Santa Barbara County
PUBLIC Health
DEPARTMENT

Environmental Health Services

225 Camino del Remedio ◆ Santa Barbara, CA 93110
805/681-4900 ◆ FAX 805/681-4901

2125 S. Centerpointe Pkwy. #333 ◆ Santa Maria, CA 93455-1340
805/346-8460 ◆ FAX 805/346-8485

Van Do-Reynoso, MPH, PhD *Director*
Suzanne Jacobson, CPA *Chief Financial Officer*
Paige Batson, MA, PHN, RN *Interim Deputy Director*
Douglas Metz, DPM, MPH *Deputy Director*
Polly Baldwin, MD, MPH *Medical Director*
Polly Baldwin, MD, MPH *Interim Health Officer*

Lawrence Fay *Director of Environmental Health*

March 1, 2019

Chevron Environmental Management Company
Mr. Benjamin Arnett
P.O. Box 1332
San Luis Obispo, CA 93406

Evergreen Resources Management Operations (Sunoco)
Ms. Fiona Livingston
2 Righter Parkway, Suite 200
Wilmington, DE 19803

Dear Responsible Parties:

Subject: **No Further Action**
Former Orcutt Refinery
1550 West Stowell Road, Santa Maria, California
SMU Site #20167 APN #117-820-015

This letter confirms the completion of the site investigation and remediation at the above subject site. This letter pertains to petroleum hydrocarbon contamination in soil and groundwater associated with historical refinery operations at the 1550 West Stowell Road parcel only (APN #117-820-015). With the provision that the information provided to this agency is accurate and representative of existing conditions, it is our position that no further action is required, beyond adherence to the Soil Management Plan, prepared by EnviroManagement, Inc. dated December, 2018, and the land use covenant dated December 7, 2018 (Doc #2018-0054080), is required, at this time.

Please be advised that *this is not a site closure letter* as this site contains other parcels and areas of concern. This letter does not relieve you of any liability under the California Health and Safety Code or Water Code for past, present or future conditions at the site. Nor does it relieve you of the responsibility to clean up existing, additional, or previously unidentified conditions at the site, which cause or threaten to cause pollution or nuisance or otherwise pose a threat to water quality or public health.

Additionally, be advised that changes in the present or proposed use of the site may require further site characterization and mitigation activity. It is the property owner's responsibility to notify this agency of any future contamination findings.

If you have any questions regarding the aforementioned, please do not hesitate to call Thomas Rejzek (805) 346-8216. Written correspondence regarding this matter should be sent to EHS at 2125 S. Centerpointe Parkway, Room 333, Santa Maria, CA 93455 or via email to tom.rejzek@sbcphd.org.

Sincerely,

Paul McCaw
Hazardous Materials Supervisor
LUFT, SMU, and Ocean Water Monitoring Programs

ec: Geotracker Database
Mr. Louis Cappel, Padre Associates, Inc. (lcappel@padreinc.com)
Mr. Charles Lambert, Intrinsik Environmental Sciences (US), Inc. (clambert@intrinsik.com)
Mr. Jeff Merksemer, Enviromanagement, Inc. (Jeff@enviromanageinc.com)
Ms. Pam McNulty, Santa Barbara Petroleum Division (Pmcnult@co.santa-barbara.ca.us)
Mr. Dan Ringstmeyer, Buena Resources (Dan@buena-res.com)
Mr. Frank Albro, City of Santa Maria (falbro@ci.santa-maria.ca.us)
Ms. Angela Haifi-Madrigal, City of Santa Maria (ahaifi-madrigal@cityofsantamaria.org)
Mr. Greg Bishop, Regional Water Quality Control Board (greg.bishop@waterboards.ca.gov)

mlc:tmr 20167 nfa letter

CASE CLOSURE SUMMARY
SMU
NO FURTHER ACTION (NFA)

Date of Closure Request: *12/7/2018*

I. Agency Information

Agency Name: Environmental Health Services Santa Barbara County Public Health Department	Address: 2125 South Centerpointe Parkway, Room 333
City/State/Zip: Santa Maria, CA 93455	Phone: (805) 346-8345
Responsible Staff Person: Tom Rejzek, P.G., C.Hg.	Title: Professional Geologist

II. Case Information

Site Facility Name: Unocal Former Orcutt Oil Refinery	**SMU Case #: 20167**
APN: 117-820-015	**Global ID: SL0608331151**

Site Facility Address: 1550 W. Stowell Road, Santa Maria, CA 93458

Responsible Parties	Addresses	Phone Number
Chevron Environmental Management Company, Attn: Benjamin Arnett	**276 Tank Farm Road, San Luis Obispo, CA 93401**	**(805) 546-6911**
Legacy Refining Operations (a series of Evergreen Resources Group, LLC), Attn: Fiona Livingston	**2 Righter Parkway, Suite 200, Wilmington, DE 19803**	**(302) 477-1803**

III. Information

Release Type	Closed in-Place/Removed	Date
Petroleum Hydrocarbon Impacted Soil	**Removed (ground surface to 7 feet deep)**	**6/24/2014-3/9/2018**
Petroleum Hydrocarbon Impacted Soil	**Closed-In-Place (>=7 feet deep)**	**3/9/2018**

IV. Release and Site Characterization Information

Cause and Type of Release: Operation of former oil refinery/bulk petroleum storage		
Site Characterization Complete? Yes	Date approved by oversight agency: 2/21/2014	
Vapor Extraction Wells Installed? No	Number: N/A	Proper screened interval? N/A
Monitoring Wells Installed? Yes	Number: 19	Proper screened interval? 30'-45' (shallow perched zone), 73'-94'(deep perched zone), 87'-145' (Regional Aquifer)
Highest GW Depth Below Ground Surface: 35.22'	Lowest: 145.17'	Flow Direction: West
Most Sensitive Current Use: Public water supply		
Are Drinking Water Wells Affected? No	Public Supply Aquifer: Santa Maria Groundwater Basin Regional Aquifer	
Is Surface Water Affected? No	Nearest Affected SW Name: N/A	
Off-Site Beneficial Use Impacts (addresses/locations): None		

CASE CLOSURE SUMMARY
Site Mitigation Unit

V. Treatment/Disposal Methods (Attach any additional information)

Material	Include Amount (Units)	Action (Treatment or Disposal Method)	Date
TPH-Containing soil	76,452 tons	Excavation and Off-Site Disposal	6/24 - 10/31/2014
TPH-Containing soil	39,887 tons	Excavation and Off-Site Disposal	1/1/2017-3/9/2018
Left in place	5 tons 1,021 tons	Residual TPH 0 - 7 feet bgs Residual TPH 7 - 100 feet bgs	3/9/2018

Maximum Documented Contaminant Concentrations--Before and After Cleanup

Contaminant	Soil (mg/kg)		Water (µg/L)[3]		Soil Vapor (ug/m³)	
	Before	After	Before	After	Before	After
TPH (Gas)	71,000	6,400	8,800	210	5,400,000	3,000,000
TPH C5-C8) Aliphatic	--	--	--	--	4,700,000J	8,9000,000
TPH (C6-C8) aromatic	--	--	--	--	150,000	2,400,000
TPH (C9-C10) aromatic	--	--	--	--	19,000	30,000
TPH (C9-C12) aliphatic	--	--	--	--	2,000,000J	2,400,000
TPH (Diesel)	48,000	32,000[1]	38,000[2]	38,000[2]	--	--
TPH (Diesel) Silica Gel Cleanup	--	--	7,300[2]	7,300[2]	--	--
TPH (Motor Oil)	94,000	35,000[1]	19,000[2]	11,000[2]	--	--
TPH (Motor Oil) Silica Gel Cleanup	--	--	4,500[2]	4,500[2]	--	--
Benzene	14	6.4	70	8.7[2]	100,000	170,000
Toluene	160	18	230	2.2[2]	22,000	28,000
Ethylbenzene	760	18	76	0.76[2]	21,000	62,000
Total Xylenes	940	55	360	0.67[2]	27,000[5]	140,000[5]
o-Xylene	--	--	--	--	9,600	21,000
Other VOCs[4]	<ARC[4]	<ARC[4]	<ARC[4]	<ARC	<ARC	<ARC[4]
SVOCs[4]	--	--	--	--	--	--
Metals	<ARC	--	<ARC[4]	--	--	--
Lead	26	--	4.2J	--	--	--
Dioxins[6]	128,000[7]	--	--	--	--	--
PAHs	18	<ARC[4]	<0.12	--	--	--

Comments: -- = not analyzed ; <ARC = Less than Applicable Regulatory Criteria, TPH = Total Petroleum Hydrocarbons. 1: After cleanup, TPH concentrations in soil >=7 feet deep 2: Deep perched zone groundwater sample result, regional aquifer TPHg = <50ug/L; TPHd = <48 ug/L; TPHo = 48J ug/L, BTEX = <0.50ug/L 3: Groundwater case closed and monitoring wells destroyed prior to completion of soil remediation activities. Before results are highest results from 2004-2016, after are from 2016. 4: Refer to data tables for specific constituents, 1,2,4- Trimethylbenzene = 260 mg/kg; 1,3,5- Trimethylbenzene = 80 mg/kg; n-Butylbenzene = 67 mg/kg; n-propylbenzene = 100 mg/kg; sec-Butylbenzene = 67 mg/kg; Naphthalene = 21 mg/kg (before), 18 mg/kg (after); Benzo(a) pyrene = 0.053mg/kg; EDC up to 3.7 ug/L, Antimony = 8.8 Jug/L, Cadmium 5.7 ug/L, and Molybdenum 13 ug/L 5: m&p- Xylenes 6: Results in picograms per gram (pg/g) 7: Octa CDD, see tables for complete results

CASE CLOSURE SUMMARY
Site Mitigation Unit

VI. Closure

Does completed corrective action protect existing beneficial uses per the RB Basin Plan? Yes		
Does completed corrective action protect potential beneficial uses per the RB Basin Plan? Yes		
Does corrective action protect public health for current land use? Yes		
Site Management Requirements: Adherence to Land Use Covenant dated December 21, 2018 (document 2018-0054080) and Soil Management Plan dated December 2018.		
Should corrective action be reviewed if land use changes? Yes		
Vapor Wells Decommissioned? Yes	Number Decommissioned: 25	Number Retained: 0
Monitoring Wells Decommissioned? Yes	Number Decommissioned: 19	Number Retained: 0
List enforcement actions taken: None		
List enforcement actions rescinded: None		

VII. Local Agency Representative Data

Agency Name: Environmental Health Services Santa Barbara County Public Health Department	Address: 2125 South Centerpointe Parkway, Room 333
City/State/Zip: Santa Maria, CA 93455	Phone: (805) 346-8345
Responsible Staff Person: Tom Rejzek, P.G., C.Hg	Title: Professional Geologist

VIII. Additional Comments

The former Orcutt Refinery site currently encompasses an approximately 19.8 acre parcel referred to as 1550 West Stowell Road (APN 117-820-015), and an approximately 4.2 acre parcel located to the east referred to as 1480 West Stowell Road (APN 117-240-019). This NFA package is specific to the 1550 West Stowell Road parcel. The site was used as an oil refinery between approximately 1939 and 1963 and produced petroleum products, which consisted primarily of mid to high molecular weight total petroleum hydrocarbons (TPH) that included aviation fuel, asphalt oils, paving oils, and asphalt emulsions that were used primarily for roads, roofing, and building materials. Historical refinery operations impacted soil and groundwater at the project site.

Site assessment activities took place from 2002 to 2018, with remediation occurring in 2014 and 2017-2018. Between May 2014 and October 2014, Stantec provided oversight of soil remediation activities at 1550 W. Stowell road. Approximately 52,000 cubic yards (76,500 tons) of TPH-containing soil was removed from the property at depths ranging from 0.5 feet to 17 feet below ground surface (bgs) from eight areas. The groundwater case was closed in 2016 and all of the on-site groundwater monitoring wells were subsequently destroyed. Additional soil remediation was required by EHS and in 2017 and an additional 29,500 cubic yards (39,900 tons) TPH-containing soil was removed from the property from depths ranging up to 13′ bgs from 16 areas across the site and transported offsite for disposal. Padre estimated that approximately 1,162 tons of residual TPH (>100 mg/kg) are left in place in subsurface soil, primarily >7′ bgs at the site.

Given that the final verification samples for soil collected up to 7 feet bgs were less than the site-specific cleanup goal/commercial ESLs (1000mg/kg TPH), Padre recommended NFA designation with the understanding that a deed restriction for commercial/industrial land use and groundwater restrictions would be required.

On-site backfill material utilized at the project site consisted of in-situ sandy soil (previous backfill placed during 2014 remediation activities) which was excavated from the western area of the site, and clean overburden soil generated during remedial excavation activities. Imported backfill material consisted of soil excavated as part of a road construction project at Los Flores Ranch. Prior to backfill material being utilized at the site, it was analyzed in accordance with California Department of Toxic Substances Control protocol.

Soil vapor samples were collected in February-June 2013, November 2014 and March 2016. Several Human Health Risk Assessments were prepared for the site to evaluate estimated future commercial indoor cancer risks and noncancer hazards. Soil gas was re-evaluated by Intrinsik in 2018 to address the concern with respect to the former above-ground storage tank area in the northeast corner of the site AOC2 where significant light end contamination remained at 7' bgs. Since after 2013 soil in this area was excavated to between 3 and 7' bgs and backfilled with imported material, the BioVapor model was used as opposed to the Johnson and Ettinger model. Use of the BioVapor model is consistent with current USEPA vapor intrusion guidelines for petroleum sites that recommend inclusion of a biodegradation component in the attenuation factor. The re-evaluation of soil vapor samples concluded that for all seven boring/depth/sampling event scenarios evaluated, estimated future commercial indoor cancer risks and noncancer hazards are well below the low end of the USEPA risk management range of 1E-06 and USEPA level of concern of 1.0. Therefore, post-excavation soil gas sampling was considered to be unwarranted.

A Land Use Covenant (Document #2018-0054080) was recorded on the parcel on December 21, 2019. The LUC restricted that parcel to Commercial land use and prohibited the use of groundwater on beneath the site.

IX. Regional Board Certification

Signature of Executive Officer: Approved via email from Thea Tryon	Date: July 8, 2016

X. Local Agency Representative Data

Name: **Paul McCaw**	Title: Hazardous Materials Supervisor
Signature:	Date: 3/1/2019
Name: **Tom Rejzek**	Title: Professional Geologist
Signature: 3/1/2019	Date: PROFESSIONAL GEOLOGIST · Thomas Martin Rejzek No. 6461 · STATE OF CALIFORNIA 6/20 PROFESSIONAL GEOLOGIST · THOMAS MARTIN REJZEK No. 601 · CERTIFIED HYDRO GEOLOGIST · STATE OF CALIFORNIA 6/20

XI. Additional Information (to be attached to this report if appropriate)

1. Listing of Reports

2. Extent of Soil Contamination

a) Maps and cross sections showing the extent of soil degradation by chemicals of concern in excess of guidelines, before and after remediation.

b) Geologic logs with degraded soils. All soil boring and monitoring wells showing sample points with a list of contaminant concentrations.

c) Summary table of all historic soil sampling results.

3. Extent of Groundwater Contamination

a) Maps and cross sections showing the extent of groundwater degradation in excess of detection limits for chemicals of concern, before and after remediation.

b) Geologic logs, including construction details, for all wells.

c) Representative geologic log identifying all water bodies (e.g., surface, perched and water table).

d) Two intersecting cross-sections of the site.

e) Summary table of all historic ground water analyses (including detection levels) and water levels.

LIST OF REPORTS

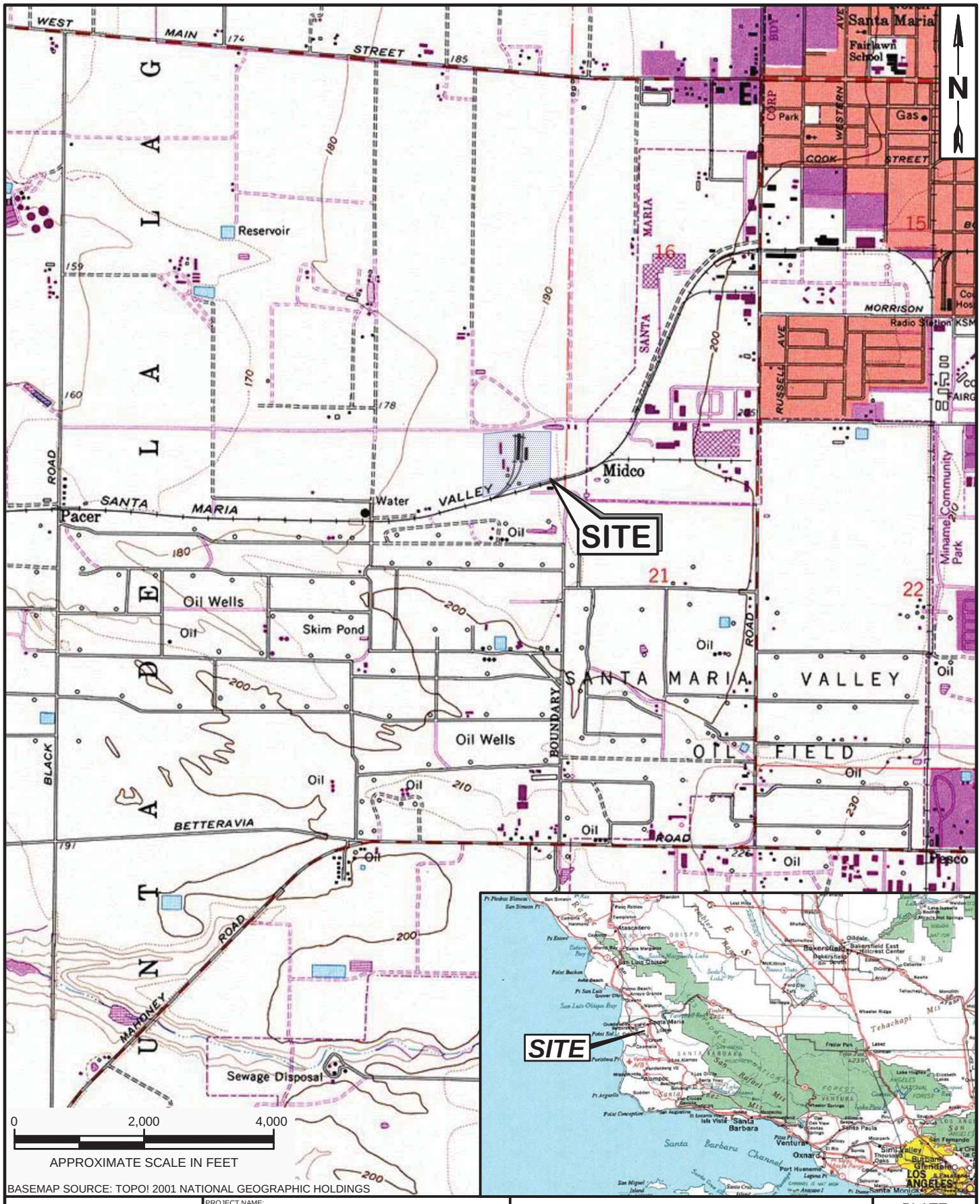
List of Reports
1550 West Stowell Road, Santa Maria, SMU #20167

Date	Author	Title
12/7/2018	Union Oil Company of California	Land Use Covenant
12/1/2018	EnviroManagement, Inc. (EMI)	Soil Management Plan
8/9/2018	Intrinsik	Summary of Orcutt post-Baseline HHRA Remedial Activities and Health Risk Evaluations and Re-Evaluation of Historic Soil Gas Data at AOC 2
5/2/2018	Padre Associates, Inc.	Supplemental Site Closure Report, Former Orcutt Refinery
3/27/2018	Padre Associates, Inc.	Limited Asbestos Survey: Pipeline Stockpile and AOC-4 Excavation Area
2/28/2018	Padre Associates, Inc.	Naturally Occurring Radioactive Material Survey Report, Excavated Pipeline Secments, Former Orcutt Refinery
12/8/2017	Padre Associates, Inc.	Limited Asbestos Survey: AOC 4 Excavation, Former Orcutt Refinery
9/1/2017	Padre Associates, Inc.	Supplemental Remedial Action Plan, Former Orcutt Refinery
4/28/2017	Padre Associates, Inc.	Proposed Soil Remediation Strategy, Former Orcutt Refinery
2/7/2017	Padre Associates, Inc.	Groundwater Monitoring Well Destruction Activities, Former Orcutt Refinery
5/13/2016	Intrinsik	Updated Post-Remediation Vapor Intrusion Health Risk Evaluation
4/12/2016	Padre Associates, Inc.	First Quarter 2016 Groundwater Monitoring Event
3/4/2016	Stantec Consulting Services, Inc.	Residual Hydrocarbon Mass Calculations
10/1/2015	Padre Associates, Inc.	Third Quarter 2015 Groundwater Monitoring Event
7/1/2015	Padre Associates, Inc.	Second Quarter 2015 Groundwater Monitoring Event
4/6/2015	Padre Associates, Inc.	First Quarter 2015 Groundwater Monitoring Event
3/27/2015	Stantec Consulting Services, Inc.	Site Restoration Report and Request for Case Closure for Soil
3/25/2015	McDaniel Lambert, Inc.	Post-Remediation Vapor Intrusion Health Risk Evaluation, Former Orcutt Refinery
2/4/2015	Padre Associates, Inc.	Report of Findings, Construction of Groundwater Monitoring Well MW-19
11/18/2014	Stantec Consulting Services, Inc.	Results of Offsite Soil Assessment
10/7/2014	Stantec Consulting Services, Inc.	Soil Gas Assessment Work Plan Addendum
7/7/2014	Padre Associates, Inc.	Second Quarter 2014 Groundwater Monitoring Event
6/11/2014	Stantec Consulting Services, Inc.	Email- Former Orcutt Refinery: 1550 W. Stowell Road - Work Plan Amendment for Offsite Assessment
4/8/2014	Padre Associates, Inc.	First Quarter 2014 Groundwater Monitoirng Event
12/20/2013	Padre Associates, Inc.	Fourth Quarter 2013 Groundwater Monitoring Event
11/25/2013	Padre Associates, Inc.	Technical Work Plan, Supplemental Groundwater Assessment
11/6/2013	Stantec Consulting Services, Inc.	Remedial Action Plan, Former Orcutt Refinery
9/24/2013	McDaniel Lambert, Inc.	Human Health Risk Assessment
9/23/2013	Padre Associates, Inc.	Third Quarter 2013 Groundwater Monitoring Event
8/29/2013	Padre Associates, Inc.	Construction of Groundwater Monitoring Wells MW-12 through MW-18
7/11/2013	Padre Associates, Inc.	Second Quarter 2013 Groundwater Monitoring Event

5/3/2013	Padre Associates, Inc.	Letter-Report, Assessment of Water Supply Well W-1, Former Orcutt Refinery, 1480 and 1550 West Stowell Road, Santa Maria, Santa Barbara County, California
4/10/2013	Padre Associates, Inc.	First Quarter 2013 Groundwater Monitoring Event
3/5/2013	Padre Associates, Inc.	TECHNICAL WORK PLAN, ADDITIONAL GROUNDWATER ASSESSMENT ACTIVITIES
1/17/2013	Stantec Consulting Services, Inc.	Work Plan for Additional Site Soil nd Soil Gas Assessment
1/15/2013	Stantec Consulting Services, Inc.	Second Half 2012 Groundwater Monitoring and Status Report
12/21/2012	Stantec Consulting Services, Inc.	Results of Site Assessment Report for Soil, Former Orcutt Refinery
9/28/2012	Stantec Consulting Services, Inc.	Soil Site Assessment Figure Revisions
9/4/2012	Stantec Consulting Services, Inc.	First Half 2012 Groundwater Monitoring and Status Report
8/24/2012	Stantec Consulting Services, Inc.	Reuislts of Site Assessment Report for Soil
1/18/2012	Stantec Consulting Services, Inc.	Revised Monitoring Well Abandonment Work Plan Addendum
12/23/2011	Stantec Consulting Services, Inc.	Revised Monitoring Well Abandonment Work Plan Addendum
11/30/2011	Stantec Consulting Services, Inc.	Monitoring Well Abandonment Work Plan Addendum Clarification
11/1/2011	Stantec Consulting Services, Inc.	Monitoring Well Abandonment Work Plan Addendum
9/20/2011	Stantec Consulting Services, Inc.	Monitoring Well Abandonment Feasibility Study and Work Plan
4/28/2011	Stantec Consulting Services, Inc.	Revised WORK PLAN FOR SOIL SITE ASSESSMENT
2/9/2011	Stantec Consulting Services, Inc.	WORK PLAN FOR SOIL SITE ASSESSMENT
1/12/2011	Stantec Consulting Services, Inc.	WORK PLAN FOR SOIL SITE ASSESSMENT
3/25/2010	URS Corporation	Supplemental Site Assessment Report Quadrants A and B, Former Orcutt Refinery
3/4/2010	McDaniel Lambert, Inc.	Former Orcutt Refinery, Orcutt, CA - Dioxin Sampling for Human Health Risk Assessment Activities
10/22/2008	URS Corporation	Former Orcutt Refinery Quadrants A and B Assessment Work Plan, Response to Santa Barbara County Fire Department, Fire Prevention Division Comments Dated October 21, 2008
10/15/2008	URS Corporation	Groundwater Monitorign Well Destruction Report (MW-3 and MW-8)
10/15/2008	URS Corporation	Proposed Lopes import Borrow Soil
9/26/2008	URS Corporation	Former Orcutt Refinery Quadrants A and B Assessment Work Plan
5/15/2008	URS Corporation	Former Orcutt Refinery Area of Concern 7 (AOC 7) Site Assessment Work Plan
5/1/2008	URS Corporation	Supplemental Site Assessment Report and Remedial Action Plan Area of Concern 1
4/28/2008	URS Corporation	Former Orcutt Refinery Well Destruction Work Plan
4/8/2008	URS Corporation	First Quarter 2008 Groundwater Monitoring Report
1/15/2008	URS Corporation	Fourth Quarter 2007 Groundwater Monitoring Report
9/14/2007	Parsons	Third Quarter 2007 Groundwater Monitoring Report
5/18/2007	Parsons	First Semi-Annual 2007 Groundwater Monitoring Report
1/15/2007	URS Corporation	Fourth Quarter 2007 Groundwater Monitoring Report

12/27/2006	Parsons	Semi-Annual Groundwater Monitoring Report Second Half 2006
8/3/2006	Parsons	Remedial Investigation Work Plan
9/9/2005	ENSR International	Groundwater Monitoring Report
11/2/2004	Rincon Consultants, Inc.	Asphalt and Slop Pit Assessment and Site Restoration Plan
10/15/2004	Rincon Consultants, Inc.	Quarterly Groundwater Monitoring Report Third Quarter 2004
10/1/2004	Rincon Consultants, Inc.	Groundwatere Monitoring Well Installation and Assessment
4/29/2004	Rincon Consultants, Inc.	Groundwater Monitoring Well Installation and Assessment
3/17/2004	Rincon Consultants, Inc.	Soil and Groundwater Assessment
11/7/2003	Rincon Consultants, Inc.	Site Safety Plan
10/9/2002	SECOR International, Inc.	Phase I Environemntal Site Assessment Report
9/13/2002	SECOR International, Inc.	Results of Limited Phase II Environemental Site Assessment

SITE MAPS



BASEMAP SOURCE: TOPO! 2001 NATIONAL GEOGRAPHIC HOLDINGS

padre associates, inc.
ENGINEERS, GEOLOGISTS & ENVIRONMENTAL SCIENTISTS

PROJECT NAME: Former Orcutt Refinery
1550 & 1480 West Stowell Road
Santa Barbara County
Santa Maria, California

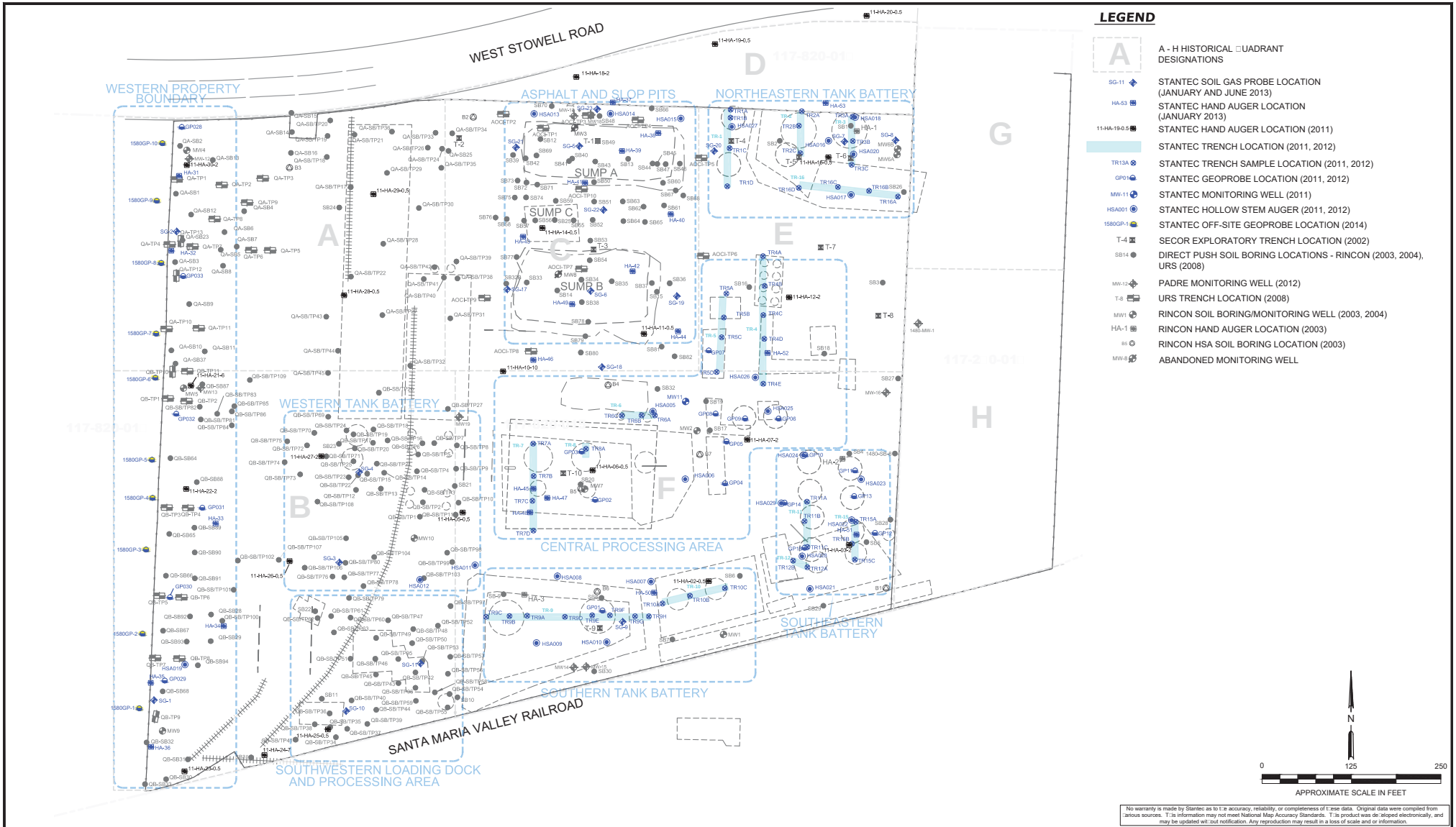
PROJECT NUMBER: 1001-1537

DATE: April 2016

SITE LOCATION MAP

PLATE 1

Z:\Current Projects\0000-0000 CAD MASTER DRAWINGS\GWM Reports\Orcutt Refinery\SITE LOCATION MAP.dwg, 4/5/2016 10:06:06 AM



LEGEND

- A - H HISTORICAL QUADRANT DESIGNATIONS
- SG-11 — STANTEC SOIL GAS PROBE LOCATION (JANUARY AND JUNE 2013)
- HA-53 — STANTEC HAND AUGER LOCATION (JANUARY 2013)
- 11-HA-19-0.5 — STANTEC HAND AUGER LOCATION (2011)
- STANTEC TRENCH LOCATION (2011, 2012)
- TR13A — STANTEC TRENCH SAMPLE LOCATION (2011, 2012)
- GP01 — STANTEC GEOPROBE LOCATION (2011, 2012)
- MW-11 — STANTEC MONITORING WELL (2011)
- HSA001 — STANTEC HOLLOW STEM AUGER (2011, 2012)
- 1580GP-1 — STANTEC OFF-SITE GEOPROBE LOCATION (2014)
- T-4 — SECOR EXPLORATORY TRENCH LOCATION (2002)
- SB14 — DIRECT PUSH SOIL BORING LOCATIONS - RINCON (2003, 2004), URS (2008)
- MW-12 — PADRE MONITORING WELL (2012)
- T-8 — URS TRENCH LOCATION (2008)
- MW1 — RINCON SOIL BORING/MONITORING WELL (2003, 2004)
- HA-1 — RINCON HAND AUGER LOCATION (2003)
- BS — RINCON HSA SOIL BORING LOCATION (2003)
- MW-8 — ABANDONED MONITORING WELL

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Stantec
3437 EMPRESA DR. SUITE A
SAN LUIS OBISPO, CALIFORNIA
PHONE:(805) 546-0455 FAX:(805) 546-0583

FOR:
FORMER ORCUTT REFINERY
1550 WEST STOWELL ROAD
SANTA MARIA, CALIFORNIA

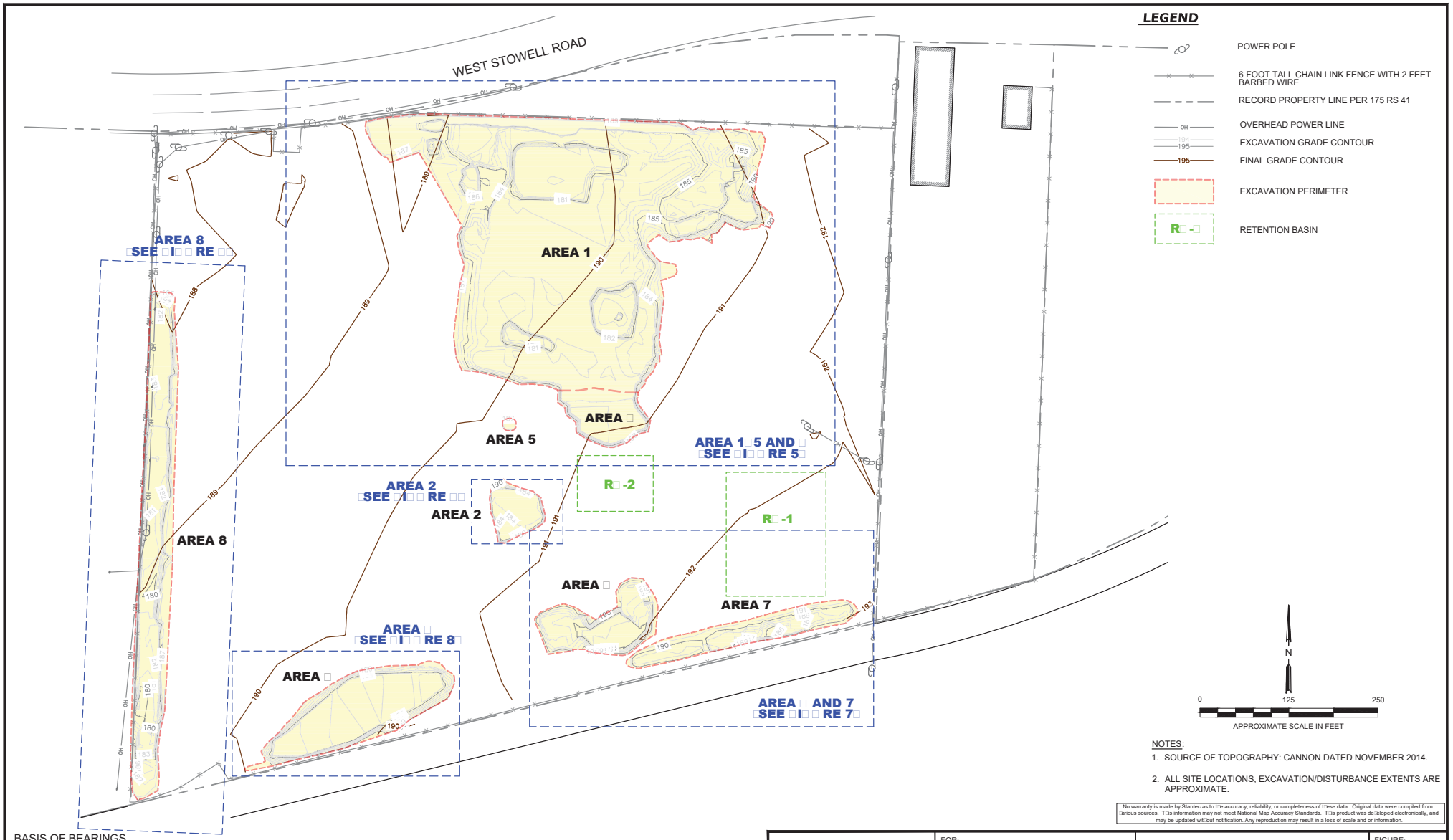
HISTORICAL SOIL SAMPLE LOCATIONS

FIGURE: 3

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
211802642	J. LIEBERMAN	R. DONALD	T. PORTER	01/06/15

FILEPATH:P:\Cad 2003\C□e□ron\Orcutt Refinery\2014\Historical-Site-Map.dwg jlieberman Mar 24, 2015 at 13:37 Layout: Site Map

2014 Excavation Areas



NOTES:

1. SOURCE OF TOPOGRAPHY: CANNON DATED NOVEMBER 2014.
2. ALL SITE LOCATIONS, EXCAVATION/DISTURBANCE EXTENTS ARE APPROXIMATE.

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BASIS OF BEARINGS

COORDINATES FOR THIS PROJECT ARE CALIFORNIA COORDINATE SYSTEM NAD83, ZONE 5, EPOCH DATE: 1991.35, US SURVEY FEET, AS DETERMINED BY GPS OBSERVATIONS CONSTRAINED TO POINT 1004 AS SHOWN ON THE RECORD OF SURVEY MAP FILED IN BOOK 147, PAGE 57 OF RECORD OF SURVEYS.

VERTICAL DATUM

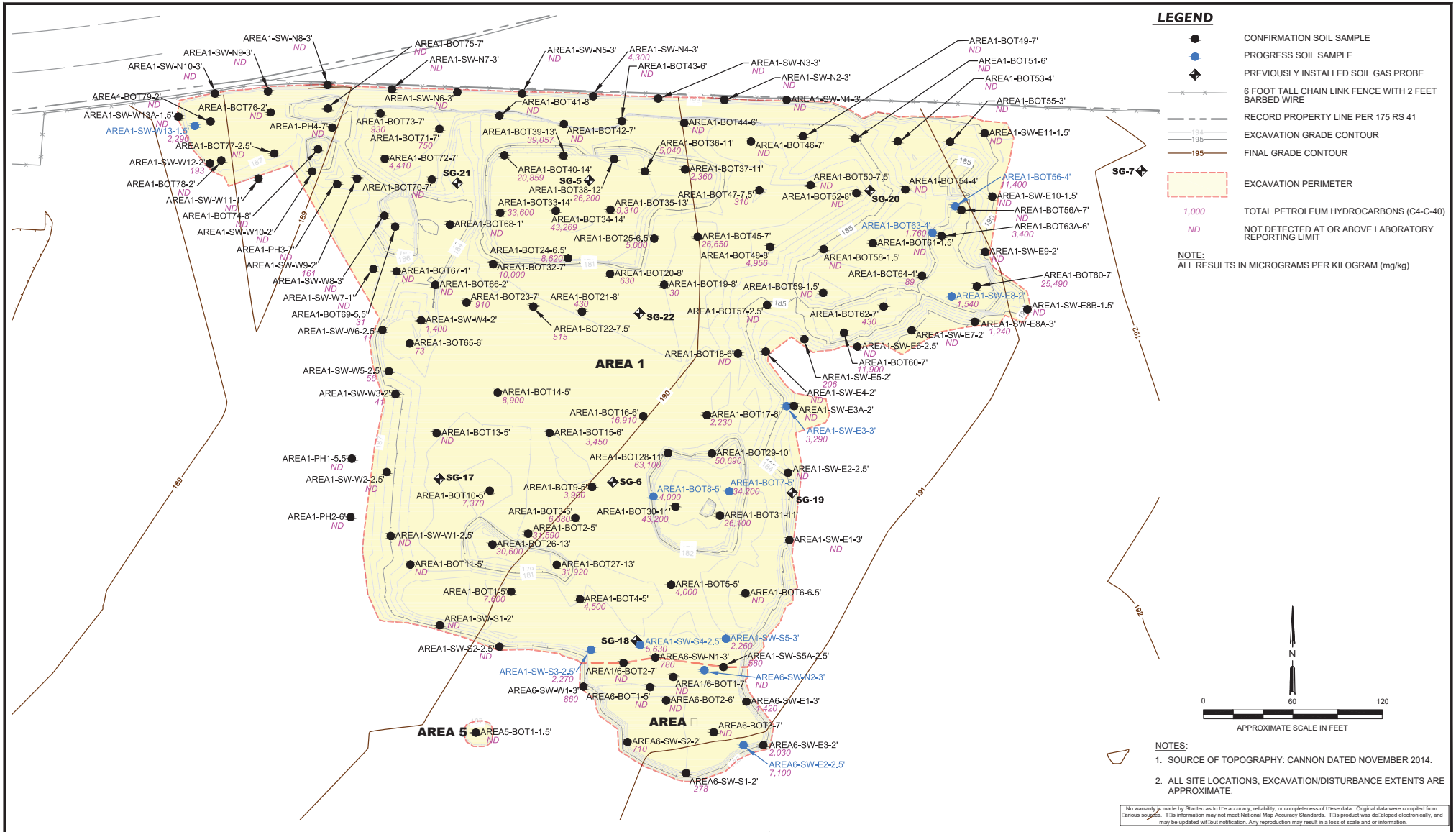
THE ELEVATIONS SHOWN HEREON ARE NAVD88 AS DETERMINED BY GPS OBSERVATIONS ON POINT 1004 AS SHOWN ON THE RECORD OF SURVEY MAP FILED IN BOOK 147, PAGE 57 OF RECORD OF SURVEYS.

Stantec
3437 EMPRESA DR. SUITE A
SAN LUIS OBISPO, CALIFORNIA
PHONE: (805) 546-0455 FAX: (805) 546-0583

FOR:		FIGURE:
FORMER ORCUTT REFINERY 1550 WEST STOWELL ROAD SANTA MARIA, CALIFORNIA	EXCAVATION AREAS AND SURVEYED ELEVATIONS	4

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
211802642	J. LIEBERMAN	R. DONALD	T. PORTER	01/06/15

FILEPATH:P:\Cad 2003\C□e□ron\Orcutt Refinery\2014\Progression-Map□12-2014.dwg jlieberman Mar 23, 2015 at 15:17 Layout: Layout1



BASIS OF BEARINGS

COORDINATES FOR THIS PROJECT ARE CALIFORNIA COORDINATE SYSTEM NAD83, ZONE 5, EPOCH DATE: 1991.35, US SURVEY FEET, AS DETERMINED BY GPS OBSERVATIONS CONSTRAINED TO POINT 1004 AS SHOWN ON THE RECORD OF SURVEY MAP FILED IN BOOK 147, PAGE 57 OF RECORD OF SURVEYS.

VERTICAL DATUM

THE ELEVATIONS SHOWN HEREON ARE NAVD88 AS DETERMINED BY GPS OBSERVATIONS ON POINT 1004 AS SHOWN ON THE RECORD OF SURVEY MAP FILED IN BOOK 147, PAGE 57 OF RECORD OF SURVEYS.

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PHONE:(805) 546-0455 FAX:(805) 546-0583

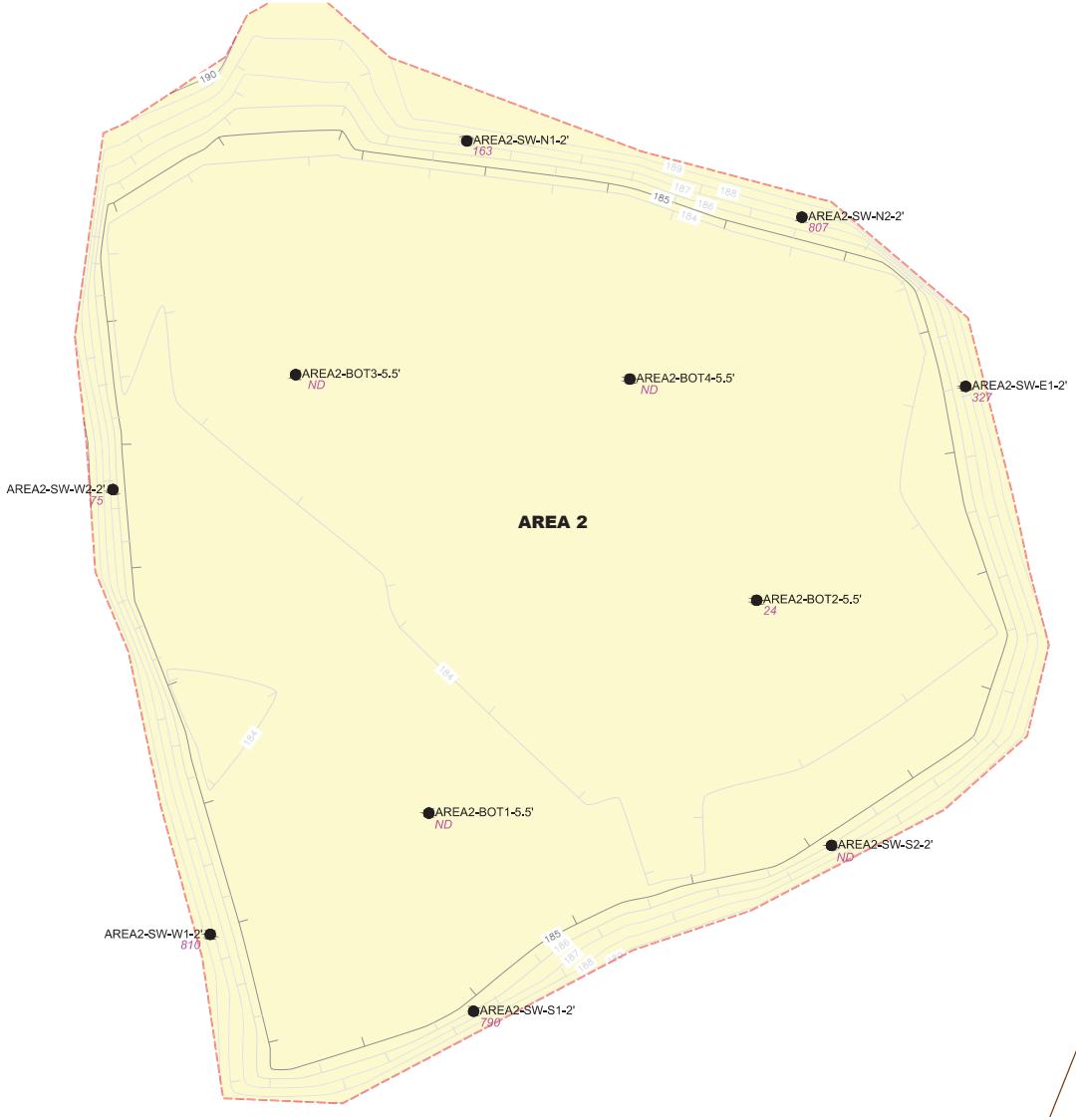
FOR:
FORMER ORCUTT REFINERY
1550 WEST STOWELL ROAD
SANTA MARIA, CALIFORNIA

AREAS 1, 5 AND 6
SOIL TPH CONCENTRATIONS
AND SURVEYED ELEVATIONS

FIGURE: 5

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
211802642	J. LIEBERMAN	R. DONALD	T. PORTER	01/06/15

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LEGEND

- CONFIRMATION SOIL SAMPLE
- PROGRESS SOIL SAMPLE
- 6 FOOT TALL CHAIN LINK FENCE WITH 2 FEET BARBED WIRE
- RECORD PROPERTY LINE PER 175 RS 41
- EXCAVATION GRADE CONTOUR
- FINAL GRADE CONTOUR
- EXCAVATION PERIMETER
- 1,000 — TOTAL PETROLEUM HYDROCARBONS (C4-C-40)
- ND — NOT DETECTED AT OR ABOVE LABORATORY REPORTING LIMIT

NOTE:
ALL RESULTS IN MICROGRAMS PER KILOGRAM (mg/kg)

N

0 10 20

APPROXIMATE SCALE IN FEET

NOTES:

1. SOURCE OF TOPOGRAPHY: CANNON DATED NOVEMBER 2014.
2. ALL SITE LOCATIONS, EXCAVATION/DISTURBANCE EXTENTS ARE APPROXIMATE.

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VERTICAL DATUM

THE ELEVATIONS SHOWN HEREON ARE NAVD88 AS DETERMINED BY GPS OBSERVATIONS ON POINT 1004 AS SHOWN ON THE RECORD OF SURVEY MAP FILED IN BOOK 147, PAGE 57 OF RECORD OF SURVEYS.

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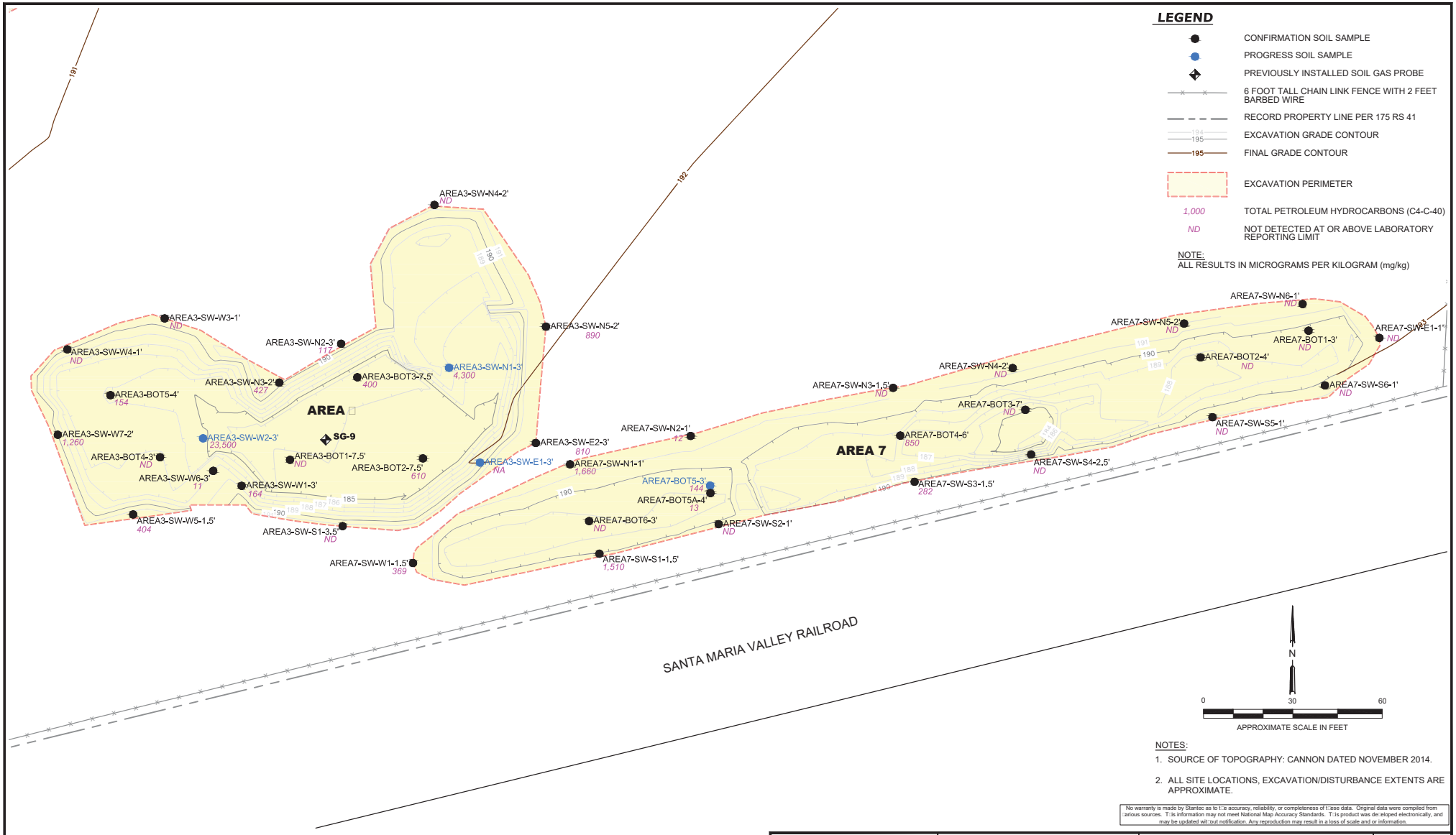
FOR:
FORMER ORCUTT REFINERY
1550 WEST STOWELL ROAD
SANTA MARIA, CALIFORNIA

AREA 2
SOIL TPH CONCENTRATIONS
AND SURVEYED ELEVATIONS

FIGURE: 6

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
211802642	J. LIEBERMAN	R. DONALD	T. PORTER	01/06/15

FILEPATH:P:\Cad 2003\C□e□ron\Orcutt Refinery\2014\Progression-Map□12-2014.dwg□lieberman□Mar 23, 2015 at 15:21□Layout: AREA-2



NOTES:

1. SOURCE OF TOPOGRAPHY: CANNON DATED NOVEMBER 2014.
2. ALL SITE LOCATIONS, EXCAVATION/DISTURBANCE EXTENTS ARE APPROXIMATE.

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VERTICAL DATUM

THE ELEVATIONS SHOWN HEREON ARE NAVD88 AS DETERMINED BY GPS OBSERVATIONS ON POINT 1004 AS SHOWN ON THE RECORD OF SURVEY MAP FILED IN BOOK 147, PAGE 57 OF RECORD OF SURVEYS.

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FOR:		AREAS 3 AND 7 SOIL TPH CONCENTRATIONS AND SURVEYED ELEVATIONS	FIGURE:
FORMER ORCUTT REFINERY 1550 WEST STOWELL ROAD SANTA MARIA, CALIFORNIA			7
JOB NUMBER: 211802642	DRAWN BY: J. LIEBERMAN	CHECKED BY: R. DONALD	APPROVED BY: T. PORTER	DATE: 01/06/15

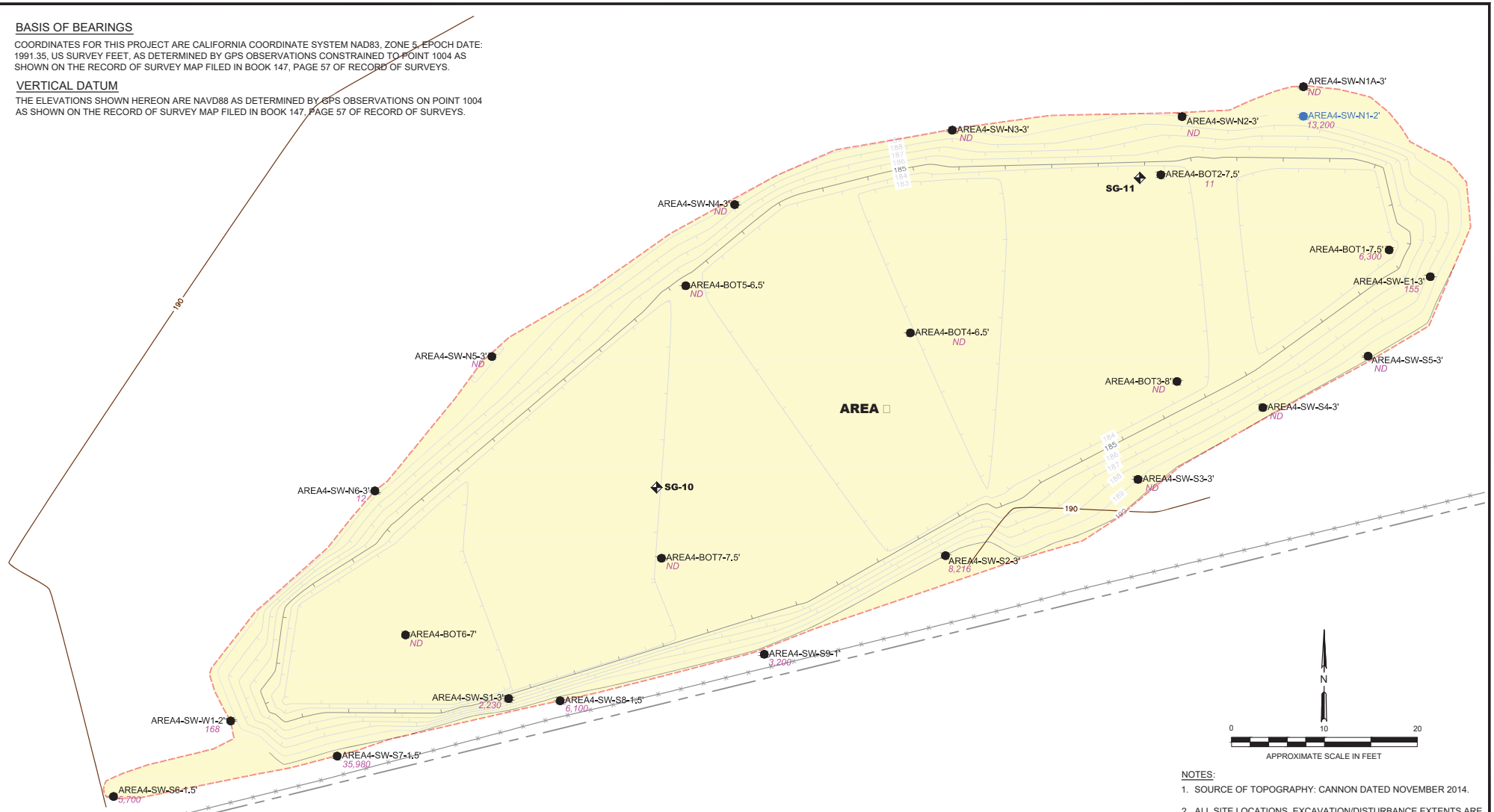
FILEPATH:P:\Cad 2003\C□e□ron\Orcutt Refinery\2014\Progression-Map□12-2014.dwg jlieberman Mar 25, 2015 at 8:40 Layout: AREA-3-7

BASIS OF BEARINGS

COORDINATES FOR THIS PROJECT ARE CALIFORNIA COORDINATE SYSTEM NAD83, ZONE 5, EPOCH DATE: 1991.35, US SURVEY FEET, AS DETERMINED BY GPS OBSERVATIONS CONSTRAINED TO POINT 1004 AS SHOWN ON THE RECORD OF SURVEY MAP FILED IN BOOK 147, PAGE 57 OF RECORD OF SURVEYS.

