:46	64.1	63.9	61.6	64.8	68.2
27116	2009/04/01	22:53:01	68.6	67.8	66.9	63.4	66.8
27121	2009/04/01	22:53:16	65.3	61.8	63.1	69.7	67.6
27126	2009/04/01	22:53:31	70.1	70.0	67.2	66.2	68.1
27131	2009/04/01	22:53:46	72.6	69.2	65.9	65.3	62.4
27136	2009/04/01	22:54:01	64.2	68.9	63.4	62.1	61.1
27141	2009/04/01	22:54:16	61.8	59.4	60.1	63.0	65.9
27146	2009/04/01	22:54:31	62.4	63.1	62.3	61.7	60.8
27151	2009/04/01	22:54:46	61.9	65.9	74.3	71.7	65.5

27156	2009/04/01	22:55:01	66.5	70.7	68.5	68.9	65.6
27161	2009/04/01	22:55:16	64.0	70.1	75.1	80.9	81.1
27166	2009/04/01	22:55:31	71.0	70.0	66.4	67.6	63.6
27171	2009/04/01	22:55:46	62.1	63.1	63.1	66.5	63.9
27176	2009/04/01	22:56:01	63.7	63.5	65.8	68.1	66.9
27181	2009/04/01	22:56:16	66.9	67.5	66.5	68.1	74.0
27186	2009/04/01	22:56:31	73.1	72.0	73.5	72.2	71.0
27191	2009/04/01	22:56:46	71.1	71.2	71.4	73.3	75.7
27196	2009/04/01	22:57:01	75.0	69.5	64.5	63.4	67.7
27201	2009/04/01	22:57:16	70.2	70.8	68.9	69.2	66.9
27206	2009/04/01	22:57:31	65.2	67.6	72.9	70.2	74.3
27211	2009/04/01	22:57:46	69.7	71.3	69.1	73.3	72.8
27216	2009/04/01	22:58:01	70.6	69.6	67.6	63.0	62.9
27221	2009/04/01	22:58:16	66.9	66.7	64.0	67.7	67.3
27226	2009/04/01	22:58:31	62.8	66.8	65.6	63.8	63.3
27231	2009/04/01	22:58:46	61.9	60.2	59.7	61.5	63.0
27236	2009/04/01	22:59:01	60.7	61.5	62.1	63.8	68.2
27241	2009/04/01	22:59:16	69.7	70.6	71.5	70.2	70.5
27246	2009/04/01	22:59:31	70.2	69.0	68.7	62.5	63.4
27251	2009/04/01	22:59:46	67.0	70.2	67.2	61.1	63.8
27256	2009/04/01	23:00:01	66.1	69.8	62.6	63.6	68.4
27261	2009/04/01	23:00:16	67.1	65.4	67.1	61.3	62.4
27266	2009/04/01	23:00:31	62.2	66.4	61.6	63.4	65.9
27271	2009/04/01	23:00:46	59.9	63.3	60.9	62.3	62.0
27276	2009/04/01	23:01:01	63.7	60.4	60.5	61.4	65.1
27281	2009/04/01	23:01:16	67.9	61.2	64.1	61.5	64.9
27286	2009/04/01	23:01:31	68.4	70.2	68.1	68.5	69.2
27291	2009/04/01	23:01:46	66.0	64.8	68.0	63.0	61.0
27296	2009/04/01	23:02:01	61.9	61.4	62.0	64.5	69.7
27301	2009/04/01	23:02:16	64.8	63.6	63.2	67.8	66.8
27306	2009/04/01	23:02:31	63.1	66.8	63.7	61.3	61.8
27311	2009/04/01	23:02:46	62.7	69.2	62.9	62.6	61.2
27316	2009/04/01	23:03:01	64.4	62.4	62.7	62.0	68.3
27321	2009/04/01	23:03:16	78.1	72.9	68.3	64.1	67.5
27326	2009/04/01	23:03:31	70.8	68.9	62.6	61.7	63.2
27331	2009/04/01	23:03:46	64.1	63.2	59.8	60.8	60.5
27336	2009/04/01	23:04:01	60.0	63.1	65.6	69.1	67.3
27341	2009/04/01	23:04:16	61.1	60.4	59.6	60.2	62.2
27346	2009/04/01	23:04:31	62.0	63.0	64.7	65.5	63.6
27351	2009/04/01	23:04:46	61.6	63.1	71.0	64.4	65.6
27356	2009/04/01	23:05:01	69.1	67.4	63.8	61.7	64.9
27361	2009/04/01	23:05:16	64.0	69.8	71.4	66.4	70.4
27366	2009/04/01	23:05:31	66.8	64.2	71.8	66.0	65.2
27371	2009/04/01	23:05:46	66.8	65.9	63.0	63.7	64.9
27376	2009/04/01	23:06:01	64.8	60.3	60.7	65.2	68.9
27381	2009/04/01	23:06:16	67.0	69.0	68.6	66.6	61.8
27386	2009/04/01	23:06:31	62.2	63.1	64.3	62.3	61.0
27391	2009/04/01	23:06:46	60.8	60.8	61.3	62.9	62.2
27396	2009/04/01	23:07:01	62.7	64.3	62.0	61.5	67.5
27401	2009/04/01	23:07:16	73.4	69.4	69.6	65.8	67.9
27406	2009/04/01	23:07:31	65.7	62.2	66.8	63.6	61.4
27411	2009/04/01	23:07:46	61.5	61.7	60.5	59.3	59.6
27416	2009/04/01	23:08:01	61.2	63.8	67.5	69.3	69.5
27421	2009/04/01	23:08:16	67.2	66.5	61.5	62.8	68.6
27426	2009/04/01	23:08:31	68.8	64.9	61.3	62.3	61.5
27431	2009/04/01	23:08:46	60.4	60.4	61.5	64.0	70.3
27436	2009/04/01	23:09:01	68.4	69.7	74.9	69.3	67.7
27441	2009/04/01	23:09:16	66.3	66.2	73.9	66.2	62.9
27446	2009/04/01	23:09:31	61.9	62.3	64.8	68.3	69.5
27451	2009/04/01	23:09:46	69.7	64.2	68.2	68.6	70.5
27456	2009/04/01	23:10:01	70.1	71.2	65.3	62.4	62.0
27461	2009/04/01	23:10:16	62.2	60.4	60.2	60.7	61.0
27466	2009/04/01	23:10:31	60.8	61.3	60.5	59.1	59.3
27471	2009/04/01	23:10:46	58.8	59.3	60.5	63.2	64.1
27476	2009/04/01	23:11:01	65.0	65.8	61.6	60.5	61.7
27481	2009/04/01	23:11:16	62.0	66.3	72.7	69.2	72.1
27486	2009/04/01	23:11:31	74.1	67.5	64.5	65.3	64.2
27491	2009/04/01	23:11:46	62.5	61.5	61.5	60.7	60.4
27496	2009/04/01	23:12:01	59.8	60.3	62.8	64.2	65.7
27501	2009/04/01	23:12:16	69.9	68.2	70.5	70.5	69.5
27506	2009/04/01	23:12:31	68.4	64.6	65.2	67.0	68.4
27511	2009/04/01	23:12:46	64.5	67.0	66.7	66.7	63.3
27516	2009/04/01	23:13:01	66.5	68.7	64.7	61.6	61.0
27521	2009/04/01	23:13:16	60.8	60.7	63.0	61.8	61.1
27526	2009/04/01	23:13:31	61.8	63.3	71.6	71.5	72.6
27531	2009/04/01	23:13:46	69.7	67.8	67.0	68.0	62.4
27536	2009/04/01	23:14:01	62.3	61.9	65.9	69.0	71.7
27541	2009/04/01	23:14:16	71.3	71.6	66.0	63.8	63.6
27546	2009/04/01	23:14:31	67.1	69.7	72.1	63.7	64.8
27551	2009/04/01	23:14:46	66.5	63.3	61.4	61.4	65.5
27556	2009/04/01	23:15:01	64.4	65.9	66.2	67.7	61.7
27561	2009/04/01	23:15:16	64.9	69.0	69.1	68.0	72.4
27566	2009/04/01	23:15:31	63.9	65.9	67.0	64.4	70.5
27571	2009/04/01	23:15:46	63.7	62.9	70.1	67.1	68.0
27576	2009/04/01	23:16:01	69.0	69.2	67.0	61.8	66.1
27581	2009/04/01	23:16:16	66.6	67.9	65.8	62.9	62.3
27586	2009/04/01	23:16:31	62.8	61.9	61.5	61.1	61.9
27591	2009/04/01	23:16:46	61.0	61.5	64.3	68.9	65.8
27596	2009/04/01	23:17:01	66.1	65.4	63.6	65.7	65.3
27601	2009/04/01	23:17:16	62.8	61.6	61.4	62.5	61.4
27606	2009/04/01	23:17:31	60.3	60.7	62.2	68.7	68.9
27611	2009/04/01	23:17:46	69.4	69.2	71.5	70.7	78.6
27616	2009/04/01	23:18:01	75.4	71.2	68.3	64.7	61.7
27621	2009/04/01	23:18:16	64.1	65.5	62.5	62.3	63.0
27626	2009/04/01	23:18:31	63.6	63.8	65.2	66.7	66.0
27631	2009/04/01	23:18:46	62.9	64.2	63.9	67.4	63.4
27636	2009/04/01	23:19:01	62.5	61.5	59.7	58.3	61.1
27641	2009/04/01	23:19:16	62.8	60.8	59.7	60.0	61.0
27646	2009/04/01	23:19:31	61.7	67.6	64.2	67.1	63.0