VERTICAL DATUM

THE ELEVATIONS SHOWN HEREON ARE NAVD88 AS DETERMINED BY GPS OBSERVATIONS ON POINT 1004 AS SHOWN ON THE RECORD OF SURVEY MAP FILED IN BOOK 147, PAGE 57 OF RECORD OF SURVEYS.



NOTES:

1. SOURCE OF TOPOGRAPHY: CANNON DATED NOVEMBER 2014.
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LEGEND

- CONFIRMATION SOIL SAMPLE
- PROGRESS SOIL SAMPLE
- PREVIOUSLY INSTALLED SOIL GAS PROBE
- 6 FOOT TALL CHAIN LINK FENCE WITH 2 FEET BARBED WIRE
- RECORD PROPERTY LINE PER 175 RS 41
- EXCAVATION GRADE CONTOUR
- FINAL GRADE CONTOUR
- EXCAVATION PERIMETER
- 1,000 — TOTAL PETROLEUM HYDROCARBONS (C4-C-40)
- ND — NOT DETECTED AT OR ABOVE LABORATORY REPORTING LIMIT

NOTE:
ALL RESULTS IN MICROGRAMS PER KILOGRAM (mg/kg)

Stantec
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FOR:
FORMER ORCUTT REFINERY
1550 WEST STOWELL ROAD
SANTA MARIA, CALIFORNIA

AREA 4
SOIL TPH CONCENTRATIONS
AND SURVEYED ELEVATIONS

FIGURE: 8

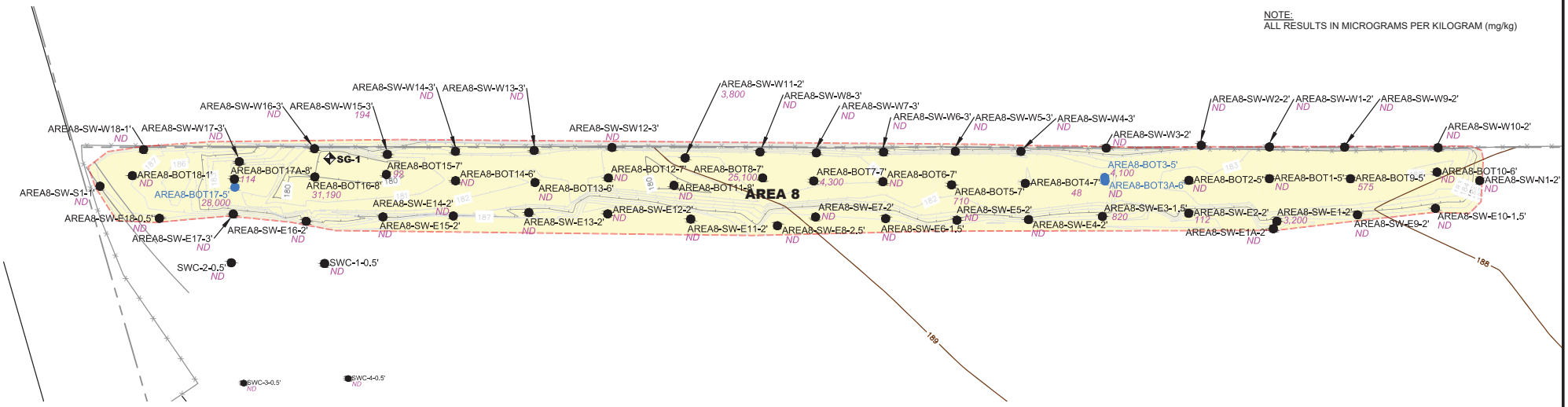
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211802642	J. LIEBERMAN	R. DONALD	T. PORTER	01/06/15

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LEGEND

- CONFIRMATION SOIL SAMPLE
- PROGRESS SOIL SAMPLE
- PREVIOUSLY INSTALLED SOIL GAS PROBE
- 6 FOOT TALL CHAIN LINK FENCE WITH 2 FEET BARBED WIRE
- RECORD PROPERTY LINE PER 175 RS 41
- EXCAVATION GRADE CONTOUR
- FINAL GRADE CONTOUR
- EXCAVATION PERIMETER
- 1,000 — TOTAL PETROLEUM HYDROCARBONS (C4-C-40)
- ND — NOT DETECTED AT OR ABOVE LABORATORY REPORTING LIMIT

NOTE:
ALL RESULTS IN MICROGRAMS PER KILOGRAM (mg/kg)



N

0 50 100

APPROXIMATE SCALE IN FEET

NOTES:

1. SOURCE OF TOPOGRAPHY: CANNON DATED NOVEMBER 2014.
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VERTICAL DATUM

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PHONE:(805) 546-0455 FAX:(805) 546-0583

FOR:
FORMER ORCUTT REFINERY
1550 WEST STOWELL ROAD
SANTA MARIA, CALIFORNIA

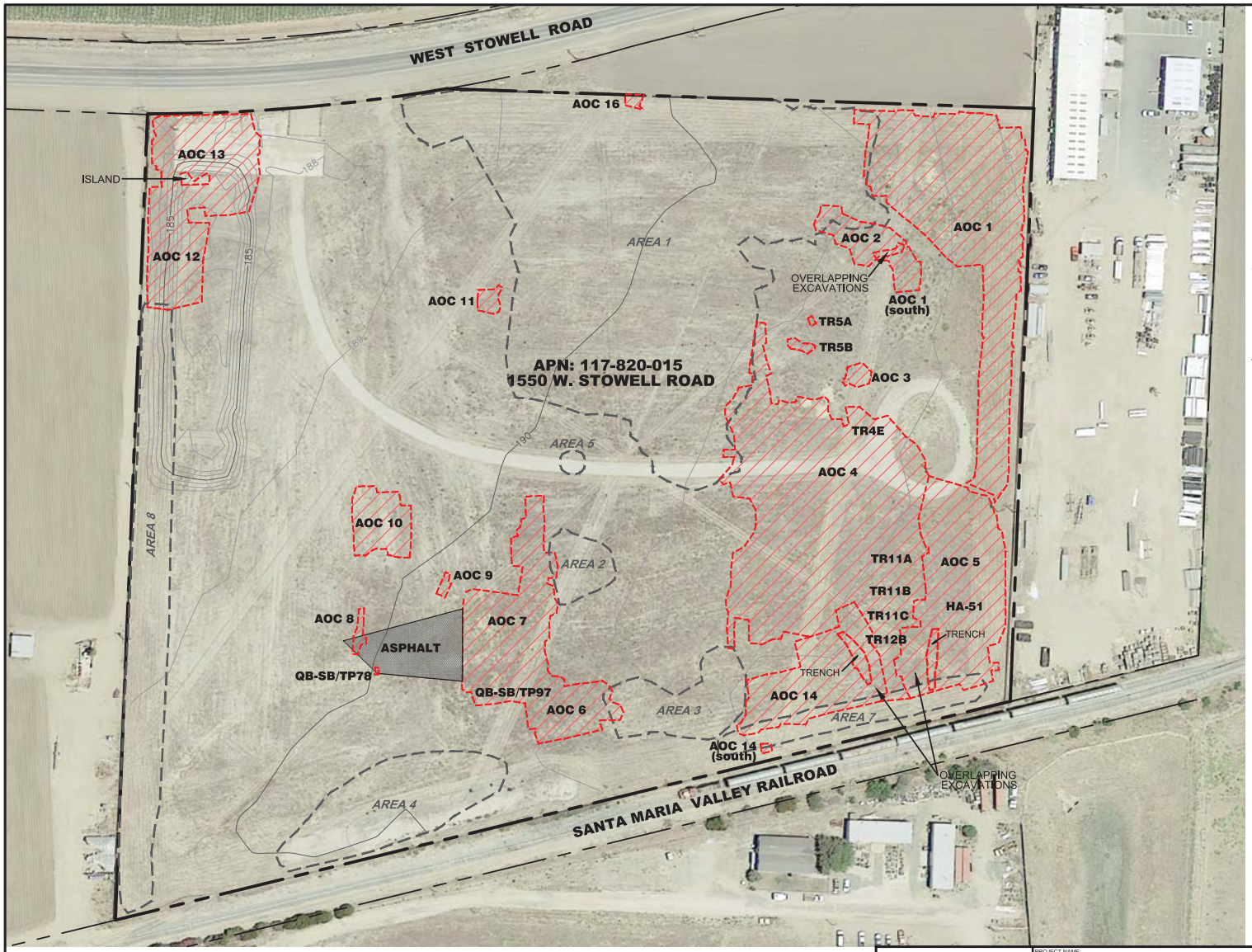
AREA 8
SOIL TPH CONCENTRATIONS
AND SURVEYED ELEVATIONS

FIGURE: 9

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
211802642	J. LIEBERMAN	R. DONALD	T. PORTER	01/06/15

FILEPATH:P:\Cad 2003\C□e□ron\Orcutt Refinery\2014\Progression-Map□12-2014.dwg]lieberman Mar 25, 2015 at 8:42 Layout: AREA-8

2017 Excavation Areas



LEGEND

- APN PROPERTY BOUNDARY
- APPROXIMATE EXTENT OF REMEDIAL EXCAVATION (PADRE 2017)
- APPROXIMATE EXTENT OF REMEDIAL EXCAVATION (STANTEC 2014)
- CONVENTIONAL ASPHALT LAYER LEFT IN-PLACE
- 190 POST EXCAVATION TOPOGRAPHIC CONTOUR LINE

N

NOTES:

1. BASE MAP PROVIDED BY STANTEC.
2. EXTENT OF REMEDIAL EXCAVATION AND VERIFICATION SAMPLE LOCATIONS WERE SURVEYED BY CANNON ENGINEERING ON FEBRUARY 5, 2018 AND MARCH 9, 2018.
3. TPH = TOTAL PETROLEUM HYDROCARBON
4. mg/kg = MILLIGRAMS PER KILOGRAM

0 120 240
SCALE IN FEET

padre associates, inc.
ENGINEERS, GEOLOGISTS & ENVIRONMENTAL SCIENTISTS

PROJECT NAME: Former Orcutt Refinery
1550 West Stowell Road
Santa Maria,
Santa Barbara County, California

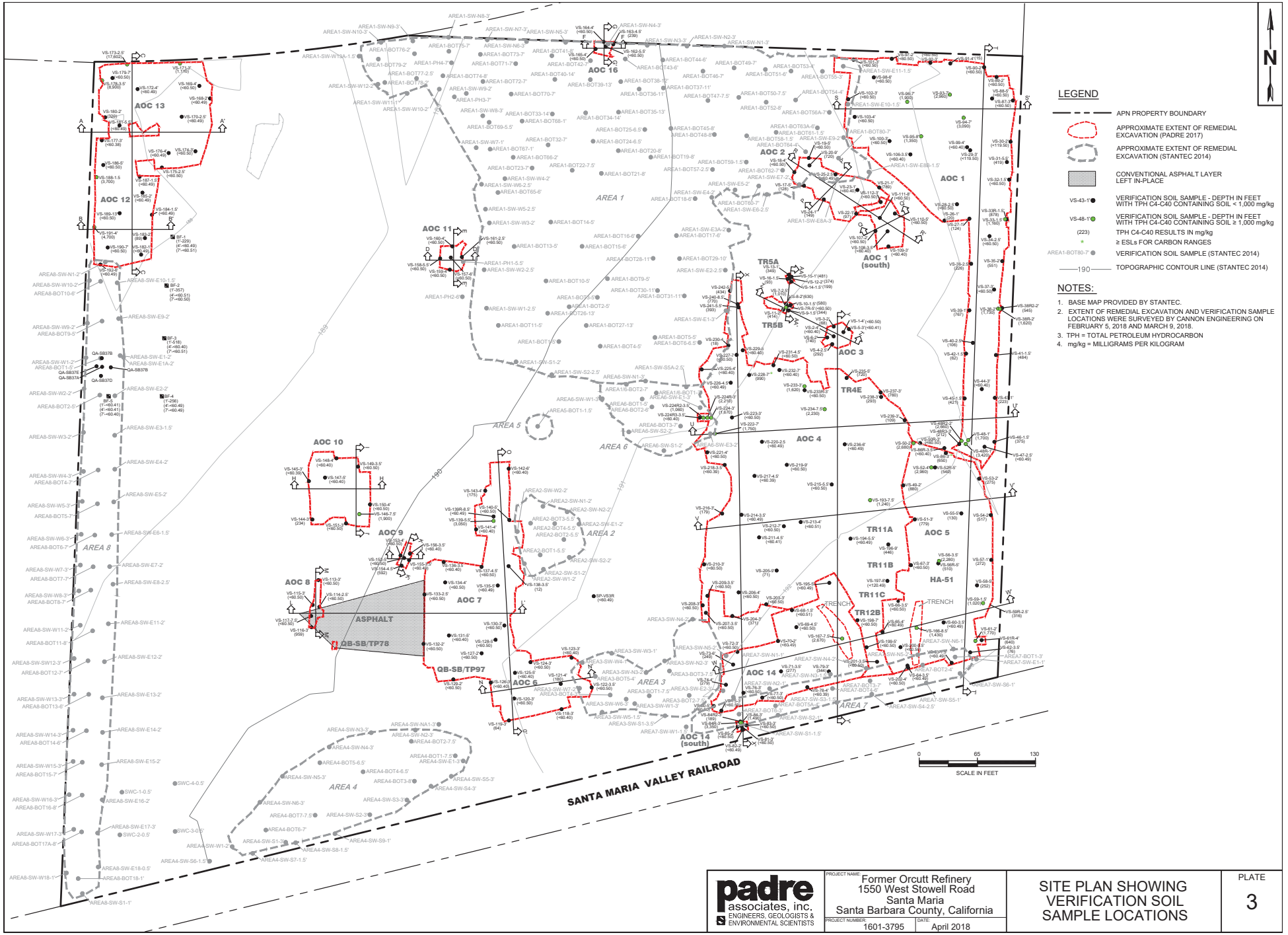
PROJECT NUMBER: 1601-3795

DATE: April 2018

SITE PLAN

PLATE 2

Z:\Current Projects\0000-0000 CAD MASTER DRAWINGS\Former Orcutt Refining\DRAWING\AS-BUILTS\ORCUTT REFINERY AS-BUILTS.dwg, 4/26/2018 3:15:40 PM



LEGEND

- APN PROPERTY BOUNDARY
- APPROXIMATE EXTENT OF REMEDIAL EXCAVATION (PADRE 2017)
- APPROXIMATE EXTENT OF REMEDIAL EXCAVATION (STANTEC 2014)
- CONVENTIONAL ASPHALT LAYER LEFT IN-PLACE
- VS-43-1' — VERIFICATION SOIL SAMPLE - DEPTH IN FEET WITH TPH C4-C40 CONTAINING SOIL < 1,000 mg/kg
- VS-48-1' — VERIFICATION SOIL SAMPLE - DEPTH IN FEET WITH TPH C4-C40 CONTAINING SOIL ≥ 1,000 mg/kg
- (223) — TPH C4-C40 RESULTS IN mg/kg
- * — ≥ ESLs FOR CARBON RANGES
- AREA1-BOT80-7' — VERIFICATION SOIL SAMPLE (STANTEC 2014)
- 190 — TOPOGRAPHIC CONTOUR LINE (STANTEC 2014)

NOTES:

1. BASE MAP PROVIDED BY STANTEC.
2. EXTENT OF REMEDIAL EXCAVATION AND VERIFICATION SAMPLE LOCATIONS WERE SURVEYED BY CANNON ENGINEERING ON FEBRUARY 5, 2018 AND MARCH 9, 2018.
3. TPH = TOTAL PETROLEUM HYDROCARBON
4. mg/kg = MILLIGRAMS PER KILOGRAM

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ENGINEERS, GEOLOGISTS & ENVIRONMENTAL SCIENTISTS

PROJECT NAME: Former Orcutt Refinery
1550 West Stowell Road
Santa Maria
Santa Barbara County, California

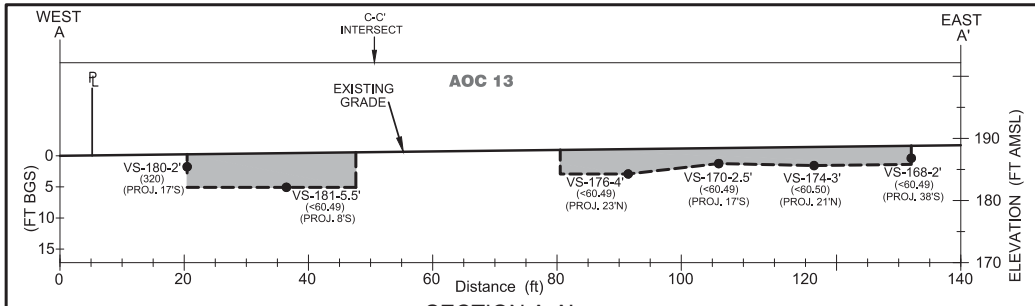
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DATE: April 2018

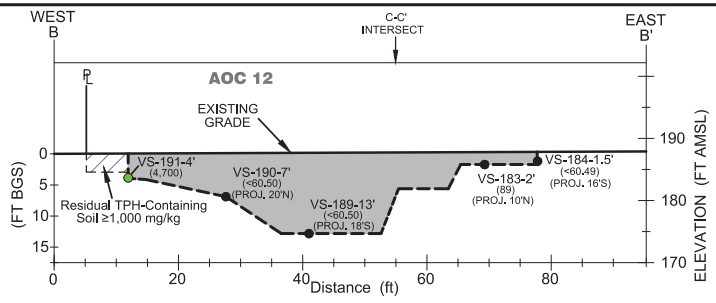
SITE PLAN SHOWING VERIFICATION SOIL SAMPLE LOCATIONS

PLATE 3

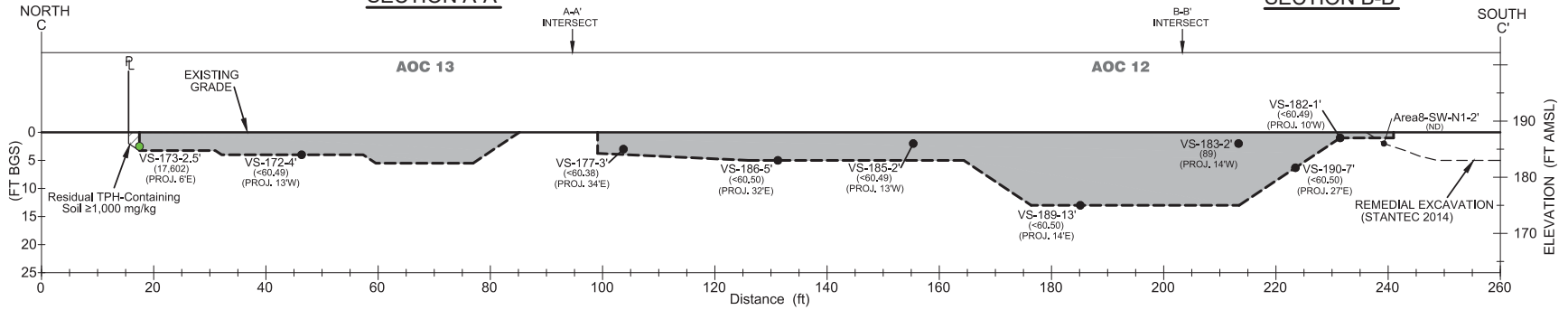
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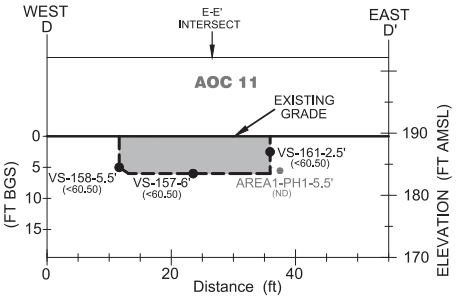
SECTION A-A'



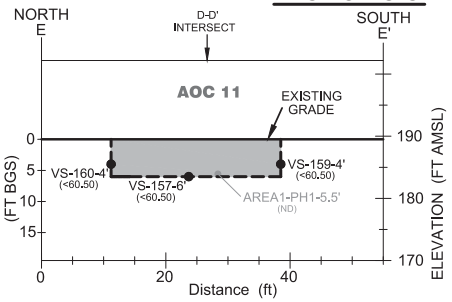
SECTION B-B'



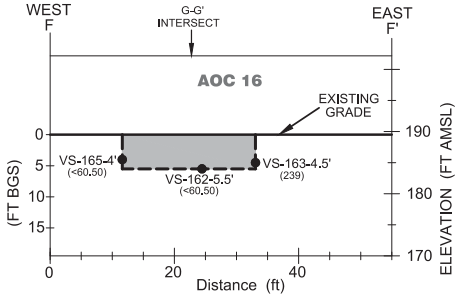
SECTION C-C'



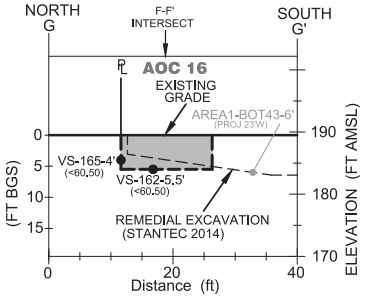
SECTION D-D'



SECTION E-E'



SECTION F-F'



SECTION G-G'

LEGEND

- APPROXIMATE EXTENT OF REMEDIAL EXCAVATION (PADRE 2017)
- APPROXIMATE EXTENT OF REMEDIAL EXCAVATION (STANTEC 2014)
- EXCAVATION AREA
- VS-43-1' — VERIFICATION SOIL SAMPLE - DEPTH IN FEET WITH TPH C4-C40 CONTAINING SOIL < 1,000 mg/kg
- VS-48-1' — VERIFICATION SOIL SAMPLE - DEPTH IN FEET WITH TPH C4-C40 CONTAINING SOIL ≥ 1,000 mg/kg
- (223) — TPH C4-C40 RESULTS IN mg/kg
- (PROJ. 14'E) — SAMPLE PROJECTION IN FEET AND DIRECTION
- AREA1-BOT80-7' — VERIFICATION SOIL SAMPLE (STANTEC 2014)

NOTES:

1. EXTENT OF REMEDIAL EXCAVATION AND VERIFICATION SAMPLE LOCATIONS WERE SURVEYED BY CANNON ENGINEERING ON FEBRUARY 5, 2018 AND MARCH 9, 2018.
2. TPH = TOTAL PETROLEUM HYDROCARBON
3. mg/kg = MILLIGRAMS PER KILOGRAM
4. FT AMSL = ELEVATION IN FEET ABOVE MEAN SEA LEVEL
5. FT BGS = FEET BELOW GROUND SURFACE

0 20 40

VERTICAL SCALE: 1" = 20 FEET
HORIZONTAL SCALE: 1" = 20 FEET

padre associates, inc.
ENGINEERS, GEOLOGISTS & ENVIRONMENTAL SCIENTISTS

PROJECT NAME: Former Orcutt Refinery
1550 West Stowell Road
Santa Maria,
Santa Barbara County, California

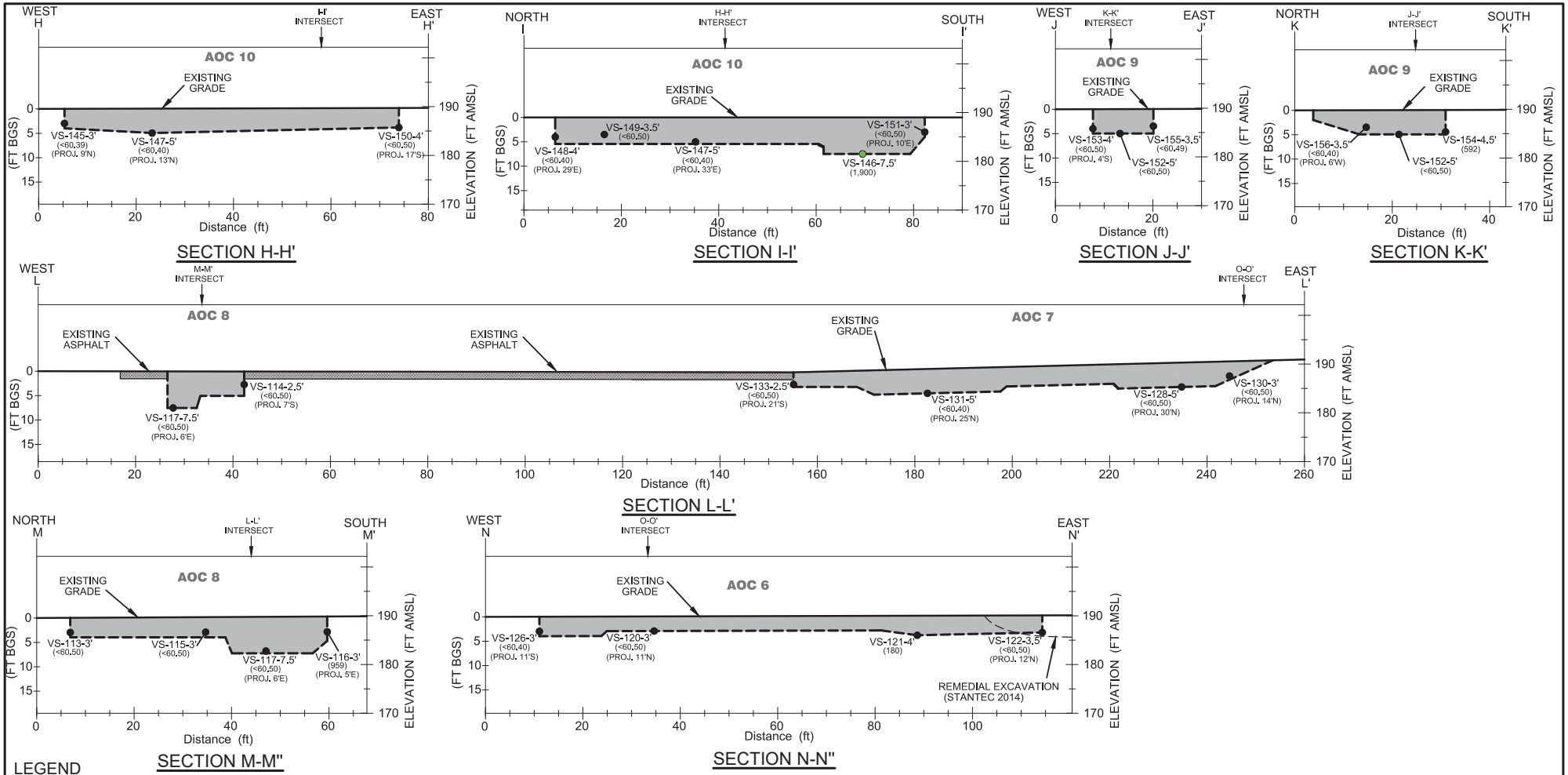
PROJECT NUMBER: 1601-3795

DATE: April 2018

CROSS SECTIONS A-A', B-B', C-C', D-D' E-E', F-F', & G-G'

PLATE 4

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LEGEND

- APPROXIMATE EXTENT OF REMEDIAL EXCAVATION (PADRE 2017)
- APPROXIMATE EXTENT OF REMEDIAL EXCAVATION (STANTEC 2014)
- EXCAVATION AREA
- VS-43-1' — VERIFICATION SOIL SAMPLE - DEPTH IN FEET WITH TPH C4-C40 CONTAINING SOIL < 1,000 mg/kg
- VS-48-1' — VERIFICATION SOIL SAMPLE - DEPTH IN FEET WITH TPH C4-C40 CONTAINING SOIL ≥ 1,000 mg/kg
- (223) — TPH C4-C40 RESULTS IN mg/kg
- (PROJ. 14'E) — SAMPLE PROJECTION IN FEET AND DIRECTION
- AREA1-BOT80-7' — VERIFICATION SOIL SAMPLE (STANTEC 2014)
- CONVENTIONAL ASPHALT LAYER LEFT IN-PLACE

0 20 40

VERTICAL SCALE: 1" = 20 FEET
HORIZONTAL SCALE: 1" = 20 FEET

NOTES:

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5. FT BGS = FEET BELOW GROUND SURFACE

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Santa Maria,
Santa Barbara County, California

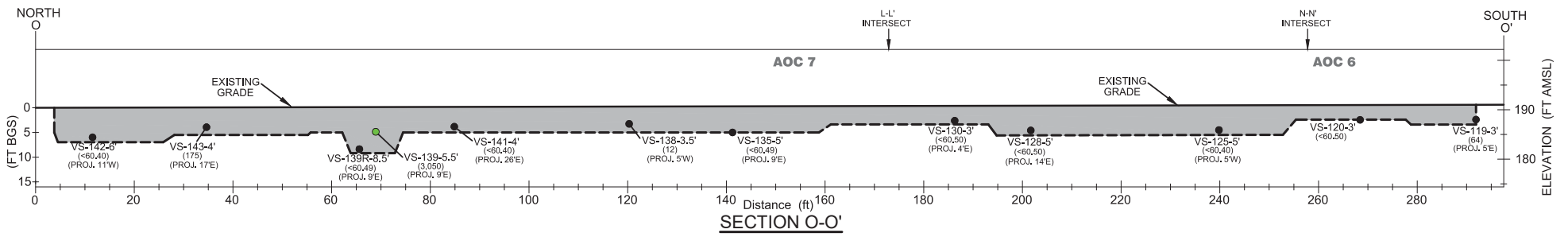
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DATE: April 2018

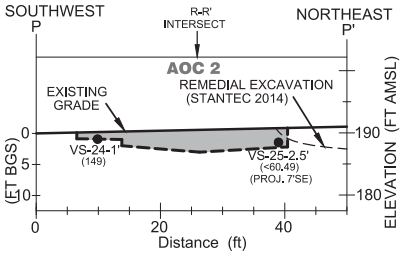
CROSS SECTIONS
H-H', I-I', J-J', K-K'
L-L', M-M', & N-N'

PLATE 5

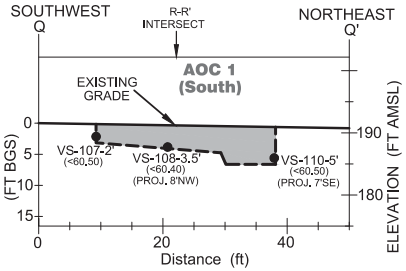
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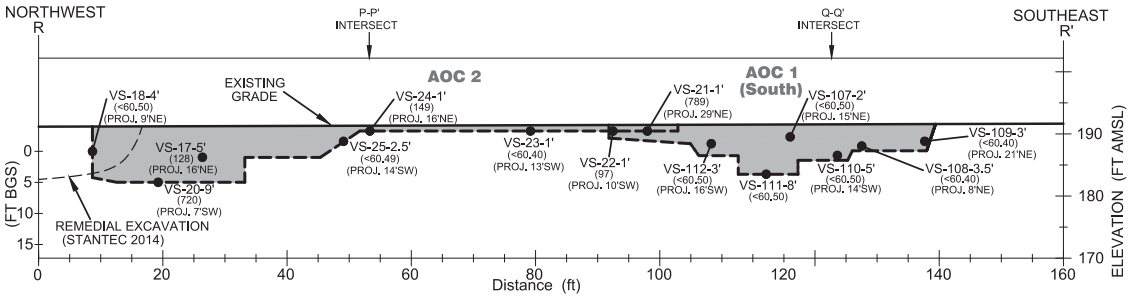
SECTION O-O'



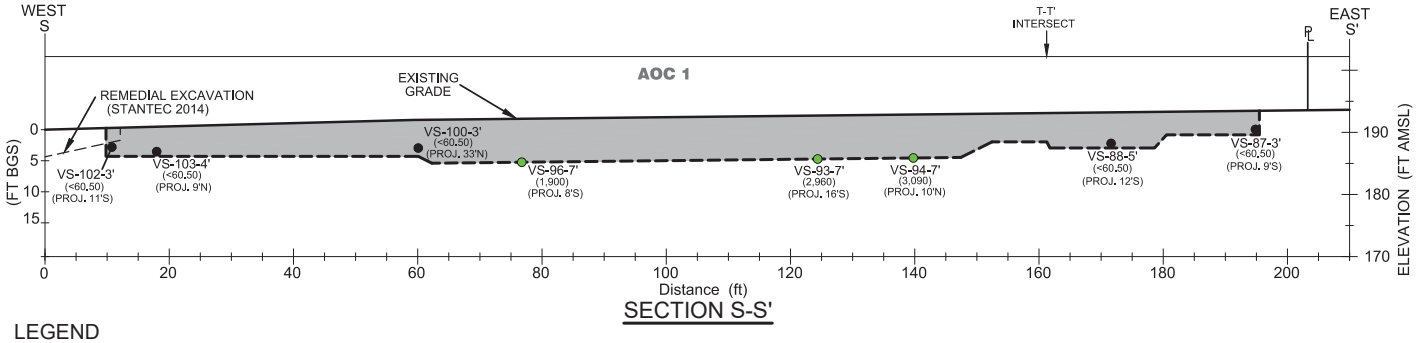
SECTION P-P'



SECTION Q-Q'



SECTION R-R'



SECTION S-S'

LEGEND

- APPROXIMATE EXTENT OF REMEDIAL EXCAVATION (PADRE 2017)
- APPROXIMATE EXTENT OF REMEDIAL EXCAVATION (STANTEC 2014)
- EXCAVATION AREA
- VS-43-1' ● VERIFICATION SOIL SAMPLE - DEPTH IN FEET WITH TPH C4-C40 CONTAINING SOIL < 1,000 mg/kg
- VS-48-1' ● VERIFICATION SOIL SAMPLE - DEPTH IN FEET WITH TPH C4-C40 CONTAINING SOIL ≥ 1,000 mg/kg
- (223) TPH C4-C40 RESULTS IN mg/kg
- (PROJ. 14'E) SAMPLE PROJECTION IN FEET AND DIRECTION
- AREA1-BOT80-7' ● VERIFICATION SOIL SAMPLE (STANTEC 2014)

VERTICAL SCALE: 1" = 20 FEET
HORIZONTAL SCALE: 1" = 20 FEET

NOTES:

1. EXTENT OF REMEDIAL EXCAVATION AND VERIFICATION SAMPLE LOCATIONS WERE SURVEYED BY CANNON ENGINEERING ON FEBRUARY 5, 2018 AND MARCH 9, 2018.
2. TPH = TOTAL PETROLEUM HYDROCARBON
3. mg/kg = MILLIGRAMS PER KILOGRAM
4. FT AMSL = ELEVATION IN FEET ABOVE MEAN SEA LEVEL
5. FT BGS = FEET BELOW GROUND SURFACE

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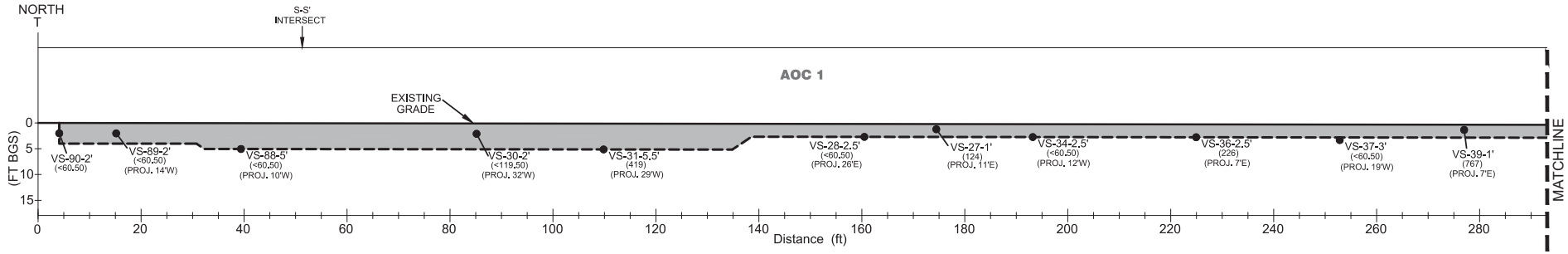
PROJECT NAME: Former Orcutt Refinery
1550 West Stowell Road
Santa Maria,
Santa Barbara County, California

PROJECT NUMBER: 1601-3795
DATE: April 2018

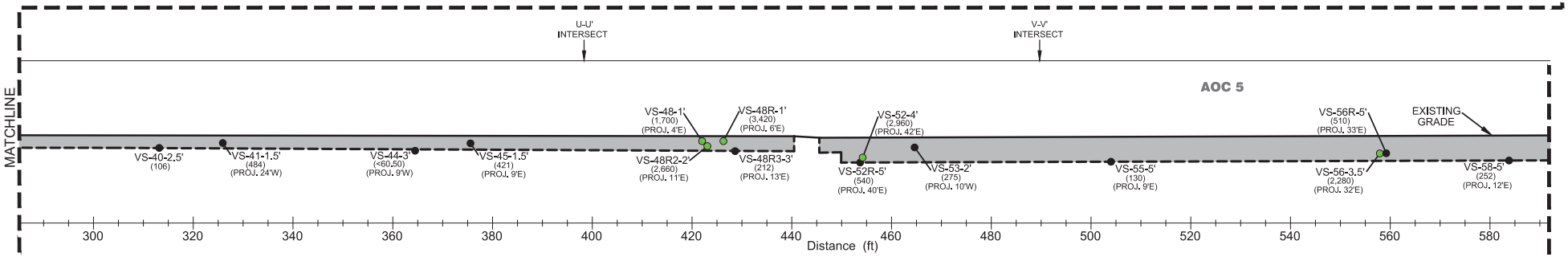
CROSS SECTIONS O-O', P-P',Q-Q', R-R', AND S-S'

PLATE 6

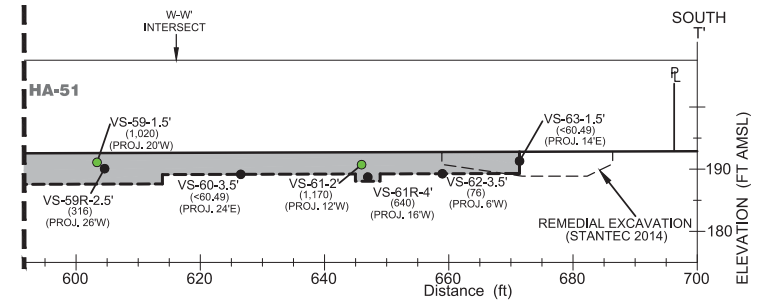
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SECTION T-T'



SECTION T-T'



SECTION T-T'

LEGEND

- APPROXIMATE EXTENT OF REMEDIAL EXCAVATION (PADRE 2017)
- APPROXIMATE EXTENT OF REMEDIAL EXCAVATION (STANTEC 2014)
- EXCAVATION AREA
- VS-43-1' ● VERIFICATION SOIL SAMPLE - DEPTH IN FEET WITH TPH C4-C40 CONTAINING SOIL < 1,000 mg/kg
- VS-48-1' ● VERIFICATION SOIL SAMPLE - DEPTH IN FEET WITH TPH C4-C40 CONTAINING SOIL ≥ 1,000 mg/kg
- (223) TPH C4-C40 RESULTS IN mg/kg
- (PROJ. 14'E) SAMPLE PROJECTION IN FEET AND DIRECTION
- AREA1-BOT80-7' ● VERIFICATION SOIL SAMPLE (STANTEC 2014)

NOTES:

1. EXTENT OF REMEDIAL EXCAVATION AND VERIFICATION SAMPLE LOCATIONS WERE SURVEYED BY CANNON ENGINEERING ON FEBRUARY 5, 2018 AND MARCH 9, 2018.
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5. FT BGS = FEET BELOW GROUND SURFACE

0 20 40

VERTICAL SCALE: 1" = 20 FEET
HORIZONTAL SCALE: 1" = 20 FEET

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Santa Maria,
Santa Barbara County, California

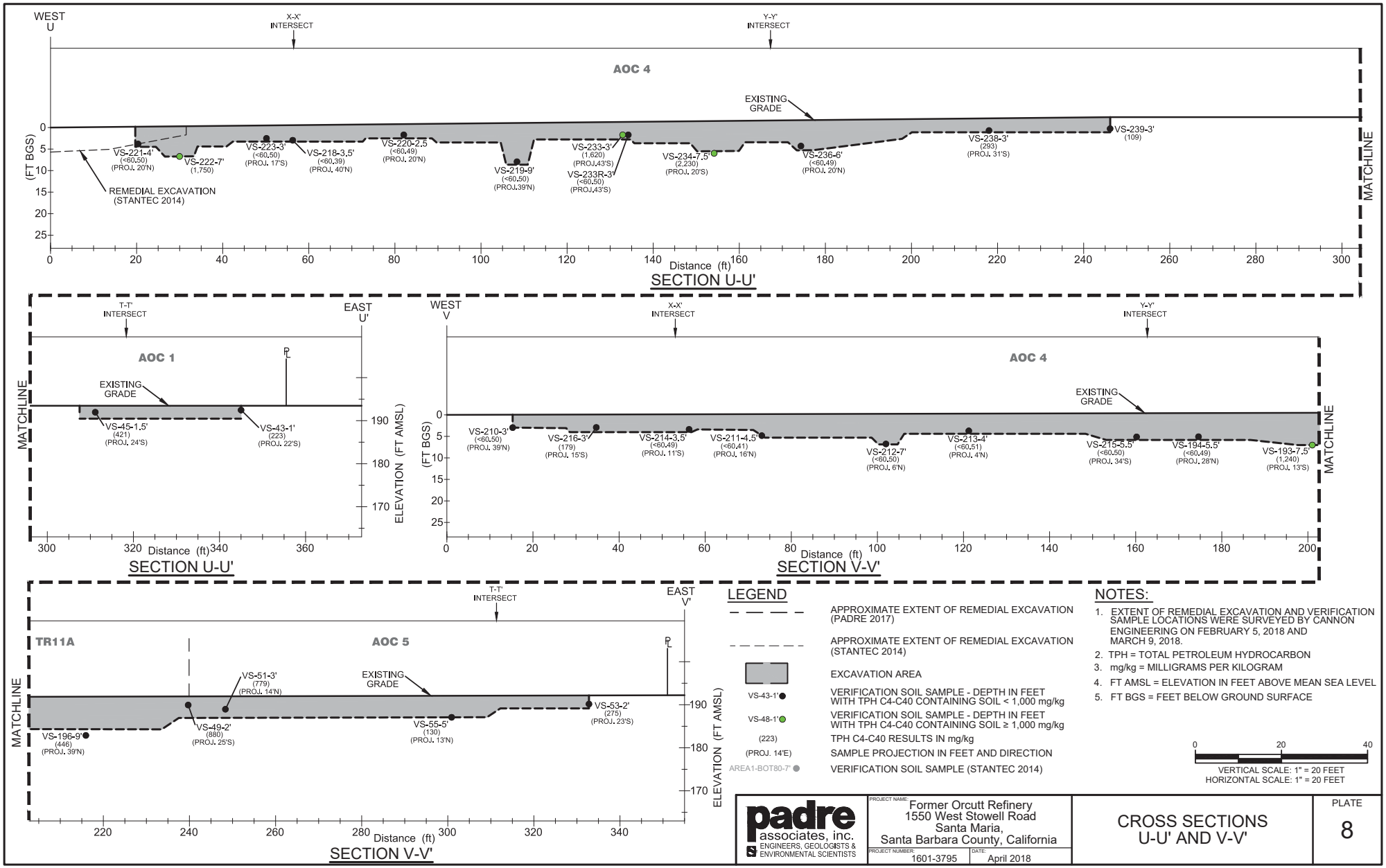
PROJECT NUMBER: 1601-3795

DATE: April 2018

CROSS SECTION T-T'

PLATE 7

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LEGEND

- APPROXIMATE EXTENT OF REMEDIAL EXCAVATION (PADRE 2017)
- APPROXIMATE EXTENT OF REMEDIAL EXCAVATION (STANTEC 2014)
- EXCAVATION AREA
- VS-43-1' — VERIFICATION SOIL SAMPLE - DEPTH IN FEET WITH TPH C4-C40 CONTAINING SOIL < 1,000 mg/kg
- VS-48-1' — VERIFICATION SOIL SAMPLE - DEPTH IN FEET WITH TPH C4-C40 CONTAINING SOIL ≥ 1,000 mg/kg
- (223) — TPH C4-C40 RESULTS IN mg/kg
- (PROJ. 14'E) — SAMPLE PROJECTION IN FEET AND DIRECTION
- AREA1-BOT80-7' — VERIFICATION SOIL SAMPLE (STANTEC 2014)

NOTES:

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3. mg/kg = MILLIGRAMS PER KILOGRAM
4. FT AMSL = ELEVATION IN FEET ABOVE MEAN SEA LEVEL
5. FT BGS = FEET BELOW GROUND SURFACE

0 20 40

VERTICAL SCALE: 1" = 20 FEET
HORIZONTAL SCALE: 1" = 20 FEET

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PROJECT NAME: Former Orcutt Refinery
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Santa Maria,
Santa Barbara County, California

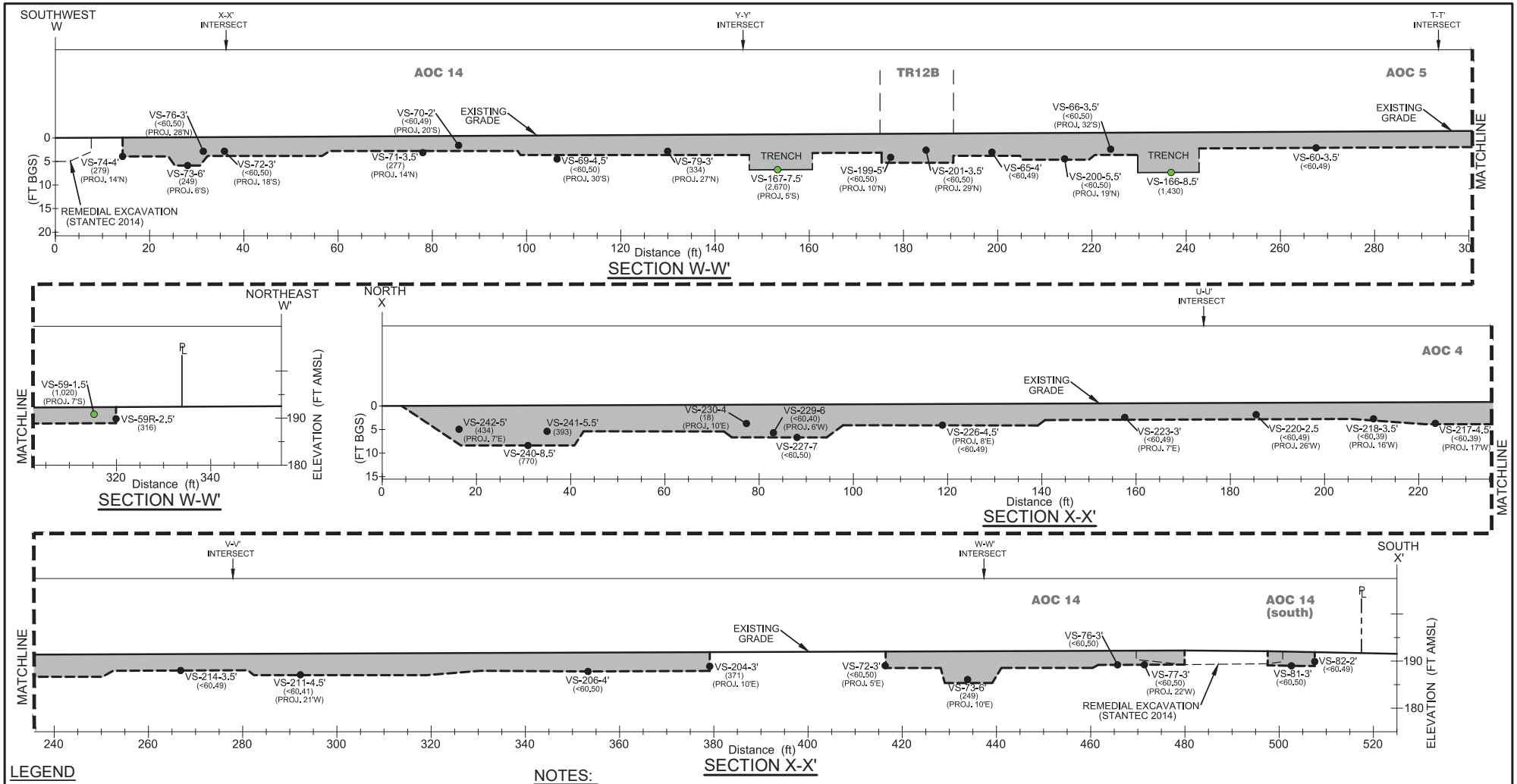
PROJECT NUMBER: 1601-3795

DATE: April 2018

CROSS SECTIONS U-U' AND V-V'

PLATE 8

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LEGEND

- APPROXIMATE EXTENT OF REMEDIAL EXCAVATION (PADRE 2017)
- APPROXIMATE EXTENT OF REMEDIAL EXCAVATION (STANTEC 2014)
- EXCAVATION AREA
- VS-43-1' — VERIFICATION SOIL SAMPLE - DEPTH IN FEET WITH TPH C4-C40 CONTAINING SOIL < 1,000 mg/kg
- VS-48-1' — VERIFICATION SOIL SAMPLE - DEPTH IN FEET WITH TPH C4-C40 CONTAINING SOIL ≥ 1,000 mg/kg
- (223) — TPH C4-C40 RESULTS IN mg/kg
- (PROJ. 14'E) — SAMPLE PROJECTION IN FEET AND DIRECTION
- AREA1-BOT80-7' — VERIFICATION SOIL SAMPLE (STANTEC 2014)

NOTES:

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0 20 40
VERTICAL SCALE: 1" = 20 FEET
HORIZONTAL SCALE: 1" = 20 FEET

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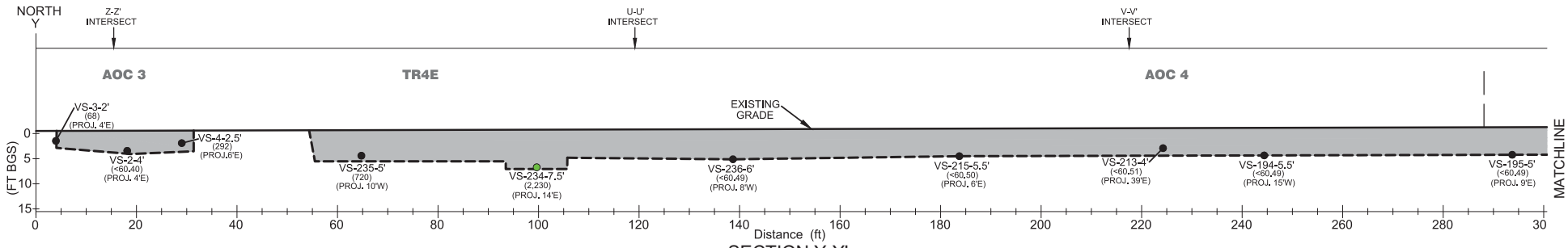
PROJECT NAME: Former Orcutt Refinery
1550 West Stowell Road
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Santa Barbara County, California

PROJECT NUMBER: 1601-3795
DATE: April 2018

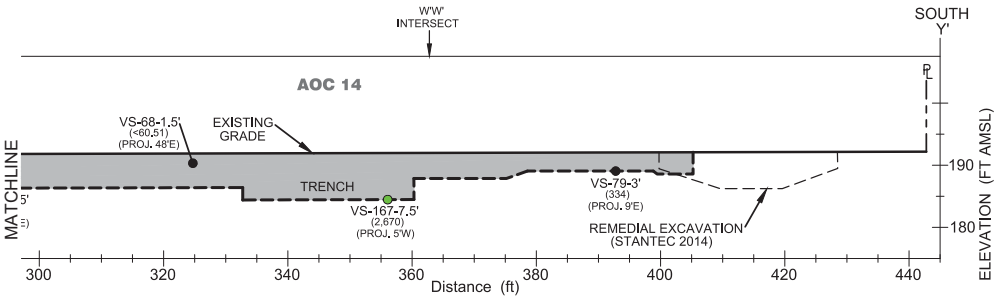
CROSS SECTIONS W-W' AND X-X'

PLATE 9

Z:\Current Projects\0000-0000 CAD MASTER DRAWINGS\Former Orcutt Refining\DRAWINGS\AS-BUILTS\ORCUTT REFINERY AS-BUILTS.dwg, 4/17/2018 12:42:18 PM



SECTION Y-Y'



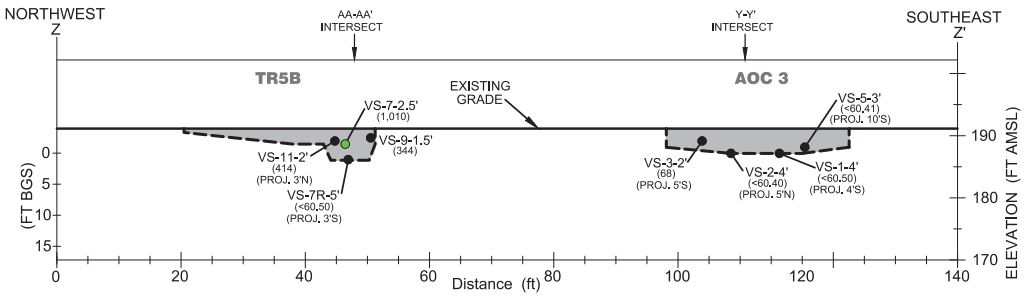
SECTION Y-Y'

LEGEND

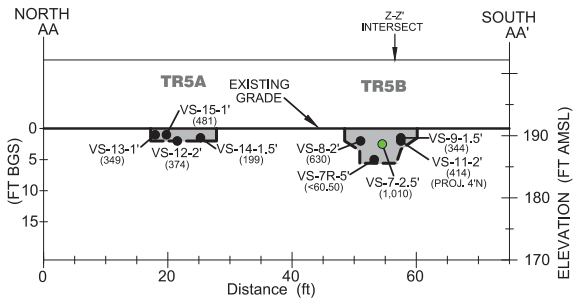
- APPROXIMATE EXTENT OF REMEDIAL EXCAVATION (PADRE 2017)
- APPROXIMATE EXTENT OF REMEDIAL EXCAVATION (STANTEC 2014)
- EXCAVATION AREA
- VS-43-1' — VERIFICATION SOIL SAMPLE - DEPTH IN FEET WITH TPH C4-C40 CONTAINING SOIL < 1,000 mg/kg
- VS-48-1' — VERIFICATION SOIL SAMPLE - DEPTH IN FEET WITH TPH C4-C40 CONTAINING SOIL ≥ 1,000 mg/kg
- (223) — TPH C4-C40 RESULTS IN mg/kg
- (PROJ. 14'E) — SAMPLE PROJECTION IN FEET AND DIRECTION
- AREA1-BOT80-7' — VERIFICATION SOIL SAMPLE (STANTEC 2014)

NOTES:

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5. FT BGS = FEET BELOW GROUND SURFACE



SECTION Z-Z'



SECTION AA-AA'

0 20 40

VERTICAL SCALE: 1" = 20 FEET
HORIZONTAL SCALE: 1" = 20 FEET

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PROJECT NAME: Former Orcutt Refinery
1550 West Stowell Road
Santa Maria,
Santa Barbara County, California

PROJECT NUMBER: 1601-3795

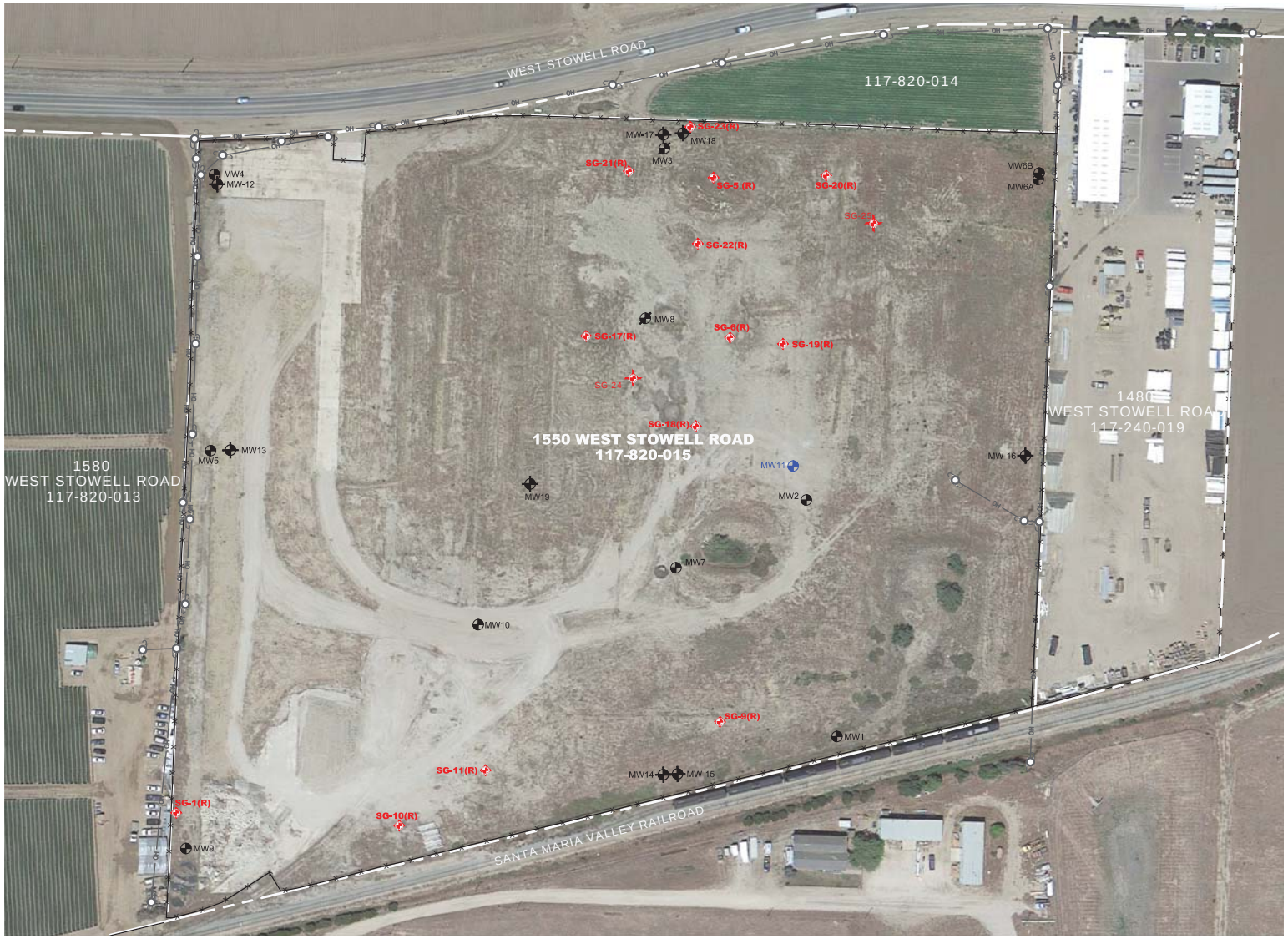
DATE: April 2018

CROSS SECTIONS Y-Y', Z-Z' AND AA-AA'

PLATE 10

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Groundwater Monitoring and Soil Gas Probe Locations



LEGEND

- POWER POLE
- 6 FOOT TALL CHAIN LINK FENCE WITH 2 FEET BARBED WIRE
- RECORD PROPERTY LINE PER 175 RS 41
- OVERHEAD POWER LINE
- MW-11 — STANTEC MONITORING WELL
- MW1 — RINCON SOIL BORING/MONITORING WELL
- MW-8 — ABANDONED MONITORING WELL (RINCON)
- MW-12 — PADRE MONITORING WELL
- SG-1 (R) — REINSTALLED SOIL GAS PROBE
- SG-24 — SOIL GAS PROBE LOCATION

N

0 125 250

APPROXIMATE SCALE IN FEET

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Stantec
3437 EMPRESA DR. SUITE A
SAN LUIS OBISPO, CALIFORNIA
PHONE: (805) 546-0455 FAX: (805) 546-0583

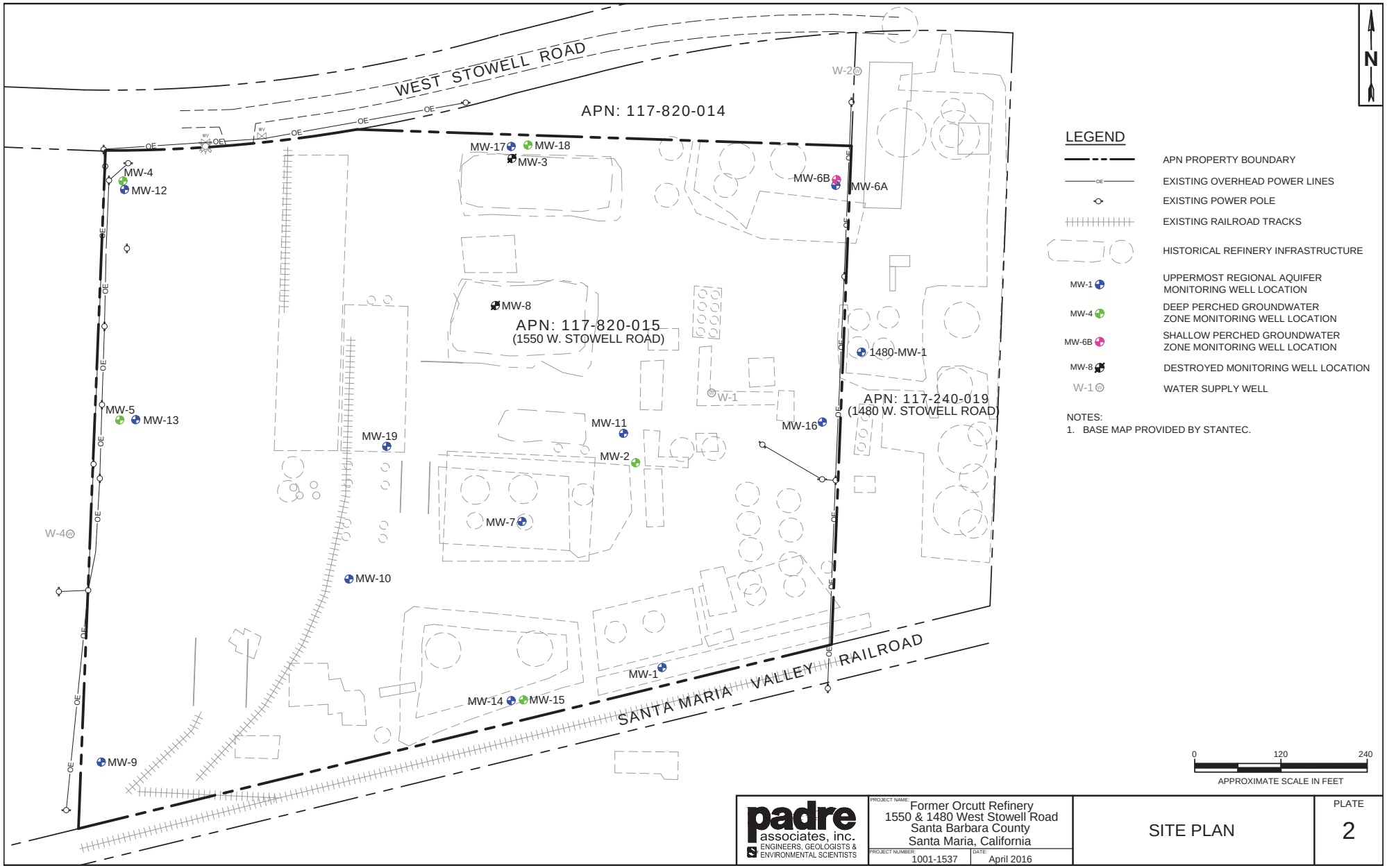
FOR: FORMER ORCUTT REFINERY
1550 WEST STOWELL ROAD
SANTA MARIA, CALIFORNIA

SITE MAP

FIGURE: 2

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
211802642	J. LIEBERMAN	T.PORTER	T.PORTER	01/16/14

FILEPATH:P:\Cad 2003\Chevron\Orcutt Refinery\2014\Powerline-Exhibit_11X17.dwg|jlieberman|Jan 20, 2016 at 12:20|Layout: Layout1



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PROJECT NAME: Former Orcutt Refinery
1550 & 1480 West Stowell Road
Santa Barbara County
Santa Maria, California

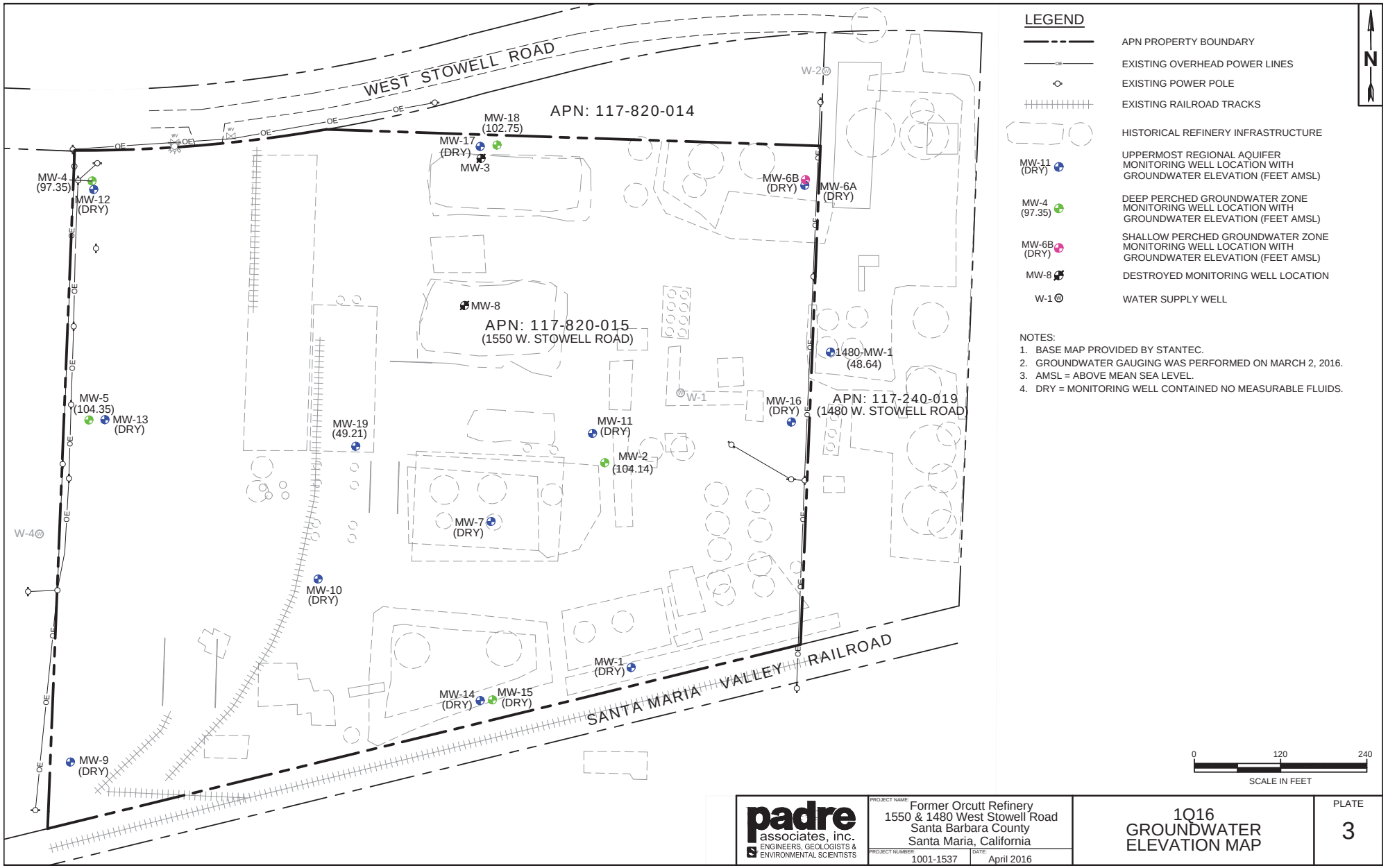
PROJECT NUMBER: 1001-1537

DATE: April 2016

SITE PLAN

PLATE 2

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LEGEND

- APN PROPERTY BOUNDARY
- EXISTING OVERHEAD POWER LINES
- EXISTING POWER POLE
- EXISTING RAILROAD TRACKS
- HISTORICAL REFINERY INFRASTRUCTURE
- MW-11 (DRY) — UPPERMOST REGIONAL AQUIFER MONITORING WELL LOCATION WITH GROUNDWATER ELEVATION (FEET AMSL)
- MW-4 (97.35) — DEEP PERCHED GROUNDWATER ZONE MONITORING WELL LOCATION WITH GROUNDWATER ELEVATION (FEET AMSL)
- MW-6B (DRY) — SHALLOW PERCHED GROUNDWATER ZONE MONITORING WELL LOCATION WITH GROUNDWATER ELEVATION (FEET AMSL)
- MW-8 — DESTROYED MONITORING WELL LOCATION
- W-1 — WATER SUPPLY WELL

N

NOTES:
1. BASE MAP PROVIDED BY STANTEC.
2. GROUNDWATER GAUGING WAS PERFORMED ON MARCH 2, 2016.
3. AMSL = ABOVE MEAN SEA LEVEL.
4. DRY = MONITORING WELL CONTAINED NO MEASURABLE FLUIDS.

0 120 240
SCALE IN FEET

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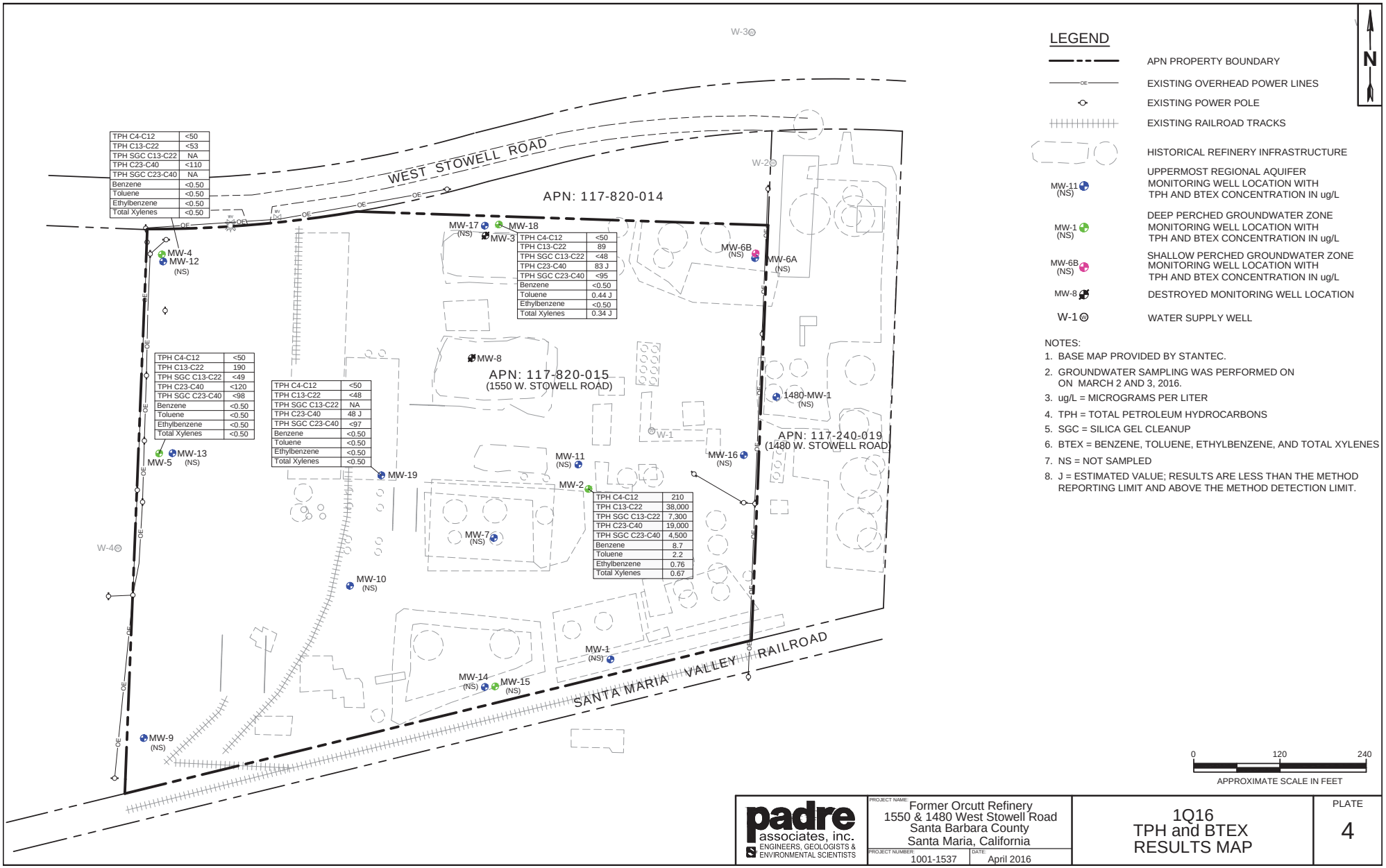
PROJECT NAME: Former Orcutt Refinery
1550 & 1480 West Stowell Road
Santa Barbara County
Santa Maria, California

PROJECT NUMBER: 1001-1537
DATE: April 2016

1Q16 GROUNDWATER ELEVATION MAP

PLATE 3

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LEGEND

- APN PROPERTY BOUNDARY
- EXISTING OVERHEAD POWER LINES
- EXISTING POWER POLE
- EXISTING RAILROAD TRACKS
- HISTORICAL REFINERY INFRASTRUCTURE
- MW-11 (NS) — UPPERMOST REGIONAL AQUIFER MONITORING WELL LOCATION WITH TPH AND BTEX CONCENTRATION IN ug/L
- MW-1 (NS) — DEEP PERCHED GROUNDWATER ZONE MONITORING WELL LOCATION WITH TPH AND BTEX CONCENTRATION IN ug/L
- MW-6B (NS) — SHALLOW PERCHED GROUNDWATER ZONE MONITORING WELL LOCATION WITH TPH AND BTEX CONCENTRATION IN ug/L
- MW-8 — DESTROYED MONITORING WELL LOCATION
- W-1 — WATER SUPPLY WELL

NOTES:

1. BASE MAP PROVIDED BY STANTEC.
2. GROUNDWATER SAMPLING WAS PERFORMED ON ON MARCH 2 AND 3, 2016.
3. ug/L = MICROGRAMS PER LITER
4. TPH = TOTAL PETROLEUM HYDROCARBONS
5. SGC = SILICA GEL CLEANUP
6. BTEX = BENZENE, TOLUENE, ETHYLBENZENE, AND TOTAL XYLENES
7. NS = NOT SAMPLED
8. J = ESTIMATED VALUE; RESULTS ARE LESS THAN THE METHOD REPORTING LIMIT AND ABOVE THE METHOD DETECTION LIMIT.

0 120 240

APPROXIMATE SCALE IN FEET

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PROJECT NAME: Former Orcutt Refinery
1550 & 1480 West Stowell Road
Santa Barbara County
Santa Maria, California

PROJECT NUMBER: 1001-1537

DATE: April 2016

1Q16 TPH and BTEX RESULTS MAP

PLATE 4

Z:\Current Projects\0000-0000\CAD \MASTER DRAWINGS\GWM Reports\Orcutt Refinery\ORCUTT REFINERY GWM.dwg, 4/7/2016 2:31:15 PM

GROUNDWATER DATA

Table 3
Summary of Historical Groundwater Groundwater Elevation Data
Former Orcutt Refinery
1550 West Stowell Road, Santa Maria, California

Well ID	Zone of Completion	Date	TOC (ft. AMSL)	DTW (ft.)	DTSPH (ft.)	GWE [(1)] (ft. AMSL)	SPH Thickness (ft.)
MW-1	RA	4/5/2004	192.00	93.19	--	98.81	0.00
	RA	5/21/2004	192.00	96.64	--	95.36	0.00
	RA	7/7/2004	191.53	99.45	--	92.08	0.00
	RA	9/16/2004	191.53	NM	NM	NM	NM
	RA	7/5/2005	191.53	NM	NM	NM	NM
	RA	3/20/2007	191.53	99.52		92.01	0.00
	RA	8/1/2007	191.53	Dry	--	--	--
	RA	9/19/2007	191.53	Dry	--	--	--
	RA	3/5/2008	191.53	Dry	--	--	--
	RA	5/22/2012	191.97	Dry	--	--	--
	RA	12/10/2012	191.97	Dry	--	--	--
	RA	3/4/2013	191.97	Dry	--	--	--
	RA	6/12/2013	191.97	Dry	--	--	--
	RA	8/14/2013	191.97	Dry	--	--	--
	RA	10/30/2013	191.97	Dry	--	--	--
	RA	3/10/2014	191.97	Dry	--	--	--
	RA	6/3/2014	191.97	Dry	--	--	--
	RA	12/9/2014	194.98	Dry	--	--	--
	RA	3/13/2015	194.98	Dry	--	--	--
	RA	6/2/2015	194.98	Dry	--	--	--
	RA	8/17/2015	194.98	Dry	--	--	--
	RA	12/1/2015	194.98	Dry	--	--	--
	RA	3/2/2016	194.98	Dry	--	--	--
MW-2	DP	4/5/2004	189.89	87.32	--	102.57	0.00
	DP	5/21/2004	189.89	87.32	--	102.57	0.00
	DP	7/7/2004	189.42	NM	NM	NM	NM
	DP	9/16/2004	189.42	NM	NM	NM	NM
	DP	7/5/2005	189.42	NM	NM	NM	NM
	DP	3/20/2007	189.42	87.03	--	102.39	0.00
	DP	8/1/2007	189.42	Dry	--	--	--
	DP	9/19/2007	189.42	Dry	--	--	--
	DP	3/5/2008	189.42	Dry	--	--	--
	DP	5/22/2012	189.89	81.58	81.56	108.31	0.02
	DP	12/10/2012	189.89	Dry	--	--	--
	DP	3/4/2013	189.89	84.91	--	104.98	0.00
	DP	6/12/2013	189.89	Dry	--	--	--
	DP	8/14/2013	189.89	Dry	--	--	--
	DP	10/30/2013	189.89	Dry	--	--	--
	DP	3/10/2014	189.89	Dry	--	--	--
	DP	6/3/2014	189.89	Dry	--	--	--
	DP	12/9/2014	194.24	Dry	--	--	--
	DP	3/13/2015	194.24	88.20	--	106.04	0.00
	DP	6/2/2015	194.24	Dry	--	--	--

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Table 3
Summary of Historical Groundwater Groundwater Elevation Data
Former Orcutt Refinery
1550 West Stowell Road, Santa Maria, California

Well ID	Zone of Completion	Date	TOC (ft. AMSL)	DTW (ft.)	DTSPH (ft.)	GWE [(1)] (ft. AMSL)	SPH Thickness (ft.)
MW-2	DP	8/17/2015	194.24	Dry	--	--	--
cont'd	DP	12/1/2015	194.24	Dry	--	--	--
	DP	3/2/2016	194.24	90.10	--	104.14	0.00
MW-3	RA	4/5/2004	188.65	88.50	--	100.15	0.00
	RA	5/21/2004	188.65	87.02	--	101.63	0.00
	RA	7/7/2004	188.18	90.51	--	97.67	0.00
	RA	9/16/2004	188.18	87.80	--	100.38	0.00
	RA	7/5/2005	188.18	90.60	--	97.58	0.00
	RA	3/20/2007	188.18	95.66	--	92.52	0.00
	RA	8/1/2007	188.18	Dry	--	--	--
	RA	9/19/2007	188.18	Dry	--	--	--
	RA	3/6/2008	188.18	97.50	--	90.68	0.00
			Destroyed				
MW-4	DP	4/5/2004	188.03	83.61	--	104.42	0.00
	DP	5/21/2004	188.03	89.56	--	98.47	0.00
	DP	7/7/2004	187.44	90.25	--	97.19	0.00
	DP	9/16/2004	187.44	86.95	--	100.49	0.00
	DP	7/5/2005	187.44	86.67	--	100.77	0.00
	DP	3/20/2007	187.44	Dry	--	--	--
	DP	8/1/2007	187.44	92.17	--	95.27	0.00
	DP	9/26/2007	187.44	92.31	--	95.13	0.00
	DP	3/5/2008	187.44	82.55	--	104.89	0.00
	DP	5/22/2012	187.99	89.10	--	98.89	0.00
	DP	12/10/2012	187.99	93.71	--	94.28	0.00
	DP	3/4/2013	187.99	92.25	--	95.74	0.00
	DP	6/12/2013	187.99	90.88	--	97.11	0.00
	DP	8/14/2013	187.99	92.14	--	95.85	0.00
	DP	10/30/2013	187.99	93.74	--	94.25	0.00
	DP	3/10/2014	187.99	93.81	--	94.18	0.00
	DP	6/3/2014	187.99	91.41	--	96.58	0.00
	DP	12/9/2014	190.91	93.22	--	97.69	0.00
	DP	3/13/2015	190.91	91.80	--	99.11	0.00
	DP	6/2/2015	190.91	92.70	--	98.21	0.00
	DP	8/17/2015	190.91	91.83	--	99.08	0.00
	DP	12/1/2015	190.91	95.15	--	95.76	0.00
	DP	3/2/2016	190.91	93.56	--	97.35	0.00
MW-5	DP	4/5/2004	188.03	81.05	--	106.98	0.00
	DP	5/21/2004	188.03	83.31	--	104.72	0.00
	DP	7/7/2004	187.49	84.25	--	103.24	0.00
	DP	9/16/2004	187.49	83.00	--	104.49	0.00
	DP	7/5/2005	187.49	83.51	--	103.98	0.00
	DP	3/20/2007	187.49	82.14	--	105.35	0.00

Table 3
Summary of Historical Groundwater Groundwater Elevation Data
Former Orcutt Refinery
1550 West Stowell Road, Santa Maria, California

Well ID	Zone of Completion	Date	TOC (ft. AMSL)	DTW (ft.)	DTSPH (ft.)	GWE [(1)] (ft. AMSL)	SPH Thickness (ft.)
MW-5	DP	8/1/2007	187.49	84.30	--	103.19	0.00
cont'd	DP	9/27/2007	187.49	86.48	--	101.01	0.00
	DP	3/6/2008	187.49	78.95	--	108.54	0.00
	DP	5/22/2012	188.00	82.69	--	105.31	0.00
	DP	12/10/2012	188.00	84.19	--	103.81	0.00
	DP	3/4/2013	188.00	84.33	--	103.67	0.00
	DP	6/12/2013	188.00	84.45	--	103.55	0.00
	DP	8/14/2013	188.00	84.45	--	103.55	0.00
	DP	10/30/2013	188.00	Dry	--	--	--
	DP	3/10/2014	188.00	Dry	--	--	--
	DP	6/3/2014	188.00	84.35	--	103.65	0.00
	DP	12/9/2014	191.19	86.60	--	104.59	0.00
	DP	3/13/2015	191.19	84.49	--	106.70	0.00
	DP	6/2/2015	191.19	85.72	--	105.47	0.00
	DP	8/17/2015	191.19	84.99	--	106.20	0.00
	DP	12/1/2015	191.19	Dry	--	--	--
	DP	3/2/2016	191.19	86.84	--	104.35	0.00
MW-6A	RA	7/7/2004	192.68	100.41	--	92.27	0.00
	RA	9/16/2004	192.68	104.10	--	88.58	0.00
	RA	7/5/2005	192.68	104.12	--	88.56	0.00
	RA	3/20/2007	192.68	100.39	--	92.29	0.00
	RA	8/1/2007	192.68	104.44	--	88.24	0.00
	RA	9/27/2007	192.68	Dry	--	--	--
	RA	3/6/2008	192.68	103.20	--	89.48	0.00
	RA	5/22/2012	193.12	Dry	--	--	--
	RA	12/10/2012	193.12	105.85	--	87.27	0.00
	RA	3/4/2013	193.12	Dry	--	--	--
	RA	6/12/2013	193.12	Dry	--	--	--
	RA	8/14/2013	193.12	Dry	--	--	--
	RA	10/30/2013	193.12	Dry	--	--	--
	RA	3/10/2014	193.12	Dry	--	--	--
	RA	6/3/2014	193.12	Dry	--	--	--
	RA	12/9/2014	195.88	Dry	--	--	--
	RA	3/13/2015	195.88	Dry	--	--	--
	RA	6/2/2015	195.88	Dry	--	--	--
	RA	8/17/2015	195.88	Dry	--	--	--
	RA	12/1/2015	195.88	Dry	--	--	--
	RA	3/2/2016	195.88	Dry	--	--	--
MW-6B	SP	7/7/2004	192.79	35.22	--	157.57	0.00
	SP	9/16/2004	192.79	39.15	--	153.64	0.00
	SP	7/5/2005	192.79	33.90	--	158.89	0.00
	SP	3/21/2007	192.79	38.99	--	153.80	0.00

Table 3
Summary of Historical Groundwater Groundwater Elevation Data
Former Orcutt Refinery
1550 West Stowell Road, Santa Maria, California

Well ID	Zone of Completion	Date	TOC (ft. AMSL)	DTW (ft.)	DTSPH (ft.)	GWE [(1)] (ft. AMSL)	SPH Thickness (ft.)
MW-6B	SP	8/1/2007	192.79	41.08	--	151.71	0.00
cont'd	SP	9/20/2007	192.79	42.50	--	150.29	0.00
	SP	3/5/2008	192.79	35.80	--	156.99	0.00
	SP	5/22/2012	193.23	38.00	--	155.23	0.00
	SP	12/10/2012	193.23	44.63	--	--	0.00
	SP	3/4/2013	193.23	Dry	--	--	--
	SP	6/12/2013	193.23	Dry	--	--	--
	SP	8/14/2013	193.23	Dry	--	--	--
	SP	10/30/2013	193.23	Dry	--	--	--
	SP	3/10/2014	193.23	Dry	--	--	--
	SP	6/3/2014	193.23	Dry	--	--	--
	SP	12/9/2014	196.35	Dry	--	--	--
	SP	3/13/2015	196.35	Dry	--	--	--
	SP	6/2/2015	196.35	Dry	--	--	--
	SP	8/17/2015	196.35	Dry	--	--	--
	SP	12/1/2015	196.35	Dry	--	--	--
	SP	3/2/2016	196.35	Dry	--	--	--
MW-7	RA	7/7/2004	187.82	95.83	--	91.99	0.00
	RA	9/16/2004	187.82	99.30	--	88.52	0.00
	RA	7/5/2005	187.82	99.26	--	88.56	0.00
	RA	3/21/2007	187.82	95.87	--	91.95	0.00
	RA	8/1/2007	187.82	99.68	--	88.14	0.00
	RA	9/27/2007	187.82	101.85	--	85.97	0.00
	RA	3/6/2008	187.82	98.35	--	89.47	0.00
	RA	5/22/2012	188.24	Dry	--	--	--
	RA	12/10/2012	188.24	104.93	--	83.31	0.00
	RA	3/4/2013	188.24	Dry	--	--	--
	RA	6/12/2013	188.24	Dry	--	--	--
	RA	8/14/2013	188.24	Dry	--	--	--
	RA	10/30/2013	188.24	Dry	--	--	--
	RA	3/10/2014	188.24	Dry	--	--	--
	RA	6/3/2014	188.24	Dry	--	--	--
	RA	12/9/2014	193.69	Dry	--	--	--
	RA	3/13/2015	193.69	Dry	--	--	--
	RA	6/2/2015	193.69	Dry	--	--	--
	RA	8/17/2015	193.69	Dry	--	--	--
	RA	12/1/2015	193.69	Dry	--	--	--
	RA	3/2/2016	193.69	Dry	--	--	--
MW-8	RA	7/7/2004	186.75	94.74	--	92.01	0.00
	RA	9/16/2004	186.75	98.20	--	88.55	0.00
	RA	7/5/2005	186.75	98.22	--	88.53	0.00
	RA	3/21/2007	186.75	94.72	--	92.03	0.00

Table 3
Summary of Historical Groundwater Groundwater Elevation Data
Former Orcutt Refinery
1550 West Stowell Road, Santa Maria, California

Well ID	Zone of Completion	Date	TOC (ft. AMSL)	DTW (ft.)	DTSPH (ft.)	GWE [(1)] (ft. AMSL)	SPH Thickness (ft.)
MW-8	RA	8/1/2007	186.75	98.83	--	87.92	0.00
cont'd	RA	9/26/2007	186.75	101.15	--	85.60	0.00
	RA	3/6/2008	186.75	97.38	--	89.37	0.00
			Destroyed				
MW-9	RA	7/7/2004	188.34	97.00	--	91.34	0.00
	RA	9/16/2004	188.34	100.80	--	87.54	0.00
	RA	7/5/2005	188.34	100.35	--	87.99	0.00
	RA	3/21/2007	188.34	96.88	--	91.46	0.00
	RA	8/1/2007	188.34	101.49	--	86.85	0.00
	RA	9/20/2007	188.34	103.39	--	84.95	0.00
	RA	3/5/2008	188.34	99.17	--	89.17	0.00
	RA	5/22/2012	188.83	108.40	--	80.43	0.00
	RA	12/10/2012	188.83	109.48	--	79.35	0.00
	RA	3/4/2013	188.83	109.20	--	79.63	0.00
	RA	6/12/2013	188.83	109.69	--	79.14	0.00
	RA	8/14/2013	188.83	Dry	--	--	--
	RA	10/30/2013	188.83	Dry	--	--	--
	RA	3/10/2014	188.83	Dry	--	--	--
	RA	6/3/2014	188.83	Dry	--	--	--
	RA	12/9/2014	192.40	Dry	--	--	--
	RA	3/13/2015	192.40	Dry	--	--	--
	RA	6/2/2015	192.40	Dry	--	--	--
	RA	8/17/2015	192.40	Dry	--	--	--
	RA	12/1/2015	192.40	Dry	--	--	--
	RA	3/2/2016	192.40	Dry	--	--	--
MW-10	RA	7/7/2004	187.80	96.25	--	91.55	0.00
	RA	9/16/2004	187.80	100.05	--	87.75	0.00
	RA	7/5/2005	187.80	99.68	--	88.12	0.00
	RA	3/21/2007	187.80	96.14	--	91.66	0.00
	RA	8/1/2007	187.80	100.50	--	87.30	0.00
	RA	9/27/2007	187.80	102.62	--	85.18	0.00
	RA	3/6/2008	187.80	98.43	--	89.37	0.00
	RA	5/22/2012			Unable to locate well		
	RA	12/10/2012			Unable to locate well		
	RA	3/4/2013	188.22	Dry	--	--	--
	RA	6/12/2013	188.22	Dry	--	--	--
	RA	8/14/2013	188.22	Dry	--	--	--
	RA	10/30/2013	188.22	Dry	--	--	--
	RA	3/10/2014	188.22	Dry	--	--	--
	RA	6/3/2014	188.22	Dry	--	--	--
	RA	12/9/2014	193.23	Dry	--	--	--
	RA	3/13/2015	193.23	Dry	--	--	--

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Table 3
Summary of Historical Groundwater Groundwater Elevation Data
Former Orcutt Refinery
1550 West Stowell Road, Santa Maria, California

Well ID	Zone of Completion	Date	TOC (ft. AMSL)	DTW (ft.)	DTSPH (ft.)	GWE [(1)] (ft. AMSL)	SPH Thickness (ft.)
MW-10	RA	6/2/2015	193.23	Dry	--	--	--
cont'd	RA	8/17/2015	193.23	Dry	--	--	--
	RA	12/1/2015	193.23	Dry	--	--	--
	RA	3/2/2016	193.23	Dry	--	--	--
MW-11	RA	5/22/2012	189.33	108.32	--	81.01	0.00
	RA	12/10/2012	189.33	111.62	--	77.71	0.00
	RA	3/4/2013	189.33	109.26	--	80.07	0.00
	RA	6/12/2013	189.33	112.82	--	76.51	0.00
	RA	8/14/2013	189.33	115.75	--	73.58	0.00
	RA	10/30/2013	189.33	118.72	--	70.61	0.00
	RA	3/10/2014	189.33	120.03	--	69.30	0.00
	RA	6/3/2014	189.33	Dry	--	--	--
	RA	12/9/2014	194.52	Dry	--	--	--
	RA	3/13/2015	194.52	Dry	--	--	--
	RA	6/2/2015	194.52	Dry	--	--	--
	RA	8/17/2015	194.52	Dry	--	--	--
	RA	12/1/2015	194.52	Dry	--	--	--
	RA	3/2/2016	194.52	Dry	--	--	--
MW-12	RA	6/12/2013	187.45	112.00	--	75.45	0.00
	RA	8/14/2013	187.45	115.01	--	72.44	0.00
	RA	10/30/2013	187.45	117.76	--	69.69	0.00
	RA	3/10/2014	187.45	118.57	--	68.88	0.00
	RA	6/3/2014	187.45	122.57	--	64.88	0.00
	RA	12/9/2014	190.41	Dry	--	--	--
	RA	3/13/2015	190.41	131.97	--	58.44	0.00
	RA	6/2/2015	190.41	Dry	--	--	--
	RA	8/17/2015	190.41	Dry	--	--	--
	RA	12/1/2015	190.41	Dry	--	--	--
	RA	3/2/2016	190.41	Dry	--	--	--
MW-13	RA	6/12/2013	187.30	111.94	--	75.36	0.00
	RA	8/14/2013	187.30	115.04	--	72.26	0.00
	RA	10/30/2013	187.30	117.76	--	69.54	0.00
	RA	3/10/2014	187.30	118.55	--	68.75	0.00
	RA	6/3/2014	187.30	122.52	--	64.78	0.00
	RA	12/9/2014	191.59	134.04	--	57.55	0.00
	RA	3/13/2015	191.59	133.28	--	58.31	0.00
	RA	6/2/2015	191.59	Dry	--	--	--
	RA	8/17/2015	191.59	Dry	--	--	--
	RA	12/1/2015	191.59	Dry	--	--	--
	RA	3/2/2016	191.59	Dry	--	--	--
MW-14	RA	6/12/2013	191.56	115.65	--	75.91	0.00
	RA	8/14/2013	191.56	118.80	--	72.76	0.00

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Table 3
Summary of Historical Groundwater Groundwater Elevation Data
Former Orcutt Refinery
1550 West Stowell Road, Santa Maria, California

Well ID	Zone of Completion	Date	TOC (ft. AMSL)	DTW (ft.)	DTSPH (ft.)	GWE [(1)] (ft. AMSL)	SPH Thickness (ft.)
MW-14	RA	10/30/2013	191.56	121.69	--	69.87	0.00
cont'd	RA	3/10/2014	191.56	122.51	--	69.05	0.00
	RA	6/3/2014	191.56	126.30	--	65.26	0.00
	RA	12/9/2014	193.87	Dry	--	--	--
	RA	3/13/2015	193.87	Dry	--	--	--
	RA	6/2/2015	193.87	Dry	--	--	--
	RA	8/17/2015	193.87	Dry	--	--	--
	RA	12/1/2015	193.87	Dry	--	--	--
	RA	3/2/2016	193.87	Dry	--	--	--
MW-15	DP	6/12/2013	191.26	89.96	--	101.30	0.00
	DP	8/14/2013	191.26	Dry	--	--	--
	DP	10/30/2013	191.26	Dry	--	--	--
	DP	3/10/2014	191.26	Dry	--	--	--
	DP	6/3/2014	191.26	Dry	--	--	--
	DP	12/9/2014	193.56	Dry	--	--	--
	DP	3/13/2015	193.56	91.95	--	101.61	0.00
	DP	6/2/2015	193.56	Dry	--	--	--
	DP	8/17/2015	193.56	Dry	--	--	--
	DP	12/1/2015	193.56	Dry	--	--	--
	DP	3/2/2016	193.56	Dry	--	--	--
MW-16	RA	6/12/2013	191.80	114.76	--	77.04	0.00
	RA	8/14/2013	191.80	117.45	--	74.35	0.00
	RA	10/30/2013	191.80	119.26	--	72.54	0.00
	RA	3/10/2014	191.80	122.46	--	69.34	0.00
	RA	6/3/2014	191.80	126.35	--	65.45	0.00
	RA	12/9/2014	194.69	132.50	--	62.19	0.00
	RA	3/13/2015	194.69	132.44	--	62.25	0.00
	RA	6/2/2015	194.69	Dry	--	--	--
	RA	8/17/2015	194.69	Dry	--	--	--
	RA	12/1/2015	194.69	Dry	--	--	--
	RA	3/2/2016	194.69	Dry	--	--	--
MW-17	RA	6/12/2013	188.50	112.35	--	76.15	0.00
	RA	8/14/2013	188.50	115.41	--	73.09	0.00
	RA	10/30/2013	188.50	118.37	--	70.13	0.00
	RA	3/10/2014	188.50	119.39	--	69.11	0.00
	RA	6/3/2014	188.50	123.10	--	65.40	0.00
	RA	12/9/2014	192.54	133.74	--	58.80	0.00
	RA	3/13/2015	192.54	133.58	--	58.96	0.00
	RA	6/2/2015	192.54	Dry	--	--	--
	RA	8/17/2015	192.54	Dry	--	--	--
	RA	12/1/2015	192.54	Dry	--	--	--
	RA	3/2/2016	192.54	Dry	--	--	--
MW-18	DP	6/12/2013	188.70	87.09	--	101.61	0.00
	DP	8/14/2013	188.70	87.10	--	101.60	0.00

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Table 3
Summary of Historical Groundwater Groundwater Elevation Data
Former Orcutt Refinery
1550 West Stowell Road, Santa Maria, California

Well ID	Zone of Completion	Date	TOC (ft. AMSL)	DTW (ft.)	DTSPH (ft.)	GWE [(1)] (ft. AMSL)	SPH Thickness (ft.)
MW-18	DP	10/30/2013	188.70	87.51	--	101.19	0.00
cont'd	DP	3/10/2014	188.70	89.49	--	99.21	0.00
	DP	6/3/2014	188.70	86.55	--	102.15	0.00
	DP	12/9/2014	192.51	93.39	--	99.12	0.00
	DP	3/13/2015	192.51	89.73	--	102.78	0.00
	DP	6/2/2015	192.51	89.63	--	102.88	0.00
	DP	8/17/2015	192.51	90.05	--	102.46	0.00
	DP	12/1/2015	192.51	90.42	--	102.09	0.00
	DP	3/2/2016	192.51	89.76	--	102.75	0.00
MW-19	RA	12/9/2014	192.81	135.20	--	57.61	0.00
	RA	3/13/2015	192.81	134.51	--	58.30	0.00
	RA	6/2/2015	192.81	137.88	--	54.93	0.00
	RA	8/17/2015	192.81	141.70	--	51.11	0.00
	RA	12/1/2015	192.81	145.17	--	47.64	0.00
	RA	3/2/2016	192.81	143.60	--	49.21	0.00
1480-MW-1	RA	12/9/2014	195.62	137.97	--	57.65	0.00
	RA	3/13/2015	195.62	137.51	--	58.11	0.00
	RA	6/2/2015	195.62	140.85	--	54.77	0.00
	RA	8/17/2015	195.62	144.84	--	50.78	0.00
	RA	12/1/2015	195.62	Dry	--	--	--
	RA	3/2/2016	195.62	146.98	--	48.64	0.00

Notes:

Zone Abbreviations: SP = Shallow Perched; DP = Deep Perched; and RA = Regional Aquifer

TOC = top of casing elevation

AMSL = above mean sea level

(ft.) = feet

DTW = depth to water

DTSPH = depth to separate-phase hydrocarbons

GWE = groundwater elevation

-- = not established or not applicable

SPH = separate-phase hydrocarbons

(1) = If SPH present, corrected GWE = TOC - Measured DTW + (SPH thickness x oil density [0.90])

Table 4
Historical Groundwater Groundwater Analytical Results - TPH and BTEX
Former Orcutt Refinery
1550 West Stowell Road, Santa Maria, California

Well ID	Zone of Completion	Date	TPH-g (µg/l)	TPH-d (µg/l)	TPH-d SGC (µg/l)	TPH-o (µg/l)	TPH-o SGC (µg/l)	TPH-Sum[1] (µg/l)	TPH-Sum SGC[2] (µg/l)	B (µg/l)	T (µg/l)	E (µg/l)	X (µg/l)
MW-1	RA	4/5/2004	<50	<100	--	<100	--	<250	--	<0.5	<0.5	<0.5	<0.5
	RA	5/21/2004	--	--	--	--	--	--	--	--	--	--	--
	RA	7/7/2004	<50	<100	--	<100	--	<250	--	<0.5	<0.5	<0.5	<0.5
	RA	9/16/2004	--	--	--	--	--	--	--	--	--	--	--
	RA	7/5/2005	--	--	--	--	--	--	--	--	--	--	--
	RA	3/20/2007	<100	<94	--	<94	--	<288	--	<0.5	<2.0	<2.0	<4.0
	RA	8/1/2007	--	--	--	--	--	--	--	--	--	--	--
	RA	9/19/2007	--	--	--	--	--	--	--	--	--	--	--
	RA	3/5/2008	--	--	--	--	--	--	--	--	--	--	--
	RA	5/22/2012	--	--	--	--	--	--	--	--	--	--	--
	RA	12/10/2012	--	--	--	--	--	--	--	--	--	--	--
	RA	3/4/2013	--	--	--	--	--	--	--	--	--	--	--
	RA	6/12/2013	--	--	--	--	--	--	--	--	--	--	--
	RA	8/14/2013	--	--	--	--	--	--	--	--	--	--	--
	RA	10/30/2013	--	--	--	--	--	--	--	--	--	--	--
	RA	3/10/2014	--	--	--	--	--	--	--	--	--	--	--
	RA	6/3/2014	--	--	--	--	--	--	--	--	--	--	--
	RA	12/9/2014	--	--	--	--	--	--	--	--	--	--	--
	RA	3/13/2015	--	--	--	--	--	--	--	--	--	--	--
	RA	6/2/2015	--	--	--	--	--	--	--	--	--	--	--
	RA	8/17/2015	--	--	--	--	--	--	--	--	--	--	--
	RA	12/1/2015	--	--	--	--	--	--	--	--	--	--	--
	RA	3/2/2016	--	--	--	--	--	--	--	--	--	--	--
MW-2	DP	4/5/2004	8,800	17,000	--	4,800	--	30,600	--	<0.5	<0.5	6.5	11
	DP	5/21/2004	--	--	--	--	--	--	--	--	--	--	--
	DP	7/7/2004	--	--	--	--	--	--	--	--	--	--	--
	DP	9/16/2004	--	--	--	--	--	--	--	--	--	--	--
	DP	7/5/2005	--	--	--	--	--	--	--	--	--	--	--
	DP	3/20/2007	<100	760	--	160	--	920	--	2.7	<2.0	<2.0	<4.0
	DP	8/1/2007	--	--	--	--	--	--	--	--	--	--	--
	DP	9/19/2007	--	--	--	--	--	--	--	--	--	--	--
	DP	3/5/2008	--	--	--	--	--	--	--	--	--	--	--
	DP	5/22/2012	--	--	--	--	--	--	--	--	--	--	--
	DP	12/10/2012	--	--	--	--	--	--	--	--	--	--	--
	DP	3/4/2013	320	18,000	--	11,000	--	29,320	--	2.5	1.0	2.3	1.5
	DP	6/12/2013	--	--	--	--	--	--	--	--	--	--	--

Table 4
Historical Groundwater Groundwater Analytical Results - TPH and BTEX
Former Orcutt Refinery
1550 West Stowell Road, Santa Maria, California

Well ID	Zone of Completion	Date	TPH-g (µg/l)	TPH-d (µg/l)	TPH-d SGC (µg/l)	TPH-o (µg/l)	TPH-o SGC (µg/l)	TPH-Sum[1] (µg/l)	TPH-Sum SGC[2] (µg/l)	B (µg/l)	T (µg/l)	E (µg/l)	X (µg/l)
MW-2	DP	8/14/2013	--	--	--	--	--	--	--	--	--	--	--
cont'd	DP	10/30/2013	--	--	--	--	--	--	--	--	--	--	--
	DP	3/10/2014	--	--	--	--	--	--	--	--	--	--	--
	DP	6/3/2014	--	--	--	--	--	--	--	--	--	--	--
	DP	12/9/2014	--	--	--	--	--	--	--	--	--	--	--
	DP	3/13/2015	--	--	--	--	--	--	--	--	--	--	--
	DP	6/2/2015	--	--	--	--	--	--	--	--	--	--	--
	DP	8/17/2015	--	--	--	--	--	--	--	--	--	--	--
	DP	12/1/2015	--	--	--	--	--	--	--	--	--	--	--
	DP	3/2/2016	210	38,000	7,300	19,000	4,500	57,210	12,010	8.7	2.2	0.76	0.67
MW-3	RA	4/5/2004	5,500	400	--	<100	--	5,900	--	70	<0.5	5	<0.5
	RA	5/21/2004	--	--	--	--	--	--	--	--	--	--	--
	RA	7/7/2004	2,900	420	--	<100	--	3,320	--	26	<0.5	2.3	<0.5
	RA	9/16/2004	2,800	650	--	180	--	3,630	--	4.7	<0.5	0.9	<0.5
	RA	7/5/2005	2,400	590	--	310	--	3,300	--	14	2.8	2.9	2.8
	RA	3/20/2007	740	110	--	<94	--	850	--	0.59	<2.0	<2.0	<2.0
	RA	8/1/2007	--	--	--	--	--	--	--	--	--	--	--
	RA	9/19/2007	--	--	--	--	--	--	--	--	--	--	--
	RA	3/6/2008	1,500	490	--	320	--	2,310	--	1.8	<0.50	3.3	<0.50
						Destroyed							
MW-4	DP	4/5/2004	<100	<100	--	<100	--	<300	--	<0.5	<0.5	<0.5	<0.5
	DP	5/21/2004	--	--	--	--	--	--	--	--	--	--	--
	DP	7/7/2004	<100	<100	--	<100	--	<300	--	<0.5	<0.5	<0.5	<0.5
	DP	9/16/2004	<100	<100	--	<100	--	<300	--	<0.5	<0.5	<0.5	<0.5
	DP	7/5/2005	<100	<100	--	47	--	47	--	<0.5	<0.5	<0.5	<0.5
	DP	3/20/2007	--	--	--	--	--	--	--	--	--	--	--
	DP	8/1/2007	--	--	--	--	--	--	--	--	--	--	--
	DP	9/26/2007	--	--	--	--	--	--	--	--	--	--	--
	DP	3/5/2008	<50	95	--	460	--	555	--	<0.5	0.74	<0.5	<0.5
	DP	5/22/2012	<50	<52	--	<100	--	<202	--	<0.50	<0.50	<0.50	<0.50
	DP	12/10/2012	--	--	--	--	--	--	--	--	--	--	--
	DP	3/4/2013	<50	48 J	--	230	--	230	--	<0.5	<0.5	<0.5	<0.5
	DP	6/12/2013	110	<51	--	82 J	--	110	--	<0.50	<0.50	<0.50	<0.50
	DP	8/15/2013	<50	<53	--	59 J	--	<213	--	<0.50	<0.50	<0.50	<0.50
	DP	10/30/2013	--	--	--	--	--	--	--	--	--	--	--

Table 4
Historical Groundwater Groundwater Analytical Results - TPH and BTEX
Former Orcutt Refinery
1550 West Stowell Road, Santa Maria, California

Well ID	Zone of Completion	Date	TPH-g (µg/l)	TPH-d (µg/l)	TPH-d SGC (µg/l)	TPH-o (µg/l)	TPH-o SGC (µg/l)	TPH-Sum[1] (µg/l)	TPH-Sum SGC[2] (µg/l)	B (µg/l)	T (µg/l)	E (µg/l)	X (µg/l)
MW-4	DP	3/10/2014	--	--	--	--	--	--	--	--	--	--	--
cont'd	DP	6/4/2014	<50	<54	--	56 J	<110	<214	<210	<0.50	<0.50	<0.50	<0.50
	DP	12/9/2014	<50	<53	--	61 J	<110	<213	<213	<0.50	<0.50	<0.50	<0.50
	DP	3/13/2015	<50	<53	--	<110	--	<213	--	<0.50	<0.50	<0.50	<0.50
	DP	6/2/2015	<50	<51	--	<100	--	<201	--	<0.50	<0.50	<0.50	<0.50
	DP	8/17/2015	<50	<51	--	<100	--	<201	--	<0.50	<0.50	<0.50	<0.50
	DP	12/1/2015	<50	<62	--	150	<120	150	<170	<0.50	<0.50	<0.50	<0.50
	DP	3/2/2016	<50	<53	--	<110	--	<213	<50	<0.50	<0.50	<0.50	<0.50
MW-5	DP	4/5/2004	2,700	300	--	<100	--	3,000	--	13	54	15	16
	DP	5/21/2004	--	--	--	--	--	--	--	--	--	--	--
	DP	7/7/2004	660	170	--	<100	--	830	--	8.4	4.9	4.9	7.2
	DP	9/16/2004	300	200	--	<100	--	500	--	1.9	0.6	0.6	1.2
	DP	7/5/2005	1,700	400	--	120	--	2,100	--	4.9	17	17	6.8
	DP	3/20/2007	<100	220	--	<94	--	220	--	0.53	<2.0	<2.0	<4.0
	DP	8/1/2007	130	130	--	<94	--	260	--	2.4	<0.36	1	<0.90
	DP	9/27/2007	<50	94	--	160	--	254	--	<0.50	<0.50	<0.50	<0.50
	DP	3/6/2008	3,200	320	--	170	--	3,690	--	19	110	19	41
	DP	5/22/2012	920	400	--	140	--	1,460	--	6.2	5.0	8.7	2.5
	DP	12/10/2012	280	350	--	190	--	820	--	1.5	<0.50	0.95	<0.50
	DP	3/4/2013	210	220	--	170	--	600	--	0.84	0.26 J	0.52	<0.5
	DP	6/12/2013	96	140	--	150	--	386	--	0.44 J	<0.50	0.39 J	0.40 J
	DP	8/15/2013	24 J	150	--	220	--	370	--	0.25 J	<0.50	<0.50	<0.50
	DP	10/30/2013	--	--	--	--	--	--	--	--	--	--	--
	DP	3/10/2014	--	--	--	--	--	--	--	--	--	--	--
	DP	6/4/2014	<50	140	<52	52 J	<100	140	<202	<0.50	<0.50	<0.50	<0.50
	DP	12/9/2014	<50	170	<52	180	<100	350	<202	<0.50	<0.50	<0.50	<0.50
	DP	3/16/2015	<50	96	<52	190	<100	286	<202	0.63	<0.50	<0.50	<0.50
	DP	6/2/2015	<50	45 J	<53	100 J	<110	<213	<213	<0.50	<0.50	<0.50	<0.50
	DP	8/18/2015	<50	69	<49	78 J	<99	69	<198	0.45 J	<0.50	<0.50	<0.50
	DP	12/1/2015	--	--	--	--	--	--	--	--	--	--	--
	DP	3/3/2016	<50	190	<49	120	<98	310	<197	<0.50	<0.50	<0.50	<0.50
MW-6A	RA	7/7/2004	<50	<100	--	<100	--	<250	--	<0.5	<0.5	<0.5	<0.5
	RA	9/16/2004	<50	<100	--	<100	--	<250	--	<0.5	<0.5	<0.5	<0.5
	RA	7/5/2005	81	75	--	<100	--	156	--	2.2	<0.5	<0.5	<0.5
	RA	3/20/2007	<100	<94	--	<94	--	<288	--	<0.5	<2.0	<2.0	<4.0
	RA	8/1/2007	--	--	--	--	--	--	--	--	--	--	--

Table 4
Historical Groundwater Groundwater Analytical Results - TPH and BTEX
Former Orcutt Refinery
1550 West Stowell Road, Santa Maria, California

Well ID	Zone of Completion	Date	TPH-g (µg/l)	TPH-d (µg/l)	TPH-d SGC (µg/l)	TPH-o (µg/l)	TPH-o SGC (µg/l)	TPH-Sum[(1)] (µg/l)	TPH-Sum SGC[(2)] (µg/l)	B (µg/l)	T (µg/l)	E (µg/l)	X (µg/l)
MW-6A	RA	9/27/2007	--	--	--	--	--	--	--	--	--	--	--
cont'd	RA	3/6/2008	92	<50	--	<100	--	92	--	<0.50	<0.50	<0.50	<0.50
	RA	5/22/2012	--	--	--	--	--	--	--	--	--	--	--
	RA	12/10/2012	--	--	--	--	--	--	--	--	--	--	--
	RA	3/4/2013	--	--	--	--	--	--	--	--	--	--	--
	RA	6/12/2013	--	--	--	--	--	--	--	--	--	--	--
	RA	8/14/2013	--	--	--	--	--	--	--	--	--	--	--
	RA	10/30/2013	--	--	--	--	--	--	--	--	--	--	--
	RA	3/10/2014	--	--	--	--	--	--	--	--	--	--	--
	RA	6/3/2014	--	--	--	--	--	--	--	--	--	--	--
	RA	12/9/2014	--	--	--	--	--	--	--	--	--	--	--
	RA	3/13/2015	--	--	--	--	--	--	--	--	--	--	--
	RA	6/2/2015	--	--	--	--	--	--	--	--	--	--	--
	RA	8/17/2015	--	--	--	--	--	--	--	--	--	--	--
	RA	12/1/2015	--	--	--	--	--	--	--	--	--	--	--
	RA	3/2/2016	--	--	--	--	--	--	--	--	--	--	--
MW-6B	SP	7/7/2004	68	360	--	<100	--	428	--	<0.5	<0.5	<0.5	<0.5
	SP	9/16/2004	<50	350	--	120	--	470	--	<0.5	<0.5	<0.5	<0.5
	SP	7/5/2005	100	300	--	220	--	620	--	<0.5	<0.5	<0.5	<0.5
	SP	3/21/2007	<100	220	--	<94	--	220	--	<0.5	<2.0	<2.0	<4.0
	SP	8/1/2007	<47	120	--	<91	--	120	--	<0.28	<0.36	<0.25	<0.90
	SP	9/20/2007	--	--	--	--	--	--	--	--	--	--	--
	SP	3/5/2008	<50	240	--	510	--	750	--	<0.50	<0.50	<0.50	<0.50
	SP	5/22/2012	<50	230	--	170	--	400	--	<0.50	<0.50	<0.50	<0.50
	SP	12/10/2012	--	--	--	--	--	--	--	--	--	--	--
	SP	3/4/2013	--	--	--	--	--	--	--	--	--	--	--
	SP	6/12/2013	--	--	--	--	--	--	--	--	--	--	--
	SP	8/14/2013	--	--	--	--	--	--	--	--	--	--	--
	SP	10/30/2013	--	--	--	--	--	--	--	--	--	--	--
	SP	3/10/2014	--	--	--	--	--	--	--	--	--	--	--
	SP	6/3/2014	--	--	--	--	--	--	--	--	--	--	--
	SP	12/9/2014	--	--	--	--	--	--	--	--	--	--	--
	SP	3/13/2015	--	--	--	--	--	--	--	--	--	--	--
	SP	6/2/2015	--	--	--	--	--	--	--	--	--	--	--
	SP	8/17/2015	--	--	--	--	--	--	--	--	--	--	--

Table 4
Historical Groundwater Groundwater Analytical Results - TPH and BTEX
Former Orcutt Refinery
1550 West Stowell Road, Santa Maria, California