27651	2009/04/01	23:19:46	60.9	61.5	61.0	64.6	67.0
27656	2009/04/01	23:20:01	68.5	70.6	69.3	72.3	68.0
27661	2009/04/01	23:20:16	66.8	67.7	62.7	61.8	61.3
27666	2009/04/01	23:20:31	61.7	61.2	62.2	62.2	63.3
27671	2009/04/01	23:20:46	61.4	62.1	72.1	69.9	66.8
27676	2009/04/01	23:21:01	67.3	67.3	69.2	64.5	62.0
27681	2009/04/01	23:21:16	61.0	61.6	62.0	62.7	64.4
27686	2009/04/01	23:21:31	66.3	63.8	68.3	71.6	69.9
27691	2009/04/01	23:21:46	69.4	69.2	75.3	69.3	68.1
27696	2009/04/01	23:22:01	65.2	64.9	61.8	62.1	61.8
27701	2009/04/01	23:22:16	66.2	63.9	64.5	66.8	64.9
27706	2009/04/01	23:22:31	67.0	65.0	65.2	62.8	62.1
27711	2009/04/01	23:22:46	61.8	62.7	61.5	61.3	60.4
27716	2009/04/01	23:23:01	67.8	68.6	66.9	61.9	59.9
27721	2009/04/01	23:23:16	60.0	59.0	60.3	60.3	59.6
27726	2009/04/01	23:23:31	60.8	60.8	63.6	68.4	62.8
27731	2009/04/01	23:23:46	62.5	62.4	64.2	71.4	70.3
27736	2009/04/01	23:24:01	68.2	67.0	67.4	66.2	68.3
27741	2009/04/01	23:24:16	68.6	64.8	63.6	63.0	63.9
27746	2009/04/01	23:24:31	62.7	63.8	64.9	64.2	65.1
27751	2009/04/01	23:24:46	65.2	65.0	61.1	63.1	67.9
27756	2009/04/01	23:25:01	68.8	69.8	66.9	65.1	72.0
27761	2009/04/01	23:25:16	69.1	63.5	62.8	62.8	63.4
27766	2009/04/01	23:25:31	69.9	65.2	65.5	64.6	63.6
27771	2009/04/01	23:25:46	64.9	66.5	69.0	68.2	70.1
27776	2009/04/01	23:26:01	66.7	63.0	62.7	63.3	63.0
27781	2009/04/01	23:26:16	63.1	64.2	65.9	64.2	66.1
27786	2009/04/01	23:26:31	65.1	61.8	64.4	61.6	64.0
27791	2009/04/01	23:26:46	63.3	62.7	63.3	66.1	64.0
27796	2009/04/01	23:27:01	67.2	64.8	63.7	65.1	65.6
27801	2009/04/01	23:27:16	67.5	68.2	71.1	72.3	70.5
27806	2009/04/01	23:27:31	66.8	63.2	64.9	66.9	64.2
27811	2009/04/01	23:27:46	63.2	63.5	65.8	68.9	69.9
27816	2009/04/01	23:28:01	68.3	70.9	75.1	73.8	70.9
27821	2009/04/01	23:28:16	67.3	63.7	61.0	61.3	61.4
27826	2009/04/01	23:28:31	61.2	60.0	61.0	61.7	66.2
27831	2009/04/01	23:28:46	62.2	63.8	62.1	63.1	66.1
27836	2009/04/01	23:29:01	66.7	62.1	61.5	61.2	62.0
27841	2009/04/01	23:29:16	67.2	65.4	65.5	71.1	65.5
27846	2009/04/01	23:29:31	65.0	70.2	65.0	62.7	62.2
27851	2009/04/01	23:29:46	62.5	63.3	62.1	66.6	75.0
27856	2009/04/01	23:30:01	71.7	70.2	73.8	71.3	66.3
27861	2009/04/01	23:30:16	67.7	67.6	68.7	67.9	63.2
27866	2009/04/01	23:30:31	63.3	65.1	69.4	67.4	67.3
27871	2009/04/01	23:30:46	64.8	60.9	61.1	61.7	62.0
27876	2009/04/01	23:31:01	64.4	62.8	69.4	65.1	61.7
27881	2009/04/01	23:31:16	64.1	69.6	64.6	61.5	62.5
27886	2009/04/01	23:31:31	61.8	63.3	63.1	64.4	64.9
27891	2009/04/01	23:31:46	63.8	73.0	72.6	69.9	71.7
27896	2009/04/01	23:32:01	64.3	64.9	61.3	62.7	64.0