Well ID	Zone of Completion	Date	TPH-g (µg/l)	TPH-d (µg/l)	TPH-d SGC (µg/l)	TPH-o (µg/l)	TPH-o SGC (µg/l)	TPH-Sum[1] (µg/l)	TPH-Sum SGC[2] (µg/l)	B (µg/l)	T (µg/l)	E (µg/l)	X (µg/l)
MW-6B	SP	12/1/2015	--	--	--	--	--	--	--	--	--	--	--
cont'd	SP	3/2/2016	--	--	--	--	--	--	--	--	--	--	--
MW-7	RA	7/7/2004	6,700	720	--	160	--	7,580	--	<0.5	230	76	360
	RA	9/16/2004	2,700	650	--	210	--	3,560	--	1.5	22	<0.5	69
	RA	7/5/2005	1,500	560	--	180	--	2,240	--	<0.5	<0.5	<0.5	5.6
	RA	3/21/2007	<100	330	--	110	--	440	--	<0.5	<2.0	<2.0	<4.0
	RA	8/1/2007	<47	230	--	110	--	340	--	<0.28	<0.36	<0.25	<0.90
	RA	9/27/2007	640	180	--	120	--	940	--	<0.50	<0.50	<0.50	<0.50
	RA	3/6/2008	250	480	--	190	--	920	--	<0.50	<0.50	<0.50	<0.50
	RA	5/22/2012	--	--	--	--	--	--	--	--	--	--	--
	RA	12/10/2012	--	--	--	--	--	--	--	--	--	--	--
	RA	3/4/2013	--	--	--	--	--	--	--	--	--	--	--
	RA	6/12/2013	--	--	--	--	--	--	--	--	--	--	--
	RA	8/14/2013	--	--	--	--	--	--	--	--	--	--	--
	RA	10/30/2013	--	--	--	--	--	--	--	--	--	--	--
	RA	3/10/2014	--	--	--	--	--	--	--	--	--	--	--
	RA	6/3/2014	--	--	--	--	--	--	--	--	--	--	--
	RA	12/9/2014	--	--	--	--	--	--	--	--	--	--	--
	RA	3/13/2015	--	--	--	--	--	--	--	--	--	--	--
	RA	6/2/2015	--	--	--	--	--	--	--	--	--	--	--
	RA	8/17/2015	--	--	--	--	--	--	--	--	--	--	--
	RA	12/1/2015	--	--	--	--	--	--	--	--	--	--	--
	RA	3/2/2016	--	--	--	--	--	--	--	--	--	--	--
MW-8	RA	7/7/2004	310	680	--	<100	--	990	--	2.0	<0.5	<0.5	1.9
	RA	9/16/2004	110	280	--	<100	--	390	--	<0.5	<0.5	<0.5	<0.5
	RA	7/5/2005	90	190	--	86	--	366	--	0.78	<0.5	<0.5	<0.5
	RA	3/21/2007	<100	<94	--	<94	--	<288	--	<0.5	<2.0	<2.0	<4.0
	RA	8/1/2007	130	110	--	<94	--	240	--	<0.28	<0.36	<0.25	<0.90
	RA	9/26/2007	<50	65	--	<100	--	65	--	<0.50	<0.50	<0.50	<0.50
	RA	3/6/2008	140	180	--	<100	--	320	--	<0.50	<0.50	<0.50	<0.50
							Destroyed						
MW-9	RA	7/7/2004	<50	<100	--	<100	--	<250	--	<0.5	<0.5	<0.5	<0.5
	RA	9/16/2004	<50	<100	--	<100	--	<250	--	<0.5	<0.5	<0.5	<0.5
	RA	7/5/2005	<50	<100	--	<100	--	<250	--	<0.5	<0.5	<0.5	<0.5
	RA	3/21/2007	<100	<94	--	<94	--	<288	--	<0.5	<2.0	<2.0	<4.0
	RA	8/1/2007	<47	<94	--	<94	--	<235	--	<0.28	<0.36	<0.25	<0.90

Table 4
Historical Groundwater Groundwater Analytical Results - TPH and BTEX
Former Orcutt Refinery
1550 West Stowell Road, Santa Maria, California

Well ID	Zone of Completion	Date	TPH-g (µg/l)	TPH-d (µg/l)	TPH-d SGC (µg/l)	TPH-o (µg/l)	TPH-o SGC (µg/l)	TPH-Sum[1] (µg/l)	TPH-Sum SGC[2] (µg/l)	B (µg/l)	T (µg/l)	E (µg/l)	X (µg/l)
MW-9	RA	9/20/2007	<50	<50	--	<100	--	<200	--	<0.50	<0.50	<0.50	<0.50
cont'd	RA	3/5/2008	<50	<50	--	<100	--	<200	--	<0.50	<0.50	<0.50	<0.50
	RA	5/22/2012	<50	<57	--	<110	--	<217	--	<0.50	<0.50	<0.50	<0.50
	RA	12/10/2012	--	--	--	--	--	--	--	--	--	--	--
	RA	3/4/2013	29 J	180	--	760	--	940	--	<0.5	<0.5	<0.5	<0.5
	RA	6/12/2013	--	--	--	--	--	--	--	--	--	--	--
	RA	8/14/2013	--	--	--	--	--	--	--	--	--	--	--
	RA	10/30/2013	--	--	--	--	--	--	--	--	--	--	--
	RA	3/10/2014	--	--	--	--	--	--	--	--	--	--	--
	RA	6/3/2014	--	--	--	--	--	--	--	--	--	--	--
	RA	12/9/2014	--	--	--	--	--	--	--	--	--	--	--
	RA	3/13/2015	--	--	--	--	--	--	--	--	--	--	--
	RA	6/2/2015	--	--	--	--	--	--	--	--	--	--	--
	RA	8/17/2015	--	--	--	--	--	--	--	--	--	--	--
	RA	12/1/2015	--	--	--	--	--	--	--	--	--	--	--
	RA	3/2/2016	--	--	--	--	--	--	--	--	--	--	--
MW-10	RA	7/7/2004	<50	<100	--	<100	--	<200	--	<0.5	<0.5	<0.5	<0.5
	RA	9/16/2004	220	260	--	<100	--	480	--	<0.5	<0.5	<0.5	<0.5
	RA	7/5/2005	61	150	--	<50	--	211	--	<0.5	<0.5	<0.5	<0.5
	RA	3/21/2007	<100	490	--	<94	--	490	--	<0.5	<2.0	<2.0	<4.0
	RA	8/1/2007	<47	290	--	<94	--	290	--	<0.28	<0.36	<0.25	<0.90
	RA	9/27/2007	<50	<50	--	<100	--	<200	--	<0.50	<0.50	<0.50	<0.50
	RA	3/6/2008	<50	67	--	<100	--	67	--	<0.50	<0.50	<0.50	<0.50
	RA	5/22/2012	--	--	--	--	--	--	--	--	--	--	--
	RA	12/10/2012	--	--	--	--	--	--	--	--	--	--	--
	RA	3/4/2013	--	--	--	--	--	--	--	--	--	--	--
	RA	6/12/2013	--	--	--	--	--	--	--	--	--	--	--
	RA	8/14/2013	--	--	--	--	--	--	--	--	--	--	--
	RA	10/30/2013	--	--	--	--	--	--	--	--	--	--	--
	RA	3/10/2014	--	--	--	--	--	--	--	--	--	--	--
	RA	6/3/2014	--	--	--	--	--	--	--	--	--	--	--
	RA	12/9/2014	--	--	--	--	--	--	--	--	--	--	--
	RA	3/13/2015	--	--	--	--	--	--	--	--	--	--	--
	RA	6/2/2015	--	--	--	--	--	--	--	--	--	--	--
	RA	8/17/2015	--	--	--	--	--	--	--	--	--	--	--

Table 4
Historical Groundwater Groundwater Analytical Results - TPH and BTEX
Former Orcutt Refinery
1550 West Stowell Road, Santa Maria, California

Well ID	Zone of Completion	Date	TPH-g (µg/l)	TPH-d (µg/l)	TPH-d SGC (µg/l)	TPH-o (µg/l)	TPH-o SGC (µg/l)	TPH-Sum[1] (µg/l)	TPH-Sum SGC[2] (µg/l)	B (µg/l)	T (µg/l)	E (µg/l)	X (µg/l)
MW-10	RA	12/1/2015	--	--	--	--	--	--	--	--	--	--	--
cont'd	RA	3/2/2016	--	--	--	--	--	--	--	--	--	--	--
MW-11	RA	5/22/2012	820	5,600	--	1,800	--	8,220	--	0.81	12	0.58	43
	RA	12/10/2012	620	2,600	--	760	--	3,980	--	1.7	<0.50	<0.50	<0.50
	RA	3/4/2013	330	530	--	92 J	--	860	--	2.8	<0.5	<0.5	<0.5
	RA	6/13/2013	880	480	--	110	--	1,470	--	3.7	0.41 J	0.43 J	0.88
	RA	8/15/2013	1,400	500	--	130	--	2,030	--	0.35 J	0.69	<0.50	0.41 J
	RA	10/31/2013	1,100	530	87	170	79 J	1,800	1,187	0.67	<0.50	<0.50	0.85
	RA	3/11/2014	190	510	57	250	<110	950	247	<0.50	0.51	<0.50	0.42 J
	RA	6/3/2014	--	--	--	--	--	--	--	--	--	--	--
	RA	12/9/2014	--	--	--	--	--	--	--	--	--	--	--
	RA	3/13/2015	--	--	--	--	--	--	--	--	--	--	--
	RA	6/2/2015	--	--	--	--	--	--	--	--	--	--	--
	RA	8/17/2015	--	--	--	--	--	--	--	--	--	--	--
	RA	12/1/2015	--	--	--	--	--	--	--	--	--	--	--
	RA	3/2/2016	--	--	--	--	--	--	--	--	--	--	--
MW-12	RA	6/12/2013	28 J	53	--	55 J	--	53	--	<0.50	1.0	0.33 J	1.3
	RA	8/14/2013	<50	<50	--	64 J	--	<210	--	<0.50	<0.50	<0.50	0.37 J
	RA	10/30/2013	<50	<53	<50	170	160	170	160	<0.50	<0.50	<0.50	<0.50
	RA	3/10/2014	<50	<53	NA	79 J	<110	<213	<213	<0.50	<0.50	<0.50	<0.50
	RA	6/3/2014	<50	51 J	<54	<110	--	<214	--	<0.50	<0.50	<0.50	<0.50
	RA	12/9/2014	--	--	--	--	--	--	--	--	--	--	--
	RA	3/13/2015	--	--	--	--	--	--	--	--	--	--	--
	RA	6/2/2015	--	--	--	--	--	--	--	--	--	--	--
	RA	8/17/2015	--	--	--	--	--	--	--	--	--	--	--
	RA	12/1/2015	--	--	--	--	--	--	--	--	--	--	--
	RA	3/2/2016	--	--	--	--	--	--	--	--	--	--	--
MW-13	RA	6/12/2013	68	230	--	110	--	408	--	<0.50	1.1	0.36 J	1.5
	RA	8/15/2013	51	280	--	120	--	451	--	<0.50	<0.50	<0.50	0.28 J
	RA	10/31/2013	<50	220	<50	110	<100	330	<200	<0.50	<0.50	<0.50	<0.50
	RA	3/11/2014	<50	200	<53	170	<110	370	<213	<0.50	<0.50	<0.50	<0.50
	RA	6/3/2014	<50	160	<54	<110	--	160	<104	<0.50	<0.50	<0.50	<0.50
	RA	12/9/2014	--	--	--	--	--	--	--	--	--	--	--
	RA	3/13/2015	--	--	--	--	--	--	--	--	--	--	--
	RA	6/2/2015	--	--	--	--	--	--	--	--	--	--	--

Table 4
Historical Groundwater Groundwater Analytical Results - TPH and BTEX
Former Orcutt Refinery
1550 West Stowell Road, Santa Maria, California

Well ID	Zone of Completion	Date	TPH-g (µg/l)	TPH-d (µg/l)	TPH-d SGC (µg/l)	TPH-o (µg/l)	TPH-o SGC (µg/l)	TPH-Sum[(1)] (µg/l)	TPH-Sum SGC[(2)] (µg/l)	B (µg/l)	T (µg/l)	E (µg/l)	X (µg/l)
MW-13	RA	8/17/2015	--	--	--	--	--	--	--	--	--	--	--
cont'd	RA	12/1/2015	--	--	--	--	--	--	--	--	--	--	--
	RA	3/2/2016	--	--	--	--	--	--	--	--	--	--	--
MW-14	RA	6/13/2013	21 J	<52	--	71 J	--		--	<0.50	<0.50	<0.50	<0.50
	RA	8/15/2013	<50	<54	--	<110	--	<214	--	<0.50	<0.50	<0.50	<0.50
	RA	10/30/2013	<50	<52	<50	53 J	<100	<202	<200	<0.50	<0.50	<0.50	<0.50
	RA	3/10/2014	<50	<50	--	<50	--	<200	--	<0.50	<0.50	<0.50	<0.50
	RA	6/4/2014	<50	<53	--	<110	--	<214	--	<0.50	<0.50	<0.50	<0.50
	RA	12/9/2014	--	--	--	--	--	--	--	--	--	--	--
	RA	3/13/2015	--	--	--	--	--	--	--	--	--	--	--
	RA	6/2/2015	--	--	--	--	--	--	--	--	--	--	--
	RA	8/17/2015	--	--	--	--	--	--	--	--	--	--	--
	RA	12/1/2015	--	--	--	--	--	--	--	--	--	--	--
	RA	3/2/2016	--	--	--	--	--	--	--	--	--	--	--
MW-15	DP	6/12/2013	--	--	--	--	--		--	--	--	--	--
	DP	8/14/2013	--	--	--	--	--	--	--	--	--	--	--
	DP	10/30/2013	--	--	--	--	--	--	--	--	--	--	--
	DP	3/10/2014	--	--	--	--	--	--	--	--	--	--	--
	DP	6/3/2014	--	--	--	--	--	--	--	--	--	--	--
	DP	12/9/2014	--	--	--	--	--	--	--	--	--	--	--
	DP	3/13/2015	--	--	--	--	--	--	--	--	--	--	--
	DP	6/2/2015	--	--	--	--	--	--	--	--	--	--	--
	DP	8/17/2015	--	--	--	--	--	--	--	--	--	--	--
	DP	12/1/2015	--	--	--	--	--	--	--	--	--	--	--
	DP	3/2/2016	--	--	--	--	--	--	--	--	--	--	--
MW-16	RA	6/13/2013	30 J	59	--	54 J	--	59	--	<0.50	1.2	0.39 J	1.6
	RA	8/14/2013	<50	92	--	64 J	--	92	--	<0.50	<0.50	<0.50	1.0
	RA	10/31/2013	<50	110	<50	56 J	<100	110	<200	<0.50	<0.50	<0.50	<0.50
	RA	3/10/2014	<50	120	<54	100 J	<110	120	<214	<0.50	<0.50	<0.50	<0.50
	RA	6/3/2014	<50	66	<54	<110	--	66	<104	<0.50	<0.50	<0.50	<0.50
	RA	12/9/2014	--	--	--	--	--	--	--	--	--	--	--
	RA	3/13/2015	--	--	--	--	--	--	--	--	--	--	--
	RA	6/2/2015	--	--	--	--	--	--	--	--	--	--	--
	RA	8/17/2015	--	--	--	--	--	--	--	--	--	--	--
	RA	12/1/2015	--	--	--	--	--	--	--	--	--	--	--
	RA	3/2/2016	--	--	--	--	--	--	--	--	--	--	--

Table 4
Historical Groundwater Groundwater Analytical Results - TPH and BTEX
Former Orcutt Refinery
1550 West Stowell Road, Santa Maria, California

Well ID	Zone of Completion	Date	TPH-g (µg/l)	TPH-d (µg/l)	TPH-d SGC (µg/l)	TPH-o (µg/l)	TPH-o SGC (µg/l)	TPH-Sum[1] (µg/l)	TPH-Sum SGC[2] (µg/l)	B (µg/l)	T (µg/l)	E (µg/l)	X (µg/l)
MW-17	RA	6/13/2013	71	250	--	130	--	451	--	0.47 J	3.4	0.57	2.9
	RA	8/15/2013	70	250	--	130	--	450	--	<0.50	0.37 J	0.30 J	1.6
	RA	10/31/2013	22 J	170	<50	110	<100	280	<200	<0.50	<0.50	<0.50	<0.50
	RA	3/10/2014	20 J	210	<55	160	<110	370	<215	<0.50	<0.50	<0.50	<0.50
	RA	6/3/2014	25 J	280	<57	73 J	<110	280	<217	<0.50	<0.50	<0.50	<0.50
	RA	12/9/2014	--	--	--	--	--	--	--	--	--	--	--
	RA	3/13/2015	--	--	--	--	--	--	--	--	--	--	--
	RA	6/2/2015	--	--	--	--	--	--	--	--	--	--	--
	RA	8/17/2015	--	--	--	--	--	--	--	--	--	--	--
	RA	12/1/2015	--	--	--	--	--	--	--	--	--	--	--
	RA	3/2/2016	--	--	--	--	--	--	--	--	--	--	--
MW-18	DP	6/13/2013	410	150	--	130	--	690	--	<0.50	<0.50	<0.50	0.41 J
	DP	8/15/2013	720	190	--	110	--	1,020	--	<0.50	<0.50	<0.50	<0.50
	DP	10/31/2013	930	280	<50	170	82 J	1,380	930	<0.50	<0.50	<0.50	<0.50
	DP	3/10/2014	--	--	--	--	--	--	--	--	--	--	--
	DP	6/3/2014	260	160	<56	64 J	<110	420	260	<0.50	<0.50	0.27 J	<0.50
	DP	12/9/2014	--	--	--	--	--	--	--	--	--	--	--
	DP	3/13/2015	--	--	--	--	--	--	--	--	--	--	--
	DP	6/3/2015	82	150	<52	410	<100	642	82	<0.50	<0.50	<0.50	<0.50
	DP	8/17/2015	100	150	<49	310	160	560	260	<0.50	<0.50	<0.50	<0.50
	DP	12/2/2015	110	140	<53	100 J	<110	250	110	0.96	4.4	0.87	5.8
	DP	3/3/2016	<50	89	<48	83 J	<95	89	<193	<0.50	0.44 J	<0.50	0.34 J
MW-19	RA	12/10/2014	<50	<51	--	77 J	<100	<201	<201	<0.50	<0.50	<0.50	<0.50
	RA	3/13/2015	<50	45 J	<51	55 J	<100	<213	<201	<0.50	<0.50	<0.50	<0.50
	RA	6/3/2015	<50	<53	--	<110	--	<213	--	<0.50	<0.50	<0.50	<0.50
	RA	8/18/2015	<50	<51	--	<100	--	<201	--	<0.50	<0.50	<0.50	<0.50
	RA	12/1/2015	<50	48 J	<51	58 J	<100	<50	<201	<0.50	<0.50	<0.50	<0.50
	RA	3/3/2016	<50	<48	--	48 J	<97	<98	<147	<0.50	<0.50	<0.50	<0.50
1480-MW-1	RA	12/10/2014	<50	<52	--	53 J	<100	<202	<202	<0.50	<0.50	<0.50	<0.50
	RA	3/16/2015	<50	<52	--	<100	--	<202	<50	<0.50	<0.50	<0.50	<0.50
	RA	6/3/2015	<50	<52	--	<100	--	<202	--	<0.50	<0.50	<0.50	<0.50
	RA	8/18/2015	<50	<51	--	<100	--	<201	--	<0.50	<0.50	<0.50	<0.50
	RA	12/1/2015	--	--	--	--	--	--	--	--	--	--	--
	RA	3/2/2016	--	--	--	--	--	--	--	--	--	--	--

Table 4
Historical Groundwater Groundwater Analytical Results - TPH and BTEX
Former Orcutt Refinery
1550 West Stowell Road, Santa Maria, California

Well ID	Zone of Completion	Date	TPH-g (µg/l)	TPH-d (µg/l)	TPH-d SGC (µg/l)	TPH-o (µg/l)	TPH-o SGC (µg/l)	TPH-Sum[1] (µg/l)	TPH-Sum SGC[2] (µg/l)	B (µg/l)	T (µg/l)	E (µg/l)	X (µg/l)
		SMU IL:	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1	150	700	1,750
		MCL:	--	--	--	--	--	--	--	1	150	700	1,750

Notes:
Zone Abbreviations: SP = Shallow Perched; DP = Deep Perched; and RA = Regional Aquifer
µg/l = micrograms per liter
TPH = total petroleum hydrocarbons
BTEX = benzene, toluene, ethylbenzene, and total xylenes
<1.0 = not indicated at or above the method reporting limit
SMU IL = Site Mitigation Unit Investigation Levels obtained from LUFT & SMU Guidance Document dated January 2007.
LUFT & SMU Guidance Document dated January 2007.
MCL = Maximum Contaminant Level
50 = Quantifiable result that exceeds SMU IL and/or MCL
J = Estimated value; results are less than the method reporting limit and above the method detection limit.
-- = not established or not applicable

[1] =Column calculated as the sum of the indicated concentrations for TPH in three carbon ranges (C4-C12, C13-C22, and C23-C40). J flag or estimated results not included in sum.
[2] = Column calculated as the sum of the indicated concentrations for TPH in three carbon ranges (C4-C12, C13-C22 SGC and C23-C40 SGC). J flag or estimated results not included in sum.

Table 5
Historical Groundwater Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road, Santa Maria, California

| Well ID | Date | Zone of Completion | 1,1,1,2-Tetrachloroethane | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachloroethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,1-Dichloropropene | 1,2,3-Trichlorobenzene | 1,2,3-Trichloropropane | 1,2,4-Trichlorobenzene | 1,2,4-Trimethylbenzene | 1,2-Dibromo-3-chloropropane | 1,2-Dibromoethane (EDB) | 1,2-Dichlorobenzene | 1,2-Dichloroethane | 1,2-Dichloropropane | 1,3,5-Trimethylbenzene | 1,3-Dichlorobenzene | 1,3-Dichloropropane | 1,4-Dichlorobenzene | 2,2-Dichloropropane | 2-Chlorotoluene | 4-Chlorotoluene | 4-Isopropyl Toluene | Benzene | Bromobenzene | Bromochloromethane | Bromodichloromethane | Bromoform | Bromomethane | Carbon tetrachloride | Chlorobenzene | Chloroethane | Chloroform | Chloromethane | cis-1,2-Dichloroethene | cis-1,3-Dichloropropene | Dibromochloromethane | Dibromomethane | Dichlorodifluoromethane | Ethylbenzene | Hexachlorobutadiene | Isopropylbenzene | Methylene Chloride | Naphthalene | n-Butylbenzene | n-Propylbenzene | sec-Butylbenzene | Styrene | tert-Butylbenzene | Tetrachloroethene (PCE) | Toluene | trans-1,2-Dichloroethene | trans-1,3-Dichloropropene | Trichloroethene (TCE) | Trichlorofluoromethane | Vinyl Chloride | Xylenes (total) | t-Amyl Methyl Ether | t-Butyl alcohol | Diisopropyl Ether | Ethanol | Ethyl t-Butyl Ether | Methyl t-Butyl Ether |
|---|---|---

Table 5
Historical Groundwater Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road, Santa Maria, California

| Well ID | Date | Zone of Completion | 1,1,1,2-Tetrachloroethane | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachloroethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,1-Dichloropropene | 1,2,3-Trichlorobenzene | 1,2,3-Trichloropropane | 1,2,4-Trichlorobenzene | 1,2,4-Trimethylbenzene | 1,2-Dibromo-3-chloropropane | 1,2-Dibromoethane (EDB) | 1,2-Dichlorobenzene | 1,2-Dichloroethane | 1,2-Dichloropropane | 1,3,5-Trimethylbenzene | 1,3-Dichlorobenzene | 1,3-Dichloropropane | 1,4-Dichlorobenzene | 2,2-Dichloropropane | 2-Chlorotoluene | 4-Chlorotoluene | 4-Isopropyl Toluene | Benzene | Bromobenzene | Bromochloromethane | Bromodichloromethane | Bromoform | Bromomethane | Carbon tetrachloride | Chlorobenzene | Chloroethane | Chloroform | Chloromethane | cis-1,2-Dichloroethene | cis-1,3-Dichloropropene | Dibromochloromethane | Dibromomethane | Dichlorodifluoromethane | Ethylbenzene | Hexachlorobutadiene | Isopropylbenzene | Methylene Chloride | Naphthalene | n-Butylbenzene | n-Propylbenzene | sec-Butylbenzene | Styrene | tert-Butylbenzene | Tetrachloroethene (PCE) | Toluene | trans-1,2-Dichloroethene | trans-1,3-Dichloropropene | Trichloroethene (TCE) | Trichlorofluoromethane | Vinyl Chloride | Xylenes (total) | t-Amyl Methyl Ether | t-Butyl alcohol | Diisopropyl Ether | Ethanol | Ethyl t-Butyl Ether | Methyl t-Butyl Ether |
|---|---|---

Table 5
Historical Groundwater Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road, Santa Maria, California

| Well ID | Date | Zone of Completion | 1,1,1,2-Tetrachloroethane | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachloroethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,1-Dichloropropene | 1,2,3-Trichlorobenzene | 1,2,3-Trichloropropane | 1,2,4-Trichlorobenzene | 1,2,4-Trimethylbenzene | 1,2-Dibromo-3-chloropropane | 1,2-Dibromoethane (EDB) | 1,2-Dichlorobenzene | 1,2-Dichloroethane | 1,2-Dichloropropane | 1,3,5-Trimethylbenzene | 1,3-Dichlorobenzene | 1,3-Dichloropropane | 1,4-Dichlorobenzene | 2,2-Dichloropropane | 2-Chlorotoluene | 4-Chlorotoluene | 4-Isopropyl Toluene | Benzene | Bromobenzene | Bromochloromethane | Bromodichloromethane | Bromoform | Bromomethane | Carbon tetrachloride | Chlorobenzene | Chloroethane | Chloroform | Chloromethane | cis-1,2-Dichloroethene | cis-1,3-Dichloropropene | Dibromochloromethane | Dibromomethane | Dichlorodifluoromethane | Ethylbenzene | Hexachlorobutadiene | Isopropylbenzene | Methylene Chloride | Naphthalene | n-Butylbenzene | n-Propylbenzene | sec-Butylbenzene | Styrene | tert-Butylbenzene | Tetrachloroethene (PCE) | Toluene | trans-1,2-Dichloroethene | trans-1,3-Dichloropropene | Trichloroethene (TCE) | Trichlorofluoromethane | Vinyl Chloride | Xylenes (total) | t-Amyl Methyl Ether | t-Butyl alcohol | Diisopropyl Ether | Ethanol | Ethyl t-Butyl Ether | Methyl t-Butyl Ether |
|---|---|---

Table 5
Historical Groundwater Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road, Santa Maria, California

| Well ID | Date | Zone of Completion | 1,1,1,2-Tetrachloroethane | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachloroethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,1-Dichloropropene | 1,2,3-Trichlorobenzene | 1,2,3-Trichloropropane | 1,2,4-Trichlorobenzene | 1,2,4-Trimethylbenzene | 1,2-Dibromo-3-chloropropane | 1,2-Dibromoethane (EDB) | 1,2-Dichlorobenzene | 1,2-Dichloroethane | 1,2-Dichloropropane | 1,3,5-Trimethylbenzene | 1,3-Dichlorobenzene | 1,3-Dichloropropane | 1,4-Dichlorobenzene | 2,2-Dichloropropane | 2-Chlorotoluene | 4-Chlorotoluene | 4-Isopropyl Toluene | Benzene | Bromobenzene | Bromochloromethane | Bromodichloromethane | Bromoform | Bromomethane | Carbon tetrachloride | Chlorobenzene | Chloroethane | Chloroform | Chloromethane | cis-1,2-Dichloroethene | cis-1,3-Dichloropropene | Dibromochloromethane | Dibromomethane | Dichlorodifluoromethane | Ethylbenzene | Hexachlorobutadiene | Isopropylbenzene | Methylene Chloride | Naphthalene | n-Butylbenzene | n-Propylbenzene | sec-Butylbenzene | Styrene | tert-Butylbenzene | Tetrachloroethene (PCE) | Toluene | trans-1,2-Dichloroethene | trans-1,3-Dichloropropene | Trichloroethene (TCE) | Trichlorofluoromethane | Vinyl Chloride | Xylenes (total) | t-Amyl Methyl Ether | t-Butyl alcohol | Diisopropyl Ether | Ethanol | Ethyl t-Butyl Ether | Methyl t-Butyl Ether |
|---|---|---

Table 6
Summary of Groundwater Analytical Results
Dissolved Metals
Former Orcutt Refinery
1550 West Stowell Road, Santa Maria, California

Well ID	Date	Zone of Completion	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
MW-1	03/10/14	RA	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	03/10/14	DP	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	03/10/14	DP	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	03/10/14	DP	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6A	03/10/14	RA	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6B	03/10/14	SP	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	03/10/14	RA	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	03/10/14	RA	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	03/10/14	RA	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-10	03/10/14	RA	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-11	03/11/14	RA	<10	<10	190	<2.0	<5.0	1.0 J	1.3 J	<5.0	<5.0	<0.200	**13**	6.2	<25	<5.0	<10	<50	<100
MW-12	03/10/14	RA	<10	<10	<50	<2.0	2.9 J	<2.0	<2.0	<5.0	<5.0	<0.200	5.9	8.1	<25	<5.0	<10	<50	<100
MW-13	03/11/14	RA	<10	5.3 J	22 J	<2.0	<5.0	5.7	<2.0	<5.0	4.0 J	<0.200	<5.0	5.5	<25	<5.0	<10	<50	<100
MW-14	03/10/14	RA	**8.8 J**	<10	25 J	<2.0	<5.0	1.2 J	<2.0	<5.0	<5.0	<0.200	3.4 J	5.3	11 J	<5.0	<10	<50	<100
MW-15	03/10/14	DP	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-16	03/10/14	RA	<10	<10	<50	<2.0	**5.7**	<2.0	<2.0	<5.0	4.2 J	<0.200	<5.0	15	11 J	<5.0	<10	<50	<100
MW-17	03/10/14	RA	<10	<10	<50	<2.0	3.3 J	1.3 J	1.8 J	<5.0	3.3 J	<0.200	<5.0	13	<25	<5.0	<10	<50	<100
MW-18	03/10/14	DP	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-19	12/10/14	RA	<50	<20	18 J	<10	<5.0	<10	<10	<20	<10	<0.200	6.2 J	4.1 J	<50	<10	<20	<50	<50
1480-MW-1	12/10/14	RA	<50	<20	18 J	<10	<5.0	<10	<10	<20	<10	<0.200	**13**	5.1	<50	<10	<20	<50	<50
SMU IL			6	10	1,000	4	5	50	50	1,000	15	2	10	100	50	100	2	50	5,000
DHS MCLs			6	10	1,000	4	5	50	50(1)	1,000	15	2	10(1)	100	50	100(2)	2	100(1)	5,000(2)

ABBREVIATIONS:

Zone Abbreviations: SP = Shallow Perched; DP = Deep Perched; and RA = Regional Aquifer

µg/L = micrograms per liter

J = denotes a value between the method detection limit and the reporting limit.

NA = not chemically analyzed

NOTES:

All results in ug/L

SMU IL = Site Mitigation Unit Investigation Levels obtained from LUFT & SMU Guidance Document dated January 2007.

MCLs Source: California Public Health Department, 2009, MCLs, DLRs, and PHGs for Regulated Drinking Water Contaminants, dated February 9, 2009.

50 = Quantifiable result that exceeds SMU IL and/or MCL

1: Agricultural water quality goal.

2: Secondary MCL.

-- = not established or not applicable

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Table 7
Summary of Groundwater Analytical Results
PAHs
Former Orcutt Refinery
1550 West Stowell Road, Santa Maria, California

Sample ID	Date Collected	Zone of Completion	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo (a) pyrene	Benzo (b) fluoranthene	Benzo (g,h,i) perylene	Benzo (k) fluoranthene	Chrysene	Dibenz (a,h) anthracene	Fluoranthene	Fluorene	Indeno (1,2,3-cd) pyrene	Naphthalene	Phenanthrene	Pyrene
MW-1	03/10/14	RA	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	03/10/14	DP	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	03/10/14	DP	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	03/10/14	DP	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6A	03/10/14	RA	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6B	03/10/14	SP	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	03/10/14	RA	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	03/10/14	RA	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	03/10/14	RA	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-10	03/10/14	RA	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-11	03/11/14	RA	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11
MW-12	03/10/14	RA	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
MW-13	03/11/14	RA	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
MW-14	03/10/14	RA	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
MW-15	03/10/14	DP	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-16	03/10/14	RA	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11
MW-17	03/10/14	RA	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12
MW-18	03/10/14	DP	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-19	12/10/14	RA	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
1480-MW-1	12/10/14	RA	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
DHS MCLs			--	--	--	--	0.2	--	--	--	--	--	--	--	--	--	--	--

ABBREVIATIONS:
ug/L = micrograms per liter
PAHs = polycyclic aromatic hydrocarbons
NA = Not Analyzed
NS = Not Sampled
MCL = DHS Maximum Contaminant Level
Zone Abbreviations: SP = Shallow Perched; DP = Deep Perched; and RA = Regional Aquifer

NOTES:
All results in ug/L
MCLs Source: California Public Health Department, 2009, MCLs, DLRs, and PHGs for Regulated Drinking Water Contaminants, dated February 9, 2009.
50 = Quantifiable result that exceeds MCL
-- = not established or not applicable

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SOIL DATA

Analytical Testing Summary - 17 CCR Metals

Depth (ft)	Sample Designation/	17 CCR Metals Results in milligrams per kilogram (mg/kg)																
		Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molyb	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
0-0.5	1550-HA1	ND	3.0	39	0.7	ND	6.6	3.0	8.1	7.3	ND	ND	7.9	ND	ND	ND	13	28
0-0.5	1550-HA2	ND	2.3	30	0.6	ND	7.1	2.8	18	12	0.2	1.8	11	ND	ND	ND	18	45
0-0.5	1550-HA3	ND	2.0	28	0.6	ND	11	2.6	8.7	26	ND	1.8	11	ND	ND	ND	15	40
10	1550-SB12-10	ND	1.7	20	0.6	ND	3.7	1.8	3.6	1.9	ND	ND	11	ND	ND	ND	16	12
10	1550-SB14-10	ND	ND	59	ND	ND	1.6	ND	4.1	8.4	ND	ND	15	ND	ND	ND	28	3.2
40	1550-SB17-40	ND	1.7	42	0.7	ND	6.6	3.5	7.4	3.6	ND	ND	8.9	ND	ND	ND	14	24
0.5	1550-SB25-0.5	ND	2.0	47	ND	ND	9.4	2.1	11	12	ND	2.2	8.2	ND	ND	ND	14	35
10	1550-SB25-10	ND	ND	44	ND	ND	1.8	ND	2.7	2.4	ND	ND	ND	ND	ND	ND	1.2	2.1
5	1550-SB32-5	ND	3.0	52	0.6	ND	11	2.9	8.8	4.5	ND	3.0	13	ND	ND	ND	22	30
Detection Limit		5.0	1.0	0.5	0.5	1.0	1.0	1.0	0.5	1.0	0.1	1.0	1.0	5.0	1.0	5.0	1.0	1.0
STLC		15	5	100	0.75	1	560	80	25	5	0.2	350	20	1	5	7	24	250
TTLC		500	500	10,000	75	100	2,500	8,000	2,500	1,000	20	3,500	2,000	100	500	700	2,400	5,000
PRG-R		31	0.39, 22	5,400	150	37	210	900	3,100	150	23	390	1,600	390	390	5.2	550	23,000
PRG-I		410	1.6, 260	67,000	1,900	450	450	1,900	41,000	750	310	5,100	20,000	5,100	5,100	67	7,200	100,000

ND - Not detected
STLC - Soluble threshold limit concentration
TTLC - Total threshold limit concentration
PRG - United States Environmental Protection Agency Region 9 Preliminary Remediation Goal for residential (R) and industrial (I) sites (October 2002); for arsenic, range of values represents cancer and non-cancer endpoints

Table 10 - Analytical Testing Summary
17 CCR Title 22 Metals

Former Lime Pit

Boring 1480-SB18 - Analytical Testing Summary - 17 CCR Title 22 Metals

Sampled September 22, 2004 | All units in milligrams per kilogram (mg/Kg) | EPA Methods 6020/7471

Depth	Sample ID	Parameter	Result	Practical Quantitation Limit	10 X STLC (mg/L)	TTLC	R-PRGs	I-PRGs
10.0	1480-SB18-10.0	Antimony	--	5.0	150	500	31	410
		Arsenic	--	1.0	50	500	0.062	0.25
		Barium	9.7	0.5	1,000	10,000	5,400	67,000
		Beryllium	--	0.5	7.5	75	150	1,900
		Cadmium	--	1.0	10	100	37	450
		Chromium	--	1.0	50 ^	500 *	30~	64+
		Cobalt	--	1.0	800	8,000	900	1,900
		Copper	0.6	0.5	250	2,500	3,100	41,000
		Lead	3.1	1.0	50	1,000	150	800
		Mercury	--	0.1	2	20	23	310
		Molybdenum	--	1.0	3,500	3,500	390	5,100
		Nickel	--	1.0	200	2,000	1,600	20,000
		Selenium	--	5.0	10	100	390	5,100
		Silver	--	1.0	50	500	390	5,100
		Thallium	--	5.0	70	700	5.2	67
		Vanadium	1.8	1.0	240	2,400	78	1,000
		Zinc	--	1.0	2,500	5,000	23,000	100,000

-- = Not detected above practical quantitation limit for that analyte

STLC - Soluble threshold limit concentration

TTLC - Total threshold limit concentration

PRG - United States Environmental Protection Agency Region 9 Preliminary Remediation Goal for residential (R) and industrial (I) sites (October 2004).

^ - 10X STLC for Cr 3+ is 5,600 mg/L, and for Cr 6+ (Hexavalent Chromium) is 50 mg/L

* - TTLC for Cr 3+ is 2,500 mg/kg, and for Cr 6+ (Hexavalent Chromium) is 500 mg/kg

~ - Residential PRG for Cr 3+ is 100,000 mg/kg, for Cr 6+ (Hexavalent Chromium) is 30 mg/kg and for Total Chromium (1:6 ratio Cr 6+: Cr 3+) is 210 mg/kg.

+ - Industrial PRG for Cr 3+ is 100,000 mg/kg, for Cr 6+ (Hexavalent Chromium) is 64 mg/kg and for Total Chromium (1:6 ratio Cr 6+: Cr 3+) is 450 mg/kg.

Dioxins

Table 4
Soil Analytical Results - Dioxins
Former Orcutt Refinery
1550 West Stowell Road
Santa Maria, California

Sample Location	Date	1,2,3,4,6,7,8-Hepta CDD	1,2,3,4,6,7,8-Hepta CDF	1,2,3,4,7,8,9-Hepta CDF	1,2,3,4,7,8-Hexa CDD	1,2,3,4,7,8-Hexa CDF	1,2,3,6,7,8-Hexa CDD	1,2,3,6,7,8-Hexa CDF	1,2,3,7,8,9-Hexa CDD	1,2,3,7,8,9-Hexa CDF	1,2,3,7,8-Penta CDD	1,2,3,7,8-Penta CDF	2,3,4,6,7,8-Hexa CDF	2,3,4,7,8-Penta CDF	2,3,7,8-Tetra CDD	2,3,7,8-Tetra CDF	Octa CDD	Octa CDF	Total Hepta CDD	Total Hepta CDF	Total Hexa CDD	Total Hexa CDF	Total Penta CDD	Total Penta CDF	Total Tetra CDD	Total Tetra CDF
Area1-Bot3-5'	6/13/2014	**65.8**	**3.1**	<12	<12	<12	**1.1**	<12	<12	<12	<12	<12	<12	<12	<5	<5	**497**	**2.9**	**122**	**10.6**	**7.1**	**2.6**	<12	<12	<5	<5
Area1-Bot14-5'	6/25/2014	**9.05**	**1.1**	<10	<10	**0.24**	**0.43**	<10	**0.33**	<10	<10	<10	<10	<10	<4	<4	**80.5**	<20	**17.4**	**3.7**	**2.7**	**1.5**	<10	<10	<4	<4
Area1-Bot21-8'	7/2/2014	**0.28**	<9.8	<9.8	<9.8	<9.8	<9.8	<9.8	<9.8	<9.8	<9.8	<9.8	<9.8	<9.8	<3.9	<3.9	**2.1**	<20	**0.28**	<9.8	<9.8	<9.8	<9.8	<9.8	<3.9	<3.9
Area1-Bot32-7'	7/30/2014	**0.72**	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<4	<4	**4.8**	<20	**1.3**	<10	<10	<10	<10	<10	<4	<4
Area1-Bot35-13'	7/30/2014	**50.5**	**6.6**	**0.63**	**0.44**	**1.6**	**1.2**	**0.64**	**1.5**	<10	<10	<10	**0.38**	<10	<4	<4	**500**	**8.8**	**102**	**15.7**	**10.7**	**9.38**	<10	**4.1**	<4	<4
Area1-Bot56-4'	8/6/2014	**7.0**	**0.72**	<9.8	<9.8	<9.8	**0.44**	<9.8	<9.8	<9.8	<9.8	<9.8	<9.8	<9.8	<3.9	<3.9	**62**	**0.94**	**13**	**0.72**	**2.2**	**0.97**	<9.8	<9.8	<3.9	<3.9
Area1-Bot65-6'	8/18/2014	**7.1**	**2.0**	**0.25**	<5	**0.16**	**0.28**	<5	<5	<5	<5	<5	<5	<5	<2	<2	**146**	**5.1**	**14.2**	**8.9**	**0.88**	**1.9**	<5	<5	<2	<2
Area1-Bot80-7'	8/18/2014	**7.6**	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<20	<20	**45.4**	<100	**15.3**	<50	**3.1**	**1.2**	<50	<50	<20	<20
Area1-SW-N8-3'	9/24/2014	**0.27**	<5	<5	<5	<5	<5	<5	<5	**0.42**	<5	<5	<5	<5	<2	<2	**2.1**	**0.18**	**0.27**	<5	<5	**0.42**	<5	<5	<2	<2
Area1-SW-S5-3'	7/25/2014	**2,790**	**70.3**	**3.4**	**2.5**	**5.1**	**32.7**	**0.65**	**17.9**	<5	**1.7**	<5	<5	**0.18**	<2	<2	**18,400**	**99.2**	**5,220**	**277**	**328**	**82.6**	**13.3**	**10.8**	**0.39**	**0.99**
Area3-SW-S1-3.5'	6/10/2014	**0.17**	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<1.9	<1.9	**1.0**	<9.6	**0.17**	<4.8	<4.8	<4.8	<4.8	<4.8	<1.9	<1.9
Area4-Bot1-7.5'	6/6/2014	**59.9**	**0.95**	<5	**1.3**	**0.34**	**4.9**	<5	**7.2**	<5	**2.8**	<5	<5	<5	**1.5**	<2	**156**	**0.31**	**108**	**1.6**	**68.5**	**1.9**	**19.2**	**0.87**	**2.8**	**0.12**
Area4-SW-N1-2'	6/6/2014	**4.2**	<5	<5	**0.12**	<5	**0.36**	<5	**0.55**	<5	**0.32**	<5	<5	<5	**0.19**	<2	**15.4**	**0.22**	**8.1**	**0.17**	**4.8**	**0.25**	**1.7**	<5	**0.41**	<2
Area6-SW-E2-2.5'	7/11/2014	**4.5**	<24	<24	<24	<24	<24	<24	<24	<24	<24	<24	<24	<24	<9.7	<9.7	**21.7**	<49	**8.6**	<24	**0.90**	<24	<24	<24	<9.7	<9.7
Area7-Bot6-3'	7/22/2014	**0.69**	<5	<5	<5	<5	<5	<5	<5	**0.16**	**0.14**	<5	<5	<5	<2	<2	**2.0**	**0.17**	**1.1**	<5	**0.11**	**0.16**	**0.14**	<5	<2	<2
Area7-SW-S5-1'	7/22/2014	**0.69**	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<2	<2	**5.5**	<10	**1.4**	<5	<5	<5	<5	<5	<2	<2
Area8-Bot8-7'	9/10/2014	**6,600**	**1,610**	**196**	**14.4**	**427**	**198**	**39.7**	**78**	<50	**9.8**	**2.5**	**15.1**	**7.8**	**3.7**	<20	**128,000**	**2,150**	**13,200**	**5,940**	**917**	**2,780**	**47.4**	**318**	**6.2**	**25.2**
Area8-Bot16-8'	9/16/2014	**514**	**142**	**13.9**	**2.7**	**31**	**11.6**	**21**	**9.5**	<50	**2.2**	**5.1**	**10.4**	**6.1**	<20	<20	**5,730**	**128**	**938**	**259**	**92.4**	**167**	**4.8**	**57.6**	<20	**25.4**
Area8-Bot17-5'	9/16/2014	**1,400**	**95.3**	**5.5**	**59**	**38**	**59.4**	**19.3**	**56.3**	<50	**21.6**	**7.0**	**13.1**	**11.9**	**5.5**	**15.1**	**5,940**	**60.7**	**3,790**	**168**	**1,310**	**187**	**376**	**151**	**150**	**103**
Area8-SW-E2-2'	9/3/2014	**0.49**	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<2	<2	**4.1**	<9.9	**0.96**	<5	<5	**0.63**	<5	**0.30**	<2	<2
Area8-SW-E5-2'	9/3/2014	**0.39**	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<2	<2	**3.5**	**0.19**	**0.75**	<5	<5	**0.30**	<5	<5	<2	<2
Area8-SW-W11-2'	9/16/2014	**2,640**	**392**	**49.4**	**6.1**	**99.1**	**60.3**	**9.4**	**29**	<50	**4.1**	<50	**3.9**	**2.1**	**2.2**	<20	**60,500**	**527**	**5,540**	**1,490**	**355**	**715**	**15.5**	**81.3**	**2.2**	**13.6**

Notes:

All results in picograms per gram (pg/g)

<10: Concentration less than the associated laboratory Reporting Limit (RL).

J: Estimated concentration detected between the Method Detection Limit and the Reporting Limit.

Bold: Concentration > Reporting Limit

EPA Method 8290

Table 1
Soil Analytical Results - Total Petroleum Hydrocarbons and BTEX
Former Orcutt Refinery
1550 West Stowell Road
Santa Maria, California

Sample Location	Depth	Date	TPHg (C4-C12)	TPHd (C13-C22)	TPHo (C23-C40)	Total TPH (C4-C40)	Benzene	Toluene	Ethylbenzene	Total Xylenes
T-2	5	8/21/2002	-	-	-	**8,500**	**2.8**	4.7	3.1	9.4
T-3	13	8/22/2002	-	-	-	**130,000**	**3.1**	10	9.5	34
T-4	3	8/23/2002	-	-	-	**62,000**	**3.4**	0.2	8.5	19
T-6	5	8/24/2002	-	-	-	**21,000**	**3.4**	10	9.8	19
T-8	5	8/25/2002	-	-	-	**170**	<0.005	<0.005	<0.005	<0.005
B1	5	11/18/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
B1	10	11/18/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
B2	10	11/18/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
B2	20	11/18/2003	360	640	<125	**1,000**	<0.5	<3.0	<0.5	5.9
B2	30	11/18/2003	<15	45	<25	45	<0.1	<0.6	<0.1	<0.1
B2	40	11/19/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
B2	50	11/19/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
B2	60	11/19/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
B2	70	11/19/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
B2	80	11/19/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
B2	90	11/19/2003	320	<15	<25	**320**	<0.1	<0.6	<0.1	<0.1
B2	95	11/19/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
B3	5	11/19/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
B3	10	11/19/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
B3	20	11/19/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
B3	30	11/19/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
B3	40	11/19/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
B3	50	11/19/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
B3	60	11/19/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
B3	75	11/19/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
B3	80	11/19/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
B3	90	11/19/2003	<15	<15	<25	ND	<0.1	<0.005	<0.005	<0.005
B4	5	11/20/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
B4	10	11/20/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
B4	20	11/20/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
B4	30	11/20/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
B4	40	11/20/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
B4	50	11/20/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
B4	60	11/20/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
B4	70	11/20/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
B4	80	11/20/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
B4	90	11/20/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
B4	95	11/20/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
B5	95	11/21/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
B6	80	11/24/2003	1,200	630	<25	**1,830**	<1	<6	1.6	5.4
B6	90	11/24/2003	800	930	<25	**1,730**	<0.5	<3	<0.5	0.6
B6	95	11/24/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
B7	70	11/24/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
B7	80	11/24/2003	68	880	170	**1,118**	<0.1	<0.6	<0.1	<0.1
B7	85	11/24/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
SB1	10	9/9/2003	4,800	290	250	**5,340**	<10	<60	<10	<10
SB1	20	9/9/2003	9,200	67	26	**9,293**	**2.2**	4	3.5	6.8
SB1	30	9/9/2003	55	61	<25	**116**	<0.1	<0.6	<0.1	<0.1
SB1	35	9/9/2003	20	150	<25	**170**	<0.1	<0.6	<0.1	<0.1
SB1	40	9/9/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
SB1	55	9/9/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
SB2	10	9/9/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
SB2	20	9/9/2003	29	<15	<25	29	<0.005	<0.005	<0.005	<0.005
SB3	10	9/9/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1

Table 1
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Former Orcutt Refinery
1550 West Stowell Road
Santa Maria, California

Sample Location	Depth	Date	TPHg (C4-C12)	TPHd (C13-C22)	TPHo (C23-C40)	Total TPH (C4-C40)	Benzene	Toluene	Ethylbenzene	Total Xylenes
SB3	20	9/9/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
SB3	40	9/9/2003	58	<15	<25	58	<0.010	<0.010	0.07	0.16
SB3	50	9/9/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
SB3	95	11/20/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
SB4	10	9/9/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
SB4	20	9/9/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
SB4	30	9/9/2003	27	<15	<25	27	<0.1	<0.6	<0.1	<0.1
SB4	40	9/9/2003	200	480	<25	**680**	<0.005	<0.005	0.03	<0.005
SB4	50	9/9/2003	48	16	<25	64	<0.1	<0.6	<0.1	<0.1
SB4	60	9/9/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
SB5	10	9/10/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
SB5	20	9/10/2003	25	<15	<25	25	<0.005	<0.005	<0.005	<0.005
SB6	10	9/10/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
SB6	20	9/10/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
SB7	10	9/10/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
SB7	20	9/10/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
SB8	10	9/10/2003	<15	<15	100	**100**	<0.1	<0.6	<0.1	<0.1
SB8	20	9/10/2003	<15	<15	45	45	<0.1	<0.6	<0.1	<0.1
SB8	30	9/10/2003	1,500	2,700	<250	**4,200**	<1.0	<6.0	1.6	7.8
SB8	50	9/10/2003	360	3,500	430	**4,290**	<0.1	<0.6	<0.1	<0.1
SB8	60	9/10/2003	460	1,500	66	**2,026**	<0.1	<0.6	0.6	1.1
SB8	70	9/10/2003	2,300	6,500	<250	**8,800**	<1.0	<6.0	<1.0	4.6
SB9	15	9/10/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
SB9	30	9/10/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
SB10	10	9/11/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
SB10	20	9/11/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
SB10	30	9/11/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
SB11	10	9/11/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
SB11	20	9/11/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
SB11	30	9/11/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
SB12	10	9/11/2003	<15	2,000	3,200	**5,200**	<0.1	<0.6	<0.1	<0.1
SB12	20	9/11/2003	<15	580	890	**1,470**	<0.1	<0.6	<0.1	<0.1
SB12	30	9/11/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
SB12	40	9/11/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
SB13	10	9/11/2003	2,400	14,000	10,000	**26,400**	<5.0	<30	8.4	18
SB13	20	9/11/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
SB13	30	9/11/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
SB14	10	9/11/2003	4,500	26,000	23,000	**53,500**	<5.0	<30	14	50
SB14	20	9/11/2003	4,800	8,300	5,200	**18,300**	<5.0	<30	29	50
SB14	30	9/11/2003	6,000	15,000	19,000	**40,000**	<5.0	<30	17	150
SB14	40	9/11/2003	18	<15	<25	18	<0.1	<0.6	<0.1	<0.1
SB14	50	9/11/2003	27	<15	<25	27	<0.1	<0.6	<0.1	<0.1
SB14	60	9/11/2003	36	<15	<25	36	<0.1	<0.6	<0.1	<0.1
SB15	10	9/12/2003	290	900	830	**2,020**	**0.33**	0.07	0.76	0.27
SB15	20	9/12/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
SB15	30	9/12/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
SB15	40	9/12/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
SB16	10	9/12/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
SB16	20	9/12/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
SB16	30	9/12/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
SB17	10	9/12/2003	<15	37	28	65	<0.1	<0.6	<0.1	<0.1
SB17	20	9/12/2003	<15	1,020	820	**1,840**	<0.1	<0.6	<0.1	<0.1
SB17	30	9/12/2003	36	2,500	590	**3,126**	<0.1	<0.6	<0.1	0.5
SB17	40	9/12/2003	170	23,600	7,200	**30,970**	<0.005	<0.005	0.012	0.03

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Sample Location	Depth	Date	TPHg (C4-C12)	TPHd (C13-C22)	TPHo (C23-C40)	Total TPH (C4-C40)	Benzene	Toluene	Ethylbenzene	Total Xylenes
SB17	50	9/12/2003	97	5,000	1,200	**6,297**	<0.1	<0.6	0.4	1.8
SB17	60	9/12/2003	35	1,420	390	**1,845**	<0.1	<0.6	<0.1	0.6
SB17	70	9/12/2003	35	1,750	420	**2,205**	<0.1	<0.6	<0.1	0.4
SB18	10	9/17/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
SB18	20	9/17/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
SB18	30	9/17/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
SB19	10	9/17/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
SB19	20	9/17/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
SB19	30	9/17/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
SB19	40	9/17/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
SB20	10	9/17/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
SB20	20	9/17/2003	60	370	130	**560**	<0.1	<0.6	<0.1	<0.1
SB20	30	9/17/2003	370	170	100	**640**	<0.1	<0.05	0.45	1.4
SB20	47	9/17/2003	36	<15	<25	36	<0.1	<0.6	<0.1	<0.1
SB20	60	9/17/2003	<15	37	<25	37	<0.005	0.014	0.01	0.023
SB20	70	9/17/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
SB20	87	9/17/2003	<15	<15	<25	ND	<0.005	<0.005	0.014	<0.005
SB21	10	9/17/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
SB21	20	9/17/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
SB21	30	9/17/2003	<15	92	<25	92	<0.1	<0.6	<0.1	<0.1
SB21	40	9/17/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
SB22	10	9/17/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
SB22	20	9/17/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
SB22	30	9/17/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
SB23	10	9/18/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
SB23	20	9/18/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
SB23	30	9/18/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
SB24	10	9/18/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
SB24	20	9/18/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
SB24	30	9/18/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
SB25	10	9/18/2003	780	540	81	**1,401**	<1.0	<6.0	<1.0	2.5
SB25	20	9/18/2003	2,800	90	<25	**2,890**	<2.0	<12	5.1	10
SB25	30	9/18/2003	120	21	<25	**141**	<0.1	<0.6	<0.1	<0.1
SB25	40	9/18/2003	63	49	<25	**112**	<0.1	<0.6	<0.1	<0.1
SB26	10	9/18/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
SB26	20	9/18/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
SB26	30	9/18/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
SB26	40	9/18/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
SB26	50	9/18/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
SB27	10	9/18/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
SB27	20	9/18/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
SB27	30	9/18/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
SB28	10	9/19/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
SB28	20	9/19/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
SB28	30	9/19/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
SB29	10	9/19/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
SB29	20	9/19/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
SB29	30	9/19/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
SB30	10	9/19/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
SB30	20	9/19/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
SB30	30	9/19/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
SB31	10	9/19/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
SB31	20	9/19/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
SB31	30	9/19/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1

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Sample Location	Depth	Date	TPHg (C4-C12)	TPHd (C13-C22)	TPHo (C23-C40)	Total TPH (C4-C40)	Benzene	Toluene	Ethylbenzene	Total Xylenes
SB32	5	9/19/2003	<15	57	270	**327**	<0.1	<0.6	<0.1	<0.1
SB32	10	9/19/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
SB32	20	9/19/2003	<15	<15	<25	ND	<0.1	<0.6	<0.1	<0.1
SB34	15	7/26/2004	4,000	5,900	4,400	**14,300**	**2.4**	4.2	4.8	9.7
SB35	10	7/26/2004	3,000	27,000	13,000	**43,000**	**3.4**	<2	5.2	8
SB37	15	7/26/2004	1,300	3,500	2,300	**7,100**	<0.4	<0.4	5.6	1.3
SB37	20	7/26/2004	2,900	9,600	5,300	**17,800**	**0.9**	0.3	18	2.5
SB37	33	7/26/2004	1,300	1,200	770	**3,270**	<2	<2	<2	2.5
SB38	10	7/26/2004	2,200	1,600	930	**4,730**	**5.6**	9.4	4.3	18
SB38	15	7/26/2004	8,200	17,000	7,800	**33,000**	**7.3**	11	7.1	13
SB43	10	7/27/2004	2,400	6,100	5,100	**13,600**	**0.5**	0.7	1.7	6.7
SB45	10	7/27/2004	<20	120	5,100	**5,220**	<0.005	<0.005	<0.005	0.009
SB45	15	7/27/2004	<20	120	5,100	**5,220**	**0.25**	<0.02	0.19	0.14
SB49	14	7/27/2004	210	1,500	1,200	**2,910**	<0.1	<0.1	0.2	<0.1
SB50	5	7/27/2004	4,100	1,400	770	**6,270**	<0.4	1.5	4.7	30
SB50	10	7/27/2004	93	9,200	8,700	**17,993**	<0.1	<0.1	0.3	0.6
SB50	13	7/27/2004	<10	15,000	20,000	**35,000**	0.021	0.011	0.015	0.035
SB53	8	7/28/2004	1,000	3,100	1,200	**5,300**	<0.1	<0.1	<0.1	<0.1
SB55	15	7/28/2004	66	98	33	**197**	<0.1	<0.1	<0.1	1
SB56	5	7/28/2004	<10	1,100	170	**1,270**	0.013	<0.005	0.007	0.009
SB56	10	7/28/2004	<10	640	110	**750**	**0.1**	0.032	0.021	0.049
MW1	10	3/29/2004	<10	<10	<10	ND	<0.005	<0.005	<0.005	<0.005
MW1	20	3/29/2004	<10	<10	<10	ND	<0.005	<0.005	<0.005	<0.005
MW1	30	3/29/2004	<10	<10	<10	ND	<0.005	<0.005	<0.005	<0.005
MW1	40	3/29/2004	<10	<10	<10	ND	<0.005	<0.005	<0.005	<0.005
MW1	50	3/29/2004	<10	<10	<10	ND	<0.005	<0.005	<0.005	<0.005
MW1	60	3/29/2004	<10	<10	<10	ND	<0.005	<0.005	<0.005	<0.005
MW1	70	3/29/2004	<10	<10	<10	ND	<0.005	<0.005	<0.005	<0.005
MW1	80	3/29/2004	<10	<10	<10	ND	<0.005	<0.005	<0.005	<0.005
MW1	85	3/29/2004	<10	<10	<10	ND	<0.005	<0.005	<0.005	<0.005
MW1	90	3/29/2004	<10	<10	<10	ND	<0.005	<0.005	<0.005	<0.005
MW2	10	3/29/2004	<10	250	340	**590**	<0.005	<0.005	<0.005	<0.005
MW2	20	3/29/2004	<10	490	270	**760**	<0.005	<0.005	<0.005	<0.005
MW2	30	3/29/2004	840	12,000	4,500	**17,340**	<0.1	0.3	1.1	2.4
MW2	40	3/30/2004	210	2,300	630	**3,140**	<0.1	0.5	0.9	1.9
MW2	50	3/30/2004	190	6,900	2,100	**9,190**	<0.1	0.9	0.9	2.4
MW2	60	3/30/2004	31	760	190	**981**	<0.1	0.1	<0.1	0.2
MW2	70	3/30/2004	75	2,600	790	**3,465**	<0.1	0.4	0.2	0.6
MW2	75	3/30/2004	<10	1,800	470	**2,270**	<0.005	0.016	0.008	0.02
MW2	80	3/30/2004	63	2,600	710	**3,373**	<0.1	<0.1	<0.1	<0.1
MW2	83	3/30/2004	230	4,400	1,200	**5,830**	<0.1	<0.1	0.2	0.1
MW2	87	3/30/2004	210	1,500	410	**2,120**	<0.1	0.4	0.3	1
MW2	90.5	3/30/2004	69	380	100	**549**	<0.1	<0.1	<0.1	<0.1
MW2	96.5	3/30/2004	<10	80	27	**107**	<0.005	<0.005	<0.005	<0.005
MW3	10	3/31/2004	<10	470	600	**1,070**	<0.005	<0.005	<0.005	<0.005
MW3	20	3/31/2004	<10	12	10	22	<0.005	<0.005	<0.005	<0.005
MW3	30	3/31/2004	<10	<10	<10	ND	<0.005	<0.005	<0.005	<0.005
MW3	50	3/31/2004	<10	<10	<10	ND	<0.005	<0.005	<0.005	<0.005
MW3	65	3/31/2004	<10	<10	<10	ND	<0.005	<0.005	<0.005	<0.005
MW3	75	3/31/2004	<10	<10	<10	ND	<0.005	<0.005	<0.005	<0.005
MW3	81.5	3/31/2004	<10	<10	<10	ND	<0.005	<0.005	<0.005	<0.005
MW3	86.5	3/31/2004	<10	<10	<10	ND	<0.005	<0.005	<0.005	<0.005
MW3	90	3/31/2004	<10	<10	<10	ND	<0.005	<0.005	<0.005	<0.005
MW4	5	3/31/2004	770	18,000	7,700	**26,470**	**0.3**	<0.1	1.3	0.4

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Former Orcutt Refinery
1550 West Stowell Road
Santa Maria, California

Sample Location	Depth	Date	TPHg (C4-C12)	TPHd (C13-C22)	TPHo (C23-C40)	Total TPH (C4-C40)	Benzene	Toluene	Ethylbenzene	Total Xylenes
MW4	10	3/31/2004	<10	<10	<10	ND	<0.005	<0.005	<0.005	<0.005
MW4	15	3/31/2004	<10	12	12	24	<0.005	<0.005	<0.005	<0.005
MW4	20	3/31/2004	<10	<10	<10	ND	<0.005	<0.005	<0.005	<0.005
MW4	30	4/1/2004	<10	<10	<10	ND	<0.005	<0.005	<0.005	<0.005
MW4	40	4/1/2004	<10	<10	<10	ND	<0.005	<0.005	<0.005	<0.005
MW4	50	4/1/2004	<10	<10	<10	ND	<0.005	<0.005	<0.005	<0.005
MW4	60	4/1/2004	<10	<10	<10	ND	<0.005	<0.005	<0.005	<0.005
MW4	70	4/1/2004	<10	<10	<10	ND	<0.005	<0.005	<0.005	<0.005
MW4	80	4/1/2004	<10	<10	<10	ND	<0.005	<0.005	<0.005	<0.005
MW4	84	4/1/2004	<10	<10	<10	ND	<0.005	<0.005	<0.005	<0.005
MW5	5	4/1/2004	<10	<10	<10	ND	<0.005	<0.005	<0.005	<0.005
MW5	10	4/1/2004	<10	<10	<10	ND	<0.005	<0.005	<0.005	<0.005
MW5	20	4/1/2004	<10	<10	<10	ND	<0.005	<0.005	<0.005	<0.005
MW5	30	4/1/2004	<10	<10	<10	ND	<0.005	<0.005	<0.005	<0.005
MW5	40	4/2/2004	<10	<10	<10	ND	<0.005	<0.005	<0.005	<0.005
MW5	50	4/2/2004	<10	<10	<10	ND	<0.005	<0.005	<0.005	<0.005
MW5	60	4/2/2004	<10	<10	<10	ND	<0.005	<0.005	<0.005	<0.005
MW5	70	4/2/2004	<10	<10	<10	ND	<0.005	<0.005	<0.005	<0.005
MW5	75	4/2/2004	<10	<10	<10	ND	<0.005	<0.005	<0.005	<0.005
MW5	81.5	4/2/2004	<10	<10	<10	ND	<0.005	<0.005	<0.005	<0.005
MW6A	5	6/28/2004	<10	<10	<10	ND	<0.005	<0.005	<0.005	<0.005
MW6A	10	6/28/2004	<10	<10	<10	ND	<0.005	<0.005	<0.005	<0.005
MW6A	40	6/29/2004	<10	<10	<10	ND	<0.005	<0.005	<0.005	<0.005
MW6A	50	6/29/2004	<10	<10	<10	ND	<0.005	<0.005	<0.005	<0.005
MW6A	60	6/29/2004	<10	<10	<10	ND	<0.005	<0.005	<0.005	<0.005
MW6A	70	6/29/2004	<10	<10	<10	ND	<0.005	<0.005	<0.005	<0.005
MW6A	80	6/29/2004	<10	<10	<10	ND	<0.005	<0.005	<0.005	<0.005
MW6A	85	6/29/2004	<10	<10	<10	ND	<0.005	<0.005	<0.005	<0.005
MW6A	90	6/29/2004	<10	<10	<10	ND	<0.005	<0.005	<0.005	<0.005
MW6A	95	6/29/2004	<10	<10	<10	ND	<0.005	<0.005	<0.005	<0.005
MW7	65	6/30/2004	1,400	<10	<10	**1,400**	<0.4	2.4	2	10
MW7	81.5	6/30/2004	590	76	20	**686**	<0.2	<0.2	0.5	2.5
MW7	83	6/30/2004	<10	<10	<10	ND	<0.005	<0.005	<0.005	0.019
MW7	84.5	6/30/2004	<10	<10	<10	ND	<0.005	<0.005	<0.005	<0.005
MW7	86	6/30/2004	<10	<10	<10	ND	<0.005	<0.005	<0.005	<0.005
MW7	90	6/30/2004	<10	<10	<10	ND	<0.005	<0.005	<0.005	<0.005
MW7	93.5	6/30/2004	<10	<10	<10	ND	<0.005	<0.005	<0.005	<0.005
MW7	97	6/30/2004	<10	<10	<10	ND	<0.005	<0.005	<0.005	<0.005
MW7	106.5	6/30/2004	<10	<10	<10	ND	<0.005	<0.005	<0.005	<0.005
MW8	60	6/30/2004	<10	<10	<10	ND	<0.005	<0.005	<0.005	<0.005
MW8	70	7/1/2004	<10	<10	<10	ND	<0.005	<0.005	<0.005	<0.005
MW8	75	7/1/2004	<10	<10	<10	ND	<0.005	<0.005	<0.005	<0.005
MW8	80	7/1/2004	<10	23	<10	23	<0.005	<0.005	<0.005	<0.005
MW8	85	7/1/2004	<10	<10	<10	ND	<0.005	<0.005	<0.005	<0.005
MW8	90	7/1/2004	<10	<10	<10	ND	<0.005	<0.005	<0.005	<0.005
MW8	95	7/1/2004	<10	<10	<10	ND	<0.005	<0.005	<0.005	<0.005
MW8	100	7/1/2004	<10	<10	<10	ND	<0.005	<0.005	<0.005	<0.005
MW9	10	7/1/2004	53	7,100	9,100	**16,253**	<0.1	<0.1	<0.1	0.4
MW9	15	7/1/2004	<10	<10	<10	ND	<0.005	<0.005	<0.005	<0.005
MW9	20	7/1/2004	<10	<10	<10	ND	<0.005	<0.005	<0.005	<0.005
MW9	30	7/1/2004	<10	<10	<10	ND	<0.005	<0.005	<0.005	<0.005
MW9	40	7/1/2004	<10	<10	<10	ND	<0.005	<0.005	<0.005	<0.005
MW9	50	7/1/2004	<10	<10	<10	ND	<0.005	<0.005	<0.005	<0.005
MW9	60	7/1/2004	<10	<10	<10	ND	<0.005	<0.005	<0.005	<0.005

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Sample Location	Depth	Date	TPHg (C4-C12)	TPHd (C13-C22)	TPHo (C23-C40)	Total TPH (C4-C40)	Benzene	Toluene	Ethylbenzene	Total Xylenes
MW9	70	7/1/2004	<10	<10	<10	ND	<0.005	<0.005	<0.005	<0.005
MW9	80	7/2/2004	<10	<10	<10	ND	<0.005	<0.005	<0.005	<0.005
MW9	90	7/2/2004	<10	<10	<10	ND	<0.005	<0.005	<0.005	<0.005
MW9	95	7/2/2004	<10	<10	<10	ND	<0.005	<0.005	<0.005	<0.005
MW9	100	7/2/2004	<10	<10	<10	ND	<0.005	<0.005	<0.005	<0.005
MW10	5	7/6/2004	<10	<10	<10	ND	<0.005	<0.005	<0.005	<0.005
MW10	10	7/6/2004	<10	<10	<10	ND	<0.005	<0.005	<0.005	<0.005
MW10	15	7/6/2004	<10	<10	<10	ND	<0.005	<0.005	<0.005	<0.005
MW10	20	7/6/2004	<10	<10	<10	ND	<0.005	<0.005	<0.005	<0.005
MW10	30	7/6/2004	<10	<10	<10	ND	<0.005	<0.005	<0.005	<0.005
MW10	40	7/6/2004	<10	<10	<10	ND	<0.005	<0.005	<0.005	<0.005
MW10	50	7/6/2004	<10	<10	<10	ND	<0.005	<0.005	<0.005	<0.005
MW10	60	7/6/2004	<10	<10	<10	ND	<0.005	<0.005	<0.005	<0.005
MW10	70	7/6/2004	<10	<10	<10	ND	<0.005	<0.005	<0.005	<0.005
MW10	80	7/6/2004	<10	<10	<10	ND	<0.005	<0.005	<0.005	<0.005
MW10	85	7/6/2004	<10	<10	<10	ND	<0.005	<0.005	<0.005	<0.005
AOCI-TP1	2	1/28/2008	17	250	930	**1,197**	<0.0050	<0.0050	<0.0050	<0.0050
AOCI-TP1	4	1/28/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
AOCI-TP1	15	1/28/2008	13,000	4,800	14,000	**31,800**	**9.5**	**37**	32	63
AOCI-TP2	2	1/29/2008	180	660	500	**1,340**	<0.0050	<0.0050	<0.0050	<0.0050
AOCI-TP2	8	1/29/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
AOCI-TP2	11	1/29/2008	300	590	770	**1,660**	<0.0050	<0.0050	0.0055	0.013
AOCI-TP3	5	1/29/2008	<10	100	270	**370**	<0.0050	<0.0050	<0.0050	<0.0050
AOCI-TP3	10	1/29/2008	<10	130	180	**310**	<0.0050	<0.0050	<0.0050	<0.0050
AOCI-TP3	12	1/29/2008	190	4,600	22,000	**26,790**	0.02	<0.0050	0.021	0.03
AOCI-TP5	2	1/30/2008	<10	86	610	**696**	<0.0050	<0.0050	<0.0050	<0.0050
AOCI-TP5	10	1/30/2008	130	6,500	13,000	**19,630**	0.025	<0.0050	0.039	<0.0050
AOCI-TP5	15	1/30/2008	<10	29	170	**199**	<0.0050	<0.0050	<0.0050	<0.0050
AOCI-TP5	17	1/30/2008	<10	280	380	**660**	<0.0050	<0.0050	<0.0050	<0.0050
AOCI-TP6	10	1/30/2008	690	8,400	11,000	**20,090**	**0.27**	0.62	0.28	1
AOCI-TP6	14	1/30/2008	<10	14	<50	14	<0.0050	<0.0050	<0.0050	<0.0050
AOCI-TP6	18	1/30/2008	170	1,500	3,400	**5,070**	<0.0050	<0.0050	0.026	0.017
AOCI-TP7	10	1/30/2008	2,700	1,800	1,700	**6,200**	**1.4**	1.7	1.5	4.5
AOCI-TP8	8	1/30/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
AOCI-TP8	12	1/30/2008	800	6,100	6,800	**13,700**	**0.34**	0.14	0.46	0.45
AOCI-TP9	4	1/31/2008	<10	25	95	**120**	<0.0050	<0.0050	<0.0050	<0.0050
AOCI-TP9	14	1/31/2008	82	760	1,900	**2,742**	<0.0050	<0.0050	<0.0050	<0.0050
AOCI-TP9	15	1/31/2008	380	690	710	**1,780**	0.027	<0.025	0.065	0.087
AOCI-TP10	10	1/31/2008	200	110	79	**389**	<0.0050	<0.0050	<0.0050	<0.0050
AOCI-TP10	19	1/31/2008	210	150	120	**480**	<0.0050	<0.0050	<0.0050	<0.0050
MW8	110	7/18/2008	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
MW8	110.5	7/18/2008	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
MW8	111	7/18/2008	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
MW8	111.5	7/18/2008	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP17	3	12/1/2008	16	<10	<50	16	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP17	10	12/4/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP17	15	12/4/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP17	20	12/4/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP17	25	12/4/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP18	5	12/1/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP18	10	12/5/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP18	15	12/5/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP19	5	12/1/2008	<10	<10	<50	ND	0.0012J	<0.0050	<0.0050	<0.0050
QA-SB/TP19	10	12/5/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050

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Sample Location	Depth	Date	TPHg (C4-C12)	TPHd (C13-C22)	TPHo (C23-C40)	Total TPH (C4-C40)	Benzene	Toluene	Ethylbenzene	Total Xylenes
QA-SB/TP19	15	12/5/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP20	5	12/1/2008	<10	<10	<50	ND	0.0012J	<0.0050	<0.0050	<0.0050
QA-SB/TP20	10	12/5/2008	<10	4.1J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP20	15	12/5/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP21	5	12/1/2008	<10	<10	<50	ND	0.0011J	<0.0050	<0.0050	<0.0050
QA-SB/TP21	10	12/5/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP21	15	12/5/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP22	5	12/1/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP22	10	12/4/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP22	15	12/4/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP22	20	12/4/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP22	25	12/4/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP24	2	11/19/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP24	5	11/19/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP24	10	12/3/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP24	15	12/3/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP24	20	12/3/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP24	25	12/3/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP25	5	11/19/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP26	2	11/19/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP26	5	11/19/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP26	10	12/3/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP26	15	12/3/2008	<10	3.8J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP26	20	12/3/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP26	25	12/3/2008	<10	2.9J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP27	5	11/17/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP27	10	11/19/2008	<10	4.2J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP27	15	11/19/2008	<10	4.0J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP27	20	11/19/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP27	25	11/19/2008	<10	3.2J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP28	5	11/17/2008	<10	<10	27J	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP28	10	11/18/2008	<10	3.0J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP28	15	11/18/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP28	20	11/18/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP29	5	11/17/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP29	10	11/18/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP29	15	11/18/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP30	5	11/17/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP30	10	12/3/2008	<10	4.5J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP30	15	12/3/2008	<10	10	<50	10	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP30	20	12/3/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP31	5	11/17/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP31	10	11/19/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP31	15	11/19/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP31	20	11/19/2008	<10	3.6J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP31	25	11/19/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP32	5	11/17/2008	<10	<10	<50	ND	<0.0050	0.0036J	<0.0050	<0.0050
QA-SB/TP32	10	12/5/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP32	15	12/5/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP32	20	12/5/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP33	1.5	11/20/2008	<10	180	620	**800**	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP33	5	11/20/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP33	10	12/3/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP33	15	12/3/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050

Table 1
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Former Orcutt Refinery
1550 West Stowell Road
Santa Maria, California

Sample Location	Depth	Date	TPHg (C4-C12)	TPHd (C13-C22)	TPHo (C23-C40)	Total TPH (C4-C40)	Benzene	Toluene	Ethylbenzene	Total Xylenes
QA-SB/TP33	20	12/3/2008	<10	4.0J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP33	25	12/3/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP34	1.5	11/20/2008	3.4J	530	740	**1,270**	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP34	5	11/20/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP34	10	12/3/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP34	15	12/3/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP34	20	12/3/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP34	25	12/3/2008	<10	41	79	**120**	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP35	5	11/20/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP35	10	12/3/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP35	15	12/3/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP35	20	12/3/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP35	25	12/3/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP36	4	11/20/2008	<10	370	2,400	**2,770**	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP36	5	11/20/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP36	10	12/5/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP36	15	12/5/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP38	2	12/2/2008	25	4,800	39,000	**43,825**	0.044	0.035	0.025	0.093
QA-SB/TP38	5	12/2/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP38	10	12/9/2008	<10	9.6J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP38	15	12/9/2008	68	<10	<50	68	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP39	5	12/2/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP39	10	12/9/2008	<10	6.9J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP39	15	12/9/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP40	5	12/2/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP40	10	12/9/2008	<10	3.6J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP40	15	12/9/2008	<10	5.8J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP41	5	12/2/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP41	10	12/9/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP41	15	12/9/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP42	5	12/2/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP42	10	12/9/2008	<10	4.6J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP42	15	12/9/2008	<10	4.0J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP43	5	12/1/2008	<10	<10	<50	ND	0.0011J	<0.0050	<0.0050	<0.0050
QA-SB/TP43	10	12/5/2008	<10	6.5J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP43	15	12/5/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP44	5	12/1/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP44	10	12/5/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP44	15	12/5/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP45	5	12/1/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP45	10	12/5/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP45	15	12/5/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB1	2	11/17/2008	2,100	5,800	4,100	**12,000**	<0.25	0.12J	0.95	1.8
QA-SB1	5	11/17/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB1	10	11/17/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB1	15	11/17/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB1	20	11/17/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB1	25	11/17/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB2	3.5	11/17/2008	2,400	17,000	11,000	**30,400**	**0.42**	0.38	4.8	5.4
QA-SB2	10	11/17/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB2	15	11/17/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB2	20	11/17/2008	<10	5.5J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB2	25	11/17/2008	<10	5.9J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB2	30	11/17/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050

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Sample Location	Depth	Date	TPHg (C4-C12)	TPHd (C13-C22)	TPHo (C23-C40)	Total TPH (C4-C40)	Benzene	Toluene	Ethylbenzene	Total Xylenes
QA-SB3	5	11/17/2008	640	11,000	16,000	**27,640**	**0.16**	0.11B, J	3.8	1.6B
QA-SB3	10	11/17/2008	1,900	78	240	**2,218**	<0.50	<0.50	3.4	2.4B
QA-SB3	15	11/17/2008	<10	11	12J	11	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB3	20	11/17/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB3	25	11/17/2008	<10	5.0J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB3	30	11/17/2008	<10	3.8J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB4	5	11/17/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB4	10	11/17/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB4	15	11/17/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB4	20	11/17/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB5	5	11/17/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB5	10	11/17/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB5	15	11/17/2008	<10	4.0J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB5	20	11/17/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB6	5	11/18/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB6	10	11/18/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB6	15	11/18/2008	<10	4.0J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB6	20	11/18/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB7	5	11/17/2008	<10	<10	17J	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB7	10	11/17/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB7	15	11/17/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB7	20	11/17/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB8	5	11/17/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	0.0058
QA-SB8	10	11/17/2008	<10	2.9J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB8	15	11/17/2008	<10	3.5J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB8	20	11/17/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB9	5	11/18/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB9	10	11/18/2008	<10	4.7J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB9	15	11/18/2008	<10	3.8J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB9	20	11/18/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB10	5	11/18/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB10	10	11/18/2008	<10	2.8J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB10	15	11/18/2008	<10	5.2J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB10	20	11/18/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB10	25	11/18/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB11	5	11/18/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB11	10	11/18/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB11	15	11/18/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB11	20	11/18/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB12	5	11/19/2008	<10	28	140	**168**	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB12	8	11/19/2008	<10	340	1,100	**1,440**	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB12	10	11/19/2008	<10	4.3J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB12	15	11/19/2008	<10	3.0J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB12	20	11/19/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB12	25	11/19/2008	<10	2.7J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB12	30	11/19/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB13	5	11/18/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB13	10	11/18/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB13	15	11/18/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB13	20	11/18/2008	<10	3.0J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB14	5	11/18/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB14	10	11/18/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB14	15	11/18/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB14	20	11/18/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050

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Sample Location	Depth	Date	TPHg (C4-C12)	TPHd (C13-C22)	TPHo (C23-C40)	Total TPH (C4-C40)	Benzene	Toluene	Ethylbenzene	Total Xylenes
QA-SB14	21	11/18/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB15	5	11/18/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB15	10	11/18/2008	<10	3.0J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB15	15	11/18/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB15	20	11/18/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB16	5	11/18/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB16	10	11/18/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB16	15	11/18/2008	<10	2.8J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB16	20	11/18/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB23	12	11/18/2008	610	5.1J	56	**666**	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB23	15	11/18/2008	<10	3.2J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB23	20	11/18/2008	<10	4.5J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB23	25	11/18/2008	<10	2.7J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB23	30	11/18/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB25	5	12/9/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB25	10	12/9/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB25	15	12/9/2008	<10	7.3J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB29	20	11/18/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB37	5	12/1/2008	1,900	5,700	6,700	**14,300**	0.041	0.035	0.36	0.54
QA-SB37	10	12/1/2008	<10	5.2J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB37	15	12/1/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB37	20	12/1/2008	3,900	<10	<50	**3,900**	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB37	25	12/1/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB37	30	12/1/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-TP1	3	11/11/2008	<10	140	620	**760**	<0.0050	<0.0050	<0.0050	<0.0050
QA-TP1	8	11/11/2008	<10	6.9J	25J	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-TP2	2.5	11/11/2008	2.2J	2,000	3,500	**5,500**	<0.0050	<0.0050	<0.0050	<0.0050
QA-TP2	4	11/11/2008	<10	5.0J	22J	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-TP2	10	11/11/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-TP3	5	11/11/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-TP4	4	11/12/2008	<10	700	2,200	**2,900**	<0.0050	<0.0050	<0.0050	<0.0050
QA-TP4	8	11/12/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-TP5	8	11/12/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-TP6	8	11/12/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-TP7	3	11/12/2008	2.7J	160	740	**900**	<0.0050	<0.0050	<0.0050	<0.0050
QA-TP7	10	11/12/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-TP8	4	11/12/2008	<10	5.6J	40J	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-TP8	8	11/12/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-TP8	10	11/12/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-TP9	3	11/12/2008	<10	18	110	**128**	<0.0050	<0.0050	<0.0050	<0.0050
QA-TP9	10	11/12/2008	2.9J	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-TP10	3	11/12/2008	1,800	11,000	7,300	**20,100**	0.16J	0.18J	1.4	1.2
QA-TP10	10	11/12/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-TP11	10	11/12/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QA-TP12	3	11/12/2008	2.2J	640	2,200	**2,840**	<0.0050	<0.0050	<0.0050	<0.0050
QA-TP12	6	11/12/2008	<10	710	1,900	**2,610**	<0.0050	<0.0050	<0.0050	<0.0050
QA-TP12	10	11/12/2008	<10	98	200	**298**	<0.0050	<0.0050	<0.0050	<0.0050
QA-TP13	3	11/14/2008	<10	190	670	**860**	<0.0050	<0.0050	<0.0050	<0.0050
QA-TP13	6	11/14/2008	<10	350	880	**1,230**	<0.0050	<0.0050	<0.0050	<0.0050
QA-TP13	10	11/14/2008	62	6,000	5,900	**11,962**	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP1	2.5	11/19/2008	<10	400	910	**1,310**	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP1	5	11/19/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP1	10	11/21/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP1	15	11/21/2008	<10	<10	17J	ND	<0.0050	<0.0050	<0.0050	<0.0050

Table 1
Soil Analytical Results - Total Petroleum Hydrocarbons and BTEX
Former Orcutt Refinery
1550 West Stowell Road
Santa Maria, California

Sample Location	Depth	Date	TPHg (C4-C12)	TPHd (C13-C22)	TPHo (C23-C40)	Total TPH (C4-C40)	Benzene	Toluene	Ethylbenzene	Total Xylenes
QB-SB/TP1	20	11/21/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP1	25	11/21/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP2	5	11/18/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP2	10	11/20/2008	<10	4.0J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP2	15	11/20/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP2	20	11/20/2008	<10	5.2J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP2	25	11/20/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP3	5	11/18/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP3	10	11/20/2008	<10	4.5J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP3	15	11/20/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP3	20	11/20/2008	<10	32	10J	32	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP4	5	11/17/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP4	10	11/20/2008	<10	9.6J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP4	15	11/20/2008	<10	3.1J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP4	20	11/20/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP5	5	11/17/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP5	10	11/20/2008	<10	7.9J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP5	15	11/20/2008	<10	6.5J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP5	20	11/20/2008	<10	2.9J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP6	5	11/17/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP6	10	11/20/2008	<10	5.9J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP6	15	11/20/2008	<10	6.5J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP6	20	11/20/2008	<10	3.3J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP6	25	11/20/2008	<10	4.8J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP7	5	11/17/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP7	10	11/21/2008	<10	7.9J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP7	15	11/21/2008	<10	2.7J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP7	20	11/21/2008	<10	5.1J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP8	5	11/17/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP8	10	11/19/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP8	15	11/19/2008	<10	3.2J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP8	20	11/19/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP9	5	11/17/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP9	10	11/19/2008	<10	6.1J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP9	15	11/19/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP9	20	11/19/2008	<10	4.2J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP10	5	11/18/2008	<10	<10	<50	ND	<0.0050	0.0031J	<0.0050	<0.0050
QB-SB/TP10	10	11/19/2008	<10	6.9J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP10	15	11/19/2008	<10	6.7J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP10	20	11/19/2008	<10	6.2J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP11	3	11/19/2008	<10	94	200	**294**	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP11	5	11/19/2008	<10	14	80	94	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP11	10	11/21/2008	<10	<10	<50	ND	<0.0050	0.0020J	<0.0050	0.0026J
QB-SB/TP11	15	11/21/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP11	20	11/21/2008	<10	8.9J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP12	5	11/18/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP12	10	11/24/2008	<10	13	<50	13	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP12	15	11/24/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP12	20	11/24/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP12	25	11/24/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP13	5	11/18/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP13	10	11/24/2008	<10	4.4J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP13	15	11/24/2008	<10	2.7J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP13	20	11/24/2008	<10	4.3J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050

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Sample Location	Depth	Date	TPHg (C4-C12)	TPHd (C13-C22)	TPHo (C23-C40)	Total TPH (C4-C40)	Benzene	Toluene	Ethylbenzene	Total Xylenes
QB-SB/TP13	25	11/24/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP14	5	11/18/2008	<10	100	800	**900**	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP14	10	11/21/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP14	15	11/21/2008	<10	2.7J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP14	20	11/21/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP14	25	11/21/2008	<10	3.6J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP15	1	11/18/2008	<10	5,700	30,000	**35,700**	0.0021J	0.0024J	<0.0050	0.0031J
QB-SB/TP15	5	11/18/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP15	10	11/21/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP15	15	11/21/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP15	20	11/21/2008	<10	2.9J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP15	25	11/21/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP16	3.5	11/19/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP16	5	11/19/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP16	10	12/1/2008	3.5J	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP16	15	12/1/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP16	20	12/1/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP16	25	12/1/2008	<10	3.0J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP17	3.5	11/19/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP17	5	11/19/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP17	10	11/24/2008	4.3J	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP17	15	11/24/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP17	20	11/24/2008	<10	4.5J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP17	25	11/24/2008	<10	6.0J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP18	4	11/19/2008	<10	5.2J	12J	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP18	5	11/19/2008	<10	5.9J	59	59	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP18	10	12/1/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP18	15	12/1/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP18	20	12/1/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP18	25	12/1/2008	<10	3.2J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP19	3.5	11/19/2008	<10	340	12,000	**12,340**	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP19	5	11/19/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP19	10	11/25/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP19	15	11/25/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP19	20	11/25/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP19	25	11/25/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP20	1	11/18/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP20	3	11/18/2008	<10	66	1,100	**1,166**	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP20	5	11/18/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP20	10	11/25/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP20	15	11/25/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP20	20	11/25/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP20	25	11/25/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP21	5	11/18/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP21	10	11/24/2008	<10	4.3J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP21	15	11/24/2008	<10	3.1J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP21	20	11/24/2008	<10	5.8J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP21	25	11/24/2008	<10	4.1J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP22	1	11/18/2008	<10	470	3,100	**3,570**	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP22	5	11/18/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP22	10	11/24/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP22	15	11/24/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP22	20	11/24/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP22	25	11/24/2008	<10	5.2J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050

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Sample Location	Depth	Date	TPHg (C4-C12)	TPHd (C13-C22)	TPHo (C23-C40)	Total TPH (C4-C40)	Benzene	Toluene	Ethylbenzene	Total Xylenes
QB-SB/TP23	5	11/19/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP23	10	11/24/2008	3.6J	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP23	15	11/24/2008	3.2J	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP23	20	11/24/2008	<10	3.2J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP23	25	11/24/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP24	5	11/19/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP24	10	11/25/2008	<10	7.6J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP24	15	11/25/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP24	20	11/25/2008	<10	6.4J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP24	25	11/25/2008	<10	5.8J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP25	5	11/18/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP25	10	11/21/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP25	15	11/21/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP25	20	11/21/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP25	25	11/21/2008	<10	7.2J	14J	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP26	5	11/17/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP26	10	11/19/2008	<10	3.2J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP26	15	11/19/2008	<10	3.2J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP26	20	11/19/2008	<10	3.6J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP26	25	11/19/2008	<10	3.7J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP27	5	11/17/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP27	10	11/19/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP27	15	11/19/2008	<10	4.2J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP27	20	11/19/2008	<10	3.4J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP27	25	11/19/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP34	5	11/21/2008	<10	190	440	**630**	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP34	7.5	11/21/2008	<10	7.3J	45J	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP34	10	11/24/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP34	15	11/24/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP34	20	11/24/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP35	1	11/21/2008	<10	1,900	16,000	**17,900**	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP35	5	11/21/2008	<10	530	1,600	**2,130**	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP35	10	11/24/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP35	15	11/24/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP35	20	11/24/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP35	25	11/24/2008	<10	2.9J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP36	2	11/21/2008	<10	2,600	17,000	**19,600**	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP36	5	11/21/2008	<10	<10	23J	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP36	10	11/24/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP36	15	11/24/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP36	20	11/24/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP36	25	11/24/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP37	2.5	11/21/2008	<10	5,100	94,000	**99,100**	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP37	5	11/21/2008	810	23,000	16,000	**39,810**	**0.28**	0.35	1.6	5.2
QB-SB/TP37	10	11/24/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP37	15	11/24/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP37	20	11/24/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP37	25	11/24/2008	<10	4.1J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP38	5	11/21/2008	12	48,000	33,000	**81,012**	<0.025	0.0052J	<0.025	<0.025
QB-SB/TP38	6	11/21/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP38	10	11/24/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP38	15	11/24/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP38	20	11/24/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP38	25	11/24/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050

Table 1
Soil Analytical Results - Total Petroleum Hydrocarbons and BTEX
Former Orcutt Refinery
1550 West Stowell Road
Santa Maria, California

Sample Location	Depth	Date	TPHg (C4-C12)	TPHd (C13-C22)	TPHo (C23-C40)	Total TPH (C4-C40)	Benzene	Toluene	Ethylbenzene	Total Xylenes
QB-SB/TP39	0.5	11/21/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP39	5	11/21/2008	<10	1,200	2,300	**3,500**	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP39	10	11/24/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP39	15	11/24/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP40	1	11/21/2008	130	4,400	5,800	**10,330**	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP40	5	11/21/2008	<10	36,000	7,600	**43,600**	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP40	10	11/21/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP40	15	11/21/2008	<10	3.3J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP40	20	11/21/2008	<10	2.7J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP40	25	11/21/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP41	1.5	11/21/2008	140	11,000	33,000	**44,140**	<0.025	0.011J	0.03	0.054
QB-SB/TP41	5	11/21/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP41	10	11/25/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP41	15	11/25/2008	<10	4.7J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP41	20	11/25/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP41	25	11/25/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP42	1.5	11/20/2008	<10	580	1,700	**2,280**	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP42	5	11/20/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP42	10	11/20/2008	<10	4.8J	17J	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP42	15	11/20/2008	<10	3.1J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP42	20	11/20/2008	<10	11	22J	11	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP42	25	11/20/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP43	2	11/20/2008	<10	300	860	**1,160**	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP43	5	11/20/2008	<10	1,500	2,100	**3,600**	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP43	10	11/21/2008	<10	3.1J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP43	15	11/21/2008	<10	3.3J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP43	20	11/21/2008	<10	5.5J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP43	25	11/21/2008	<10	3.2J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP44	5	11/20/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP44	7.5	11/20/2008	<10	<10	7.6J	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP44	10	11/21/2008	<10	2.8J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP44	15	11/21/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP44	20	11/21/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP44	25	11/21/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP45	1.5	11/20/2008	<10	1,800	31,000	**32,800**	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP45	5	11/20/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP45	10	11/21/2008	<10	2.8J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP45	15	11/21/2008	<10	3.1J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP45	20	11/21/2008	<10	3.1J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP45	25	11/21/2008	<10	3.1J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP46	1.5	11/20/2008	<10	63	390	**453**	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP46	5	11/20/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP46	10	11/21/2008	<10	2.7J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP46	15	11/21/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP46	20	11/21/2008	<10	4.0J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP46	25	11/21/2008	<10	3.4J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP47	2	11/24/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP47	4.5	11/24/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP47	10	11/25/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP47	15	11/25/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP47	20	11/25/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP48	2	11/24/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP48	5	11/24/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP48	10	12/2/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050

Table 1
Soil Analytical Results - Total Petroleum Hydrocarbons and BTEX
Former Orcutt Refinery
1550 West Stowell Road
Santa Maria, California

Sample Location	Depth	Date	TPHg (C4-C12)	TPHd (C13-C22)	TPHo (C23-C40)	Total TPH (C4-C40)	Benzene	Toluene	Ethylbenzene	Total Xylenes
QB-SB/TP48	15	12/2/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP48	20	12/2/2008	<10	3.1J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP49	5	11/24/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP49	10	11/25/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP49	15	11/25/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP49	20	11/25/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP50	5	11/24/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP50	10	12/2/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP50	15	12/2/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP50	20	12/2/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP51	5	11/24/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP51	10	11/25/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP51	15	11/25/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP51	20	11/25/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP52	2	11/24/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP52	5	11/24/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP52	10	12/2/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP52	15	12/2/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP52	20	12/2/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP52	25	12/2/2008	18	<10	<50	18	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP53	2	11/25/2008	<10	540	620	**1,160**	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP53	5	11/25/2008	<10	650	700	**1,350**	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP53	7.5	12/2/2008	<10	3,000	4,800	**7,800**	<0.0050	0.00056J	<0.0050	<0.0050
QB-SB/TP53	10	12/2/2008	<10	1,200	4,000	**5,200**	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP53	15	12/2/2008	<10	3.1J	26J	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP53	20	12/2/2008	<10	51	210	**261**	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP53	25	12/2/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP53	30	12/2/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP53	35	12/2/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP54	1	11/25/2008	5.1J	490	2,000	**2,490**	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP54	5	11/25/2008	<10	1,000	980	**1,980**	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP54	8.5	12/1/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP54	10	12/1/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP54	15	12/1/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP54	20	12/1/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP54	25	12/1/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP54	30	12/1/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP55	1.5	11/24/2008	<10	82	620	**702**	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP55	5	11/24/2008	<100	<10	8.4J	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP55	10	12/1/2008	<10	4.9J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP55	15	12/1/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP55	20	12/1/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP55	25	12/1/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP56	1	11/25/2008	<10	17,000	94,000	**111,000**	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP56	5	11/25/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP56	10	12/1/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP56	15	12/1/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP56	20	12/1/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP56	25	12/1/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP57	1	11/25/2008	<10	200	760	**960**	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP57	5	11/25/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP57	10	12/2/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP57	15	12/2/2008	<10	<10	<50	ND	0.0011J	<0.0050	<0.0050	<0.0050
QB-SB/TP57	20	12/2/2008	<10	<10	<50	ND	0.0012J	0.00076J	<0.0050	<0.0050

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Former Orcutt Refinery
1550 West Stowell Road
Santa Maria, California

Sample Location	Depth	Date	TPHg (C4-C12)	TPHd (C13-C22)	TPHo (C23-C40)	Total TPH (C4-C40)	Benzene	Toluene	Ethylbenzene	Total Xylenes
QB-SB/TP57	25	12/2/2008	<10	<10	<50	ND	0.0011J	<0.0050	<0.0050	<0.0050
QB-SB/TP58	5	11/24/2008	<100	<10	9.4J	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP58	10	12/1/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP58	15	12/1/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP58	20	12/1/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP59	0.5	11/24/2008	27	13,000	33,000	**46,027**	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP59	5	11/24/2008	<10	<10	24J	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP59	10	12/1/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP59	15	12/1/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP59	20	12/1/2008	<10	2.8J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP59	25	12/1/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP60	5	11/25/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP60	10	12/2/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP60	15	12/2/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP60	20	12/2/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP61	5	11/25/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP61	10	12/3/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP61	15	12/3/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP61	20	12/3/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP61	25	12/3/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP62	5	11/25/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP62	10	12/3/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP62	15	12/3/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP62	20	12/3/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP63	5	11/25/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP63	10	12/3/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP63	15	12/3/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP63	20	12/3/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP69	5	12/1/2008	<15	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP69	10	12/8/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP69	15	12/8/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP70	5	12/1/2008	<10	<10	<50	ND	0.0012J	<0.0050	<0.0050	<0.0050
QB-SB/TP70	10	12/8/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP70	15	12/8/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP71	5	12/1/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP71	10	12/8/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP71	15	12/8/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP72	5	12/1/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP72	10	12/8/2008	<10	3.0J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP72	15	12/8/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP73	5	12/2/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP73	10	12/8/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP73	15	12/8/2008	<10	3.2J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP74	5	12/2/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP74	10	12/8/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP74	15	12/8/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP75	5	12/2/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP75	10	12/8/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP75	15	12/8/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP76	1.75	12/3/2008	<10	220	1,400	**1,620**	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP76	5	12/3/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP76	10	12/9/2008	<10	5.6J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP76	15	12/9/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP77	2	12/3/2008	<10	<10	18J	ND	<0.0050	<0.0050	<0.0050	<0.0050

Table 1
Soil Analytical Results - Total Petroleum Hydrocarbons and BTEX
Former Orcutt Refinery
1550 West Stowell Road
Santa Maria, California

Sample Location	Depth	Date	TPHg (C4-C12)	TPHd (C13-C22)	TPHo (C23-C40)	Total TPH (C4-C40)	Benzene	Toluene	Ethylbenzene	Total Xylenes
QB-SB/TP77	5	12/3/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP77	10	12/8/2008	<10	5.2J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP77	15	12/8/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP78	0.5	12/3/2008	35	2,000	3,200	**5,235**	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP78	5	12/3/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP78	10	12/3/2008	<10	3.6J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP78	15	12/3/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP78	20	12/3/2008	<10	3.8J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP78	25	12/3/2008	5.6J	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP79	5	12/3/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP79	10	12/3/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP79	15	12/3/2008	<10	4.4J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP79	20	12/3/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP80	1.5	12/3/2008	<10	600	9,400	**10,000**	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP80	5	12/3/2008	<10	260	4,000	**4,260**	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP80	10	12/8/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP80	15	12/8/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP81	5	12/3/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP81	10	12/4/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP81	15	12/4/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP81	20	12/4/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP82	5	12/3/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP82	10	12/8/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP82	15	12/8/2008	2.9J	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP83	5	12/3/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP83	10	12/8/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP83	15	12/8/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP84	2	12/3/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP84	5	12/3/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP84	10	12/8/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP84	15	12/8/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP85	5	12/3/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP85	10	12/8/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP85	15	12/8/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP86	3	12/4/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP86	5	12/4/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP86	10	12/8/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP86	15	12/8/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP95	1.75	12/4/2008	<10	780	5,300	**6,080**	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP95	5	12/4/2008	<10	66	130	**196**	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP95	10	12/5/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP95	15	12/5/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP96	2	12/4/2008	<10	370	1,000	**1,370**	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP96	3	12/4/2008	<10	1,100	2,700	**3,800**	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP96	5	12/4/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP96	10	12/5/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP96	15	12/5/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP96	20	12/5/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP96	25	12/5/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP97	0.5	12/4/2008	<10	360	2,000	**2,360**	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP97	3	12/4/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP97	5	12/4/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP97	10	12/5/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP97	15	12/5/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050

Table 1
Soil Analytical Results - Total Petroleum Hydrocarbons and BTEX
Former Orcutt Refinery
1550 West Stowell Road
Santa Maria, California

Sample Location	Depth	Date	TPHg (C4-C12)	TPHd (C13-C22)	TPHo (C23-C40)	Total TPH (C4-C40)	Benzene	Toluene	Ethylbenzene	Total Xylenes
QB-SB/TP98	1.75	12/4/2008	<10	140	910	**1,050**	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP98	5	12/4/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP98	10	12/5/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP98	15	12/5/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP98	20	12/5/2008	<10	4.2J	16J	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP99	2	12/4/2008	40	4,200	4,400	**8,640**	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP99	5	12/4/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP99	10	12/4/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP99	12	12/4/2008	<10	150	610	**760**	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP99	15	12/4/2008	<10	490	580	**1,070**	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP99	20	12/4/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP99	25	12/4/2008	<10	3,200	2,500	**5,700**	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP99	30	12/4/2008	<10	1,900	1,800	**3,700**	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP99	35	12/4/2008	<10	44	43J	44	<0.0050	<0.0050	<0.0050	0.0026J
QB-SB/TP99	40	12/4/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP99	45	12/4/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP99	50	12/4/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP100	2	12/5/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP100	5	12/5/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP100	10	12/9/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP100	15	12/9/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP101	2	12/4/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP101	5	12/4/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP101	10	12/5/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP101	15	12/5/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP102	2	12/4/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP102	5	12/4/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP102	10	12/5/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP102	15	12/5/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP103	5	12/5/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP103	10	12/8/2008	<10	6.8J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP103	15	12/8/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP104	5	12/5/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP104	10	12/8/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP104	15	12/8/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP105	1	12/5/2008	<10	170	960	**1,130**	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP105	5	12/5/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP105	10	12/8/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP105	15	12/8/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP106	2	12/5/2008	3.8J	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP106	5	12/5/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP106	10	12/9/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP106	15	12/9/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP107	1	12/5/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP107	5	12/5/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP107	10	12/9/2008	<10	4.6J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP107	15	12/9/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP108	5	12/5/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP108	10	12/8/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP108	15	12/8/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP109	5	12/5/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP109	10	12/8/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP109	15	12/8/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB28	5	11/20/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050

Table 1
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Former Orcutt Refinery
1550 West Stowell Road
Santa Maria, California

Sample Location	Depth	Date	TPHg (C4-C12)	TPHd (C13-C22)	TPHo (C23-C40)	Total TPH (C4-C40)	Benzene	Toluene	Ethylbenzene	Total Xylenes
QB-SB28	10	11/20/2008	<10	3.6J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB28	15	11/20/2008	<10	4.0J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB28	20	11/20/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB29	5	11/20/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB29	10	11/20/2008	<10	2.7J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB29	15	11/20/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB29	20	11/20/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB30	5	11/19/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB30	10	11/19/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB30	15	11/19/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB30	20	11/19/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB31	5	11/19/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB31	10	11/19/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB31	15	11/19/2008	<10	5.4J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB31	20.5	11/19/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB32	5	11/19/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB32	10	11/19/2008	<10	4.3J	7.5J	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB32	15	11/19/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB32	21.5	11/19/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB33	5	11/20/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB33	10	11/20/2008	<10	3.7J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB33	15	11/20/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB64	5	12/1/2008	<10	7,900	6,300	**14,200**	0.083	0.016J	1.6	1.1
QB-SB64	10	12/1/2008	<10	<10	<50	ND	<0.0050	<0.0050	0.0028J	0.0028J
QB-SB64	15	12/1/2008	<10	7.4J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB64	20	12/1/2008	<10	6.5J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB64	25	12/1/2008	<10	5.4J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB64	30	12/1/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB65	5	12/1/2008	2,600	6,100	4,700	**13,400**	**0.28**	0.26	1.2	2.9
QB-SB65	10	12/1/2008	640	3,100	3,200	**6,940**	0.024J	0.018J	0.36	0.77
QB-SB65	15	12/1/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB65	20	12/1/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB65	25	12/1/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB65	30	12/1/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB66	5	12/2/2008	300	5,900	7,600	**13,800**	<0.025	<0.025	0.57	0.57
QB-SB66	10	12/2/2008	2,400	1,200	2,800	**6,400**	<0.0050	0.0044J	0.0052	0.0068
QB-SB66	15	12/2/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB66	20	12/2/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB66	25	12/2/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB66	30	12/2/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB67	5	12/2/2008	<10	75	1,100	**1,175**	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB67	10	12/2/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB67	15	12/2/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB67	20	12/2/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB67	25	12/2/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB67	30	12/2/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB68	5	12/2/2008	12	990	5,900	**6,902**	<0.0050	<0.0050	<0.0050	0.16
QB-SB68	10	12/2/2008	76	18,000	58,000	**76,076**	0.016J	0.043	0.046	0.1
QB-SB68	15	12/2/2008	<10	630	950	**1,580**	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB68	20	12/2/2008	<10	1,200	2,300	**3,500**	<0.0050	0.0035J	<0.0050	<0.0050
QB-SB81	5	12/4/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB87	5	12/4/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB87	10	12/4/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB87	15	12/4/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050

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Soil Analytical Results - Total Petroleum Hydrocarbons and BTEX
Former Orcutt Refinery
1550 West Stowell Road
Santa Maria, California

Sample Location	Depth	Date	TPHg (C4-C12)	TPHd (C13-C22)	TPHo (C23-C40)	Total TPH (C4-C40)	Benzene	Toluene	Ethylbenzene	Total Xylenes
QB-SB87	20	12/4/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB88	5	12/4/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB88	10	12/4/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB88	15	12/4/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB88	20	12/4/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB89	5	12/4/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB89	10	12/4/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB89	15	12/4/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB89	20	12/4/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB90	5	12/4/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB90	10	12/4/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB90	15	12/4/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB90	20	12/4/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB91	5	12/4/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB91	10	12/4/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB91	15	12/4/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB91	20	12/4/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB92	5	12/4/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB92	10	12/4/2008	<10	4.5J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB92	15	12/4/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB92	20	12/4/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB93	5	12/4/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB93	10	12/4/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB93	15	12/4/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB93	20	12/4/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB94	5	12/4/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB94	10	12/4/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB94	15	12/4/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB94	20	12/4/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-TP1	2.5	11/13/2008	<10	78	530	**608**	<0.0050	<0.0050	<0.0050	<0.0050
QB-TP1	4	11/13/2008	150	9,600	9,200	**18,950**	<0.0050	0.0019J	0.047	0.11
QB-TP1	10	11/13/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-TP2	2.5	11/13/2008	<10	280	1,900	**2,180**	<0.0050	<0.0050	<0.0050	<0.0050
QB-TP2	5	11/13/2008	<10	25	120	**145**	<0.0050	<0.0050	<0.0050	<0.0050
QB-TP2	10	11/13/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-TP3	3	11/13/2008	1,500	11,000	7,900	**20,400**	**0.24**	0.17	0.7	1.3
QB-TP3	12	11/13/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-TP4	10	11/13/2008	<10	150	590	**740**	<0.0050	<0.0050	<0.0050	<0.0050
QB-TP5	2	11/13/2008	<10	230	1,100	**1,330**	<0.0050	<0.0050	<0.0050	<0.0050
QB-TP5	3	11/13/2008	6.8J	14,000	45,000	**59,000**	<0.0050	0.0057	0.0082	0.03
QB-TP5	11	11/13/2008	<10	77	250	**327**	<0.0050	<0.0050	<0.0050	<0.0050
QB-TP6	10	11/13/2008	<10	11	120	**131**	<0.0050	<0.0050	<0.0050	<0.0050
QB-TP7	8	11/13/2008	12	11,000	34,000	**45,012**	<0.12	0.055J	0.056J	0.17
QB-TP8	10	11/14/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-TP9	5.5	11/14/2008	<10	360	1,900	**2,260**	<0.0050	<0.0050	<0.0050	<0.0050
QB-TP9	12	11/14/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-TP10	5	11/14/2008	6.7J	1,900	3,100	**5,000**	<0.0050	<0.0050	<0.0050	<0.0050
QB-TP10	10	11/14/2008	2.9J	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QB-TP11	10	11/14/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP1	5	12/8/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP1	10	12/10/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP1	15	12/10/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP2	5	12/8/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP2	10	12/10/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050

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Sample Location	Depth	Date	TPHg (C4-C12)	TPHd (C13-C22)	TPHo (C23-C40)	Total TPH (C4-C40)	Benzene	Toluene	Ethylbenzene	Total Xylenes
QC-SB/TP2	15	12/10/2008	<10	3.2J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP3	5	12/8/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP3	10	12/10/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP3	15	12/10/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP4	5	12/8/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP4	10	12/9/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP4	15	12/9/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP5	6	12/8/2008	<10	9.7J	110	**110**	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP5	9	12/10/2008	<10	220	990	**1,210**	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP5	10	12/10/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP5	15	12/10/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP5	20	12/10/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP6	5	12/8/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP6	10	12/10/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP6	15	12/10/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP7	5	12/8/2008	<10	60	690	**750**	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP7	10	12/10/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP7	15	12/10/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP7	20	12/10/2008	<10	3.5J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP8	5	12/8/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP8	10	12/10/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP8	15	12/10/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP9	5	12/8/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP9	10	12/10/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP9	15	12/10/2008	31	43	130	**204**	<0.0050	0.0024J	<0.0050	<0.0050
QC-SB/TP9	20	12/10/2008	580	690	720	**1,990**	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP10	5	12/8/2008	<10	83	180	**263**	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP10	10	12/10/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP10	15	12/10/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP11	5	12/8/2008	<10	9.9J	64	64	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP11	10	12/10/2008	<10	8.3J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP11	15	12/10/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP12	5	12/8/2008	<10	3.8J	11J	ND	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP12	9	12/10/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP12	10	12/10/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP12	15	12/10/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP12	20	12/10/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP13	4	12/8/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP13	10	12/10/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP13	15	12/10/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP14	10	12/9/2008	<10	120	680	**800**	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP14	12.5	12/9/2008	<10	8,800	17,000	**25,800**	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP14	15	12/9/2008	<10	4.5J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP14	20	12/9/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP14	25	12/9/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP15	10	12/9/2008	<10	3.4J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP15	15	12/9/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP15	20	12/9/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP16	4.5	12/9/2008	<10	37	420	**457**	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP16	10	12/9/2008	<10	5.9J	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP16	15	12/9/2008	<10	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
GP01	15	7/19/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
GP01	20	7/19/2011	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
GP01	25	7/19/2011	<0.50	270	51	**321**	<0.0050	<0.0050	<0.0050	<0.0050

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Sample Location	Depth	Date	TPHg (C4-C12)	TPHd (C13-C22)	TPHo (C23-C40)	Total TPH (C4-C40)	Benzene	Toluene	Ethylbenzene	Total Xylenes
GP01	35	7/19/2011	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
GP02	15	7/19/2011	<0.48	12	<50	12	<0.0048	<0.0048	<0.0048	0.0049
GP02	20	7/19/2011	<0.49	17	<50	17	<0.0049	<0.0049	<0.0049	<0.0049
GP02	25	7/19/2011	<0.48	<10	<50	ND	<0.0048	<0.0048	<0.0048	<0.0048
GP03	15	7/19/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
GP03	20	7/19/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
GP03	25	7/19/2011	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
GP04	5	7/19/2011	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
GP04	15	7/19/2011	<0.48	<10	<50	ND	<0.0048	<0.0048	<0.0048	<0.0048
GP04	20	7/19/2011	<0.47	<10	<50	ND	<0.0047	<0.0047	<0.0047	<0.0047
GP04	25	7/19/2011	<0.46	<10	<50	ND	<0.0046	<0.0046	<0.0046	<0.0046
GP05	10	7/19/2011	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
GP05	25	7/19/2011	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
GP06	5	7/20/2011	<0.49	240	3,000	**3,240**	<0.0049	<0.0049	<0.0049	<0.0049
GP06	10	7/20/2011	<0.49	93	260	**353**	<0.0049	<0.0049	<0.0049	<0.0049
GP06	20	7/20/2011	180	2,000	410	**2,590**	<0.0048	<0.0048	0.0091	0.0067
GP06	25	7/20/2011	330	4,800	1,400	**6,530**	<0.045	<0.045	0.43	0.47
GP06	40	7/20/2011	670	4,900	1,100	**6,670**	<0.045	0.25	0.81	1.1
GP07	5	7/20/2011	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
GP07	10	7/20/2011	<0.47	<10	<50	ND	<0.0047	<0.0047	<0.0047	<0.0047
GP07	20	7/20/2011	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
GP07	25	7/20/2011	<0.48	<10	<50	ND	<0.0048	<0.0048	<0.0048	<0.0048
GP08	5	7/20/2011	<0.49	15	320	**335**	<0.0049	<0.0049	<0.0049	<0.0049
GP08	20	7/20/2011	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
GP08	25	7/20/2011	<0.48	<10	<50	ND	<0.0048	<0.0048	<0.0048	<0.0048
GP09	5	7/20/2011	<0.48	410	2,000	**2,410**	<0.0048	<0.0048	<0.0048	<0.0048
GP09	15	7/20/2011	<0.50	<10	450	**450**	<0.0050	<0.0050	<0.0050	<0.0050
GP09	25	7/20/2011	77	220	300	**597**	<0.48	<0.48	0.48	0.7
GP09	35	7/20/2011	230	4,300	3,100	**7,630**	<0.50	<0.50	1.4	1.7
GP10	5	7/22/2011	<0.50	140	1,400	**1,540**	<0.0050	<0.0050	<0.0050	<0.0050
GP10	10	7/22/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
GP10	20	7/22/2011	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
GP10	25	7/22/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
GP11	5	7/22/2011	<0.50	720	6,000	**6,720**	<0.0050	<0.0050	<0.0050	<0.0050
GP11	15	7/22/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
GP11	20	7/22/2011	420	3,400	<500	**3,820**	<0.0050	<0.0050	0.019	0.0089
GP11	45	7/22/2011	630	4,100	<250	**4,730**	<0.044	<0.044	0.79	<0.044
GP12	15	7/22/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
GP12	20	7/22/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
GP12	25	7/22/2011	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
GP13	5	7/22/2011	<0.50	590	5,100	**5,690**	<0.0050	<0.0050	<0.0050	<0.0050
GP13	15	7/22/2011	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
GP13	20	7/22/2011	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
GP13	25	7/22/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
GP14	10	7/22/2011	<0.50	<10	290	**290**	<0.0050	<0.0050	<0.0050	<0.0050
GP14	15	7/22/2011	<0.50	110	960	**1,070**	<0.0050	<0.0050	<0.0050	<0.0050
GP14	20	7/22/2011	130	4,400	1,700	**6,230**	<0.042	<0.042	<0.042	<0.042
GP15	15	7/22/2011	350	2,300	1,300	**3,950**	<0.043	<0.043	<0.043	<0.043
GP16	5	7/25/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
GP16	10	7/25/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
GP16	15	7/25/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
GP16	20	7/25/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
GP16	25	7/25/2011	<0.49	65	170	**235**	<0.0049	<0.0049	<0.0049	<0.0049
GP17	5	7/25/2011	<0.50	98	210	**308**	<0.0050	<0.0050	<0.0050	<0.0050