27901	2009/04/01	23:32:16	64.0	61.5	60.7	60.4	60.9
27906	2009/04/01	23:32:31	60.1	61.0	61.0	62.9	64.8
27911	2009/04/01	23:32:46	63.8	65.7	68.7	62.8	62.6
27916	2009/04/01	23:33:01	66.9	61.7	62.8	65.8	65.2
27921	2009/04/01	23:33:16	65.9	70.0	69.1	70.2	71.8
27926	2009/04/01	23:33:31	71.4	67.0	64.9	65.7	64.4
27931	2009/04/01	23:33:46	63.5	66.5	65.3	61.9	65.1
27936	2009/04/01	23:34:01	72.9	75.6	72.4	67.2	64.4
27941	2009/04/01	23:34:16	61.3	61.2	64.1	66.9	64.0
27946	2009/04/01	23:34:31	65.8	62.3	60.1	61.4	62.2
27951	2009/04/01	23:34:46	63.9	61.3	63.1	64.3	67.0
27956	2009/04/01	23:35:01	63.1	64.1	69.4	66.7	64.2
27961	2009/04/01	23:35:16	62.0	60.4	60.6	60.8	61.5
27966	2009/04/01	23:35:31	61.7	64.4	62.2	65.1	64.1
27971	2009/04/01	23:35:46	61.4	63.0	66.3	65.7	69.3
27976	2009/04/01	23:36:01	69.5	68.7	70.1	63.7	66.5
27981	2009/04/01	23:36:16	63.6	61.6	60.1	60.6	62.0
27986	2009/04/01	23:36:31	62.0	62.7	66.2	66.1	63.9
27991	2009/04/01	23:36:46	62.7	64.0	65.0	64.6	69.8
27996	2009/04/01	23:37:01	70.8	66.9	68.8	65.4	63.3
28001	2009/04/01	23:37:16	68.1	64.6	60.5	61.6	60.9
28006	2009/04/01	23:37:31	64.0	63.6	70.0	69.8	70.2
28011	2009/04/01	23:37:46	70.0	67.1	65.4	66.1	64.5
28016	2009/04/01	23:38:01	62.2	60.6	60.8	61.3	60.8
28021	2009/04/01	23:38:16	61.6	61.1	63.3	69.3	68.2
28026	2009/04/01	23:38:31	67.2	61.4	60.6	59.9	59.7
28031	2009/04/01	23:38:46	61.1	64.6	68.4	64.0	61.0
28036	2009/04/01	23:39:01	60.6	60.9	61.9	60.4	62.6
28041	2009/04/01	23:39:16	72.5	74.6	69.1	64.1	69.1
28046	2009/04/01	23:39:31	64.2	63.3	66.0	63.1	64.3
28051	2009/04/01	23:39:46	64.5	66.8	67.8	66.1	66.6
28056	2009/04/01	23:40:01	75.6	70.6	68.5	70.8	66.6
28061	2009/04/01	23:40:16	64.4	66.2	66.1	63.6	63.1
28066	2009/04/01	23:40:31	61.3	62.4	61.8	64.9	64.9
28071	2009/04/01	23:40:46	62.3	62.8	64.3	66.3	65.4
28076	2009/04/01	23:41:01	66.9	63.2	61.6	60.9	59.6
28081	2009/04/01	23:41:16	62.4	65.8	63.7	61.0	62.1
28086	2009/04/01	23:41:31	60.6	64.6	64.6	65.6	67.6
28091	2009/04/01	23:41:46	66.6	66.6	66.0	61.0	59.7
28096	2009/04/01	23:42:01	60.0	62.4	70.5	69.7	68.2
28101	2009/04/01	23:42:16	67.6	65.1	63.5	61.9	68.2
28106	2009/04/01	23:42:31	66.8	71.8	64.5	64.0	68.5
28111	2009/04/01	23:42:46	67.3	61.9	61.8	62.4	61.8
28116	2009/04/01	23:43:01	61.1	61.0	62.7	67.8	73.7
28121	2009/04/01	23:43:16	70.3	67.1	63.9	63.6	63.4
28126	2009/04/01	23:43:31	62.4	69.6	68.3	65.1	62.3
28131	2009/04/01	23:43:46	61.1	61.1	59.7	61.1	63.1
28136	2009/04/01	23:44:01	62.5	65.0	66.9	72.4	68.6
28141	2009/04/01	23:44:16	73.7	63.9	62.8	62.5	66.1