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Former Orcutt Refinery
1550 West Stowell Road
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Sample Location	Depth	Date	TPHg (C4-C12)	TPHd (C13-C22)	TPHo (C23-C40)	Total TPH (C4-C40)	Benzene	Toluene	Ethylbenzene	Total Xylenes
GP17	10	7/25/2011	<0.50	200	460	**660**	<0.0050	<0.0050	<0.0050	<0.0050
GP17	20	7/25/2011	<0.50	190	400	**590**	<0.0050	<0.0050	<0.0050	<0.0050
GP17	25	7/25/2011	<0.50	45	120	**165**	<0.0050	<0.0050	<0.0050	<0.0050
GP18	5	7/25/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
GP18	10	7/25/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
GP18	20	7/25/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
GP18	25	7/25/2011	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
GP19	5	7/25/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
GP19	10	7/25/2011	<0.50	33	<50	33	<0.0050	<0.0050	<0.0050	<0.0050
GP19	20	7/25/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
GP19	25	7/25/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
GP20	10	7/25/2011	3,100	160	<50	**3,260**	<1.0	<1.0	<1.0	<1.0
GP20	15	7/25/2011	2.0	<10	<50	2.0	<0.0050	<0.0050	<0.0050	<0.0050
GP20	30	7/25/2011	2.7	<10	<50	2.7	<0.0050	<0.0050	<0.0050	0.0086
GP20	4.5	7/25/2011	7,000	890	280	**8,170**	<2.5	<2.5	<2.5	<2.5
GP21	5	7/25/2011	<0.49	23	120	**143**	<0.0049	<0.0049	<0.0049	<0.0049
GP21	10	7/25/2011	<0.49	16	51	67	<0.0049	<0.0049	<0.0049	<0.0049
GP21	20	7/25/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
GP21	25	7/25/2011	0.52	<10	<50	0.52	<0.0050	<0.0050	<0.0050	<0.0050
GP21	35	7/25/2011	1,200	110	69	**1,379**	<0.50	<0.50	<0.50	<0.50
GP22	5	7/26/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
GP22	12	7/26/2011	35,000	2,300	1,900	**39,200**	**14**	4	35	140
GP22	29.5	7/26/2011	18,000	2,200	2,500	**22,700**	**4.9**	14	32	120
GP23	5	7/26/2011	7,600	26	<50	**7,626**	<0.50	<0.50	54	38
GP23	10	7/26/2011	35,000	39	<50	**35,039**	**1.3**	0.89	**150**	**290**
GP23	25	7/26/2011	590	150	110	**850**	0.067	0.28	1.4	4.8
GP24	5	7/26/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
GP24	10	7/26/2011	<0.50	93	190	**283**	<0.0050	<0.0050	<0.0050	<0.0050
GP24	20	7/26/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
GP24	30	7/26/2011	1.9	<10	<50	1.9	<0.0049	<0.0049	<0.0049	<0.0049
GP25	5	7/26/2011	<0.51	<10	<50	ND	<0.0051	<0.0051	<0.0051	<0.0051
GP25	15	7/26/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
GP25	25	7/26/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
GP26	5	7/26/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
GP26	15	7/26/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
GP26	25	7/26/2011	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
GP27	5	7/26/2011	<0.51	12	<50	12	<0.0051	<0.0051	<0.0051	<0.0051
GP27	10	7/26/2011	29	240	<50	**269**	<0.045	<0.045	<0.045	<0.045
GP27	15	7/26/2011	6.5	66	<50	72.5	<0.048	<0.048	<0.048	<0.048
GP27	25	7/26/2011	<4.8	27	<50	27	<0.048	<0.048	<0.048	<0.048
GP028	2	4/10/2012	380	7,400	7,800	**15,580**	<0.045	<0.045	0.11	0.14
GP028	5	4/10/2012	950	9,700	10,000	**20,650**	0.062	<0.043	0.17	0.13
GP028	10	4/10/2012	<0.48	<10	<50	ND	<0.0048	<0.0048	<0.0048	<0.0048
GP028	15	4/10/2012	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
GP028	25	4/10/2012	<0.48	<10	<50	ND	<0.0048	<0.0048	<0.0048	<0.0048
GP029	5	4/10/2012	<0.49	500	3,500	**4,000**	<0.0049	<0.0049	<0.0049	<0.0049
GP029	10	4/10/2012	<0.48	1,200	6,000	**7,200**	<0.0048	<0.0048	<0.0048	<0.0048
GP029	15	4/10/2012	<0.48	<10	<50	ND	<0.0048	<0.0048	<0.0048	<0.0048
GP029	20	4/10/2012	<0.48	<10	<50	ND	<0.0048	<0.0048	<0.0048	<0.0048
GP029	25	4/10/2012	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
GP029	30	4/10/2012	<0.48	<10	<50	ND	<0.0048	<0.0048	<0.0048	<0.0048
GP030	5	4/10/2012	<0.50	570	4,600	**5,170**	<0.0050	<0.0050	<0.0050	<0.0050
GP030	10	4/10/2012	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
GP030	15	4/10/2012	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049

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Sample Location	Depth	Date	TPHg (C4-C12)	TPHd (C13-C22)	TPHo (C23-C40)	Total TPH (C4-C40)	Benzene	Toluene	Ethylbenzene	Total Xylenes
GP030	25	4/10/2012	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
GP031	5	4/10/2012	<0.48	<10	<50	ND	<0.0048	<0.0048	<0.0048	<0.0048
GP031	10	4/10/2012	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
GP031	15	4/10/2012	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
GP031	25	4/10/2012	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
GP032	5	4/10/2012	<0.49	850	2,800	**3,650**	<0.0049	<0.0049	<0.0049	<0.0049
GP032	10	4/10/2012	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
GP032	15	4/10/2012	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
GP032	25	4/10/2012	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
GP033	5	4/10/2012	<0.50	880	2,600	**3,480**	<0.0050	<0.0050	<0.0050	<0.0050
GP033	10	4/10/2012	<0.49	44	190	**234**	<0.0049	<0.0049	<0.0049	<0.0049
GP033	15	4/10/2012	<0.48	<10	<50	ND	<0.0048	<0.0048	<0.0048	<0.0048
GP033	25	4/10/2012	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
TR1a	0.5	7/5/2011	<0.50	11	110	**121**	<0.0050	<0.0050	<0.0050	<0.0050
TR1a	2	7/5/2011	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
TR1a	5	7/5/2011	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
TR1b	2	7/5/2011	1,100	16,000	22,000	**39,100**	<0.49	<0.49	2.7	1
TR1c	0.5	7/5/2011	<0.49	29	200	**229**	<0.0049	<0.0049	<0.0049	<0.0049
TR1c	2	7/5/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
TR1c	5	7/5/2011	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
TR1c	10	7/5/2011	<0.48	<10	<50	ND	<0.0048	<0.0048	<0.0048	<0.0048
TR1c	15	7/5/2011	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
TR1d	0.5	7/5/2011	<0.50	40	340	**380**	<0.0050	<0.0050	<0.0050	<0.0050
TR1d	2	7/5/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
TR1d	5	7/5/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
TR1d	10	7/5/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
TR1d	15	7/5/2011	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
TR2a	0.5	7/5/2011	<0.51	27	230	**257**	<0.0051	<0.0051	<0.0051	<0.0051
TR2a	2	7/5/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
TR2a	5	7/5/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
TR2a	10	7/5/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
TR2a	15	7/5/2011	<0.50	<10	110	**110**	<0.0050	<0.0050	<0.0050	<0.0050
TR2b	0.5	7/5/2011	<0.50	28	340	**368**	<0.0050	<0.0050	<0.0050	<0.0050
TR2b	2	7/5/2011	1,400	20,000	36,000	**57,400**	<0.50	<0.50	3.4	0.85
TR2b	5	7/5/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
TR2b	10	7/5/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
TR2b	15	7/5/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
TR2c	0.5	7/5/2011	<0.50	39	220	**259**	<0.0050	<0.0050	<0.0050	<0.0050
TR2c	2	7/5/2011	<0.50	1,000	3,800	**4,800**	<0.0050	<0.0050	<0.0050	<0.0050
TR2c	5	7/5/2011	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
TR2c	10	7/5/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
TR2c	15	7/5/2011	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
TR3a	0.5	7/6/2011	<0.49	26	330	**356**	<0.0049	<0.0049	<0.0049	<0.0049
TR3a	2	7/6/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
TR3a	5	7/6/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
TR3a	10	7/6/2011	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
TR3a	15	7/6/2011	<0.49	18	<50	18	<0.0049	<0.0049	<0.0049	<0.0049
TR3b	0.5	7/6/2011	<0.50	160	570	**730**	<0.0050	<0.0050	<0.0050	<0.0050
TR3b	2	7/6/2011	5,200	12,000	20,000	**37,200**	**3.9**	3.7	8.6	8.8
TR3b	10	7/6/2011	0.67	1,300	650	**1,951**	<0.0047	<0.0047	<0.0047	<0.0047
TR3b	15	7/6/2011	2,600	710	490	**3,800**	<0.045	<0.045	<0.045	0.073
TR3b	5.5	7/6/2011	1.2	1,600	600	**2,201**	<0.0047	<0.0047	<0.0047	<0.0047
TR3c	0.5	7/6/2011	<0.47	100	740	**840**	<0.0047	<0.0047	<0.0047	<0.0047
TR3c	2	7/6/2011	3,800	9,400	14,000	**27,200**	**4.9**	10	1.8	4

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Sample Location	Depth	Date	TPHg (C4-C12)	TPHd (C13-C22)	TPHo (C23-C40)	Total TPH (C4-C40)	Benzene	Toluene	Ethylbenzene	Total Xylenes
TR3c	5	7/6/2011	7,300	2,200	4,600	**14,100**	**12**	**37**	34	77
TR3c	10	7/6/2011	3,000	700	670	**4,370**	**0.14**	0.8	1.1	6.9
TR3c	15	7/6/2011	1,200	850	440	**2,490**	<2.5	<2.5	<2.5	<2.5
TR4a	0.5	7/6/2011	<0.50	16	580	**596**	<0.0050	<0.0050	<0.0050	<0.0050
TR4a	2	7/6/2011	<0.50	28	680	**708**	<0.0050	<0.0050	<0.0050	<0.0050
TR4a	5	7/6/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
TR4a	10	7/6/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
TR4b	0.5	7/6/2011	<0.50	21	440	**461**	<0.0050	<0.0050	<0.0050	<0.0050
TR4b	2	7/6/2011	<0.50	37	400	**437**	<0.0050	<0.0050	<0.0050	<0.0050
TR4b	5	7/6/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
TR4b	10	7/6/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
TR4b	14	7/6/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
TR4c	0.5	7/6/2011	<0.50	31	370	**401**	<0.0050	<0.0050	<0.0050	<0.0050
TR4c	2	7/6/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
TR4c	5	7/6/2011	<0.50	46	170	**216**	<0.0050	<0.0050	<0.0050	<0.0050
TR4c	10	7/6/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
TR4c	14	7/6/2011	<0.50	18	52	70	<0.0050	<0.0050	<0.0050	<0.0050
TR4c	4.5	7/6/2011	<0.50	27	76	**103**	<0.0050	<0.0050	<0.0050	<0.0050
TR4d	0.5	7/6/2011	<0.50	230	1,000	**1,230**	<0.0050	<0.0050	<0.0050	<0.0050
TR4d	2	7/6/2011	<0.50	340	1,800	**2,140**	<0.0050	<0.0050	<0.0050	<0.0050
TR4d	5	7/6/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
TR4d	10	7/6/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
TR4e	0.5	7/6/2011	<0.50	190	880	**1,070**	<0.0050	<0.0050	<0.0050	<0.0050
TR4e	2	7/6/2011	<0.50	25	120	**145**	<0.0050	<0.0050	<0.0050	<0.0050
TR4e	5	7/6/2011	<0.50	120	600	**720**	<0.0050	<0.0050	<0.0050	<0.0050
TR4e	10	7/6/2011	<0.50	48	180	**228**	<0.0050	<0.0050	<0.0050	<0.0050
TR5a	0.5	7/7/2011	<0.49	580	2,400	**2,980**	<0.0049	<0.0049	<0.0049	<0.0049
TR5a	2	7/7/2011	<0.50	26	220	**246**	<0.0050	<0.0050	<0.0050	<0.0050
TR5a	5	7/7/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
TR5a	10	7/7/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
TR5b	0.5	7/7/2011	<0.49	260	970	**1,230**	<0.0049	<0.0049	<0.0049	<0.0049
TR5b	2	7/7/2011	<0.50	17	90	**107**	<0.0050	<0.0050	<0.0050	<0.0050
TR5b	5	7/7/2011	<0.50	32	360	**392**	<0.0050	<0.0050	<0.0050	<0.0050
TR5b	15	7/7/2011	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
TR5b	9.5	7/7/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
TR5c	0.5	7/7/2011	<0.50	150	640	**790**	<0.0050	<0.0050	<0.0050	<0.0050
TR5c	2	7/7/2011	<0.49	40	210	**250**	<0.0049	<0.0049	<0.0049	<0.0049
TR5c	5	7/7/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
TR5c	10	7/7/2011	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
TR5d	0.5	7/7/2011	<0.50	43	760	**803**	<0.0050	<0.0050	<0.0050	<0.0050
TR5d	2	7/7/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
TR5d	5	7/7/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
TR5d	10	7/7/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
TR6a	0.5	7/7/2011	<0.50	54	1,600	**1,654**	<0.0050	<0.0050	<0.0050	<0.0050
TR6a	2	7/7/2011	<0.50	270	1,800	**2,070**	<0.0050	<0.0050	<0.0050	<0.0050
TR6a	5	7/7/2011	<0.50	280	1,600	**1,880**	<0.0050	<0.0050	<0.0050	<0.0050
TR6a	10	7/7/2011	<0.50	47	420	**467**	<0.0050	<0.0050	<0.0050	<0.0050
TR6a	15	7/7/2011	<0.50	1,100	3,000	**4,100**	<0.0050	<0.0050	<0.0050	<0.0050
TR6b	0.5	7/7/2011	<0.50	43	870	**913**	<0.0050	<0.0050	<0.0050	<0.0050
TR6b	5	7/7/2011	310	6,400	26,000	**32,710**	<0.50	2	1.6	4.9
TR6b	10	7/7/2011	<0.49	26	510	**536**	<0.0049	<0.0049	<0.0049	<0.0049
TR6b	14	7/7/2011	<0.50	59	390	**449**	<0.0050	<0.0050	<0.0050	<0.0050
TR6b	2.5	7/7/2011	<0.50	4,100	26,000	**30,100**	<0.0050	0.0085	0.0085	0.024
TR6c	0.5	7/7/2011	<0.50	28	930	**958**	<0.0050	<0.0050	<0.0050	<0.0050

Table 1
Soil Analytical Results - Total Petroleum Hydrocarbons and BTEX
Former Orcutt Refinery
1550 West Stowell Road
Santa Maria, California

Sample Location	Depth	Date	TPHg (C4-C12)	TPHd (C13-C22)	TPHo (C23-C40)	Total TPH (C4-C40)	Benzene	Toluene	Ethylbenzene	Total Xylenes
TR6c	2	7/7/2011	<0.50	41	290	**331**	<0.0050	<0.0050	<0.0050	<0.0050
TR6c	5	7/7/2011	<0.50	<10	210	**210**	<0.0050	<0.0050	<0.0050	<0.0050
TR6c	10	7/7/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
TR7a	0.5	7/8/2011	<0.50	30	160	**190**	<0.0050	<0.0050	<0.0050	<0.0050
TR7a	2	7/8/2011	<0.50	52	200	**252**	<0.0050	<0.0050	<0.0050	<0.0050
TR7a	5	7/8/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
TR7a	10	7/8/2011	<0.51	<10	<50	ND	<0.0051	<0.0051	<0.0051	<0.0051
TR7a	15	7/8/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
TR7b	0.5	7/8/2011	<0.50	41	310	**351**	<0.0050	<0.0050	<0.0050	<0.0050
TR7b	2	7/8/2011	<0.50	110	540	**650**	<0.0050	<0.0050	<0.0050	<0.0050
TR7b	5	7/8/2011	<0.50	22	94	**116**	<0.0050	<0.0050	<0.0050	<0.0050
TR7b	10	7/8/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
TR7c	0.5	7/8/2011	<0.50	46	380	**426**	<0.0050	<0.0050	<0.0050	<0.0050
TR7c	2	7/8/2011	2,700	10,000	9,200	**21,900**	<0.50	2.9	1.9	15
TR7c	10	7/8/2011	7.6	<10	<50	7.6	<0.0050	<0.0050	<0.0050	0.032
TR7c	12	7/8/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
TR7c	4.5	7/8/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
TR7d	0.5	7/8/2011	<0.50	55	400	**455**	<0.0050	<0.0050	<0.0050	<0.0050
TR7d	2	7/8/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
TR7d	5	7/8/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
TR7d	10	7/8/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
TR7d	15	7/8/2011	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
TR8a	0.5	7/8/2011	<0.49	41	320	**361**	<0.0049	<0.0049	<0.0049	<0.0049
TR8a	2	7/8/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
TR8a	5	7/8/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
TR8a	10	7/8/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
TR8a	15	7/8/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
TR9a	0.5	7/11/2011	<0.50	17	350	**367**	<0.0050	<0.0050	<0.0050	<0.0050
TR9a	2	7/11/2011	530	9,600	27,000	**37,130**	<0.53	<0.53	1.4	2.6
TR9a	5	7/11/2011	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
TR9a	10	7/11/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
TR9a	12	7/11/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
TR9b	0.5	7/11/2011	<0.50	23	730	**753**	<0.0050	<0.0050	<0.0050	<0.0050
TR9b	2	7/11/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
TR9b	5	7/11/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
TR9b	10	7/11/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
TR9c	0.5	7/11/2011	<0.50	16	450	**466**	<0.0050	<0.0050	<0.0050	<0.0050
TR9c	2	7/11/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
TR9c	5	7/11/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
TR9c	10	7/11/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
TR9c	14	7/11/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
TR9d	0.5	7/11/2011	<0.50	110	1,100	**1,210**	<0.0050	<0.0050	<0.0050	<0.0050
TR9d	2	7/11/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
TR9d	5	7/11/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
TR9d	10	7/11/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
TR9d	14	7/11/2011	<0.50	360	910	**1,270**	<0.0050	<0.0050	<0.0050	<0.0050
TR9e	0.5	7/11/2011	<0.50	48	840	**888**	<0.0050	<0.0050	<0.0050	<0.0050
TR9e	2	7/11/2011	<0.49	620	5,600	**6,220**	<0.0049	<0.0049	<0.0049	<0.0049
TR9e	5	7/11/2011	<0.49	560	3,900	**4,460**	<0.0049	<0.0049	<0.0049	<0.0049
TR9e	10	7/11/2011	<0.50	13	99	**112**	<0.0050	<0.0050	<0.0050	<0.0050
TR9e	15	7/11/2011	<0.50	58	410	**468**	<0.0050	<0.0050	<0.0050	<0.0050
TR9f	0.5	7/11/2011	<0.48	54	720	**774**	<0.0048	<0.0048	<0.0048	<0.0048
TR9f	2	7/11/2011	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
TR9f	5	7/11/2011	<0.50	570	10,000	**10,570**	<0.0050	<0.0050	<0.0050	<0.0050

Table 1
Soil Analytical Results - Total Petroleum Hydrocarbons and BTEX
Former Orcutt Refinery
1550 West Stowell Road
Santa Maria, California

Sample Location	Depth	Date	TPHg (C4-C12)	TPHd (C13-C22)	TPHo (C23-C40)	Total TPH (C4-C40)	Benzene	Toluene	Ethylbenzene	Total Xylenes
TR9f	10	7/11/2011	<0.50	200	2,900	**3,100**	<0.0050	<0.0050	<0.0050	<0.0050
TR9f	15	7/11/2011	<0.49	24	280	**304**	<0.0049	<0.0049	<0.0049	<0.0049
TR9g	0.5	7/11/2011	<0.50	38	590	**628**	<0.0050	<0.0050	<0.0050	<0.0050
TR9g	2	7/11/2011	<0.48	13	<50	13	<0.0048	<0.0048	<0.0048	<0.0048
TR9g	5	7/11/2011	14	5,600	22,000	**27,614**	<0.047	<0.047	<0.047	<0.047
TR9g	10	7/11/2011	<0.48	<10	<50	ND	<0.0048	<0.0048	<0.0048	<0.0048
TR9g	15	7/11/2011	<0.48	97	690	**787**	<0.0048	<0.0048	<0.0048	<0.0048
TR9h	0.5	7/12/2011	<0.49	82	1,500	**1,582**	<0.0049	<0.0049	<0.0049	<0.0049
TR9h	2	7/12/2011	13	6,500	25,000	**31,513**	<0.045	0.082	0.058	0.13
TR9h	5	7/12/2011	16	9,000	7,200	**16,216**	<0.046	<0.046	0.11	<0.046
TR9h	10	7/12/2011	<0.49	140	710	**850**	<0.0049	<0.0049	<0.0049	<0.0049
TR9h	15	7/12/2011	<0.50	71	150	**221**	<0.0050	<0.0050	<0.0050	<0.0050
TR10a	0.5	7/12/2011	<0.48	78	430	**508**	<0.0048	<0.0048	<0.0048	<0.0048
TR10a	2	7/12/2011	<0.50	25	110	**135**	<0.0050	<0.0050	<0.0050	<0.0050
TR10a	5	7/12/2011	<0.49	200	480	**680**	<0.0049	<0.0049	<0.0049	<0.0049
TR10a	10	7/12/2011	<0.48	210	730	**940**	<0.0048	<0.0048	<0.0048	<0.0048
TR10a	14	7/12/2011	<0.50	180	390	**570**	<0.0050	<0.0050	<0.0050	<0.0050
TR10b	0.5	7/12/2011	<0.50	66	310	**376**	<0.0050	<0.0050	<0.0050	<0.0050
TR10b	2	7/12/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
TR10b	5	7/12/2011	<0.51	<10	<50	ND	<0.0051	<0.0051	<0.0051	<0.0051
TR10b	10	7/12/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
TR10b	13	7/12/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
TR10c	0.5	7/12/2011	<0.50	56	280	**336**	<0.0050	<0.0050	<0.0050	<0.0050
TR10c	2	7/12/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
TR10c	5	7/12/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
TR10c	10	7/12/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
TR10c	14	7/12/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
TR11a	0.5	7/13/2011	<0.50	200	990	**1,190**	<0.0050	<0.0050	<0.0050	<0.0050
TR11a	2	7/13/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
TR11a	5	7/13/2011	<0.48	<10	<50	ND	<0.0048	<0.0048	<0.0048	<0.0048
TR11a	10	7/13/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
TR11a	15	7/13/2011	<0.50	19	69	88	<0.0050	<0.0050	<0.0050	<0.0050
TR11b	0.5	7/13/2011	<0.48	1,700	9,300	**11,000**	<0.0048	<0.0048	<0.0048	<0.0048
TR11b	2	7/13/2011	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
TR11b	5	7/13/2011	<0.47	<10	<50	ND	<0.0047	<0.0047	<0.0047	<0.0047
TR11b	10	7/13/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
TR11b	15	7/13/2011	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
TR11c	0.5	7/13/2011	<0.48	290	1,100	**1,390**	<0.0048	<0.0048	<0.0048	<0.0048
TR11c	2	7/13/2011	<0.49	66	220	**286**	<0.0049	<0.0049	<0.0049	<0.0049
TR11c	5	7/13/2011	<0.50	18	<50	18	<0.0050	<0.0050	<0.0050	<0.0050
TR11c	10	7/13/2011	<0.49	11	<50	11	<0.0049	<0.0049	<0.0049	<0.0049
TR11c	14	7/13/2011	160	2,700	1,200	**4,060**	<0.045	<0.045	<0.045	<0.045
TR12a	0.5	7/13/2011	<0.49	160	650	**810**	<0.0049	<0.0049	<0.0049	<0.0049
TR12a	2	7/13/2011	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
TR12a	5	7/13/2011	<0.50	150	730	**880**	<0.0050	<0.0050	<0.0050	<0.0050
TR12a	10	7/13/2011	<0.49	24	340	**364**	<0.0049	<0.0049	<0.0049	<0.0049
TR12a	15	7/13/2011	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
TR12b	0.5	7/13/2011	<0.49	230	920	**1,150**	<0.0049	<0.0049	<0.0049	<0.0049
TR12b	2	7/13/2011	<0.50	570	2,300	**2,870**	<0.0050	<0.0050	<0.0050	<0.0050
TR12b	5	7/13/2011	<0.49	580	2,000	**2,580**	<0.0049	<0.0049	<0.0049	<0.0049
TR12b	10	7/13/2011	<0.50	130	400	**530**	<0.0050	<0.0050	<0.0050	<0.0050
TR12b	15	7/13/2011	<0.49	220	770	**990**	<0.0049	<0.0049	<0.0049	<0.0049
TR13a	0.5	7/14/2011	<0.49	180	1,000	**1,180**	<0.0049	<0.0049	<0.0049	<0.0049
TR13a	2	7/14/2011	<0.49	16	<50	16	<0.0049	<0.0049	<0.0049	<0.0049

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Sample Location	Depth	Date	TPHg (C4-C12)	TPHd (C13-C22)	TPHo (C23-C40)	Total TPH (C4-C40)	Benzene	Toluene	Ethylbenzene	Total Xylenes
TR13a	5	7/14/2011	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
TR13a	10	7/14/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
TR13a	15	7/14/2011	<0.50	13	<50	13	<0.0050	<0.0050	<0.0050	<0.0050
TR13b	0.5	7/14/2011	<0.49	66	300	**366**	<0.0049	<0.0049	<0.0049	<0.0049
TR13b	2	7/14/2011	<0.50	170	520	**690**	<0.0050	<0.0050	<0.0050	<0.0050
TR13b	5	7/14/2011	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
TR13b	10	7/14/2011	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
TR13b	15	7/14/2011	<0.47	<10	<50	ND	<0.0047	<0.0047	<0.0047	<0.0047
TR14a	0.5	7/14/2011	<0.47	<10	<50	ND	<0.0047	<0.0047	<0.0047	<0.0047
TR14a	2	7/14/2011	<0.48	<10	<50	ND	<0.0048	<0.0048	<0.0048	<0.0048
TR14a	5	7/14/2011	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
TR14a	10	7/14/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
TR14a	14	7/14/2011	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
TR14b	0.5	7/14/2011	<0.50	550	2,200	**2,750**	<0.0050	<0.0050	<0.0050	<0.0050
TR14b	2	7/14/2011	<0.48	<10	<50	ND	<0.0048	<0.0048	<0.0048	<0.0048
TR14b	5	7/14/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
TR14b	10	7/14/2011	<0.47	<10	<50	ND	<0.0047	<0.0047	<0.0047	<0.0047
TR14c	0.5	7/14/2011	<0.49	92	760	**852**	<0.0049	<0.0049	<0.0049	<0.0049
TR14c	2	7/14/2011	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
TR14c	5	7/14/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
TR14c	10	7/14/2011	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
TR15a	0.5	7/15/2011	<0.50	17	94	**111**	<0.0050	<0.0050	<0.0050	<0.0050
TR15a	2	7/15/2011	<0.50	850	2,200	**3,050**	<0.0050	<0.0050	<0.0050	<0.0050
TR15a	5	7/15/2011	<0.48	<10	<50	ND	<0.0048	<0.0048	<0.0048	<0.0048
TR15a	10	7/15/2011	<0.48	<10	<50	ND	<0.0048	<0.0048	<0.0048	<0.0048
TR15a	12	7/15/2011	<0.48	46	99	**145**	<0.0048	<0.0048	<0.0048	<0.0048
TR15b	0.5	7/15/2011	<0.48	26	130	**156**	<0.0048	<0.0048	<0.0048	<0.0048
TR15b	2	7/15/2011	<0.49	150	1,200	**1,350**	<0.0049	<0.0049	<0.0049	<0.0049
TR15b	5	7/15/2011	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
TR15b	10	7/15/2011	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
TR15b	15	7/15/2011	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
TR15c	0.5	7/15/2011	<0.48	31	210	**241**	<0.0048	<0.0048	<0.0048	<0.0048
TR15c	2	7/15/2011	<0.48	15	100	**115**	<0.0048	<0.0048	<0.0048	<0.0048
TR15c	5	7/15/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
TR15c	10	7/15/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
TR15c	14	7/15/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
TR16a	0.5	7/15/2011	<0.50	28	100	**128**	<0.0050	<0.0050	<0.0050	<0.0050
TR16a	2	7/15/2011	<0.49	140	730	**870**	<0.0049	<0.0049	<0.0049	<0.0049
TR16a	5	7/15/2011	<0.50	41	<50	41	<0.0050	<0.0050	<0.0050	<0.0050
TR16a	10	7/15/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
TR16a	15	7/15/2011	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
TR16b	0.5	7/15/2011	<0.50	120	550	**670**	<0.0050	<0.0050	<0.0050	<0.0050
TR16b	2	7/15/2011	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
TR16b	5	7/15/2011	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
TR16b	10	7/15/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
TR16b	15	7/15/2011	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
TR16c	0.5	7/15/2011	<0.49	60	810	**870**	<0.0049	<0.0049	<0.0049	<0.0049
TR16c	2	7/15/2011	<0.50	17	190	**207**	<0.0050	<0.0050	<0.0050	<0.0050
TR16c	5	7/15/2011	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
TR16c	9	7/15/2011	<0.50	1,300	3,500	**4,800**	<0.0050	<0.0050	<0.0050	<0.0050
TR16c	15	7/15/2011	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
TR16d	0.5	7/15/2011	<0.49	72	910	**982**	<0.0049	<0.0049	<0.0049	<0.0049
TR16d	2	7/15/2011	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
TR16d	5	7/15/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050

Table 1
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Former Orcutt Refinery
1550 West Stowell Road
Santa Maria, California

Sample Location	Depth	Date	TPHg (C4-C12)	TPHd (C13-C22)	TPHo (C23-C40)	Total TPH (C4-C40)	Benzene	Toluene	Ethylbenzene	Total Xylenes
TR16d	10	7/15/2011	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
TR16d	15	7/15/2011	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
MW11	6	8/2/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
MW11	16	8/2/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
MW11	26	8/2/2011	<0.50	75	200	**275**	<0.0050	<0.0050	<0.0050	<0.0050
MW11	31	8/2/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
MW11	56	8/2/2011	29,000	2,900	1,100	**33,000**	<0.047	**56**	**140**	**320**
MW11	61	8/2/2011	250	42	<50	**292**	<0.50	<0.50	1	2.1
MW11	71	8/2/2011	180	57	<50	**237**	<0.50	<0.50	0.72	0.73
MW11	81	8/2/2011	1,400	160	<50	**1,560**	<0.047	<0.047	1.3	0.98
MW11	96	8/2/2011	4.3	150	<50	**154.3**	<0.0050	<0.0050	0.013	0.018
MW11	101	8/2/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
MW11	116	8/2/2011	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
MW11	129	8/2/2011	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
MW11	50.5	8/2/2011	4,700	1,400	350	**6,450**	<0.49	6.8	20	44
HSA005	25	3/16/2012	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
HSA005	35	3/16/2012	310	4,100	710	**5,120**	<0.045	<0.045	0.075	0.1
HSA005	55	3/16/2012	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
HSA005	75	3/16/2012	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
HSA005	80	3/16/2012	32	610	210	**852**	<0.048	<0.048	<0.048	<0.048
HSA005	85	3/16/2012	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
HSA005	100	3/16/2012	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
HSA006	25	3/19/2012	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
HSA006	45	3/19/2012	<0.50	<20	<100	ND	<0.0050	<0.0050	<0.0050	<0.0050
HSA006	50	3/19/2012	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
HSA006	55	3/19/2012	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
HSA006	65	3/19/2012	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
HSA006	75	3/19/2012	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
HSA006	85	3/19/2012	4.0	11	<50	15	<0.0049	<0.0049	<0.0049	<0.0049
HSA006	100	3/19/2012	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
HSA007	30	3/20/2012	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
HSA007	50	3/20/2012	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
HSA007	70	3/20/2012	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
HSA007	80	3/20/2012	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
HSA007	84	3/20/2012	1,000	520	<50	**1,520**	<0.98	<0.98	<0.98	<0.98
HSA007	85	3/20/2012	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
HSA007	90	3/20/2012	0.52	<10	<50	0.52	<0.0049	<0.0049	<0.0049	<0.0049
HSA007	100	3/20/2012	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
HSA008	25	3/21/2012	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
HSA008	60	3/21/2012	920	970	<50	**1,890**	<0.99	<0.99	<0.99	<0.99
HSA008	70	3/21/2012	530	160	<50	**690**	<0.98	<0.98	<0.98	<0.98
HSA008	80	3/21/2012	1,100	1,700	160	**2,960**	<1.0	<1.0	<1.0	<1.0
HSA008	85	3/21/2012	860	2,200	<250	**3,060**	<0.98	<0.98	<0.98	<0.98
HSA008	90	3/21/2012	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
HSA008	95	3/21/2012	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
HSA008	100	3/21/2012	0.59	<10	<50	0.59	<0.0050	<0.0050	<0.0050	<0.0050
HSA009	25	3/21/2012	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
HSA009	50	3/21/2012	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
HSA009	60	3/22/2012	<0.48	<10	<50	ND	<0.0048	<0.0048	<0.0048	<0.0048
HSA009	75	3/22/2012	<0.48	<10	<50	ND	<0.0048	<0.0048	<0.0048	<0.0048
HSA009	85	3/22/2012	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
HSA009	100	3/22/2012	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
HSA010	25	3/22/2012	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
HSA010	50	3/22/2012	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049

Table 1
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Sample Location	Depth	Date	TPHg (C4-C12)	TPHd (C13-C22)	TPHo (C23-C40)	Total TPH (C4-C40)	Benzene	Toluene	Ethylbenzene	Total Xylenes
HSA010	65	3/22/2012	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
HSA010	70	3/22/2012	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
HSA010	80	3/22/2012	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
HSA010	90	3/22/2012	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
HSA010	100	3/22/2012	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
HSA011	5	3/23/2012	<0.48	<10	<50	ND	<0.0048	<0.0048	<0.0048	<0.0048
HSA011	15	3/23/2012	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
HSA011	25	3/23/2012	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
HSA011	35	3/23/2012	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
HSA011	40	3/23/2012	<0.48	<10	<50	ND	<0.0048	<0.0048	<0.0048	<0.0048
HSA012	5	3/26/2012	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
HSA012	15	3/26/2012	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
HSA012	25	3/26/2012	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
HSA012	35	3/26/2012	<0.48	<10	<50	ND	<0.0048	<0.0048	<0.0048	<0.0048
HSA012	40	3/26/2012	<0.47	<10	<50	ND	<0.0047	<0.0047	<0.0047	<0.0047
HSA013	5	3/26/2012	<0.46	<10	<50	ND	<0.0046	<0.0046	<0.0046	<0.0046
HSA013	10	3/26/2012	<0.48	<10	<50	ND	<0.0048	<0.0048	<0.0048	<0.0048
HSA013	15	3/26/2012	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
HSA013	20	3/26/2012	<0.47	<10	<50	ND	<0.0047	<0.0047	<0.0047	<0.0047
HSA013	30	3/26/2012	<0.47	<10	<50	ND	<0.0047	<0.0047	<0.0047	<0.0047
HSA013	40	3/26/2012	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
HSA014	5	3/26/2012	<0.48	<10	<50	ND	<0.0048	<0.0048	<0.0048	<0.0048
HSA014	10	3/26/2012	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
HSA014	15	3/26/2012	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
HSA014	20	3/26/2012	<0.48	<10	<50	ND	<0.0048	<0.0048	<0.0048	<0.0048
HSA014	30	3/26/2012	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
HSA014	40	3/26/2012	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
HSA015	5	3/27/2012	<0.50	700	1,500	**2,200**	<0.0050	<0.0050	<0.0050	<0.0050
HSA015	10	3/27/2012	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
HSA015	15	3/27/2012	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
HSA015	20	3/27/2012	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
HSA015	30	3/27/2012	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
HSA015	40	3/27/2012	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
HSA016	5	3/27/2012	2,500	2,800	3,200	**8,500**	<0.25	4.2	12	38
HSA016	10	3/27/2012	2,500	1,400	1,300	**5,200**	<0.25	0.96	2.8	27
HSA016	15	3/27/2012	28	430	74	**532**	<0.025	<0.025	<0.025	0.11
HSA016	20	3/27/2012	1.9	110	<50	**111.9**	<0.0049	<0.0049	<0.0049	<0.0049
HSA016	30	3/27/2012	0.77	120	<50	**120.77**	<0.0050	<0.0050	<0.0050	<0.0050
HSA016	40	3/27/2012	3.9	59	<50	62.9	<0.0050	<0.0050	<0.0050	<0.0050
HSA016	50	3/27/2012	18	11	<50	29	<0.025	<0.025	<0.025	<0.025
HSA016	55	3/27/2012	0.54	<10	<50	0.54	<0.0050	<0.0050	<0.0050	<0.0050
HSA017	5	3/27/2012	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
HSA017	10	3/27/2012	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
HSA017	15	3/27/2012	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
HSA017	25	3/27/2012	6.0	37	<50	43	<0.0051	<0.0051	<0.0051	<0.0051
HSA017	35	3/27/2012	1,100	100	<50	**1,200**	<0.25	<0.25	5.8	6.9
HSA017	45	3/27/2012	3.0	<10	<50	3.0	<0.0050	<0.0050	<0.0050	<0.0050
HSA017	50	3/27/2012	0.74	<10	<50	0.74	<0.0049	<0.0049	<0.0049	<0.0049
HSA018	5	3/28/2012	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
HSA018	10	3/28/2012	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
HSA018	15	3/28/2012	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
HSA018	20	3/28/2012	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
HSA018	30	3/28/2012	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
HSA018	40	3/28/2012	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050

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Sample Location	Depth	Date	TPHg (C4-C12)	TPHd (C13-C22)	TPHo (C23-C40)	Total TPH (C4-C40)	Benzene	Toluene	Ethylbenzene	Total Xylenes
HSA019	5	3/28/2012	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
HSA019	10	3/28/2012	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
HSA019	15	3/28/2012	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
HSA019	20	3/28/2012	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
HSA019	30	3/28/2012	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
HSA019	40	3/28/2012	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
HSA020	5	3/29/2012	5,700	1,700	1,700	**9,100**	**6.9**	**26**	30	78
HSA020	10	3/29/2012	3,500	330	120	**3,950**	<2.5	<2.5	<2.5	10
HSA020	15	3/29/2012	1,000	280	74	**1,354**	<0.24	<0.24	<0.24	0.59
HSA020	20	3/29/2012	960	140	<50	**1,100**	<0.25	<0.25	<0.25	<0.25
HSA020	30	3/29/2012	<0.50	45	<50	45	<0.0050	<0.0050	<0.0050	<0.0050
HSA020	35	3/29/2012	7.3	44	<50	51.3	<0.0049	<0.0049	0.021	0.054
HSA020	50	3/29/2012	9.2	21	<50	30.2	<0.0049	<0.0049	0.0088	0.0052
HSA020	60	3/29/2012	6.5	<10	<50	6.5	<0.0049	<0.0049	<0.0049	<0.0049
HSA020	65	3/29/2012	1.0	<10	<50	1.0	<0.0050	<0.0050	<0.0050	<0.0050
HSA020	70	3/29/2012	1.1	<10	<50	1.1	<0.0050	<0.0050	<0.0050	<0.0050
HSA021	5	3/29/2012	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
HSA021	10	3/29/2012	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
HSA021	15	3/29/2012	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
HSA021	20	3/29/2012	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
HSA021	30	3/29/2012	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
HSA021	40	3/29/2012	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
HSA021	50	3/29/2012	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
HSA021	60	3/30/2012	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
HSA021	70	3/30/2012	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
HSA022	5	3/30/2012	<0.50	16	<50	16	<0.0050	<0.0050	<0.0050	<0.0050
HSA022	10	3/30/2012	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
HSA022	15	3/30/2012	<0.47	23	59	82	<0.0047	<0.0047	<0.0047	<0.0047
HSA022	20	3/30/2012	1.1	1,600	820	**2,421**	<0.0048	<0.0048	<0.0048	<0.0048
HSA022	30	3/30/2012	3.2	87	<50	90.2	<0.0049	<0.0049	<0.0049	<0.0049
HSA022	40	3/30/2012	3.1	39	<50	42.1	<0.0047	<0.0047	<0.0047	<0.0047
HSA022	50	3/30/2012	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
HSA022	60	3/30/2012	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
HSA022	70	3/30/2012	<0.46	<10	<50	ND	<0.0046	<0.0046	<0.0046	<0.0046
HSA023	10	4/2/2012	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
HSA023	20	4/2/2012	1,800	6,200	62	**8,062**	<2.5	<2.5	<2.5	<2.5
HSA023	40	4/2/2012	380	1,700	<50	**2,080**	<0.25	<0.25	0.36	<0.25
HSA023	50	4/2/2012	290	650	<50	**940**	<0.25	<0.25	<0.25	<0.25
HSA023	60	4/2/2012	3,500	4,600	<50	**8,100**	<2.5	<2.5	<2.5	<2.5
HSA023	70	4/2/2012	1,600	1,400	<50	**3,000**	<2.5	<2.5	<2.5	<2.5
HSA023	80	4/2/2012	2,100	1,700	<50	**3,800**	<2.5	<2.5	<2.5	<2.5
HSA023	90	4/2/2012	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
HSA023	95	4/2/2012	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
HSA024	20	4/2/2012	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
HSA024	25	4/2/2012	3.4	160	<50	**163.4**	<0.0049	<0.0049	<0.0049	<0.0049
HSA024	30	4/2/2012	1,100	4,100	700	**5,900**	<2.5	<2.5	<2.5	<2.5
HSA024	40	4/3/2012	310	2,100	290	**2,700**	<0.24	<0.24	<0.24	<0.24
HSA024	50	4/3/2012	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
HSA024	60	4/3/2012	<0.48	<10	<50	ND	<0.0048	<0.0048	<0.0048	<0.0048
HSA024	70	4/3/2012	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
HSA024	75	4/3/2012	<0.48	<10	<50	ND	<0.0048	<0.0048	<0.0048	<0.0048
HSA024	80	4/3/2012	<0.47	<10	<50	ND	<0.0047	<0.0047	<0.0047	<0.0047
HSA025	25	4/3/2012	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
HSA025	35	4/3/2012	350	3,800	550	**4,700**	0.0065	0.098	1.2	1.4

Table 1
Soil Analytical Results - Total Petroleum Hydrocarbons and BTEX
Former Orcutt Refinery
1550 West Stowell Road
Santa Maria, California

Sample Location	Depth	Date	TPHg (C4-C12)	TPHd (C13-C22)	TPHo (C23-C40)	Total TPH (C4-C40)	Benzene	Toluene	Ethylbenzene	Total Xylenes
HSA025	45	4/3/2012	<0.50	14	<50	14	<0.0050	<0.0050	<0.0050	<0.0050
HSA025	55	4/3/2012	1,300	3,700	640	**5,640**	<2.5	<2.5	<2.5	2.6
HSA025	60	4/3/2012	1,200	4,300	710	**6,210**	<2.5	<2.5	<2.5	<2.5
HSA025	70	4/3/2012	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
HSA025	75	4/3/2012	26	280	<50	**306**	<0.024	<0.024	<0.024	<0.024
HSA025	85	4/3/2012	1,000	14,000	2,800	**17,800**	<2.5	<2.5	<2.5	<2.5
HSA025	90	4/3/2012	120	2,300	470	**2,890**	<0.25	<0.25	<0.25	<0.25
HSA025	95	4/3/2012	79	490	130	**699**	<0.25	<0.25	<0.25	<0.25
HSA025	100	4/3/2012	<0.50	17	<50	17	<0.0050	<0.0050	<0.0050	<0.0050
HSA026	15	4/4/2012	<0.49	370	630	**1,000**	<0.0049	<0.0049	<0.0049	<0.0049
HSA026	25	4/4/2012	300	1,500	280	**2,080**	<0.022	<0.022	0.092	<0.022
HSA026	40	4/4/2012	71,000	2,700	500	**74,200**	<110	<110	**230**	**220**
HSA026	55	4/4/2012	3,700	19,000	4,300	**27,000**	<98	**160**	**760**	**940**
HSA026	70	4/4/2012	<0.47	<10	<50	ND	<0.0047	<0.0047	<0.0047	<0.0047
HSA026	80	4/4/2012	1.3	19	<50	20.3	<0.0049	<0.0049	<0.0049	<0.0049
HSA026	90	4/4/2012	51,000	140	<50	**51,140**	<81	<81	**170**	**200**
HSA026	100	4/4/2012	720	1,600	270	**2,590**	0.014	0.044	1.2	0.17
HSA027	5	4/4/2012	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
HSA027	10	4/4/2012	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
HSA027	20	4/4/2012	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
HSA027	30	4/4/2012	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
HSA027	40	4/4/2012	<0.48	<10	<50	ND	<0.0048	<0.0048	<0.0048	<0.0048
HSA028	25	4/4/2012	270	4,100	2,200	**6,570**	<0.25	<0.25	<0.25	<0.25
HSA028	40	4/4/2012	1,300	11,000	4,700	**17,000**	<2.5	<2.5	<2.5	<2.5
HSA028	55	4/5/2012	380	4,000	1,900	**6,280**	<0.24	<0.24	0.33	<0.24
HSA028	65	4/5/2012	13	3,000	980	**3,993**	<0.023	<0.023	<0.023	<0.023
HSA028	70	4/5/2012	190	1,600	530	**2,320**	<0.25	<0.25	<0.25	<0.25
HSA028	75	4/5/2012	<0.50	24	<50	24	<0.0050	<0.0050	<0.0050	<0.0050
HSA029	20	4/5/2012	170	4,900	3,500	**8,570**	<0.24	<0.24	<0.24	<0.24
HSA029	25	4/5/2012	340	9,800	5,400	**15,540**	<0.25	<0.25	<0.25	<0.25
HSA029	35	4/5/2012	240	6,600	2,300	**9,140**	<0.25	<0.25	<0.25	<0.25
HSA029	45	4/5/2012	170	11,000	3,800	**14,970**	<0.25	<0.25	0.41	<0.25
HSA029	55	4/5/2012	100	18,000	6,400	**24,500**	<0.023	<0.023	0.5	0.11
HSA029	65	4/5/2012	34	5,300	1,600	**6,934**	<0.023	<0.023	0.16	0.067
HSA029	75	4/5/2012	2.6	2,000	650	**2,653**	<0.0050	<0.0050	0.0057	<0.0050
HSA029	80	4/5/2012	86	5,200	2,000	**7,286**	<0.0049	<0.0049	<0.0049	<0.0049
HSA029	85	4/5/2012	<0.48	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
HA031	2	1/28/2013	<0.50	<10	<50	ND	<0.0049	**0.024**	<0.0049	**0.0054**
HA032	2	1/28/2013	<0.51	**910**	**4,400**	**5,310**	<0.0051	<0.0051	<0.0051	<0.0051
HA033	2	1/28/2013	<0.49	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
HA034	2	1/28/2013	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
HA035	2	1/28/2013	<0.50	**48**	**500**	**548**	<0.0049	<0.0049	<0.0049	<0.0049
HA036	2	1/28/2013	<0.49	**250**	**3,100**	**3,350**	<0.024	<0.024	<0.024	<0.024
HA037	5	1/28/2013	<0.50	<10	<50	ND	<0.0051	<0.0051	<0.0051	<0.0051
HA038	2	1/28/2013	<0.49	**280**	**1,800**	**2,080**	<0.0049	<0.0049	<0.0049	<0.0049
HA038	5	1/28/2013	<0.50	**210**	**1,600**	**1,810**	<0.0050	<0.0050	<0.0050	<0.0050
HA039	2	1/28/2013	<0.50	<10	**55**	**55**	<0.0050	<0.0050	<0.0050	<0.0050
HA039	5	1/28/2013	<0.49	<10	**56**	**56**	<0.0050	<0.0050	<0.0050	<0.0050
HA040	2	1/28/2013	<0.49	<10	<50	ND	<0.0048	<0.0048	<0.0048	<0.0048
HA040	5	1/28/2013	<0.50	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
HA041	2	1/28/2013	<0.50	**850**	**2,000**	**2,850**	<0.024	<0.024	<0.024	<0.024
HA041	5	1/28/2013	**670**	**2,600**	**4,000**	**7,270**	<1.2	<1.2	<1.2	<1.2
HA042	2	1/29/2013	<0.49	**410**	**2,500**	**2,910**	<0.0050	<0.0050	<0.0050	<0.0050
HA042	5	1/29/2013	**17**	**4,300**	**7,100**	**11,417**	<0.24	**0.24**	<0.24	**0.42**

Table 1
Soil Analytical Results - Total Petroleum Hydrocarbons and BTEX
Former Orcutt Refinery
1550 West Stowell Road
Santa Maria, California

Sample Location	Depth	Date	TPHg (C4-C12)	TPHd (C13-C22)	TPHo (C23-C40)	Total TPH (C4-C40)	Benzene	Toluene	Ethylbenzene	Total Xylenes
HA043	2	1/29/2013	<0.49	**1,800**	**7,900**	**9,700**	<0.0050	<0.0050	<0.0050	<0.0050
HA043	5	1/29/2013	**1.8**	**1,100**	**1,200**	**2,302**	**0.26**	**0.7**	**1.2**	**3.3**
HA044	2	1/29/2013	<0.49	**440**	**1,600**	**2,040**	<0.0050	<0.0050	<0.0050	<0.0050
HA044	5	1/29/2013	<0.48	**12**	**51**	**63**	<0.0049	<0.0049	<0.0049	<0.0049
HA045	2	1/29/2013	-	-	-	-	<0.0050	**0.0099**	**0.0078**	**0.093**
HA045	5	1/29/2013	-	-	-	-	<0.0050	<0.0050	<0.0050	<0.0050
HA046	2	1/29/2013	<0.50	**12**	**79**	**91**	<0.0049	<0.0049	<0.0049	<0.0049
HA046	5	1/29/2013	-	-	-	-	<0.0050	<0.0050	<0.0050	<0.0050
HA047	2	1/29/2013	-	-	-	-	<0.0050	<0.0050	<0.0050	<0.0050
HA047	5	1/29/2013	-	-	-	-	<0.0050	<0.0050	<0.0050	<0.0050
HA048	2	1/29/2013	-	-	-	-	<0.0050	<0.0050	<0.0050	<0.0050
HA048	5	1/29/2013	-	-	-	-	<0.0050	<0.0050	<0.0050	<0.0050
HA049	2	1/29/2013	**40**	**3,500**	**6,000**	**9,540**	**0.28**	<0.24	**0.33**	**0.37**
HA049	5	1/29/2013	**240**	**1,200**	**2,800**	**4,240**	**0.32**	<0.25	**1.1**	<0.25
HA050	2	1/29/2013	-	-	-	-	<0.0050	<0.0050	<0.0050	<0.0050
HA050	5	1/29/2013	-	-	-	-	<0.0049	<0.0049	<0.0049	<0.0049
HA051	2	1/29/2013	-	-	-	-	<0.0050	<0.0050	<0.0050	<0.0050
HA051	5	1/29/2013	-	-	-	-	<0.0049	<0.0049	<0.0049	<0.0049
HA052	2	1/30/2013	-	-	-	-	<0.0049	<0.0049	<0.0049	<0.0049
HA052	5	1/30/2013	-	-	-	-	<0.0050	<0.0050	<0.0050	<0.0050
HA053	5	1/30/2013	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
SG001	6	1/28/2013	**55**	**1,100**	**8,000**	**9,155**	<0.24	**0.26**	**0.41**	**1.3**
SG006	10	1/29/2013	**970**	**2,100**	**2,900**	**5,970**	**3**	<2.5	**9.2**	**26**
SG006	15	1/29/2013	**1,900**	**6,000**	**5,600**	**13,500**	**3.7**	**6.7**	**4.9**	**16**
SG17	3	6/18/2013	<0.50	**11**	**54**	**65**	<0.0050	<0.0050	<0.0050	<0.0050
SG17	10	6/18/2013	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
SG17	15	6/18/2013	<0.49	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
SG18	3	6/18/2013	<0.49	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
SG18	10	6/18/2013	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
SG18	15	6/18/2013	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
SG19	5	6/18/2013	<0.48	<10	<50	ND	<0.0047	<0.0047	<0.0047	<0.0047
SG19	10	6/18/2013	<0.49	<10	<50	ND	<0.0047	<0.0047	<0.0047	<0.0047
SG19	15	6/18/2013	<0.51	<10	<50	ND	<0.0047	<0.0047	<0.0047	<0.0047
SG20	3	6/18/2013	**40**	**21,000**	**39,000**	**60,040**	<2.5	<2.5	**15**	<2.5
SG20	5	6/18/2013	**74**	**310**	**570**	**954**	<0.25	<0.25	<0.25	<0.25
SG20	10	6/18/2013	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
SG20	15	6/18/2013	<0.50	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
SG21	5	6/18/2013	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
SG21	10	6/18/2013	<0.51	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
SG21	15	6/18/2013	<0.48	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
SG22	5	6/18/2013	**1,100**	**1,900**	**3,600**	**6,600**	<0.59	<0.59	<0.59	<0.59
SG22	10	6/18/2013	**2,300**	**550**	**620**	**3,470**	<2.5	<2.5	<2.5	**10**
SG22	15	6/18/2013	**2,200**	**790**	**360**	**3,350**	<0.60	<0.60	**1.2**	**8.4**
SG23	5	6/19/2013	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
SG23	10	6/19/2013	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
SG23	15	6/19/2013	<0.49	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
SBFPD Investigation Levels						**100**	**0.1**	**15**	**70**	**175**

Notes:

All results in milligrams per kilogram (mg/kg)

<10: Concentration less than the associated laboratory Reporting Limit (RL).

J: Estimated concentration detected between the Method Detection Limit and the Reporting Limit.

B: Detected in associated method blank.

ND: Not Detected.

Table 1
Soil Analytical Results - Total Petroleum Hydrocarbons and BTEX
Former Orcutt Refinery
1550 West Stowell Road
Santa Maria, California

Sample Location	Depth	Date	TPHg (C4-C12)	TPHd (C13-C22)	TPHo (C23-C40)	Total TPH (C4-C40)	Benzene	Toluene	Ethylbenzene	Total Xylenes

Bold: Concentration > SBFPPD Investigation Level

EPA Method 8260B/LUFT

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane
B2	90	11/19/2003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.094	<0.005	<0.005	<0.005	<0.005
B3	90	11/19/2003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SB1	20	9/9/2003	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	0.96	<0.100	<0.100	<0.100	<0.100
SB2	20	9/9/2003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SB3	40	9/9/2003	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.62	<0.010	<0.010	<0.010	<0.010
SB4	40	9/9/2003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.08	<0.005	<0.005	<0.005	<0.005
SB5	20	9/10/2003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SB8	70	9/10/2003	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	5	<0.1	<0.1	<0.1	<0.1
SB12	10	9/11/2003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SB13	10	7/27/2004	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.51	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
SB14	10	9/11/2004	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.78	<0.1	1.5	<0.1	<0.1	<0.1	<0.1
SB15	10	9/12/2003	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.44	<0.010	0.27	<0.010	<0.010	<0.010	<0.010
SB17	40	9/12/2003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.068	<0.005	<0.005	<0.005	<0.005
SB20	30	9/17/2003	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	3.3	<0.05	<0.05	<0.05	<0.05
SB20	60	9/17/2003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.045	<0.005	<0.005	<0.005	<0.005
SB20	87	9/17/2003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.07	<0.005	<0.005	<0.005	<0.005
SB21	30	9/17/2003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SB25	20	9/18/2003	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	2.5	<0.1	<0.1	<0.1	<0.1
SB32	5	9/19/2003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SB35	10	7/26/2004	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	8.8	<2	<2	<2	<2
SB37	33	7/26/2004	<2	<2	<2	<2	<2	<2	<2	<4	<2	<4	12	<4	<2	<2	<2
SB45	15	7/27/2004	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.04	<0.02	<0.04	<0.02	<0.04	<0.02	<0.02	<0.02
SB50	13	7/27/2004	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	0.013	<0.01	<0.005	<0.005	<0.005
SB53	8	7/27/2004	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	9.7	<1	<1	<1	<1
AOCI-TP1	2	1/28/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
AOCI-TP1	4	1/28/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
AOCI-TP1	15	1/28/2008	<0.62	<0.62	<0.62	<0.62	<0.62	<0.62	<0.62	<0.62	<0.62	<0.62	22	<0.62	<0.62	<0.62	<0.62
AOCI-TP2	2	1/29/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
AOCI-TP2	8	1/29/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
AOCI-TP2	11	1/29/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.026	<0.0050	<0.0050	<0.0050	<0.0050
AOCI-TP3	5	1/29/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone	2-Chloroethylvinyl ether	2-Chlorotoluene	4-Chlorotoluene	4-Isopropyl Toluene	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane
B2	90	11/19/2003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
B3	90	11/19/2003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SB1	20	9/9/2003	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	-	<0.100	<0.100	<0.100	<0.100	**2.2**	<0.100	<0.100	<0.100
SB2	20	9/9/2003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SB3	40	9/9/2003	<0.010	0.07	<0.010	<0.010	<0.010	<0.010	-	<0.010	<0.010	<0.010	0.18	<0.010	<0.010	<0.010	<0.010
SB4	40	9/9/2003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SB5	20	9/10/2003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SB8	70	9/10/2003	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	1.7	<0.1	2.9	<0.1	<0.1	<0.1	<0.1
SB12	10	9/11/2003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SB13	10	7/27/2004	<0.05	0.27	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	0.19	**0.68**	<0.05	<0.05	<0.05
SB14	10	9/11/2004	<0.1	0.79	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	0.22	**2.7**	<0.1	<0.1	<0.1
SB15	10	9/12/2003	<0.010	0.05	<0.010	<0.010	<0.010	<0.010	-	<0.010	0.03	0.03	0.19	**0.33**	<0.010	<0.010	<0.010
SB17	40	9/12/2003	<0.005	0.02	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	0.014	<0.005	<0.005	<0.005	<0.005
SB20	30	9/17/2003	<0.05	1.6	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	0.88	<0.05	<0.05	<0.05	<0.05
SB20	60	9/17/2003	<0.005	0.022	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	0.013	<0.005	<0.005	<0.005	<0.005
SB20	87	9/17/2003	<0.005	0.01	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	0.015	<0.005	<0.005	<0.005	<0.005
SB21	30	9/17/2003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SB25	20	9/18/2003	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	**1.3**	<0.1	<0.1	<0.1
SB32	5	9/19/2003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SB35	10	7/26/2004	<2	2.6	<2	<2	<2	<2	-	<2	<2	<2	<2	**3.4**	<2	<2	<2
SB37	33	7/26/2004	<2	<2	<2	<2	<2	<2	-	<4	<2	<2	2.1	<2	<2	<2	<2
SB45	15	7/27/2004	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	-	<0.04	<0.02	<0.02	<0.02	**0.25**	<0.02	<0.02	<0.02
SB50	13	7/27/2004	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.01	<0.005	<0.005	<0.005	0.021	<0.005	<0.005	<0.005
SB53	8	7/27/2004	<1	6.2	<1	<1	<1	<1	-	<1	<1	<1	1.9	**7.1**	<1	<1	<1
AOCI-TP1	2	1/28/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
AOCI-TP1	4	1/28/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
AOCI-TP1	15	1/28/2008	<0.62	6	<0.62	<0.62	<0.62	<0.62	-	<0.62	<0.62	<0.62	5.3	**9.5**	<0.62	<0.62	<0.62
AOCI-TP2	2	1/29/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
AOCI-TP2	8	1/29/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
AOCI-TP2	11	1/29/2008	<0.0050	0.015	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
AOCI-TP3	5	1/29/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	Bromoform	Bromomethane	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Dichlorotrifluoroethane	Diisopropyl Ether	Ethyl t-Butyl Ether
B2	90	11/19/2003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
B3	90	11/19/2003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
SB1	20	9/9/2003	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	-	-
SB2	20	9/9/2003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
SB3	40	9/9/2003	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	-	-
SB4	40	9/9/2003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
SB5	20	9/10/2003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
SB8	70	9/10/2003	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-
SB12	10	9/11/2003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		
SB13	10	7/27/2004	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		
SB14	10	9/11/2004	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
SB15	10	9/12/2003	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	-	-
SB17	40	9/12/2003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
SB20	30	9/17/2003	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	-
SB20	60	9/17/2003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
SB20	87	9/17/2003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
SB21	30	9/17/2003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
SB25	20	9/18/2003	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-
SB32	5	9/19/2003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
SB35	10	7/26/2004	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2		
SB37	33	7/26/2004	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	-	-
SB45	15	7/27/2004	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	-	-
SB50	13	7/27/2004	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
SB53	8	7/27/2004	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
AOCI-TP1	2	1/28/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	-
AOCI-TP1	4	1/28/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	-
AOCI-TP1	15	1/28/2008	<0.62	<0.62	<0.62	<0.62	<0.62	<0.62	<0.62	<0.62	<0.62	<0.62	<0.62	<0.62	-	-	-
AOCI-TP2	2	1/29/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	-
AOCI-TP2	8	1/29/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	-
AOCI-TP2	11	1/29/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	-
AOCI-TP3	5	1/29/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	-