28146	2009/04/01	23:44:31	61.5	62.9	62.3	66.5	70.6
28151	2009/04/01	23:44:46	67.2	64.0	61.5	62.0	65.3
28156	2009/04/01	23:45:01	68.1	62.8	61.7	65.9	63.6
28161	2009/04/01	23:45:16	70.0	70.7	71.0	70.3	71.0
28166	2009/04/01	23:45:31	69.3	64.2	65.1	66.8	66.2
28171	2009/04/01	23:45:46	66.3	62.3	62.6	63.9	65.0
28176	2009/04/01	23:46:01	63.1	63.0	65.7	66.6	67.7
28181	2009/04/01	23:46:16	73.0	72.8	69.6	67.8	62.7
28186	2009/04/01	23:46:31	64.3	67.2	65.0	61.1	59.4
28191	2009/04/01	23:46:46	58.2	60.4	59.0	59.9	62.7
28196	2009/04/01	23:47:01	66.8	63.1	62.4	71.0	66.1
28201	2009/04/01	23:47:16	62.4	63.9	67.5	68.8	68.4
28206	2009/04/01	23:47:31	71.1	70.3	72.9	64.9	65.7
28211	2009/04/01	23:47:46	63.9	66.1	63.2	63.7	65.0
28216	2009/04/01	23:48:01	66.2	64.6	66.0	68.3	68.2
28221	2009/04/01	23:48:16	72.0	71.9	71.5	69.8	70.5
28226	2009/04/01	23:48:31	70.7	69.8	70.1	69.1	69.1
28231	2009/04/01	23:48:46	69.9	71.2	68.4	69.0	68.4
28236	2009/04/01	23:49:01	70.1	70.4	70.8	70.8	69.2
28241	2009/04/01	23:49:16	67.7	69.0	76.9	73.9	69.1
28246	2009/04/01	23:49:31	68.6	64.0	60.8	60.6	61.0
28251	2009/04/01	23:49:46	60.9	62.8	69.6	62.3	61.9
28256	2009/04/01	23:50:01	65.8	71.0	70.8	65.6	63.6
28261	2009/04/01	23:50:16	63.4	62.1	60.0	62.4	61.3
28266	2009/04/01	23:50:31	62.1	62.4	61.1	62.8	61.8
28271	2009/04/01	23:50:46	62.8	62.7	63.6	71.0	71.1
28276	2009/04/01	23:51:01	67.0	66.1	60.8	60.0	63.0
28281	2009/04/01	23:51:16	62.6	63.0	63.7	65.9	64.6
28286	2009/04/01	23:51:31	72.7	75.3	70.4	69.0	69.9
28291	2009/04/01	23:51:46	69.4	71.0	68.9	65.3	63.5
28296	2009/04/01	23:52:01	61.4	62.1	61.5	62.0	63.9
28301	2009/04/01	23:52:16	66.1	65.5	61.6	64.4	65.3
28306	2009/04/01	23:52:31	59.6	60.3	65.2	69.8	61.1
28311	2009/04/01	23:52:46	61.3	63.0	64.7	60.1	59.7
28316	2009/04/01	23:53:01	61.2	63.3	64.1	68.9	68.1
28321	2009/04/01	23:53:16	62.8	60.7	62.2	62.4	58.9
28326	2009/04/01	23:53:31	62.0	62.8	62.5	62.9	66.7
28331	2009/04/01	23:53:46	68.5	68.0	69.3	68.9	63.8
28336	2009/04/01	23:54:01	63.1	61.5	62.2	61.5	62.7
28341	2009/04/01	23:54:16	68.4	68.3	63.2	62.7	66.7
28346	2009/04/01	23:54:31	79.3	67.0	69.2	68.9	65.9
28351	2009/04/01	23:54:46	67.1	70.7	65.3	66.8	64.2
28356	2009/04/01	23:55:01	62.5	62.0	65.6	64.1	60.6
28361	2009/04/01	23:55:16	61.2	61.9	62.5	71.3	68.1
28366	2009/04/01	23:55:31	67.6	64.4	65.4	64.4	63.1
28371	2009/04/01	23:55:46	64.2	66.5	67.8	66.0	73.1
28376	2009/04/01	23:56:01	62.5	62.5	63.9	70.9	69.4
28381	2009/04/01	23:56:16	69.8	67.4	67.2	66.8	67.8
28386	2009/04/01	23:56:31	67.5	63.2	62.9	61.7	62.5
28391	2009/04/01	23:56:46	64.8	62.9	61.3	61.5	63.7
28396	2009/04/01	23:57:01	66.2	65.7	64.4	64.0	71.4
28401	2009/04/01	23:57:16	64.4	61.9	62.3	61.9	62.4
28406	2009/04/01	23:57:31	61.5	61.5	60.5	62.1	63.3
28411	2009/04/01	23:57:46	60.4	62.3	61.5	64.1	62.6
28416	2009/04/01	23:58:01	67.9	70.1	75.2	68.7	63.5
28421	2009/04/01	23:58:16	65.0	61.7	62.9	64.9	63.7
28426	2009/04/01	23:58:31	60.1	61.7	65.3	63.7	61.6
28431	2009/04/01	23:58:46	62.0	66.4	62.8	65.2	63.3
28436	2009/04/01	23:59:01	61.4	61.9	61.4	60.1	61.1
28441	2009/04/01	23:59:16	65.3	68.9	68.6	68.8	68.3
28446	2009/04/01	23:59:31	63.9	66.0	63.6	63.6	65.6
28451	2009/04/01	23:59:46	62.6	66.3	68.4	64.8	64.2
28456	2009/04/02	00:00:01	70.3	70.7	67.6	67.1	63.6
28461	2009/04/02	00:00:16	63.4	61.9	60.8	61.4	60.6
28466	2009/04/02	00:00:31	60.8	60.7	61.4	62.5	63.9
28471	2009/04/02	00:00:46	62.8	59.0	61.2	64.0	67.5
28476	2009/04/02	00:01:01	68.0	65.2	65.7	64.1	63.6
28481	2009/04/02	00:01:16	61.6	61.9	63.0	64.6	63.4
28486	2009/04/02	00:01:31	61.3	65.1	70.3	70.0	69.2
28491	2009/04/02	00:01:46	69.2	68.5	64.7	62.9	65.9
28496	2009/04/02	00:02:01	65.7	63.8	68.4	68.9	72.9
28501	2009/04/02	00:02:16	65.8	63.3	61.8	60.8	61.3
28506	2009/04/02	00:02:31	60.6	69.7	65.7	61.3	62.0
28511	2009/04/02	00:02:46	61.6	62.0	63.1	67.7	62.6
28516	2009/04/02	00:03:01	66.1	68.4	67.8	64.1	68.8
28521	2009/04/02	00:03:16	62.9	62.3	62.4	62.7	63.6
28526	2009/04/02	00:03:31	63.0	63.7	67.3	65.5	64.0
28531	2009/04/02	00:03:46	67.8	67.7	70.9	70.1	63.9
28536	2009/04/02	00:04:01	65.1	66.1	66.6	62.5	62.7
28541	2009/04/02	00:04:16	60.7	63.0	69.6	69.1	62.6
28546	2009/04/02	00:04:31	61.1	60.7	61.8	62.6	63.4
28551	2009/04/02	00:04:46	66.7	71.3	64.7	62.6	63.8
28556	2009/04/02	00:05:01	65.9	66.1	68.4	63.4	64.2
28561	2009/04/02	00:05:16	69.2	73.1	64.4	64.9	65.5
28566	2009/04/02	00:05:31	63.6	62.3	62.1	63.6	64.9
28571	2009/04/02	00:05:46	60.7	60.7	61.7	62.3	63.4
28576	2009/04/02	00:06:01	71.3	67.0	70.8	70.0	68.8
28581	2009/04/02	00:06:16	68.2	66.6	65.1	64.1	64.2
28586	2009/04/02	00:06:31	62.4	61.4	65.1	65.3	64.2
28591	2009/04/02	00:06:46	66.5	69.0	66.2	64.7	61.7
28596	2009/04/02	00:07:01	62.7	61.2	64.4	65.8	60.5
28601	2009/04/02	00:07:16	61.6	63.9	64.0	64.5	63.6
28606	2009/04/02	00:07:31	66.6	69.1	68.3	65.1	67.4
28611	2009/04/02	00:07:46	63.7	61.6	62.1	61.5	64.9
28616	2009/04/02	00:08:01	62.3	61.4	61.2	61.7	64.9
28621	2009/04/02	00:08:16	60.7	69.2	67.6	68.4	70.8
28626	2009/04/02	00:08:31	65.5	67.0	65.5	63.1	62.6
28631	2009/04/02	00:08:46	60.8	62.0	60.5	60.8	62.1
28636	2009/04/02	00:09:01	62.2	62.4	61.5	61.0	62.3

28641	2009/04/02	00:09:16	60.8	60.2	63.0	68.7	69.9
28646	2009/04/02	00:09:31	63.4	63.8	66.5	64.8	66.5
28651	2009/04/02	00:09:46	61.8	59.5	61.2	61.0	61.2
28656	2009/04/02	00:10:01	60.4	67.7	65.3	70.0	68.1
28661	2009/04/02	00:10:16	69.0	67.8	67.3	66.5	71.5
28666	2009/04/02	00:10:31	72.7	65.6	66.5	63.1	62.0
28671	2009/04/02	00:10:46	61.8	62.0	62.5	65.2	63.0
28676	2009/04/02	00:11:01	61.5	59.6	61.9	60.9	61.2
28681	2009/04/02	00:11:16	63.0	66.1	69.0	63.6	61.9
28686	2009/04/02	00:11:31	61.2	60.6	61.4	60.0	60.0
28691	2009/04/02	00:11:46	65.5	61.9	68.1	72.1	68.7
28696	2009/04/02	00:12:01	65.1	60.7	61.1	60.1	59.5
28701	2009/04/02	00:12:16	63.8	72.7	67.2	61.0	63.2
28706	2009/04/02	00:12:31	71.8	68.5	64.5	62.8	61.6
28711	2009/04/02	00:12:46	65.3	59.7	60.0	61.6	64.6
28716	2009/04/02	00:13:01	67.6	66.8	64.1	61.2	62.6
28721	2009/04/02	00:13:16	60.6	62.0	63.6	61.9	67.3
28726	2009/04/02	00:13:31	71.1	69.1	71.1	69.4	71.7
28731	2009/04/02	00:13:46	71.5	68.2	73.7	67.1	76.4
28736	2009/04/02	00:14:01	84.8	74.7	68.1	68.8	66.6
28741	2009/04/02	00:14:16	64.3	62.1	61.1	60.6	59.7
28746	2009/04/02	00:14:31	59.1	59.3	59.5	59.4	62.1
28751	2009/04/02	00:14:46	60.8	65.3	61.3	65.7	66.0
28756	2009/04/02	00:15:01	63.3	64.4	63.8	61.6	67.9
28761	2009/04/02	00:15:16	67.4	66.2	63.5	65.5	69.7
28766	2009/04/02	00:15:31	64.9	64.4	65.7	67.7	69.9
28771	2009/04/02	00:15:46	72.3	68.0	67.9	64.0	62.0
28776	2009/04/02	00:16:01	65.1	64.2	61.3	60.4	63.1
28781	2009/04/02	00:16:16	64.2	64.0	67.7	66.6	66.9
28786	2009/04/02	00:16:31	63.2	62.4	62.2	63.6	64.6
28791	2009/04/02	00:16:46	60.9	65.3	66.3	65.4	64.9
28796	2009/04/02	00:17:01	65.3	63.2	65.5	63.7	62.2
28801	2009/04/02	00:17:16	59.1	62.5	70.9	74.8	68.5
28806	2009/04/02	00:17:31	69.6	65.2	66.3	69.1	68.0
28811	2009/04/02	00:17:46	61.6	60.2	59.9	61.6	64.9
28816	2009/04/02	00:18:01	69.9	66.8	61.5	60.7	62.0
28821	2009/04/02	00:18:16	69.9	70.2	65.4	61.5	61.5
28826	2009/04/02	00:18:31	62.1	65.0	63.3	65.6	63.1
28831	2009/04/02	00:18:46	66.3	68.1	63.6	61.8	61.8
28836	2009/04/02	00:19:01	62.0	62.8	62.8	66.4	65.7
28841	2009/04/02	00:19:16	64.4	64.5	64.9	63.4	62.7
28846	2009/04/02	00:19:31	67.0				

Appendix F: Los Robles Golf Course Parking Study

INTERWEST CONSULTING GROUP

April 17, 2019

Ayda Forouzan, PE, QSD
Public Works Department
City of Thousand Oaks
2100 Thousand Oaks Blvd
Thousand Oaks, CA 91362

Subject: Los Robles Greens Golf Course Parking Study

Dear Ms. Forouzan:

As requested, we conducted a parking study at the Los Robles Greens golf course and banquet facility at 299 Moorpark Road from 3:00 PM to 8:00 PM on Saturday, April 13, 2019. Every thirty minutes throughout that period, technicians recorded the number of vehicles parked in each of the three facility parking lots, as well as the adjacent lot that serves the Conejo Players Theatre. These lots are shown in the attached exhibit.

The results of the field data collection are presented in the attached tables. The capacity, or inventory, of Lot Nos. 2 & 3 totals 132 spaces. When Lot No. 3 was nearly full during the peak period of 6:00 - 6:30 PM, 19 spaces (34%) remained available in Lot No. 2. Usage of Lot No. 4 (Conejo Players) peaked at 57% occupancy during the same period. Lot No. 1 was essentially unused the entire time.

We appreciate this opportunity to be of help. If you have any questions or need further assistance, please don't hesitate to contact me.

Sincerely,

Mark Wessel

Mark Wessel, PE, TE
Interwest Consulting Group

190417 Los Robles Greens parking study.doc

Attachments: Parking Study Map
Parking Survey Results

9519 CHAMBERLAIN STREET • VENTURA, CALIFORNIA 93004
805.659.0017 • mwessel@interwestgrp.com

LOS ROBLES GREENS GOLF COURSE PARKING STUDY MAP



190417 Los Robles Greens parking study map.pdf

Los Robles Greens Parking Study Results

Client: CITY OF THOUSAND OAKS
Project: LOS ROBLES GREENS GOLF COURSE PARKING STUDY
Location: 299 MOORPARK ROAD, THOUSAND OAKS
Date: SATURDAY APRIL 13, 2019

Lot No:	1					
Space Type	Handicapped		Marked*		TOTAL	
Inventory	4		99		103	
	Occupied	Avail.	Occupied	Avail.	Occupied	Avail.
3:00 - 3:30 PM	0	4	1	98	1	102
3:30 - 4:00 PM	0	4	1	98	1	102
4:00 - 4:30 PM	0	4	2	97	2	101
4:30 - 5:00 PM	0	4	1	98	1	102
5:00 - 5:30 PM	0	4	1	98	1	102
5:30 - 6:00 PM	0	4	1	98	1	102
6:00 - 6:30 PM	0	4	0	99	0	103
6:30 - 7:00 PM	0	4	0	99	0	103
7:00 - 7:30 PM	0	4	0	99	0	103
7:30 - 8:00 PM	0	4	0	99	0	103

*Parking lot partially obstructed by equipment; inventory estimated using aerial imagery.

Lot No:	2					
Space Type	Handicapped		Marked		TOTAL	
Inventory	0		56		56	
	Occupied	Avail.	Occupied	Avail.	Occupied	Avail.
3:00 - 3:30 PM	0	0	29	27	29	27
3:30 - 4:00 PM	0	0	29	27	29	27
4:00 - 4:30 PM	0	0	31	25	31	25
4:30 - 5:00 PM	0	0	37	19	37	19
5:00 - 5:30 PM	0	0	39	17	39	17
5:30 - 6:00 PM	0	0	39	17	39	17
6:00 - 6:30 PM	0	0	37	19	37	19
6:30 - 7:00 PM	0	0	33	23	33	23
7:00 - 7:30 PM	0	0	31	25	31	25
7:30 - 8:00 PM	0	0	31	25	31	25

Lot No:	3					
Space Type	Handicapped		Marked		TOTAL	
Inventory	7		169		176	
	Occupied	Avail.	Occupied	Avail.	Occupied	Avail.
3:00 - 3:30 PM	3	4	113	56	116	60
3:30 - 4:00 PM	3	4	155	14	158	18
4:00 - 4:30 PM	2	5	165	4	167	9
4:30 - 5:00 PM	3	4	168	1	171	5
5:00 - 5:30 PM	3	4	162	7	165	11
5:30 - 6:00 PM	3	4	163	6	166	10
6:00 - 6:30 PM	2	5	169	0	171	5
6:30 - 7:00 PM	2	5	168	1	170	6
7:00 - 7:30 PM	3	4	158	11	161	15
7:30 - 8:00 PM	3	4	147	22	150	26

Lot No:	4					
Space Type	Handicapped		Marked		TOTAL	
Inventory	4		115		119	
	Occupied	Avail.	Occupied	Avail.	Occupied	Avail.
3:00 - 3:30 PM	2	2	64	51	66	53
3:30 - 4:00 PM	0	4	22	93	22	97
4:00 - 4:30 PM	0	4	22	93	22	97
4:30 - 5:00 PM	0	4	54	61	54	65
5:00 - 5:30 PM	0	4	63	52	63	56
5:30 - 6:00 PM	0	4	63	52	63	56
6:00 - 6:30 PM	0	4	68	47	68	51
6:30 - 7:00 PM	0	4	68	47	68	51
7:00 - 7:30 PM	0	4	21	94	21	98
7:30 - 8:00 PM	0	4	14	101	14	105

NOTE: Lot Nos. 1, 2, & 4 have no designated loading spaces, nor was any loading activity observed. Lot No. 3 also had no designated loading spaces, but loading activities were observed in a "No Parking" area in the northwest portion of the lot. The inventory of that area was estimated to be 3 spaces. Usage ranged from 0-3, with an average of 1.

Field data collected by Wiltec.