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene	Methylene Chloride	Methyl-t-butyl ether	Naphthalene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Styrene	t-Amyl Methyl Ether	t-Butyl alcohol	tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene
B2	90	11/19/2003	<0.005	<0.005	0.013	<0.005	-	<0.005	<0.005	0.22	<0.005	<0.005	-	-	<0.005	<0.005	<0.005
B3	90	11/19/2003	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	<0.005	<0.005	<0.005
SB1	20	9/9/2003	3.5	<0.100	0.32	<0.100	-	<0.100	<0.100	0.39	<0.100	0.8	-	-	<0.100	<0.100	4
SB2	20	9/9/2003	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	<0.005	<0.005	<0.005
SB3	40	9/9/2003	0.07	<0.010	0.14	<0.010	-	0.04	0.13	0.25	<0.010	<0.010	-	-	<0.010	<0.010	<0.010
SB4	40	9/9/2003	0.03	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	<0.005	<0.005	<0.005
SB5	20	9/10/2003	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	<0.005	<0.005	<0.005
SB8	70	9/10/2003	0.1	<0.1	0.51	<0.1	-	1.4	3.4	1.5	2	<0.1	-	-	<0.1	<0.1	<0.1
SB12	10	9/11/2003	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	-	-	<0.005	<0.005	<0.005
SB13	10	7/27/2004	0.35	<0.05	<0.05	<0.05		<0.05	0.11	0.11	<0.05	0.12	-	-	<0.05	<0.05	0.17
SB14	10	9/11/2004	2.1	<0.1	0.42	<0.1		0.56	<0.1	0.13	<0.1	<0.1	-	-	<0.1	<0.1	3.7
SB15	10	9/12/2003	0.76	<0.010	0.22	<0.010	-	<0.010	0.16	0.29	0.17	<0.010	-	-	<0.010	<0.010	0.07
SB17	40	9/12/2003	0.012	<0.005	<0.005	<0.005	-	0.03	0.016	0.016	0.012	<0.005	-	-	<0.005	<0.005	<0.005
SB20	30	9/17/2003	0.45	<0.05	0.23	<0.05	-	<0.05	0.33	0.51	<0.05	<0.05	-	-	<0.05	<0.05	<0.05
SB20	60	9/17/2003	0.01	<0.005	<0.005	<0.005	-	<0.005	<0.005	0.007	<0.005	<0.005	-	-	<0.005	<0.005	0.014
SB20	87	9/17/2003	0.014	<0.005	0.006	<0.005	-	<0.005	0.005	0.015	<0.005	<0.005	-	-	<0.005	<0.005	<0.005
SB21	30	9/17/2003	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	<0.005	<0.005	<0.005
SB25	20	9/18/2003	2	<0.1	0.2	<0.1	-	<0.1	<0.1	2.4	<0.1	<0.1	-	-	<0.1	<0.1	3.4
SB32	5	9/19/2003	0.011	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	<0.005	<0.005	0.013
SB35	10	7/26/2004	5.2	<2	<2	<2		**8.7**	<2	<2	<2	<2	-	-	<2	<2	<2
SB37	33	7/26/2004	<2	<2	<2	<2	-	<2	<2	<2	2	<2	-	-	<2	<2	<2
SB45	15	7/27/2004	0.19	<0.02	0.027	<0.02	-	<0.02	<0.02	0.041	<0.02	<0.02	-	-	<0.02	<0.02	<0.02
SB50	13	7/27/2004	0.015	<0.005	<0.005	<0.005	-	1.5	<0.005	<0.005	<0.005	<0.005	-	-	<0.005	<0.005	0.011
SB53	8	7/27/2004	10	<1	<1	<1		**6.5**	<1	3.2	<1	<1	-	-	<1	<1	**21**
AOCI-TP1	2	1/28/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	<0.0050	<0.0050	<0.0050
AOCI-TP1	4	1/28/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	<0.0050	<0.0050	<0.0050
AOCI-TP1	15	1/28/2008	32	<0.62	7.7	<0.62	-	**6.3**	7.6	16	6.3	<0.62	-	-	<0.62	<0.62	**37**
AOCI-TP2	2	1/29/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	<0.0050	<0.0050	<0.0050
AOCI-TP2	8	1/29/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	<0.0050	<0.0050	<0.0050
AOCI-TP2	11	1/29/2008	0.0055	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050	0.0074	<0.0050	<0.0050	-	-	<0.0050	<0.0050	<0.0050
AOCI-TP3	5	1/29/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Trichlorotrifluoroethane	Vinyl Chloride	Xylenes (total)
B2	90	11/19/2003	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005
B3	90	11/19/2003	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005
SB1	20	9/9/2003	<0.100	<0.100	<0.100	<0.100	-	<0.100	6.8
SB2	20	9/9/2003	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005
SB3	40	9/9/2003	<0.010	<0.010	<0.010	<0.010	-	<0.010	0.16
SB4	40	9/9/2003	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005
SB5	20	9/10/2003	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005
SB8	70	9/10/2003	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1
SB12	10	9/11/2003	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005
SB13	10	7/27/2004	<0.05	<0.05	<0.05	<0.05		<0.05	0.68
SB14	10	9/11/2004	<0.1	<0.1	<0.1	<0.1		<0.1	4.4
SB15	10	9/12/2003	<0.010	<0.010	<0.010	<0.010	-	<0.010	0.27
SB17	40	9/12/2003	<0.005	<0.005	<0.005	<0.005	-	<0.005	0.03
SB20	30	9/17/2003	<0.05	<0.05	<0.05	<0.05	-	<0.05	1.4
SB20	60	9/17/2003	<0.005	<0.005	<0.005	<0.005	-	<0.005	0.023
SB20	87	9/17/2003	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005
SB21	30	9/17/2003	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005
SB25	20	9/18/2003	<0.1	<0.1	<0.1	<0.1	-	<0.1	8
SB32	5	9/19/2003	<0.005	<0.005	<0.005	<0.005	-	<0.005	0.013
SB35	10	7/26/2004	<2	<2	<2	<2		<2	8
SB37	33	7/26/2004	<2	<2	<2	<2	-	<2	2.5
SB45	15	7/27/2004	<0.02	<0.02	<0.02	<0.02	-	<0.02	0.14
SB50	13	7/27/2004	<0.005	<0.005	<0.005	<0.005	-	<0.005	0.035
SB53	8	7/27/2004	<1	<1	<1	<1		<1	18
AOCI-TP1	2	1/28/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
AOCI-TP1	4	1/28/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
AOCI-TP1	15	1/28/2008	<0.62	<0.62	<0.62	<0.62	<0.62	<0.62	63
AOCI-TP2	2	1/29/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
AOCI-TP2	8	1/29/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
AOCI-TP2	11	1/29/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.013
AOCI-TP3	5	1/29/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane
AOCI-TP3	10	1/29/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
AOCI-TP3	12	1/29/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.019	<0.0050	<0.0050	<0.0050	<0.0050
AOCI-TP5	2	1/30/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
AOCI-TP5	10	1/30/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
AOCI-TP5	15	1/30/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
AOCI-TP5	17	1/30/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
AOCI-TP6	10	1/30/2008	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.36	<0.025	<0.025	<0.025	<0.025
AOCI-TP6	14	1/30/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
AOCI-TP6	18	1/30/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.034	<0.0050	<0.0050	<0.0050	<0.0050
AOCI-TP7	10	1/30/2008	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	2.2	<0.025	<0.025	<0.025	<0.025
AOCI-TP8	8	1/30/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
AOCI-TP8	12	1/30/2008	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.4	<0.025	<0.025	<0.025	<0.025
AOCI-TP9	4	1/31/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
AOCI-TP9	14	1/31/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
AOCI-TP9	15	1/31/2008	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.066	<0.025	<0.025	<0.025	<0.025
AOCI-TP10	10	1/31/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
AOCI-TP10	19	1/31/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
MW8	110	7/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
MW8	110.5	7/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
MW8	111	7/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
MW8	111.5	7/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP17	3	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP17	10	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP17	15	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP17	20	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP17	25	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP18	5	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP18	10	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP18	15	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP19	5	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP19	10	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone	2-Chloroethylvinyl ether	2-Chlorotoluene	4-Chlorotoluene	4-Isopropyl Toluene	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane
AOCI-TP3	10	1/29/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
AOCI-TP3	12	1/29/2008	<0.0050	0.011	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050	<0.0050	<0.0050	0.02	<0.0050	<0.0050	<0.0050
AOCI-TP5	2	1/30/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
AOCI-TP5	10	1/30/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050	<0.0050	<0.0050	0.025	<0.0050	<0.0050	<0.0050
AOCI-TP5	15	1/30/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
AOCI-TP5	17	1/30/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
AOCI-TP6	10	1/30/2008	<0.025	0.1	<0.025	<0.025	<0.025	<0.025	-	<0.025	<0.025	<0.025	0.036	**0.27**	<0.025	<0.025	<0.025
AOCI-TP6	14	1/30/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
AOCI-TP6	18	1/30/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050	<0.0050	0.006	<0.0050	<0.0050	<0.0050	<0.0050
AOCI-TP7	10	1/30/2008	<0.025	0.81	<0.025	<0.025	<0.025	<0.025	-	<0.025	<0.025	<0.025	0.25	**1.4**	<0.025	<0.025	<0.025
AOCI-TP8	8	1/30/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
AOCI-TP8	12	1/30/2008	<0.025	0.096	<0.025	<0.025	<0.025	<0.025	-	<0.025	<0.025	<0.025	0.096	**0.34**	<0.025	<0.025	<0.025
AOCI-TP9	4	1/31/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
AOCI-TP9	14	1/31/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
AOCI-TP9	15	1/31/2008	<0.025	0.048	<0.025	<0.025	<0.025	<0.025	-	<0.025	<0.025	<0.025	<0.025	0.027	<0.025	<0.025	<0.025
AOCI-TP10	10	1/31/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
AOCI-TP10	19	1/31/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
MW8	110	7/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
MW8	110.5	7/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
MW8	111	7/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
MW8	111.5	7/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP17	3	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP17	10	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP17	15	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP17	20	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP17	25	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP18	5	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP18	10	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP18	15	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP19	5	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	0.0012J	<0.0050	<0.0050	<0.0050
QA-SB/TP19	10	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	Bromoform	Bromomethane	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Dichlorotrifluoroethane	Diisopropyl Ether	Ethyl t-Butyl Ether
AOCI-TP3	10	1/29/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	-
AOCI-TP3	12	1/29/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	-
AOCI-TP5	2	1/30/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	-
AOCI-TP5	10	1/30/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	-
AOCI-TP5	15	1/30/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	-
AOCI-TP5	17	1/30/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	-
AOCI-TP6	10	1/30/2008	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	-	-	-
AOCI-TP6	14	1/30/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	-
AOCI-TP6	18	1/30/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	-
AOCI-TP7	10	1/30/2008	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	-	-	-
AOCI-TP8	8	1/30/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	-
AOCI-TP8	12	1/30/2008	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	-	-	-
AOCI-TP9	4	1/31/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	-
AOCI-TP9	14	1/31/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	-
AOCI-TP9	15	1/31/2008	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	-	-	-
AOCI-TP10	10	1/31/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	-
AOCI-TP10	19	1/31/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	-
MW8	110	7/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	-
MW8	110.5	7/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	-
MW8	111	7/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	-
MW8	111.5	7/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	-
QA-SB/TP17	3	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP17	10	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP17	15	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP17	20	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP17	25	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP18	5	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP18	10	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP18	15	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP19	5	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP19	10	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene	Methylene Chloride	Methyl-t-butyl ether	Naphthalene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Styrene	t-Amyl Methyl Ether	t-Butyl alcohol	tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene
AOCI-TP3	10	1/29/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	<0.0050	<0.0050	<0.0050
AOCI-TP3	12	1/29/2008	0.021	<0.0050	<0.0050	<0.0050	-	0.022	<0.0050	0.0058	0.014	<0.0050	-	-	<0.0050	<0.0050	<0.0050
AOCI-TP5	2	1/30/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	<0.0050	<0.0050	<0.0050
AOCI-TP5	10	1/30/2008	0.039	<0.0050	0.0084	<0.0050	-	0.052	0.0059	0.015	<0.0050	<0.0050	-	-	<0.0050	<0.0050	<0.0050
AOCI-TP5	15	1/30/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	<0.0050	<0.0050	<0.0050
AOCI-TP5	17	1/30/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	<0.0050	<0.0050	<0.0050
AOCI-TP6	10	1/30/2008	0.28	<0.025	0.044	<0.025	-	0.25	0.029	0.08	0.26	<0.025	-	-	<0.025	<0.025	0.62
AOCI-TP6	14	1/30/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	<0.0050	<0.0050	<0.0050
AOCI-TP6	18	1/30/2008	0.026	<0.0050	0.0083	<0.0050	-	0.021	0.0052	0.017	0.0069	<0.0050	-	-	<0.0050	<0.0050	<0.0050
AOCI-TP7	10	1/30/2008	1.5	<0.025	0.24	<0.025	-	0.48	0.14	0.61	0.16	<0.025	-	-	<0.025	<0.025	1.7
AOCI-TP8	8	1/30/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	<0.0050	<0.0050	<0.0050
AOCI-TP8	12	1/30/2008	0.46	<0.025	0.1	<0.025	-	0.17	0.062	0.17	0.069	<0.025	-	-	<0.025	<0.025	0.14
AOCI-TP9	4	1/31/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	0.0069	<0.0050	<0.0050	<0.0050	<0.0050	-	-	<0.0050	<0.0050	<0.0050
AOCI-TP9	14	1/31/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	<0.0050	<0.0050	<0.0050
AOCI-TP9	15	1/31/2008	0.065	<0.025	<0.025	<0.025	-	<0.025	<0.025	<0.025	<0.025	<0.025	-	-	<0.025	<0.025	<0.025
AOCI-TP10	10	1/31/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	<0.0050	<0.0050	<0.0050
AOCI-TP10	19	1/31/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	<0.0050	<0.0050	<0.0050
MW8	110	7/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	<0.0050	<0.0050	<0.0050
MW8	110.5	7/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	<0.0050	<0.0050	<0.0050
MW8	111	7/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	<0.0050	<0.0050	<0.0050
MW8	111.5	7/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	<0.0050	<0.0050	<0.0050
QA-SB/TP17	3	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP17	10	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP17	15	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP17	20	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP17	25	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP18	5	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP18	10	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP18	15	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP19	5	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP19	10	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Trichlorotrifluoroethane	Vinyl Chloride	Xylenes (total)
AOCI-TP3	10	1/29/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
AOCI-TP3	12	1/29/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.03
AOCI-TP5	2	1/30/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
AOCI-TP5	10	1/30/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
AOCI-TP5	15	1/30/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
AOCI-TP5	17	1/30/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
AOCI-TP6	10	1/30/2008	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	1
AOCI-TP6	14	1/30/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
AOCI-TP6	18	1/30/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.017
AOCI-TP7	10	1/30/2008	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	4.5
AOCI-TP8	8	1/30/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
AOCI-TP8	12	1/30/2008	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.45
AOCI-TP9	4	1/31/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
AOCI-TP9	14	1/31/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
AOCI-TP9	15	1/31/2008	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.087
AOCI-TP10	10	1/31/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
AOCI-TP10	19	1/31/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
MW8	110	7/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
MW8	110.5	7/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
MW8	111	7/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
MW8	111.5	7/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP17	3	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP17	10	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP17	15	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP17	20	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP17	25	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP18	5	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP18	10	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP18	15	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP19	5	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP19	10	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane
QA-SB/TP19	15	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP20	5	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP20	10	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP20	15	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP21	5	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP21	10	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP21	15	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP22	5	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP22	10	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP22	15	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP22	20	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP22	25	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP24	2	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP24	5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP24	10	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP24	15	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP24	20	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP24	25	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP25	5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP26	2	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP26	5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP26	10	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP26	15	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP26	20	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP26	25	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP27	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP27	10	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP27	15	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP27	20	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP27	25	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP28	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone	2-Chloroethylvinyl ether	2-Chlorotoluene	4-Chlorotoluene	4-Isopropyl Toluene	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane
QA-SB/TP19	15	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP20	5	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	0.0012J	<0.0050	<0.0050	<0.0050
QA-SB/TP20	10	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP20	15	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP21	5	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	0.0011J	<0.0050	<0.0050	<0.0050
QA-SB/TP21	10	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP21	15	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP22	5	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP22	10	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP22	15	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP22	20	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP22	25	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP24	2	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP24	5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP24	10	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP24	15	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP24	20	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP24	25	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP25	5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP26	2	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP26	5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP26	10	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP26	15	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP26	20	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP26	25	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP27	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP27	10	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP27	15	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP27	20	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP27	25	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP28	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	Bromoform	Bromomethane	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Dichlorotrifluoroethane	Diisopropyl Ether	Ethyl t-Butyl Ether
QA-SB/TP19	15	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP20	5	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP20	10	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP20	15	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP21	5	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP21	10	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP21	15	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP22	5	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP22	10	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP22	15	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP22	20	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP22	25	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP24	2	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP24	5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP24	10	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP24	15	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP24	20	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP24	25	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP25	5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP26	2	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP26	5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP26	10	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP26	15	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP26	20	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP26	25	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP27	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP27	10	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP27	15	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP27	20	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP27	25	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP28	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene	Methylene Chloride	Methyl-t-butyl ether	Naphthalene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Styrene	t-Amyl Methyl Ether	t-Butyl alcohol	tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene
QA-SB/TP19	15	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP20	5	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP20	10	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP20	15	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP21	5	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP21	10	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP21	15	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP22	5	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP22	10	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP22	15	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP22	20	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP22	25	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP24	2	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP24	5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP24	10	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP24	15	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP24	20	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP24	25	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP25	5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP26	2	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP26	5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP26	10	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP26	15	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP26	20	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP26	25	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP27	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP27	10	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP27	15	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP27	20	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP27	25	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP28	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Trichlorotrifluoroethane	Vinyl Chloride	Xylenes (total)
QA-SB/TP19	15	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP20	5	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP20	10	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP20	15	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP21	5	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP21	10	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP21	15	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP22	5	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP22	10	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP22	15	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP22	20	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP22	25	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP24	2	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP24	5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP24	10	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP24	15	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP24	20	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP24	25	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP25	5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP26	2	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP26	5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP26	10	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP26	15	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP26	20	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP26	25	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP27	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP27	10	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP27	15	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP27	20	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP27	25	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP28	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane
QA-SB/TP28	10	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP28	15	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP28	20	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP29	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP29	10	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP29	15	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP30	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP30	10	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP30	15	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP30	20	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP31	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP31	10	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP31	15	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP31	20	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP31	25	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP32	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0022J	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP32	10	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP32	15	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP32	20	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP33	1.5	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP33	5	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP33	10	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP33	15	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP33	20	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP33	25	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP34	1.5	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP34	5	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP34	10	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP34	15	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP34	20	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP34	25	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone	2-Chloroethylvinyl ether	2-Chlorotoluene	4-Chlorotoluene	4-Isopropyl Toluene	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane
QA-SB/TP28	10	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP28	15	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP28	20	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP29	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP29	10	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP29	15	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP30	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP30	10	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP30	15	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP30	20	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP31	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP31	10	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP31	15	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP31	20	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP31	25	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP32	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP32	10	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP32	15	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP32	20	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP33	1.5	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	0.1	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP33	5	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP33	10	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP33	15	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP33	20	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP33	25	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP34	1.5	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	0.1	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP34	5	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP34	10	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP34	15	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP34	20	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP34	25	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	Bromoform	Bromomethane	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Dichlorotrifluoroethane	Diisopropyl Ether	Ethyl t-Butyl Ether
QA-SB/TP28	10	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP28	15	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP28	20	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP29	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP29	10	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP29	15	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP30	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP30	10	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP30	15	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP30	20	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP31	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP31	10	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP31	15	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP31	20	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP31	25	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP32	5	11/17/2008	<0.0050	<0.0050	<0.0050	0.0042J	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP32	10	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP32	15	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP32	20	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP33	1.5	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP33	5	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP33	10	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP33	15	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP33	20	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP33	25	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP34	1.5	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP34	5	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP34	10	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP34	15	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP34	20	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP34	25	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene	Methylene Chloride	Methyl-t-butyl ether	Naphthalene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Styrene	t-Amyl Methyl Ether	t-Butyl alcohol	tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene
QA-SB/TP28	10	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP28	15	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP28	20	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP29	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP29	10	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP29	15	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP30	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP30	10	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP30	15	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP30	20	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP31	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP31	10	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP31	15	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP31	20	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP31	25	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP32	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	0.0036J
QA-SB/TP32	10	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP32	15	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP32	20	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP33	1.5	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0051	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP33	5	11/20/2008	<0.0050	<0.0050	<0.0050	0.0026J	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP33	10	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP33	15	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP33	20	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP33	25	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP34	1.5	11/20/2008	<0.0050	<0.0050	<0.0050	0.0044J	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP34	5	11/20/2008	<0.0050	<0.0050	<0.0050	0.0039J	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP34	10	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP34	15	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP34	20	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP34	25	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Trichlorotrifluoroethane	Vinyl Chloride	Xylenes (total)
QA-SB/TP28	10	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP28	15	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP28	20	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP29	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP29	10	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP29	15	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP30	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP30	10	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP30	15	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP30	20	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP31	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP31	10	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP31	15	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP31	20	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP31	25	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP32	5	11/17/2008	<0.0050	<0.0050	0.0030J	<0.0050	-	<0.0050	<0.0050
QA-SB/TP32	10	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP32	15	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP32	20	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP33	1.5	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP33	5	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP33	10	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP33	15	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP33	20	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP33	25	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP34	1.5	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP34	5	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP34	10	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP34	15	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP34	20	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP34	25	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane
QA-SB/TP35	5	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP35	10	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP35	15	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP35	20	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP35	25	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP36	4	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP36	5	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP36	10	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP36	15	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP38	2	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.067	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP38	5	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP38	10	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP38	15	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP39	5	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP39	10	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP39	15	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP40	5	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP40	10	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP40	15	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP41	5	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP41	10	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP41	15	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP42	5	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP42	10	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP42	15	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP43	5	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP43	10	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP43	15	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP44	5	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP44	10	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP44	15	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone	2-Chloroethylvinyl ether	2-Chlorotoluene	4-Chlorotoluene	4-Isopropyl Toluene	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane
QA-SB/TP35	5	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP35	10	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP35	15	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP35	20	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP35	25	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP36	4	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP36	5	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP36	10	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP36	15	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP38	2	12/2/2008	<0.0050	0.077	<0.0050	<0.0050	<0.0050	<0.0050	0.48	<0.0050	<0.0050	<0.0050	<0.0050	0.044	<0.0050	<0.0050	<0.0050
QA-SB/TP38	5	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP38	10	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP38	15	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP39	5	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP39	10	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP39	15	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP40	5	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP40	10	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP40	15	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP41	5	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP41	10	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP41	15	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP42	5	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP42	10	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP42	15	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP43	5	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	0.0011J	<0.0050	<0.0050	<0.0050
QA-SB/TP43	10	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP43	15	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP44	5	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP44	10	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP44	15	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	Bromoform	Bromomethane	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Dichlorotrifluoroethane	Diisopropyl Ether	Ethyl t-Butyl Ether
QA-SB/TP35	5	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP35	10	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP35	15	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP35	20	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP35	25	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP36	4	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP36	5	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP36	10	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP36	15	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP38	2	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP38	5	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP38	10	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP38	15	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP39	5	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP39	10	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP39	15	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP40	5	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP40	10	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP40	15	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP41	5	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP41	10	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP41	15	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP42	5	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP42	10	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP42	15	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP43	5	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP43	10	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP43	15	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP44	5	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP44	10	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP44	15	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene	Methylene Chloride	Methyl-t-butyl ether	Naphthalene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Styrene	t-Amyl Methyl Ether	t-Butyl alcohol	tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene
QA-SB/TP35	5	11/20/2008	<0.0050	<0.0050	<0.0050	0.0032J	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP35	10	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP35	15	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP35	20	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP35	25	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP36	4	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP36	5	11/20/2008	<0.0050	<0.0050	<0.0050	0.0046J	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP36	10	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP36	15	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP38	2	12/2/2008	0.025	<0.0050	0.0037J	0.0057	<0.0050	0.06	<0.0050	0.061	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	0.035
QA-SB/TP38	5	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP38	10	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP38	15	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP39	5	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP39	10	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP39	15	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP40	5	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP40	10	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP40	15	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP41	5	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP41	10	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP41	15	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP42	5	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP42	10	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP42	15	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP43	5	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP43	10	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP43	15	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP44	5	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP44	10	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP44	15	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Trichlorotrifluoroethane	Vinyl Chloride	Xylenes (total)
QA-SB/TP35	5	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP35	10	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP35	15	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP35	20	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP35	25	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP36	4	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP36	5	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP36	10	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP36	15	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP38	2	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	0.093
QA-SB/TP38	5	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP38	10	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP38	15	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP39	5	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP39	10	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP39	15	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP40	5	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP40	10	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP40	15	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP41	5	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP41	10	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP41	15	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP42	5	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP42	10	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP42	15	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP43	5	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP43	10	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP43	15	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP44	5	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP44	10	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP44	15	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane
QA-SB/TP45	5	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP45	10	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP45	15	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB1	2	11/17/2008	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	3.3	<0.25	<0.25	<0.25	<0.25
QA-SB1	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB1	10	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB1	15	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB1	20	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB1	25	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB2	3.5	11/17/2008	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	13	<0.25	<0.25	<0.25	<0.25
QA-SB2	10	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB2	15	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB2	20	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB2	25	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB2	30	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB3	5	11/17/2008	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	7.6	<0.12	<0.12	<0.12	<0.12
QA-SB3	10	11/17/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	10	<0.50	<0.50	<0.50	<0.50
QA-SB3	15	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB3	20	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB3	25	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB3	30	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB4	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB4	10	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB4	15	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB4	20	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB5	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB5	10	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB5	15	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB5	20	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB6	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB6	10	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone	2-Chloroethylvinyl ether	2-Chlorotoluene	4-Chlorotoluene	4-Isopropyl Toluene	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane
QA-SB/TP45	5	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP45	10	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB/TP45	15	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB1	2	11/17/2008	<0.25	0.94	<0.25	<0.25	<0.25	<0.25	<5.0	<0.25	<0.25	<0.25	1.1	<0.25	<0.25	<0.25	<0.25
QA-SB1	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB1	10	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB1	15	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB1	20	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB1	25	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB2	3.5	11/17/2008	<0.25	3.6	<0.25	<0.25	<0.25	<0.25	<5.0	<0.25	<0.25	<0.25	3.2	**0.42**	<0.25	<0.25	<0.25
QA-SB2	10	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB2	15	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB2	20	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB2	25	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB2	30	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB3	5	11/17/2008	<0.12	0.96	<0.12	<0.12	<0.12	<0.12	<2.5	<0.12	<0.12	<0.12	2.3	**0.16**	<0.12	<0.12	<0.12
QA-SB3	10	11/17/2008	<0.50	2.5	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	2.5	<0.50	<0.50	<0.50	<0.50
QA-SB3	15	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB3	20	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB3	25	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB3	30	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB4	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB4	10	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB4	15	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB4	20	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB5	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB5	10	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB5	15	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB5	20	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB6	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB6	10	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	Bromoform	Bromomethane	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Dichlorotrifluoroethane	Diisopropyl Ether	Ethyl t-Butyl Ether
QA-SB/TP45	5	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP45	10	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP45	15	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB1	2	11/17/2008	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	-	<0.25	<0.25
QA-SB1	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB1	10	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB1	15	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB1	20	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB1	25	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB2	3.5	11/17/2008	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	-	<0.25	<0.25
QA-SB2	10	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB2	15	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB2	20	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB2	25	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB2	30	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB3	5	11/17/2008	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	-	<0.12	<0.12
QA-SB3	10	11/17/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.50
QA-SB3	15	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB3	20	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB3	25	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB3	30	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB4	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB4	10	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB4	15	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB4	20	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB5	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB5	10	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB5	15	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB5	20	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB6	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB6	10	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene	Methylene Chloride	Methyl-t-butyl ether	Naphthalene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Styrene	t-Amyl Methyl Ether	t-Butyl alcohol	tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene
QA-SB/TP45	5	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP45	10	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB/TP45	15	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB1	2	11/17/2008	0.95	<0.25	0.52	<0.25	<0.25	**2.5**	<0.25	0.87	0.63	<0.25	<0.25	<1.2	<0.25	<0.25	0.12J
QA-SB1	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB1	10	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB1	15	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB1	20	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB1	25	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB2	3.5	11/17/2008	4.8	<0.25	1.9	<0.25	<0.25	**7.6**	<0.25	3.7	2.1	<0.25	<0.25	<1.2	<0.25	<0.25	0.38
QA-SB2	10	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB2	15	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB2	20	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB2	25	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB2	30	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB3	5	11/17/2008	3.8	<0.12	1.9	<0.12	<0.12	**7.5B**	2.5	3.3	1.8	<0.12	<0.12	<0.62	<0.12	<0.12	0.11B, J
QA-SB3	10	11/17/2008	3.4	<0.50	2.1	<0.50	<0.50	**11B**	2.7	3.4	2.4	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50
QA-SB3	15	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB3	20	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB3	25	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0044J	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB3	30	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0025J	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB4	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB4	10	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB4	15	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB4	20	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB5	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB5	10	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB5	15	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB5	20	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0020J	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB6	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB6	10	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Trichlorotrifluoroethane	Vinyl Chloride	Xylenes (total)
QA-SB/TP45	5	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP45	10	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB/TP45	15	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB1	2	11/17/2008	<0.25	<0.25	<0.25	<0.25	-	<0.25	1.8
QA-SB1	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB1	10	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB1	15	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB1	20	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB1	25	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB2	3.5	11/17/2008	<0.25	<0.25	<0.25	<0.25	-	<0.25	5.4
QA-SB2	10	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB2	15	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB2	20	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB2	25	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB2	30	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB3	5	11/17/2008	<0.12	<0.12	<0.12	<0.12	-	<0.12	1.6B
QA-SB3	10	11/17/2008	<0.50	<0.50	<0.50	<0.50	-	<0.50	2.4B
QA-SB3	15	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB3	20	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB3	25	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB3	30	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB4	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB4	10	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB4	15	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB4	20	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB5	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB5	10	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB5	15	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB5	20	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB6	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB6	10	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane
QA-SB6	15	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB6	20	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB7	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB7	10	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB7	15	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB7	20	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB8	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB8	10	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB8	15	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB8	20	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB9	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB9	10	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB9	15	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB9	20	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB10	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB10	10	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB10	15	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB10	20	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB10	25	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB11	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB11	10	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB11	15	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB11	20	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB12	5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB12	8	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB12	10	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB12	15	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB12	20	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB12	25	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB12	30	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB13	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone	2-Chloroethylvinyl ether	2-Chlorotoluene	4-Chlorotoluene	4-Isopropyl Toluene	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane
QA-SB6	15	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB6	20	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB7	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB7	10	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB7	15	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB7	20	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB8	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB8	10	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB8	15	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB8	20	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB9	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB9	10	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB9	15	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB9	20	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB10	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB10	10	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB10	15	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB10	20	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB10	25	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB11	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB11	10	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB11	15	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB11	20	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB12	5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB12	8	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB12	10	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB12	15	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB12	20	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB12	25	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB12	30	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB13	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	Bromoform	Bromomethane	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Dichlorotrifluoroethane	Diisopropyl Ether	Ethyl t-Butyl Ether
QA-SB6	15	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB6	20	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB7	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB7	10	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB7	15	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB7	20	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB8	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB8	10	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB8	15	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB8	20	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB9	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB9	10	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB9	15	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB9	20	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB10	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB10	10	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB10	15	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB10	20	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB10	25	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB11	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB11	10	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB11	15	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB11	20	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB12	5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB12	8	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB12	10	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB12	15	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB12	20	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB12	25	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB12	30	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB13	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene	Methylene Chloride	Methyl-t-butyl ether	Naphthalene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Styrene	t-Amyl Methyl Ether	t-Butyl alcohol	tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene
QA-SB6	15	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB6	20	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB7	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB7	10	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB7	15	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB7	20	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB8	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB8	10	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB8	15	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB8	20	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB9	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB9	10	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB9	15	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB9	20	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB10	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB10	10	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB10	15	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB10	20	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB10	25	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB11	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB11	10	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB11	15	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB11	20	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB12	5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB12	8	11/19/2008	<0.0050	<0.0050	<0.0050	0.0025J	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB12	10	11/19/2008	<0.0050	<0.0050	<0.0050	0.0038J	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB12	15	11/19/2008	<0.0050	<0.0050	<0.0050	0.0040J	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB12	20	11/19/2008	<0.0050	<0.0050	<0.0050	0.0026J	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB12	25	11/19/2008	<0.0050	<0.0050	<0.0050	0.0034J	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB12	30	11/19/2008	<0.0050	<0.0050	<0.0050	0.0023J	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB13	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Trichlorotrifluoroethane	Vinyl Chloride	Xylenes (total)
QA-SB6	15	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB6	20	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB7	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB7	10	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB7	15	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB7	20	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB8	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	0.0058
QA-SB8	10	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB8	15	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB8	20	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB9	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB9	10	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB9	15	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB9	20	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB10	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB10	10	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB10	15	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB10	20	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB10	25	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB11	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB11	10	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB11	15	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB11	20	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB12	5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB12	8	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB12	10	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB12	15	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB12	20	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB12	25	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB12	30	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB13	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane
QA-SB13	10	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB13	15	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB13	20	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB14	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB14	10	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB14	15	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB14	20	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB14	21	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB15	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB15	10	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB15	15	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB15	20	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB16	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB16	10	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB16	15	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB16	20	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB23	12	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB23	15	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0041J	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB23	20	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB23	25	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB23	30	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB25	5	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB25	10	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB25	15	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB29	20	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB37	5	12/1/2008	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.19	<0.025	<0.025	<0.025	<0.025
QA-SB37	10	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB37	15	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB37	20	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB37	25	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB37	30	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone	2-Chloroethylvinyl ether	2-Chlorotoluene	4-Chlorotoluene	4-Isopropyl Toluene	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane
QA-SB13	10	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB13	15	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB13	20	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB14	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB14	10	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB14	15	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB14	20	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB14	21	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB15	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB15	10	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB15	15	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB15	20	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB16	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB16	10	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB16	15	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB16	20	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB23	12	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB23	15	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB23	20	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB23	25	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB23	30	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB25	5	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB25	10	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB25	15	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB29	20	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB37	5	12/1/2008	<0.025	0.096	<0.025	<0.025	<0.025	<0.025	<0.50	<0.025	0.28	<0.025	0.1	0.041	<0.025	<0.025	<0.025
QA-SB37	10	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB37	15	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB37	20	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB37	25	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-SB37	30	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	Bromoform	Bromomethane	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Dichlorotrifluoroethane	Diisopropyl Ether	Ethyl t-Butyl Ether
QA-SB13	10	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB13	15	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB13	20	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB14	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB14	10	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB14	15	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB14	20	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB14	21	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB15	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB15	10	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB15	15	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB15	20	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB16	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB16	10	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB16	15	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB16	20	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB23	12	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB23	15	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB23	20	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB23	25	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB23	30	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB25	5	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB25	10	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB25	15	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB29	20	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB37	5	12/1/2008	<0.025	<0.025	0.067	<0.025	<0.025	0.011J	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	-	<0.025	<0.025
QA-SB37	10	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB37	15	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB37	20	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB37	25	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB37	30	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene	Methylene Chloride	Methyl-t-butyl ether	Naphthalene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Styrene	t-Amyl Methyl Ether	t-Butyl alcohol	tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene
QA-SB13	10	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB13	15	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB13	20	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB14	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB14	10	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB14	15	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB14	20	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB14	21	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB15	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB15	10	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB15	15	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB15	20	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB16	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB16	10	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB16	15	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB16	20	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB23	12	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB23	15	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB23	20	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB23	25	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB23	30	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB25	5	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB25	10	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB25	15	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB29	20	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB37	5	12/1/2008	0.36	<0.025	0.1	<0.025	<0.025	<0.025	0.094	0.15	0.066	<0.025	<0.025	<0.12	<0.025	<0.025	0.035
QA-SB37	10	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB37	15	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB37	20	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB37	25	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-SB37	30	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Trichlorotrifluoroethane	Vinyl Chloride	Xylenes (total)
QA-SB13	10	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB13	15	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB13	20	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB14	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB14	10	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB14	15	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB14	20	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB14	21	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB15	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB15	10	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB15	15	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB15	20	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB16	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB16	10	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB16	15	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB16	20	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB23	12	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB23	15	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB23	20	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB23	25	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB23	30	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB25	5	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB25	10	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB25	15	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB29	20	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB37	5	12/1/2008	<0.025	<0.025	<0.025	<0.025	-	<0.025	0.54
QA-SB37	10	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB37	15	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB37	20	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB37	25	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-SB37	30	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane
QA-TP1	3	11/11/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-TP1	8	11/11/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-TP2	2.5	11/11/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-TP2	4	11/11/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-TP2	10	11/11/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-TP3	5	11/11/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-TP4	4	11/12/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-TP4	8	11/12/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-TP5	8	11/12/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-TP6	8	11/12/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-TP7	3	11/12/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-TP7	10	11/12/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-TP8	4	11/12/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-TP8	8	11/12/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-TP8	10	11/12/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-TP9	3	11/12/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-TP9	10	11/12/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-TP10	3	11/12/2008	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	3	<0.25	<0.25	<0.25	<0.25
QA-TP10	10	11/12/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-TP11	10	11/12/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-TP12	3	11/12/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-TP12	6	11/12/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-TP12	10	11/12/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-TP13	3	11/14/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-TP13	6	11/14/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-TP13	10	11/14/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP1	2.5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP1	5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP1	10	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP1	15	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP1	20	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone	2-Chloroethylvinyl ether	2-Chlorotoluene	4-Chlorotoluene	4-Isopropyl Toluene	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane
QA-TP1	3	11/11/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-TP1	8	11/11/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-TP2	2.5	11/11/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-TP2	4	11/11/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-TP2	10	11/11/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-TP3	5	11/11/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-TP4	4	11/12/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-TP4	8	11/12/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-TP5	8	11/12/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-TP6	8	11/12/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-TP7	3	11/12/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-TP7	10	11/12/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-TP8	4	11/12/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-TP8	8	11/12/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-TP8	10	11/12/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-TP9	3	11/12/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-TP9	10	11/12/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-TP10	3	11/12/2008	<0.25	0.9	<0.25	<0.25	<0.25	<0.25	<5.0	<0.25	<0.25	<0.25	1.1	**0.16J**	<0.25	<0.25	<0.25
QA-TP10	10	11/12/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-TP11	10	11/12/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-TP12	3	11/12/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-TP12	6	11/12/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-TP12	10	11/12/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-TP13	3	11/14/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-TP13	6	11/14/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QA-TP13	10	11/14/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP1	2.5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP1	5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP1	10	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP1	15	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP1	20	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	Bromoform	Bromomethane	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Dichlorotrifluoroethane	Diisopropyl Ether	Ethyl t-Butyl Ether
QA-TP1	3	11/11/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-TP1	8	11/11/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-TP2	2.5	11/11/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-TP2	4	11/11/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-TP2	10	11/11/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-TP3	5	11/11/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-TP4	4	11/12/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-TP4	8	11/12/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-TP5	8	11/12/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-TP6	8	11/12/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-TP7	3	11/12/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-TP7	10	11/12/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-TP8	4	11/12/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-TP8	8	11/12/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-TP8	10	11/12/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-TP9	3	11/12/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-TP9	10	11/12/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-TP10	3	11/12/2008	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	-	<0.25	<0.25
QA-TP10	10	11/12/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-TP11	10	11/12/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-TP12	3	11/12/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-TP12	6	11/12/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-TP12	10	11/12/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-TP13	3	11/14/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-TP13	6	11/14/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-TP13	10	11/14/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP1	2.5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP1	5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP1	10	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP1	15	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP1	20	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene	Methylene Chloride	Methyl-t-butyl ether	Naphthalene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Styrene	t-Amyl Methyl Ether	t-Butyl alcohol	tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene
QA-TP1	3	11/11/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-TP1	8	11/11/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-TP2	2.5	11/11/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-TP2	4	11/11/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-TP2	10	11/11/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-TP3	5	11/11/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-TP4	4	11/12/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-TP4	8	11/12/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-TP5	8	11/12/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-TP6	8	11/12/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-TP7	3	11/12/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-TP7	10	11/12/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-TP8	4	11/12/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-TP8	8	11/12/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-TP8	10	11/12/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-TP9	3	11/12/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-TP9	10	11/12/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-TP10	3	11/12/2008	1.4	<0.25	0.59	<0.25	<0.25	**2.5**	1.2	<0.25	0.62	<0.25	<0.25	<1.2	<0.25	<0.25	0.18J
QA-TP10	10	11/12/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-TP11	10	11/12/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-TP12	3	11/12/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-TP12	6	11/12/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-TP12	10	11/12/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-TP13	3	11/14/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-TP13	6	11/14/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QA-TP13	10	11/14/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.021	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP1	2.5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP1	5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP1	10	11/21/2008	<0.0050	<0.0050	<0.0050	0.086	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP1	15	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP1	20	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Trichlorotrifluoroethane	Vinyl Chloride	Xylenes (total)
QA-TP1	3	11/11/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-TP1	8	11/11/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-TP2	2.5	11/11/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-TP2	4	11/11/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-TP2	10	11/11/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-TP3	5	11/11/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-TP4	4	11/12/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-TP4	8	11/12/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-TP5	8	11/12/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-TP6	8	11/12/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-TP7	3	11/12/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-TP7	10	11/12/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-TP8	4	11/12/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-TP8	8	11/12/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-TP8	10	11/12/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-TP9	3	11/12/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-TP9	10	11/12/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-TP10	3	11/12/2008	<0.25	<0.25	<0.25	<0.25	-	<0.25	1.2
QA-TP10	10	11/12/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-TP11	10	11/12/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-TP12	3	11/12/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-TP12	6	11/12/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-TP12	10	11/12/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-TP13	3	11/14/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-TP13	6	11/14/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QA-TP13	10	11/14/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP1	2.5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP1	5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP1	10	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP1	15	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP1	20	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane
QB-SB/TP1	25	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP2	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP2	10	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP2	15	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP2	20	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP2	25	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP3	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP3	10	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP3	15	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP3	20	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP4	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP4	10	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP4	15	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP4	20	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP5	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP5	10	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP5	15	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP5	20	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP6	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP6	10	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP6	15	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP6	20	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP6	25	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP7	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP7	10	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP7	15	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP7	20	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP8	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP8	10	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP8	15	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP8	20	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone	2-Chloroethylvinyl ether	2-Chlorotoluene	4-Chlorotoluene	4-Isopropyl Toluene	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane
QB-SB/TP1	25	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP2	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP2	10	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP2	15	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP2	20	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP2	25	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP3	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP3	10	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP3	15	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP3	20	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP4	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP4	10	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP4	15	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP4	20	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP5	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP5	10	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP5	15	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP5	20	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP6	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP6	10	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP6	15	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP6	20	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP6	25	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP7	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP7	10	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP7	15	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP7	20	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP8	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP8	10	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP8	15	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP8	20	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	Bromoform	Bromomethane	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Dichlorotrifluoroethane	Diisopropyl Ether	Ethyl t-Butyl Ether
QB-SB/TP1	25	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP2	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP2	10	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP2	15	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP2	20	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP2	25	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP3	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP3	10	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP3	15	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP3	20	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP4	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP4	10	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP4	15	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP4	20	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP5	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP5	10	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP5	15	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP5	20	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP6	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP6	10	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP6	15	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP6	20	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP6	25	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP7	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP7	10	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP7	15	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP7	20	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP8	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP8	10	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP8	15	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP8	20	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene	Methylene Chloride	Methyl-t-butyl ether	Naphthalene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Styrene	t-Amyl Methyl Ether	t-Butyl alcohol	tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene
QB-SB/TP1	25	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP2	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP2	10	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP2	15	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP2	20	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP2	25	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP3	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP3	10	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP3	15	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP3	20	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP4	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP4	10	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP4	15	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP4	20	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP5	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP5	10	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP5	15	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP5	20	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0040J	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP6	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP6	10	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0038J	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP6	15	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP6	20	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP6	25	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP7	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP7	10	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP7	15	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP7	20	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP8	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP8	10	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP8	15	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP8	20	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Trichlorotrifluoroethane	Vinyl Chloride	Xylenes (total)
QB-SB/TP1	25	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP2	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP2	10	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP2	15	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP2	20	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP2	25	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP3	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP3	10	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP3	15	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP3	20	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP4	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP4	10	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP4	15	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP4	20	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP5	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP5	10	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP5	15	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP5	20	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP6	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP6	10	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP6	15	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP6	20	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP6	25	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP7	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP7	10	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP7	15	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP7	20	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP8	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP8	10	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP8	15	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP8	20	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane
QB-SB/TP9	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP9	10	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP9	15	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP9	20	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP10	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0025J	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP10	10	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP10	15	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP10	20	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP11	3	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP11	5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP11	10	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0023J	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP11	15	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP11	20	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP12	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP12	10	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP12	15	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP12	20	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP12	25	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP13	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP13	10	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP13	15	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP13	20	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP13	25	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0044J	<0.0050	0.0056	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP14	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP14	10	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP14	15	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP14	20	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP14	25	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP15	1	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP15	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP15	10	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone	2-Chloroethylvinyl ether	2-Chlorotoluene	4-Chlorotoluene	4-Isopropyl Toluene	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane
QB-SB/TP9	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP9	10	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP9	15	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP9	20	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP10	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP10	10	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP10	15	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP10	20	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP11	3	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP11	5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP11	10	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP11	15	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	0.1	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP11	20	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP12	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP12	10	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP12	15	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP12	20	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP12	25	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP13	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP13	10	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP13	15	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP13	20	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP13	25	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP14	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP14	10	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP14	15	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP14	20	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP14	25	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP15	1	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	0.0021J	<0.0050	<0.0050	<0.0050
QB-SB/TP15	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP15	10	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	Bromoform	Bromomethane	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Dichlorotrifluoroethane	Diisopropyl Ether	Ethyl t-Butyl Ether
QB-SB/TP9	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP9	10	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP9	15	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP9	20	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP10	5	11/18/2008	<0.0050	<0.0050	<0.0050	0.0041J	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP10	10	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP10	15	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP10	20	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP11	3	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP11	5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP11	10	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP11	15	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP11	20	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP12	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP12	10	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP12	15	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP12	20	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP12	25	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP13	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP13	10	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP13	15	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP13	20	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP13	25	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP14	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP14	10	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP14	15	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP14	20	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP14	25	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP15	1	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP15	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP15	10	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene	Methylene Chloride	Methyl-t-butyl ether	Naphthalene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Styrene	t-Amyl Methyl Ether	t-Butyl alcohol	tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene
QB-SB/TP9	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP9	10	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP9	15	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP9	20	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP10	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	0.0031J
QB-SB/TP10	10	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP10	15	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP10	20	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP11	3	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP11	5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP11	10	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0054	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	0.0020J
QB-SB/TP11	15	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP11	20	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP12	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP12	10	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0041J	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP12	15	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0036J	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP12	20	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP12	25	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP13	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP13	10	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0044J	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP13	15	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0047J	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP13	20	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0043J	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP13	25	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0053	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP14	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP14	10	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP14	15	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP14	20	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP14	25	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP15	1	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	0.0024J
QB-SB/TP15	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP15	10	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Trichlorotrifluoroethane	Vinyl Chloride	Xylenes (total)
QB-SB/TP9	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP9	10	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP9	15	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP9	20	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP10	5	11/18/2008	<0.0050	<0.0050	0.0031J	<0.0050	-	<0.0050	<0.0050
QB-SB/TP10	10	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP10	15	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP10	20	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP11	3	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP11	5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP11	10	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	0.0026J
QB-SB/TP11	15	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP11	20	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP12	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP12	10	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP12	15	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP12	20	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP12	25	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP13	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP13	10	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP13	15	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP13	20	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP13	25	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP14	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP14	10	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP14	15	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP14	20	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP14	25	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP15	1	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	0.0031J
QB-SB/TP15	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP15	10	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane
QB-SB/TP15	15	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP15	20	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP15	25	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP16	3.5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP16	5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP16	10	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP16	15	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP16	20	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP16	25	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP17	3.5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP17	5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP17	10	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP17	15	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP17	20	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP17	25	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP18	4	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP18	5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP18	10	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP18	15	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP18	20	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP18	25	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP19	3.5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP19	5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP19	10	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP19	15	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP19	20	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP19	25	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP20	1	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP20	3	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP20	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP20	10	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone	2-Chloroethylvinyl ether	2-Chlorotoluene	4-Chlorotoluene	4-Isopropyl Toluene	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane
QB-SB/TP15	15	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP15	20	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP15	25	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP16	3.5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP16	5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP16	10	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP16	15	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP16	20	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP16	25	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP17	3.5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP17	5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP17	10	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP17	15	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP17	20	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP17	25	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP18	4	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP18	5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP18	10	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP18	15	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP18	20	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP18	25	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP19	3.5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP19	5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP19	10	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP19	15	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP19	20	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP19	25	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP20	1	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP20	3	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP20	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP20	10	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	Bromoform	Bromomethane	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Dichlorotrifluoroethane	Diisopropyl Ether	Ethyl t-Butyl Ether
QB-SB/TP15	15	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP15	20	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP15	25	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP16	3.5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP16	5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP16	10	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP16	15	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP16	20	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP16	25	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP17	3.5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP17	5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP17	10	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP17	15	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP17	20	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP17	25	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP18	4	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP18	5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP18	10	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP18	15	12/1/2008	<0.0050	<0.0050	0.013	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP18	20	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP18	25	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP19	3.5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP19	5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP19	10	11/25/2008	<0.0050	<0.0050	0.015	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP19	15	11/25/2008	<0.0050	<0.0050	0.014	<0.0050	<0.0050	0.0043J	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP19	20	11/25/2008	<0.0050	<0.0050	0.015	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP19	25	11/25/2008	<0.0050	<0.0050	0.014	<0.0050	<0.0050	0.0044J	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP20	1	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP20	3	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP20	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP20	10	11/25/2008	<0.0050	<0.0050	0.015	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene	Methylene Chloride	Methyl-t-butyl ether	Naphthalene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Styrene	t-Amyl Methyl Ether	t-Butyl alcohol	tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene
QB-SB/TP15	15	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP15	20	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP15	25	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP16	3.5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP16	5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP16	10	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP16	15	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP16	20	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP16	25	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP17	3.5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP17	5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0021J	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP17	10	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP17	15	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP17	20	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP17	25	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP18	4	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP18	5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP18	10	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP18	15	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP18	20	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP18	25	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP19	3.5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP19	5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP19	10	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP19	15	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP19	20	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP19	25	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP20	1	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP20	3	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP20	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP20	10	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Trichlorotrifluoroethane	Vinyl Chloride	Xylenes (total)
QB-SB/TP15	15	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP15	20	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP15	25	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP16	3.5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP16	5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP16	10	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP16	15	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP16	20	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP16	25	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP17	3.5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP17	5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP17	10	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP17	15	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP17	20	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP17	25	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP18	4	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP18	5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP18	10	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP18	15	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP18	20	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP18	25	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP19	3.5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP19	5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP19	10	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP19	15	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP19	20	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP19	25	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP20	1	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP20	3	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP20	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP20	10	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane
QB-SB/TP20	15	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP20	20	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP20	25	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP21	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP21	10	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP21	15	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP21	20	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP21	25	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP22	1	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP22	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP22	10	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP22	15	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP22	20	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP22	25	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP23	5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP23	10	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP23	15	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP23	20	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP23	25	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP24	5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP24	10	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.006	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP24	15	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP24	20	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0061	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP24	25	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP25	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP25	10	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP25	15	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP25	20	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP25	25	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP26	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP26	10	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone	2-Chloroethylvinyl ether	2-Chlorotoluene	4-Chlorotoluene	4-Isopropyl Toluene	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane
QB-SB/TP20	15	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP20	20	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP20	25	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP21	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP21	10	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP21	15	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP21	20	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP21	25	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP22	1	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP22	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP22	10	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP22	15	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP22	20	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP22	25	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP23	5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP23	10	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP23	15	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP23	20	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP23	25	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP24	5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP24	10	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP24	15	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP24	20	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP24	25	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP25	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP25	10	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP25	15	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP25	20	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP25	25	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP26	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP26	10	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	Bromoform	Bromomethane	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Dichlorotrifluoroethane	Diisopropyl Ether	Ethyl t-Butyl Ether
QB-SB/TP20	15	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP20	20	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP20	25	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP21	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP21	10	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP21	15	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP21	20	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP21	25	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP22	1	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP22	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP22	10	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP22	15	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP22	20	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP22	25	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP23	5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP23	10	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP23	15	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP23	20	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP23	25	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP24	5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP24	10	11/25/2008	<0.0050	<0.0050	0.015	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP24	15	11/25/2008	<0.0050	<0.0050	0.014	<0.0050	<0.0050	0.0044J	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP24	20	11/25/2008	<0.0050	<0.0050	0.015	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP24	25	11/25/2008	<0.0050	<0.0050	0.014	<0.0050	<0.0050	0.0044J	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP25	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP25	10	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP25	15	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP25	20	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP25	25	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP26	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP26	10	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene	Methylene Chloride	Methyl-t-butyl ether	Naphthalene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Styrene	t-Amyl Methyl Ether	t-Butyl alcohol	tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene
QB-SB/TP20	15	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP20	20	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP20	25	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP21	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP21	10	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP21	15	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP21	20	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP21	25	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP22	1	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP22	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP22	10	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP22	15	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP22	20	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP22	25	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP23	5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP23	10	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP23	15	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP23	20	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP23	25	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP24	5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP24	10	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP24	15	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP24	20	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP24	25	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP25	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP25	10	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP25	15	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP25	20	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP25	25	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP26	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP26	10	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Trichlorotrifluoroethane	Vinyl Chloride	Xylenes (total)
QB-SB/TP20	15	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP20	20	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP20	25	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP21	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP21	10	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP21	15	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP21	20	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP21	25	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP22	1	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP22	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP22	10	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP22	15	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP22	20	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP22	25	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP23	5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP23	10	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP23	15	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP23	20	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP23	25	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP24	5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP24	10	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP24	15	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP24	20	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP24	25	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP25	5	11/18/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP25	10	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP25	15	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP25	20	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP25	25	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP26	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP26	10	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane
QB-SB/TP26	15	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP26	20	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP26	25	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP27	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP27	10	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP27	15	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP27	20	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP27	25	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP34	5	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP34	7.5	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP34	10	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP34	15	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP34	20	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP35	1	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP35	5	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP35	10	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP35	15	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP35	20	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP35	25	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP36	2	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0092	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP36	5	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP36	10	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP36	15	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP36	20	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP36	25	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP37	2.5	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP37	5	11/21/2008	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.18	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
QB-SB/TP37	10	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP37	15	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP37	20	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP37	25	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone	2-Chloroethylvinyl ether	2-Chlorotoluene	4-Chlorotoluene	4-Isopropyl Toluene	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane
QB-SB/TP26	15	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP26	20	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP26	25	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP27	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP27	10	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP27	15	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP27	20	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP27	25	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP34	5	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP34	7.5	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP34	10	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP34	15	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP34	20	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP35	1	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP35	5	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP35	10	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP35	15	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP35	20	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP35	25	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP36	2	11/21/2008	<0.0050	0.0047J	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP36	5	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP36	10	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP36	15	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP36	20	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP36	25	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP37	2.5	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP37	5	11/21/2008	<0.025	1.9	<0.025	<0.025	<0.025	<0.025	<0.50	<0.025	0.46	<0.025	0.97	**0.28**	<0.025	<0.025	<0.025
QB-SB/TP37	10	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP37	15	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP37	20	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP37	25	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	Bromoform	Bromomethane	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Dichlorotrifluoroethane	Diisopropyl Ether	Ethyl t-Butyl Ether
QB-SB/TP26	15	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP26	20	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP26	25	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP27	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP27	10	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP27	15	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP27	20	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP27	25	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP34	5	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP34	7.5	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP34	10	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP34	15	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP34	20	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP35	1	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP35	5	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP35	10	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP35	15	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP35	20	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP35	25	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP36	2	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP36	5	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP36	10	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP36	15	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP36	20	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP36	25	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP37	2.5	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP37	5	11/21/2008	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	-	<0.025	<0.025
QB-SB/TP37	10	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP37	15	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP37	20	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP37	25	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene	Methylene Chloride	Methyl-t-butyl ether	Naphthalene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Styrene	t-Amyl Methyl Ether	t-Butyl alcohol	tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene
QB-SB/TP26	15	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP26	20	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP26	25	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP27	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP27	10	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP27	15	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP27	20	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP27	25	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP34	5	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP34	7.5	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP34	10	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP34	15	11/24/2008	<0.0050	<0.0050	<0.0050	0.016O-01	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP34	20	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP35	1	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP35	5	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP35	10	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP35	15	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP35	20	11/24/2008	<0.0050	<0.0050	<0.0050	0024O-01	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP35	25	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP36	2	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0035J	0.0023J	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP36	5	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP36	10	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP36	15	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP36	20	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP36	25	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP37	2.5	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP37	5	11/21/2008	1.6	<0.025	0.48	<0.025	<0.025	**2.4**	1	1.6	0.81	<0.025	<0.025	<0.12	<0.025	<0.025	0.35
QB-SB/TP37	10	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP37	15	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP37	20	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP37	25	11/24/2008	<0.0050	<0.0050	<0.0050	0.0085	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Trichlorotrifluoroethane	Vinyl Chloride	Xylenes (total)
QB-SB/TP26	15	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP26	20	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP26	25	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP27	5	11/17/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP27	10	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP27	15	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP27	20	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP27	25	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP34	5	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP34	7.5	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP34	10	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP34	15	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP34	20	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP35	1	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP35	5	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP35	10	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP35	15	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP35	20	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP35	25	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP36	2	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP36	5	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP36	10	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP36	15	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP36	20	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP36	25	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP37	2.5	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP37	5	11/21/2008	<0.025	<0.025	<0.025	<0.025	-	<0.025	5.2
QB-SB/TP37	10	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP37	15	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP37	20	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP37	25	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane
QB-SB/TP38	5	11/21/2008	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.0058J	<0.025	<0.025	<0.025	<0.025
QB-SB/TP38	6	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP38	10	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP38	15	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP38	20	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP38	25	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP39	0.5	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP39	5	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP39	10	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP39	15	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP40	1	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0061	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP40	5	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP40	10	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP40	15	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP40	20	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP40	25	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP41	1.5	11/21/2008	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.081	<0.025	<0.025	<0.025	<0.025
QB-SB/TP41	5	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP41	10	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP41	15	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP41	20	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP41	25	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP42	1.5	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP42	5	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP42	10	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP42	15	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP42	20	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP42	25	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP43	2	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP43	5	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP43	10	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone	2-Chloroethylvinyl ether	2-Chlorotoluene	4-Chlorotoluene	4-Isopropyl Toluene	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane
QB-SB/TP38	5	11/21/2008	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.50	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
QB-SB/TP38	6	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP38	10	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP38	15	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP38	20	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP38	25	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP39	0.5	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP39	5	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP39	10	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP39	15	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP40	1	11/21/2008	<0.0050	0.0035J	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	0.0054	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP40	5	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP40	10	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP40	15	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP40	20	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP40	25	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP41	1.5	11/21/2008	<0.025	0.037	<0.025	<0.025	<0.025	<0.025	<0.50	<0.025	<0.025	<0.025	0.014J	<0.025	<0.025	<0.025	<0.025
QB-SB/TP41	5	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP41	10	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP41	15	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP41	20	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP41	25	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP42	1.5	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP42	5	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP42	10	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	0.1	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP42	15	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	0.1	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP42	20	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	0.1	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP42	25	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	0.1	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP43	2	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP43	5	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP43	10	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	Bromoform	Bromomethane	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Dichlorotrifluoroethane	Diisopropyl Ether	Ethyl t-Butyl Ether
QB-SB/TP38	5	11/21/2008	<0.025	<0.025	0.055	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	-	<0.025	<0.025
QB-SB/TP38	6	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP38	10	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP38	15	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP38	20	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP38	25	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP39	0.5	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP39	5	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP39	10	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP39	15	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.042O-01	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP40	1	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP40	5	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP40	10	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP40	15	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP40	20	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP40	25	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP41	1.5	11/21/2008	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	-	<0.025	<0.025
QB-SB/TP41	5	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP41	10	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP41	15	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP41	20	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP41	25	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP42	1.5	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP42	5	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP42	10	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP42	15	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP42	20	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP42	25	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP43	2	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP43	5	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP43	10	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene	Methylene Chloride	Methyl-t-butyl ether	Naphthalene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Styrene	t-Amyl Methyl Ether	t-Butyl alcohol	tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene
QB-SB/TP38	5	11/21/2008	<0.025	<0.025	<0.025	<0.025	<0.025	0.066	<0.025	<0.025	0.020J	<0.025	<0.025	<0.12	<0.025	<0.025	0.0052J
QB-SB/TP38	6	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP38	10	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP38	15	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP38	20	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP38	25	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP39	0.5	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP39	5	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP39	10	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP39	15	11/24/2008	<0.0050	<0.0050	<0.0050	0.042	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP40	1	11/21/2008	<0.0050	<0.0050	0.0037J	<0.0050	<0.0050	<0.0050	0.0079	0.0066	0.0057	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP40	5	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP40	10	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP40	15	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP40	20	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP40	25	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP41	1.5	11/21/2008	0.03	<0.025	0.021J	<0.025	<0.025	0.14	0.027	0.029	0.019J	<0.025	<0.025	<0.12	<0.025	<0.025	0.011J
QB-SB/TP41	5	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP41	10	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP41	15	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP41	20	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP41	25	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP42	1.5	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP42	5	11/20/2008	<0.0050	<0.0050	<0.0050	0.0041J	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP42	10	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP42	15	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP42	20	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP42	25	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP43	2	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP43	5	11/20/2008	<0.0050	<0.0050	<0.0050	0.0078	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP43	10	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Trichlorotrifluoroethane	Vinyl Chloride	Xylenes (total)
QB-SB/TP38	5	11/21/2008	<0.025	<0.025	<0.025	<0.025	-	<0.025	<0.025
QB-SB/TP38	6	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP38	10	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP38	15	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP38	20	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP38	25	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP39	0.5	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP39	5	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP39	10	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP39	15	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP40	1	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP40	5	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP40	10	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP40	15	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP40	20	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP40	25	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP41	1.5	11/21/2008	<0.025	<0.025	<0.025	<0.025	-	<0.025	0.054
QB-SB/TP41	5	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP41	10	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP41	15	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP41	20	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP41	25	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP42	1.5	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP42	5	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP42	10	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP42	15	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP42	20	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP42	25	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP43	2	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP43	5	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP43	10	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane
QB-SB/TP43	15	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP43	20	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP43	25	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP44	5	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP44	7.5	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP44	10	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP44	15	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP44	20	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP44	25	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP45	1.5	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP45	5	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP45	10	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP45	15	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP45	20	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP45	25	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP46	1.5	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP46	5	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP46	10	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP46	15	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP46	20	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP46	25	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP47	2	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP47	4.5	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP47	10	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP47	15	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP47	20	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP48	2	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP48	5	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP48	10	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP48	15	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP48	20	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone	2-Chloroethylvinyl ether	2-Chlorotoluene	4-Chlorotoluene	4-Isopropyl Toluene	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane
QB-SB/TP43	15	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP43	20	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP43	25	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP44	5	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP44	7.5	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP44	10	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP44	15	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP44	20	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP44	25	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP45	1.5	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP45	5	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP45	10	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP45	15	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP45	20	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP45	25	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP46	1.5	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	0.1	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP46	5	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP46	10	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP46	15	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP46	20	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP46	25	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP47	2	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP47	4.5	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP47	10	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP47	15	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP47	20	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP48	2	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP48	5	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP48	10	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP48	15	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP48	20	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	Bromoform	Bromomethane	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Dichlorotrifluoroethane	Diisopropyl Ether	Ethyl t-Butyl Ether
QB-SB/TP43	15	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP43	20	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP43	25	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP44	5	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP44	7.5	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP44	10	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP44	15	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP44	20	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP44	25	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP45	1.5	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP45	5	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP45	10	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP45	15	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP45	20	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP45	25	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP46	1.5	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP46	5	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP46	10	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP46	15	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP46	20	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP46	25	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP47	2	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP47	4.5	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP47	10	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP47	15	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP47	20	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP48	2	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP48	5	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP48	10	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP48	15	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP48	20	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene	Methylene Chloride	Methyl-t-butyl ether	Naphthalene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Styrene	t-Amyl Methyl Ether	t-Butyl alcohol	tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene
QB-SB/TP43	15	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP43	20	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP43	25	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP44	5	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP44	7.5	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP44	10	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP44	15	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP44	20	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP44	25	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP45	1.5	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP45	5	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP45	10	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP45	15	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP45	20	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP45	25	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP46	1.5	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP46	5	11/20/2008	<0.0050	<0.0050	<0.0050	0.0046J	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP46	10	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP46	15	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP46	20	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP46	25	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP47	2	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0036J	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP47	4.5	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP47	10	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP47	15	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP47	20	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP48	2	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP48	5	11/24/2008	<0.0050	<0.0050	<0.0050	0.14	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP48	10	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP48	15	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP48	20	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Trichlorotrifluoroethane	Vinyl Chloride	Xylenes (total)
QB-SB/TP43	15	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP43	20	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP43	25	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP44	5	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP44	7.5	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP44	10	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP44	15	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP44	20	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP44	25	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP45	1.5	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP45	5	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP45	10	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP45	15	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP45	20	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP45	25	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP46	1.5	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP46	5	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP46	10	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP46	15	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP46	20	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP46	25	11/21/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP47	2	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP47	4.5	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP47	10	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP47	15	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP47	20	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP48	2	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP48	5	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP48	10	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP48	15	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP48	20	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane
QB-SB/TP49	5	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP49	10	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP49	15	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP49	20	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP50	5	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP50	10	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP50	15	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP50	20	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP51	5	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP51	10	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP51	15	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP51	20	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP52	2	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP52	5	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP52	10	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP52	15	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP52	20	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP52	25	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP53	2	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP53	5	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP53	7.5	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP53	10	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP53	15	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP53	20	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP53	25	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP53	30	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP53	35	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP54	1	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP54	5	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP54	8.5	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP54	10	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone	2-Chloroethylvinyl ether	2-Chlorotoluene	4-Chlorotoluene	4-Isopropyl Toluene	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane
QB-SB/TP49	5	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP49	10	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP49	15	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP49	20	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP50	5	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP50	10	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP50	15	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP50	20	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP51	5	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP51	10	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP51	15	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP51	20	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP52	2	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP52	5	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP52	10	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP52	15	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP52	20	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP52	25	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP53	2	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP53	5	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP53	7.5	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP53	10	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP53	15	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP53	20	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP53	25	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP53	30	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP53	35	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP54	1	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP54	5	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP54	8.5	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP54	10	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	Bromoform	Bromomethane	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Dichlorotrifluoroethane	Diisopropyl Ether	Ethyl t-Butyl Ether
QB-SB/TP49	5	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP49	10	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP49	15	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP49	20	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP50	5	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP50	10	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP50	15	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP50	20	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP51	5	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP51	10	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP51	15	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP51	20	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP52	2	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP52	5	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP52	10	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP52	15	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP52	20	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP52	25	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP53	2	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP53	5	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP53	7.5	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP53	10	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP53	15	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP53	20	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP53	25	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP53	30	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP53	35	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP54	1	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP54	5	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP54	8.5	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP54	10	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene	Methylene Chloride	Methyl-t-butyl ether	Naphthalene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Styrene	t-Amyl Methyl Ether	t-Butyl alcohol	tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene
QB-SB/TP49	5	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP49	10	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP49	15	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP49	20	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP50	5	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP50	10	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP50	15	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP50	20	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP51	5	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP51	10	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP51	15	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP51	20	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP52	2	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP52	5	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP52	10	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP52	15	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP52	20	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP52	25	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP53	2	11/25/2008	<0.0050	<0.0050	<0.0050	0.0035J	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP53	5	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP53	7.5	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	0.00056J
QB-SB/TP53	10	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP53	15	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP53	20	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP53	25	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP53	30	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP53	35	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP54	1	11/25/2008	<0.0050	<0.0050	<0.0050	0.0028J	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP54	5	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP54	8.5	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP54	10	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Trichlorotrifluoroethane	Vinyl Chloride	Xylenes (total)
QB-SB/TP49	5	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP49	10	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP49	15	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP49	20	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP50	5	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP50	10	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP50	15	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP50	20	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP51	5	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP51	10	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP51	15	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP51	20	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP52	2	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP52	5	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP52	10	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP52	15	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP52	20	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP52	25	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP53	2	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP53	5	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP53	7.5	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP53	10	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP53	15	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP53	20	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP53	25	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP53	30	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP53	35	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP54	1	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP54	5	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP54	8.5	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP54	10	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane
QB-SB/TP54	15	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP54	20	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP54	25	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP54	30	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP55	1.5	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP55	5	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP55	10	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP55	15	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP55	20	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP55	25	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP56	1	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP56	5	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP56	10	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP56	15	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP56	20	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP56	25	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP57	1	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP57	5	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP57	10	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP57	15	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP57	20	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP57	25	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP58	5	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP58	10	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP58	15	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP58	20	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP59	0.5	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0022J	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP59	5	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP59	10	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP59	15	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP59	20	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone	2-Chloroethylvinyl ether	2-Chlorotoluene	4-Chlorotoluene	4-Isopropyl Toluene	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane
QB-SB/TP54	15	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP54	20	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP54	25	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP54	30	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP55	1.5	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP55	5	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP55	10	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP55	15	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP55	20	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP55	25	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP56	1	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP56	5	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP56	10	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP56	15	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP56	20	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP56	25	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP57	1	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP57	5	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP57	10	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP57	15	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	0.0011J	<0.0050	<0.0050	<0.0050
QB-SB/TP57	20	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	0.0012J	<0.0050	<0.0050	<0.0050
QB-SB/TP57	25	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	0.0011J	<0.0050	<0.0050	<0.0050
QB-SB/TP58	5	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP58	10	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP58	15	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP58	20	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP59	0.5	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP59	5	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP59	10	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP59	15	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP59	20	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	Bromoform	Bromomethane	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Dichlorotrifluoroethane	Diisopropyl Ether	Ethyl t-Butyl Ether
QB-SB/TP54	15	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP54	20	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP54	25	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP54	30	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP55	1.5	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP55	5	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP55	10	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP55	15	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP55	20	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP55	25	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP56	1	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP56	5	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP56	10	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP56	15	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP56	20	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP56	25	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP57	1	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP57	5	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP57	10	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP57	15	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP57	20	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP57	25	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP58	5	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP58	10	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP58	15	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP58	20	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP59	0.5	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP59	5	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP59	10	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP59	15	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP59	20	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene	Methylene Chloride	Methyl-t-butyl ether	Naphthalene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Styrene	t-Amyl Methyl Ether	t-Butyl alcohol	tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene
QB-SB/TP54	15	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP54	20	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP54	25	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP54	30	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP55	1.5	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP55	5	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP55	10	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP55	15	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP55	20	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP55	25	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP56	1	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP56	5	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP56	10	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP56	15	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP56	20	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP56	25	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP57	1	11/25/2008	<0.0050	<0.0050	<0.0050	0.0022J	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP57	5	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP57	10	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP57	15	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP57	20	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	0.00076J
QB-SB/TP57	25	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP58	5	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP58	10	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP58	15	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP58	20	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP59	0.5	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0056	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP59	5	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP59	10	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP59	15	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP59	20	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Trichlorotrifluoroethane	Vinyl Chloride	Xylenes (total)
QB-SB/TP54	15	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP54	20	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP54	25	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP54	30	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP55	1.5	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP55	5	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP55	10	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP55	15	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP55	20	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP55	25	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP56	1	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP56	5	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP56	10	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP56	15	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP56	20	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP56	25	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP57	1	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP57	5	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP57	10	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP57	15	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP57	20	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP57	25	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP58	5	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP58	10	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP58	15	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP58	20	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP59	0.5	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP59	5	11/24/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP59	10	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP59	15	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP59	20	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane
QB-SB/TP59	25	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP60	5	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP60	10	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP60	15	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP60	20	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP61	5	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP61	10	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP61	15	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP61	20	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP61	25	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP62	5	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP62	10	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP62	15	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP62	20	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP63	5	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP63	10	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP63	15	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP63	20	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP69	5	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP69	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP69	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP70	5	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP70	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP70	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP71	5	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP71	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP71	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP72	5	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP72	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP72	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP73	5	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone	2-Chloroethylvinyl ether	2-Chlorotoluene	4-Chlorotoluene	4-Isopropyl Toluene	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane
QB-SB/TP59	25	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP60	5	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP60	10	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP60	15	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP60	20	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP61	5	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP61	10	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP61	15	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP61	20	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP61	25	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP62	5	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP62	10	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP62	15	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP62	20	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP63	5	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP63	10	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP63	15	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP63	20	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP69	5	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP69	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP69	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP70	5	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	0.0012J	<0.0050	<0.0050	<0.0050
QB-SB/TP70	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP70	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP71	5	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP71	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP71	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP72	5	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP72	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP72	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP73	5	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	Bromoform	Bromomethane	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Dichlorotrifluoroethane	Diisopropyl Ether	Ethyl t-Butyl Ether
QB-SB/TP59	25	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP60	5	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP60	10	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP60	15	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP60	20	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP61	5	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP61	10	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP61	15	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP61	20	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP61	25	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP62	5	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP62	10	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP62	15	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP62	20	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP63	5	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP63	10	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP63	15	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP63	20	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP69	5	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP69	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP69	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP70	5	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP70	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP70	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP71	5	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP71	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP71	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP72	5	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP72	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP72	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP73	5	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene	Methylene Chloride	Methyl-t-butyl ether	Naphthalene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Styrene	t-Amyl Methyl Ether	t-Butyl alcohol	tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene
QB-SB/TP59	25	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP60	5	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP60	10	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP60	15	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP60	20	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP61	5	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP61	10	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP61	15	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP61	20	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP61	25	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP62	5	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP62	10	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP62	15	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP62	20	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP63	5	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP63	10	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP63	15	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP63	20	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP69	5	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP69	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP69	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP70	5	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP70	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP70	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP71	5	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP71	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP71	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP72	5	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP72	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP72	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP73	5	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Trichlorotrifluoroethane	Vinyl Chloride	Xylenes (total)
QB-SB/TP59	25	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP60	5	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP60	10	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP60	15	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP60	20	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP61	5	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP61	10	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP61	15	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP61	20	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP61	25	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP62	5	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP62	10	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP62	15	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP62	20	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP63	5	11/25/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP63	10	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP63	15	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP63	20	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP69	5	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP69	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP69	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP70	5	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP70	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP70	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP71	5	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP71	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP71	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP72	5	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP72	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP72	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP73	5	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane
QB-SB/TP73	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP73	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP74	5	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP74	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP74	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP75	5	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP75	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP75	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP76	1.75	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP76	5	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP76	10	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP76	15	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP77	2	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP77	5	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP77	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP77	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP78	0.5	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP78	5	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP78	10	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP78	15	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP78	20	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP78	25	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP79	5	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP79	10	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP79	15	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP79	20	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP80	1.5	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP80	5	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP80	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP80	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP81	5	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone	2-Chloroethylvinyl ether	2-Chlorotoluene	4-Chlorotoluene	4-Isopropyl Toluene	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane
QB-SB/TP73	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP73	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP74	5	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP74	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP74	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP75	5	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP75	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP75	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP76	1.75	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP76	5	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP76	10	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP76	15	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP77	2	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP77	5	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP77	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP77	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP78	0.5	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP78	5	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP78	10	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP78	15	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP78	20	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP78	25	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP79	5	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP79	10	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP79	15	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP79	20	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP80	1.5	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP80	5	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP80	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP80	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP81	5	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	Bromoform	Bromomethane	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Dichlorotrifluoroethane	Diisopropyl Ether	Ethyl t-Butyl Ether
QB-SB/TP73	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP73	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP74	5	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP74	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP74	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP75	5	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP75	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP75	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP76	1.75	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP76	5	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP76	10	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP76	15	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP77	2	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP77	5	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP77	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP77	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP78	0.5	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP78	5	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP78	10	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP78	15	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP78	20	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP78	25	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP79	5	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP79	10	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP79	15	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP79	20	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP80	1.5	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP80	5	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP80	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP80	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP81	5	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene	Methylene Chloride	Methyl-t-butyl ether	Naphthalene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Styrene	t-Amyl Methyl Ether	t-Butyl alcohol	tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene
QB-SB/TP73	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP73	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP74	5	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP74	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP74	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP75	5	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP75	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP75	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP76	1.75	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP76	5	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP76	10	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP76	15	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP77	2	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP77	5	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP77	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP77	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP78	0.5	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP78	5	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP78	10	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP78	15	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP78	20	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP78	25	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP79	5	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP79	10	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP79	15	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP79	20	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP80	1.5	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP80	5	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP80	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP80	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP81	5	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Trichlorotrifluoroethane	Vinyl Chloride	Xylenes (total)
QB-SB/TP73	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP73	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP74	5	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP74	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP74	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP75	5	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP75	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP75	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP76	1.75	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP76	5	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP76	10	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP76	15	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP77	2	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP77	5	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP77	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP77	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP78	0.5	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP78	5	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP78	10	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP78	15	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP78	20	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP78	25	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP79	5	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP79	10	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP79	15	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP79	20	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP80	1.5	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP80	5	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP80	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP80	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP81	5	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane
QB-SB/TP81	10	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP81	15	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP81	20	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP82	5	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP82	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP82	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP83	5	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP83	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP83	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP84	2	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP84	5	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP84	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP84	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP85	5	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP85	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP85	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP86	3	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP86	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP86	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP86	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP95	1.75	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP95	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP95	10	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP95	15	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP96	2	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP96	3	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP96	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP96	10	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP96	15	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP96	20	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP96	25	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone	2-Chloroethylvinyl ether	2-Chlorotoluene	4-Chlorotoluene	4-Isopropyl Toluene	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane
QB-SB/TP81	10	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP81	15	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP81	20	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP82	5	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP82	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP82	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP83	5	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP83	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP83	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP84	2	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP84	5	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP84	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP84	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP85	5	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP85	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP85	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP86	3	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP86	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP86	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP86	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP95	1.75	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP95	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP95	10	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP95	15	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP96	2	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP96	3	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP96	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP96	10	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP96	15	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP96	20	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP96	25	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	Bromoform	Bromomethane	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Dichlorotrifluoroethane	Diisopropyl Ether	Ethyl t-Butyl Ether
QB-SB/TP81	10	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP81	15	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP81	20	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP82	5	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP82	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP82	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP83	5	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP83	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP83	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP84	2	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP84	5	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP84	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP84	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP85	5	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP85	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP85	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP86	3	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP86	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP86	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP86	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP95	1.75	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP95	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP95	10	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP95	15	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP96	2	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP96	3	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP96	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP96	10	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP96	15	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP96	20	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP96	25	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene	Methylene Chloride	Methyl-t-butyl ether	Naphthalene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Styrene	t-Amyl Methyl Ether	t-Butyl alcohol	tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene
QB-SB/TP81	10	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP81	15	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP81	20	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP82	5	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP82	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP82	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP83	5	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP83	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP83	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP84	2	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP84	5	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP84	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP84	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP85	5	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP85	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP85	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP86	3	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP86	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP86	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP86	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP95	1.75	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP95	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP95	10	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP95	15	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP96	2	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP96	3	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP96	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP96	10	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP96	15	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP96	20	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP96	25	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Trichlorotrifluoroethane	Vinyl Chloride	Xylenes (total)
QB-SB/TP81	10	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP81	15	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP81	20	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP82	5	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP82	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP82	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP83	5	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP83	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP83	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP84	2	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP84	5	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP84	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP84	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP85	5	12/3/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP85	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP85	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP86	3	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP86	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP86	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP86	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP95	1.75	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP95	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP95	10	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP95	15	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP96	2	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP96	3	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP96	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP96	10	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP96	15	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP96	20	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP96	25	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane
QB-SB/TP97	0.5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP97	3	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP97	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP97	10	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP97	15	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP98	1.75	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP98	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP98	10	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP98	15	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP98	20	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP99	2	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP99	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP99	10	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP99	12	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP99	15	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP99	20	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP99	25	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP99	30	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP99	35	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP99	40	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP99	45	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP99	50	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP100	2	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP100	5	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP100	10	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP100	15	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP101	2	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP101	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP101	10	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP101	15	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP102	2	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone	2-Chloroethylvinyl ether	2-Chlorotoluene	4-Chlorotoluene	4-Isopropyl Toluene	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane
QB-SB/TP97	0.5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP97	3	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP97	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP97	10	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP97	15	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP98	1.75	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP98	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP98	10	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP98	15	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP98	20	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP99	2	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP99	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP99	10	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP99	12	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP99	15	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP99	20	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP99	25	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP99	30	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP99	35	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP99	40	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP99	45	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP99	50	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP100	2	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP100	5	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP100	10	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP100	15	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP101	2	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP101	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP101	10	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP101	15	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP102	2	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	Bromoform	Bromomethane	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Dichlorotrifluoroethane	Diisopropyl Ether	Ethyl t-Butyl Ether
QB-SB/TP97	0.5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP97	3	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP97	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP97	10	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP97	15	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP98	1.75	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP98	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP98	10	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP98	15	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP98	20	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP99	2	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP99	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP99	10	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP99	12	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP99	15	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP99	20	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP99	25	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP99	30	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP99	35	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP99	40	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP99	45	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP99	50	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP100	2	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP100	5	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP100	10	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP100	15	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP101	2	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP101	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP101	10	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP101	15	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP102	2	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene	Methylene Chloride	Methyl-t-butyl ether	Naphthalene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Styrene	t-Amyl Methyl Ether	t-Butyl alcohol	tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene
QB-SB/TP97	0.5	12/4/2008	<0.0050	<0.0050	<0.0050	0.0021J	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP97	3	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP97	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP97	10	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP97	15	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP98	1.75	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP98	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP98	10	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP98	15	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP98	20	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP99	2	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP99	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP99	10	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP99	12	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP99	15	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP99	20	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP99	25	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP99	30	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP99	35	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP99	40	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP99	45	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP99	50	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP100	2	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP100	5	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP100	10	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP100	15	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP101	2	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP101	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP101	10	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP101	15	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP102	2	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Trichlorotrifluoroethane	Vinyl Chloride	Xylenes (total)
QB-SB/TP97	0.5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP97	3	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP97	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP97	10	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP97	15	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP98	1.75	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP98	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP98	10	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP98	15	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP98	20	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP99	2	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP99	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP99	10	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP99	12	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP99	15	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP99	20	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP99	25	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP99	30	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP99	35	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	0.0026J
QB-SB/TP99	40	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP99	45	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP99	50	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP100	2	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP100	5	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP100	10	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP100	15	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP101	2	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP101	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP101	10	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP101	15	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP102	2	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane
QB-SB/TP102	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP102	10	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP102	15	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP103	5	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP103	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP103	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP104	5	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP104	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP104	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP105	1	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP105	5	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP105	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP105	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP106	2	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP106	5	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP106	10	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP106	15	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP107	1	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP107	5	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP107	10	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP107	15	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP108	5	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP108	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP108	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP109	5	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP109	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP109	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB28	5	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB28	10	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB28	15	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB28	20	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone	2-Chloroethylvinyl ether	2-Chlorotoluene	4-Chlorotoluene	4-Isopropyl Toluene	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane
QB-SB/TP102	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP102	10	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP102	15	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP103	5	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP103	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP103	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP104	5	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP104	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP104	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP105	1	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP105	5	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP105	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP105	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP106	2	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP106	5	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP106	10	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP106	15	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP107	1	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP107	5	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP107	10	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP107	15	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP108	5	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP108	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP108	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP109	5	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP109	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB/TP109	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB28	5	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB28	10	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB28	15	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB28	20	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	0.1	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	Bromoform	Bromomethane	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Dichlorotrifluoroethane	Diisopropyl Ether	Ethyl t-Butyl Ether
QB-SB/TP102	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP102	10	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP102	15	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP103	5	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP103	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP103	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP104	5	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP104	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP104	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP105	1	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP105	5	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP105	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP105	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP106	2	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP106	5	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP106	10	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP106	15	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP107	1	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP107	5	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP107	10	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP107	15	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP108	5	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP108	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP108	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP109	5	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP109	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP109	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB28	5	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB28	10	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB28	15	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB28	20	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene	Methylene Chloride	Methyl-t-butyl ether	Naphthalene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Styrene	t-Amyl Methyl Ether	t-Butyl alcohol	tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene
QB-SB/TP102	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP102	10	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP102	15	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP103	5	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP103	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP103	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP104	5	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP104	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP104	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP105	1	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP105	5	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP105	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP105	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP106	2	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP106	5	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP106	10	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP106	15	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP107	1	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP107	5	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP107	10	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP107	15	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP108	5	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP108	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP108	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP109	5	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP109	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB/TP109	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB28	5	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB28	10	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB28	15	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB28	20	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Trichlorotrifluoroethane	Vinyl Chloride	Xylenes (total)
QB-SB/TP102	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP102	10	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP102	15	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP103	5	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP103	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP103	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP104	5	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP104	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP104	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP105	1	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP105	5	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP105	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP105	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP106	2	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP106	5	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP106	10	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP106	15	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP107	1	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP107	5	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP107	10	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP107	15	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP108	5	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP108	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP108	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP109	5	12/5/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP109	10	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB/TP109	15	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB28	5	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB28	10	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB28	15	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB28	20	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane
QB-SB29	5	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB29	10	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB29	15	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB29	20	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB30	5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB30	10	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB30	15	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB30	20	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB31	5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB31	10	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB31	15	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB31	20.5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB32	5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB32	10	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB32	15	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB32	21.5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB33	5	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB33	10	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB33	15	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB64	5	12/1/2008	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.76	<0.025	<0.025	<0.025	<0.025
QB-SB64	10	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0043J	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB64	15	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB64	20	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB64	25	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB64	30	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB65	5	12/1/2008	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	2.6	<0.025	<0.025	<0.025	<0.025
QB-SB65	10	12/1/2008	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	1.2	<0.025	<0.025	<0.025	<0.025
QB-SB65	15	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB65	20	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB65	25	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB65	30	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone	2-Chloroethylvinyl ether	2-Chlorotoluene	4-Chlorotoluene	4-Isopropyl Toluene	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane
QB-SB29	5	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB29	10	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB29	15	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB29	20	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB30	5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB30	10	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB30	15	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB30	20	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB31	5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB31	10	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB31	15	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB31	20.5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB32	5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB32	10	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB32	15	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB32	21.5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB33	5	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB33	10	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB33	15	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB64	5	12/1/2008	<0.025	0.11	<0.025	<0.025	<0.025	<0.025	<0.50	<0.025	2.6	<0.025	1	0.083	<0.025	<0.025	<0.025
QB-SB64	10	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	0.0030J	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB64	15	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB64	20	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB64	25	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB64	30	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB65	5	12/1/2008	<0.025	0.81	<0.025	<0.025	<0.025	<0.025	<0.50	<0.025	2.2	<0.025	0.51	**0.28**	<0.025	<0.025	<0.025
QB-SB65	10	12/1/2008	<0.025	0.34	<0.025	<0.025	<0.025	<0.025	<0.50	<0.025	0.89	<0.025	0.25	0.024J	<0.025	<0.025	<0.025
QB-SB65	15	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB65	20	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB65	25	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB65	30	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	Bromoform	Bromomethane	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Dichlorotrifluoroethane	Diisopropyl Ether	Ethyl t-Butyl Ether
QB-SB29	5	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB29	10	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB29	15	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB29	20	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB30	5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB30	10	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB30	15	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB30	20	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB31	5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB31	10	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB31	15	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB31	20.5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB32	5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB32	10	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB32	15	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB32	21.5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB33	5	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB33	10	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB33	15	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB64	5	12/1/2008	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	-	<0.025	<0.025
QB-SB64	10	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB64	15	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB64	20	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB64	25	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB64	30	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB65	5	12/1/2008	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	-	<0.025	<0.025
QB-SB65	10	12/1/2008	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	-	<0.025	<0.025
QB-SB65	15	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB65	20	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB65	25	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB65	30	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene	Methylene Chloride	Methyl-t-butyl ether	Naphthalene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Styrene	t-Amyl Methyl Ether	t-Butyl alcohol	tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene
QB-SB29	5	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB29	10	11/20/2008	<0.0050	<0.0050	<0.0050	0.0024J	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB29	15	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB29	20	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB30	5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB30	10	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB30	15	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB30	20	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB31	5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB31	10	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB31	15	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB31	20.5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB32	5	11/19/2008	<0.0050	<0.0050	<0.0050	0.0021J	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB32	10	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB32	15	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB32	21.5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB33	5	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB33	10	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB33	15	11/20/2008	<0.0050	<0.0050	<0.0050	0.0029J	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB64	5	12/1/2008	1.6	<0.025	0.46	<0.025	<0.025	<0.025	0.81	1.4	0.63	<0.025	<0.025	<0.12	<0.025	<0.025	0.016J
QB-SB64	10	12/1/2008	0.0028J	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB64	15	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB64	20	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB64	25	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB64	30	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB65	5	12/1/2008	1.2	<0.025	0.32	<0.025	<0.025	1.2	0.5	0.71	0.3	<0.025	<0.025	<0.12	<0.025	<0.025	0.26
QB-SB65	10	12/1/2008	0.36	<0.025	0.14	<0.025	<0.025	0.84	0.32	0.3	0.16	<0.025	<0.025	<0.12	<0.025	<0.025	0.018J
QB-SB65	15	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB65	20	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB65	25	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB65	30	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Trichlorotrifluoroethane	Vinyl Chloride	Xylenes (total)
QB-SB29	5	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB29	10	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB29	15	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB29	20	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB30	5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB30	10	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB30	15	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB30	20	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB31	5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB31	10	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB31	15	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB31	20.5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB32	5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB32	10	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB32	15	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB32	21.5	11/19/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB33	5	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB33	10	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB33	15	11/20/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB64	5	12/1/2008	<0.025	<0.025	<0.025	<0.025	-	<0.025	1.1
QB-SB64	10	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	0.0028J
QB-SB64	15	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB64	20	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB64	25	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB64	30	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB65	5	12/1/2008	<0.025	<0.025	<0.025	<0.025	-	<0.025	2.9
QB-SB65	10	12/1/2008	<0.025	<0.025	<0.025	<0.025	-	<0.025	0.77
QB-SB65	15	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB65	20	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB65	25	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB65	30	12/1/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane
QB-SB66	5	12/2/2008	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	1.5	<0.025	<0.025	<0.025	<0.025
QB-SB66	10	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.013	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB66	15	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB66	20	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB66	25	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB66	30	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB67	5	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB67	10	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB67	15	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB67	20	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB67	25	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB67	30	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB68	5	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB68	10	12/2/2008	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.12	<0.025	<0.025	<0.025	<0.025
QB-SB68	15	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB68	20	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB81	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB87	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB87	10	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB87	15	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB87	20	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB88	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB88	10	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB88	15	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB88	20	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB89	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB89	10	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB89	15	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB89	20	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB90	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB90	10	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone	2-Chloroethylvinyl ether	2-Chlorotoluene	4-Chlorotoluene	4-Isopropyl Toluene	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane
QB-SB66	5	12/2/2008	<0.025	0.14	<0.025	<0.025	<0.025	<0.025	<0.50	<0.025	1.1	<0.025	0.46	<0.025	<0.025	<0.025	<0.025
QB-SB66	10	12/2/2008	<0.0050	0.0028J	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	0.01	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB66	15	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB66	20	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB66	25	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB66	30	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB67	5	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB67	10	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB67	15	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB67	20	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB67	25	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB67	30	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB68	5	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB68	10	12/2/2008	<0.025	0.027	<0.025	<0.025	<0.025	<0.025	<0.50	<0.025	<0.025	<0.025	<0.025	0.016J	<0.025	<0.025	<0.025
QB-SB68	15	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB68	20	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB81	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB87	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB87	10	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB87	15	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB87	20	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB88	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB88	10	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB88	15	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB88	20	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB89	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB89	10	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB89	15	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB89	20	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB90	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB90	10	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	Bromoform	Bromomethane	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Dichlorotrifluoroethane	Diisopropyl Ether	Ethyl t-Butyl Ether
QB-SB66	5	12/2/2008	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	-	<0.025	<0.025
QB-SB66	10	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB66	15	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB66	20	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB66	25	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB66	30	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB67	5	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB67	10	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB67	15	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB67	20	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB67	25	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB67	30	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB68	5	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB68	10	12/2/2008	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	-	<0.025	<0.025
QB-SB68	15	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB68	20	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB81	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB87	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB87	10	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB87	15	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB87	20	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB88	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB88	10	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB88	15	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB88	20	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB89	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB89	10	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB89	15	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB89	20	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB90	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB90	10	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene	Methylene Chloride	Methyl-t-butyl ether	Naphthalene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Styrene	t-Amyl Methyl Ether	t-Butyl alcohol	tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene
QB-SB66	5	12/2/2008	0.57	<0.025	0.23	<0.025	<0.025	<0.025	0.45	0.55	0.3	<0.025	<0.025	<0.12	<0.025	<0.025	<0.025
QB-SB66	10	12/2/2008	0.0052	<0.0050	<0.0050	<0.0050	<0.0050	0.016	0.0034J	0.0045J	0.0030J	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	0.0044J
QB-SB66	15	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB66	20	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB66	25	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB66	30	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB67	5	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB67	10	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB67	15	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB67	20	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB67	25	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB67	30	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB68	5	12/2/2008	<0.0050	<0.0050	<0.0050	0.0044J	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB68	10	12/2/2008	0.046	<0.025	<0.025	<0.025	<0.025	0.34	<0.025	0.020J	0.011J	<0.025	<0.025	<0.12	<0.025	<0.025	0.043
QB-SB68	15	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB68	20	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	0.0035J
QB-SB81	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB87	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB87	10	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB87	15	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB87	20	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB88	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB88	10	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB88	15	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB88	20	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB89	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB89	10	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB89	15	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB89	20	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB90	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB90	10	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Trichlorotrifluoroethane	Vinyl Chloride	Xylenes (total)
QB-SB66	5	12/2/2008	<0.025	<0.025	<0.025	<0.025	-	<0.025	0.57
QB-SB66	10	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	0.0068
QB-SB66	15	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB66	20	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB66	25	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB66	30	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB67	5	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB67	10	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB67	15	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB67	20	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB67	25	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB67	30	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB68	5	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	0.16
QB-SB68	10	12/2/2008	<0.025	<0.025	<0.025	<0.025	-	<0.025	0.1
QB-SB68	15	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB68	20	12/2/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB81	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB87	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB87	10	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB87	15	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB87	20	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB88	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB88	10	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB88	15	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB88	20	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB89	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB89	10	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB89	15	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB89	20	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB90	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB90	10	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane
QB-SB90	15	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB90	20	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB91	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB91	10	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB91	15	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB91	20	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB92	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB92	10	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB92	15	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB92	20	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB93	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB93	10	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB93	15	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB93	20	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB94	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB94	10	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB94	15	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB94	20	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-TP1	2.5	11/13/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-TP1	4	11/13/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.015	<0.0050	<0.0050	<0.0050	<0.0050
QB-TP1	10	11/13/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-TP2	2.5	11/13/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-TP2	5	11/13/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-TP2	10	11/13/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-TP3	3	11/13/2008	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.97	<0.025	<0.025	<0.025	<0.025
QB-TP3	12	11/13/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-TP4	10	11/13/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-TP5	2	11/13/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-TP5	3	11/13/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.028	<0.0050	<0.0050	<0.0050	<0.0050
QB-TP5	11	11/13/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-TP6	10	11/13/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone	2-Chloroethylvinyl ether	2-Chlorotoluene	4-Chlorotoluene	4-Isopropyl Toluene	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane
QB-SB90	15	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB90	20	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB91	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB91	10	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB91	15	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB91	20	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB92	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB92	10	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB92	15	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB92	20	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB93	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB93	10	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB93	15	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB93	20	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB94	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB94	10	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB94	15	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-SB94	20	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-TP1	2.5	11/13/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-TP1	4	11/13/2008	<0.0050	0.01	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	0.16	<0.0050	<0.0050	<0.0050	<0.0050
QB-TP1	10	11/13/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-TP2	2.5	11/13/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-TP2	5	11/13/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-TP2	10	11/13/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-TP3	3	11/13/2008	<0.025	0.26	<0.025	<0.025	<0.025	<0.025	<0.50	<0.025	<0.025	<0.025	0.15	**0.24**	<0.025	<0.025	<0.025
QB-TP3	12	11/13/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-TP4	10	11/13/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-TP5	2	11/13/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-TP5	3	11/13/2008	<0.0050	0.0083	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	0.0036J	<0.0050	<0.0050	<0.0050	<0.0050
QB-TP5	11	11/13/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-TP6	10	11/13/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	Bromoform	Bromomethane	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Dichlorotrifluoroethane	Diisopropyl Ether	Ethyl t-Butyl Ether
QB-SB90	15	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB90	20	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB91	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB91	10	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB91	15	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB91	20	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB92	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB92	10	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB92	15	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB92	20	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB93	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB93	10	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB93	15	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB93	20	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB94	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB94	10	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB94	15	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB94	20	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-TP1	2.5	11/13/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-TP1	4	11/13/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-TP1	10	11/13/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-TP2	2.5	11/13/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-TP2	5	11/13/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-TP2	10	11/13/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-TP3	3	11/13/2008	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	-	<0.025	<0.025
QB-TP3	12	11/13/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-TP4	10	11/13/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-TP5	2	11/13/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-TP5	3	11/13/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-TP5	11	11/13/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-TP6	10	11/13/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene	Methylene Chloride	Methyl-t-butyl ether	Naphthalene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Styrene	t-Amyl Methyl Ether	t-Butyl alcohol	tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene
QB-SB90	15	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB90	20	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB91	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB91	10	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB91	15	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB91	20	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB92	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB92	10	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB92	15	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB92	20	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB93	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB93	10	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB93	15	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB93	20	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB94	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB94	10	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB94	15	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-SB94	20	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-TP1	2.5	11/13/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-TP1	4	11/13/2008	0.047	<0.0050	0.038	<0.0050	<0.0050	<0.0050	0.14	0.12	0.091	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	0.0019J
QB-TP1	10	11/13/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-TP2	2.5	11/13/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-TP2	5	11/13/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-TP2	10	11/13/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-TP3	3	11/13/2008	0.7	<0.025	0.13	<0.025	<0.025	0.62	<0.025	0.23	0.082	<0.025	<0.025	<0.12	<0.025	<0.025	0.17
QB-TP3	12	11/13/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-TP4	10	11/13/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-TP5	2	11/13/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-TP5	3	11/13/2008	0.0082	<0.0050	0.0026J	<0.0050	<0.0050	0.033	<0.0050	0.019	0.021	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	0.0057
QB-TP5	11	11/13/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-TP6	10	11/13/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Trichlorotrifluoroethane	Vinyl Chloride	Xylenes (total)
QB-SB90	15	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB90	20	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB91	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB91	10	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB91	15	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB91	20	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB92	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB92	10	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB92	15	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB92	20	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB93	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB93	10	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB93	15	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB93	20	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB94	5	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB94	10	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB94	15	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-SB94	20	12/4/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-TP1	2.5	11/13/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-TP1	4	11/13/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	0.11
QB-TP1	10	11/13/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-TP2	2.5	11/13/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-TP2	5	11/13/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-TP2	10	11/13/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-TP3	3	11/13/2008	<0.025	<0.025	<0.025	<0.025	-	<0.025	1.3
QB-TP3	12	11/13/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-TP4	10	11/13/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-TP5	2	11/13/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-TP5	3	11/13/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	0.03
QB-TP5	11	11/13/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-TP6	10	11/13/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane
QB-TP7	8	11/13/2008	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	0.11J	<0.12	<0.12	<0.12	<0.12
QB-TP8	10	11/14/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-TP9	5.5	11/14/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-TP9	12	11/14/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-TP10	5	11/14/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-TP10	10	11/14/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-TP11	10	11/14/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP1	5	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP1	10	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP1	15	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP2	5	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP2	10	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP2	15	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP3	5	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP3	10	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP3	15	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP4	5	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP4	10	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP4	15	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP5	6	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP5	9	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP5	10	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP5	15	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP5	20	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP6	5	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP6	10	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP6	15	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP7	5	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP7	10	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP7	15	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP7	20	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone	2-Chloroethylvinyl ether	2-Chlorotoluene	4-Chlorotoluene	4-Isopropyl Toluene	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane
QB-TP7	8	11/13/2008	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<2.5	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12
QB-TP8	10	11/14/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-TP9	5.5	11/14/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-TP9	12	11/14/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-TP10	5	11/14/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	0.0065	<0.0050	<0.0050	<0.0050	<0.0050
QB-TP10	10	11/14/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QB-TP11	10	11/14/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP1	5	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP1	10	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP1	15	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP2	5	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP2	10	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP2	15	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP3	5	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP3	10	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP3	15	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP4	5	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP4	10	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP4	15	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP5	6	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP5	9	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP5	10	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP5	15	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP5	20	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP6	5	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP6	10	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP6	15	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP7	5	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP7	10	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP7	15	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP7	20	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	Bromoform	Bromomethane	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Dichlorotrifluoroethane	Diisopropyl Ether	Ethyl t-Butyl Ether
QB-TP7	8	11/13/2008	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	-	<0.12	<0.12
QB-TP8	10	11/14/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-TP9	5.5	11/14/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-TP9	12	11/14/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-TP10	5	11/14/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-TP10	10	11/14/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-TP11	10	11/14/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP1	5	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP1	10	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP1	15	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP2	5	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP2	10	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP2	15	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP3	5	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP3	10	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP3	15	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP4	5	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP4	10	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP4	15	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP5	6	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP5	9	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP5	10	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP5	15	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP5	20	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP6	5	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP6	10	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP6	15	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP7	5	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP7	10	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP7	15	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP7	20	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene	Methylene Chloride	Methyl-t-butyl ether	Naphthalene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Styrene	t-Amyl Methyl Ether	t-Butyl alcohol	tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene
QB-TP7	8	11/13/2008	0.056J	<0.12	<0.12	0.051J	<0.12	0.16	<0.12	<0.12	<0.12	<0.12	<0.12	<0.62	<0.12	<0.12	0.055J
QB-TP8	10	11/14/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-TP9	5.5	11/14/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-TP9	12	11/14/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-TP10	5	11/14/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0039J	<0.0050	0.0033J	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-TP10	10	11/14/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QB-TP11	10	11/14/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QC-SB/TP1	5	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QC-SB/TP1	10	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QC-SB/TP1	15	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QC-SB/TP2	5	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QC-SB/TP2	10	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QC-SB/TP2	15	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QC-SB/TP3	5	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QC-SB/TP3	10	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QC-SB/TP3	15	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QC-SB/TP4	5	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QC-SB/TP4	10	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QC-SB/TP4	15	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QC-SB/TP5	6	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QC-SB/TP5	9	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QC-SB/TP5	10	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QC-SB/TP5	15	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QC-SB/TP5	20	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QC-SB/TP6	5	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QC-SB/TP6	10	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QC-SB/TP6	15	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QC-SB/TP7	5	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QC-SB/TP7	10	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QC-SB/TP7	15	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QC-SB/TP7	20	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Trichlorotrifluoroethane	Vinyl Chloride	Xylenes (total)
QB-TP7	8	11/13/2008	<0.12	<0.12	<0.12	<0.12	-	<0.12	0.17
QB-TP8	10	11/14/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-TP9	5.5	11/14/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-TP9	12	11/14/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-TP10	5	11/14/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-TP10	10	11/14/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QB-TP11	10	11/14/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP1	5	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP1	10	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP1	15	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP2	5	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP2	10	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP2	15	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP3	5	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP3	10	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP3	15	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP4	5	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP4	10	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP4	15	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP5	6	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP5	9	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP5	10	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP5	15	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP5	20	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP6	5	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP6	10	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP6	15	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP7	5	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP7	10	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP7	15	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP7	20	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane
QC-SB/TP8	5	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP8	10	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP8	15	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP9	5	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP9	10	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP9	15	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP9	20	12/10/2008	<0.0050	<0.0050	0.025	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP10	5	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP10	10	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP10	15	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP11	5	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP11	10	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP11	15	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP12	5	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP12	9	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP12	10	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP12	15	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP12	20	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP13	4	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP13	10	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP13	15	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP14	10	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP14	12.5	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP14	15	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP14	20	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP14	25	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP15	10	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP15	15	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone	2-Chloroethylvinyl ether	2-Chlorotoluene	4-Chlorotoluene	4-Isopropyl Toluene	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane
QC-SB/TP8	5	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP8	10	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP8	15	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP9	5	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP9	10	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP9	15	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP9	20	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP10	5	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP10	10	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP10	15	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP11	5	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP11	10	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP11	15	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP12	5	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP12	9	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP12	10	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP12	15	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP12	20	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP13	4	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP13	10	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP13	15	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP14	10	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP14	12.5	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP14	15	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP14	20	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP14	25	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP15	10	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP15	15	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	Bromoform	Bromomethane	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Dichlorotrifluoroethane	Diisopropyl Ether	Ethyl t-Butyl Ether
QC-SB/TP8	5	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP8	10	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP8	15	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP9	5	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP9	10	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP9	15	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP9	20	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP10	5	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP10	10	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP10	15	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP11	5	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP11	10	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP11	15	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP12	5	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP12	9	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP12	10	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP12	15	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP12	20	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP13	4	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP13	10	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP13	15	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP14	10	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP14	12.5	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP14	15	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP14	20	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP14	25	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP15	10	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP15	15	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene	Methylene Chloride	Methyl-t-butyl ether	Naphthalene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Styrene	t-Amyl Methyl Ether	t-Butyl alcohol	tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene
QC-SB/TP8	5	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QC-SB/TP8	10	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QC-SB/TP8	15	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QC-SB/TP9	5	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QC-SB/TP9	10	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QC-SB/TP9	15	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	0.0024J
QC-SB/TP9	20	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QC-SB/TP10	5	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QC-SB/TP10	10	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QC-SB/TP10	15	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QC-SB/TP11	5	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QC-SB/TP11	10	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QC-SB/TP11	15	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QC-SB/TP12	5	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QC-SB/TP12	9	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QC-SB/TP12	10	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QC-SB/TP12	15	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QC-SB/TP12	20	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QC-SB/TP13	4	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QC-SB/TP13	10	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QC-SB/TP13	15	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QC-SB/TP14	10	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QC-SB/TP14	12.5	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QC-SB/TP14	15	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QC-SB/TP14	20	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QC-SB/TP14	25	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QC-SB/TP15	10	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QC-SB/TP15	15	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Trichlorotrifluoroethane	Vinyl Chloride	Xylenes (total)
QC-SB/TP8	5	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP8	10	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP8	15	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP9	5	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP9	10	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP9	15	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP9	20	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP10	5	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP10	10	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP10	15	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP11	5	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP11	10	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP11	15	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP12	5	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP12	9	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP12	10	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP12	15	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP12	20	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP13	4	12/8/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP13	10	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP13	15	12/10/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP14	10	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP14	12.5	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP14	15	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP14	20	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP14	25	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP15	10	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP15	15	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane
QC-SB/TP15	20	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP16	4.5	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP16	10	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP16	15	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
GP11	45	7/22/2011	<0.044	<0.044	<0.044	<0.044	<0.044	<0.044	<0.044	<0.044	<0.044	<0.044	<0.044	<0.044	<0.044	<0.044	<0.044
TR3b	2	7/6/2011	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	5.6	<0.50	<0.50	<0.50	<0.50
TR5b	5	7/7/2011	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
TR6b	5	7/7/2011	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	3.2	<0.50	<0.50	<0.50	<0.50
TR7c	2	7/8/2011	<0.50	<0.50	5.4	<0.50	<0.50	<0.50	<0.50	<0.50	6.4	<0.50	13	5.6	**1**	<0.50	<0.50
TR9g	5	7/11/2011	<0.047	<0.047	<0.047	<0.047	<0.047	<0.047	<0.047	<0.047	<0.047	<0.047	<0.047	<0.047	<0.047	<0.047	<0.047
TR11c	14	7/13/2011	<0.045	<0.045	0.56	<0.045	<0.045	<0.045	<0.045	<0.045	<0.045	<0.045	<0.045	<0.045	<0.045	<0.045	<0.045
MW11	56	8/2/2011	<0.047	<0.047	<0.047	<0.047	<0.047	<0.047	<0.047	<0.047	<0.047	<0.047	**260**	<0.047	<0.047	<0.047	<0.047
MW11	81	8/2/2011	<0.047	<0.047	<0.047	<0.047	<0.047	<0.047	<0.047	<0.047	<0.047	<0.047	0.94	<0.047	<0.047	<0.047	<0.047
HA031	2	1/28/2013	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
HA032	2	1/28/2013	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051
HA033	2	1/28/2013	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
HA034	2	1/28/2013	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
HA035	2	1/28/2013	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
HA036	2	1/28/2013	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024
HA037	5	1/28/2013	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051
HA038	2	1/28/2013	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
HA038	5	1/28/2013	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
HA039	2	1/28/2013	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
HA039	5	1/28/2013	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
HA040	2	1/28/2013	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
HA040	5	1/28/2013	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
HA041	2	1/28/2013	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024
HA041	5	1/28/2013	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2
HA042	2	1/29/2013	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
HA042	5	1/29/2013	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	0.27	<0.24	<0.24	<0.24	<0.24
HA043	2	1/29/2013	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone	2-Chloroethylvinyl ether	2-Chlorotoluene	4-Chlorotoluene	4-Isopropyl Toluene	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane
QC-SB/TP15	20	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP16	4.5	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP16	10	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
QC-SB/TP16	15	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
GP11	45	7/22/2011	<0.044	<0.044	<0.044	<0.044	<0.044	<0.044	-	-	<0.044	<0.044	<0.044	<0.044	<0.044	<0.044	<0.044
TR3b	2	7/6/2011	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	-	<0.50	<0.50	<0.50	**3.9**	<0.50	<0.50	<0.50
TR5b	5	7/7/2011	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
TR6b	5	7/7/2011	<0.50	0.86	<0.50	<0.50	<0.50	<0.50	-	-	<0.50	<0.50	0.7	<0.50	<0.50	<0.50	<0.50
TR7c	2	7/8/2011	<0.50	3.1	<0.50	<0.50	<0.50	<0.50	-	-	15	7.9	4.1	<0.50	<0.50	<0.50	0.52
TR9g	5	7/11/2011	<0.047	<0.047	<0.047	<0.047	<0.047	<0.047	-	-	<0.047	<0.047	<0.047	<0.047	<0.047	<0.047	<0.047
TR11c	14	7/13/2011	<0.045	<0.045	<0.045	<0.045	<0.045	<0.045	-	-	<0.045	<0.045	<0.045	<0.045	<0.045	<0.045	<0.045
MW11	56	8/2/2011	<0.047	**80**	<0.047	<0.047	<0.047	<0.047	-	-	<0.047	<0.047	55	<0.047	<0.047	<0.047	<0.047
MW11	81	8/2/2011	<0.047	0.066	<0.047	<0.047	<0.047	<0.047	-	-	<0.047	<0.047	0.059	<0.047	<0.047	<0.047	<0.047
HA031	2	1/28/2013	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	-	-	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
HA032	2	1/28/2013	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	-	-	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051
HA033	2	1/28/2013	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
HA034	2	1/28/2013	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
HA035	2	1/28/2013	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	-	-	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
HA036	2	1/28/2013	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	-	-	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024
HA037	5	1/28/2013	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	-	-	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051
HA038	2	1/28/2013	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	-	-	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
HA038	5	1/28/2013	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
HA039	2	1/28/2013	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
HA039	5	1/28/2013	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
HA040	2	1/28/2013	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	-	-	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
HA040	5	1/28/2013	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	-	-	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
HA041	2	1/28/2013	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	-	-	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024
HA041	5	1/28/2013	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	-	-	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2
HA042	2	1/29/2013	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
HA042	5	1/29/2013	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	-	-	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24
HA043	2	1/29/2013	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	Bromoform	Bromomethane	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Dichlorotrifluoroethane	Diisopropyl Ether	Ethyl t-Butyl Ether
QC-SB/TP15	20	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP16	4.5	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP16	10	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP16	15	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
GP11	45	7/22/2011	<0.044	<0.044	<0.044	<0.044	<0.044	<0.044	<0.044	<0.044	<0.044	<0.044	<0.044	<0.044	-	-	-
TR3b	2	7/6/2011	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	-	-
TR5b	5	7/7/2011	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	-
TR6b	5	7/7/2011	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	-	-
TR7c	2	7/8/2011	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	-	-
TR9g	5	7/11/2011	<0.047	<0.047	<0.047	<0.047	<0.047	<0.047	<0.047	<0.047	<0.047	<0.047	<0.047	<0.047	-	-	-
TR11c	14	7/13/2011	<0.045	<0.045	<0.045	<0.045	<0.045	<0.045	<0.045	<0.045	<0.045	<0.045	<0.045	<0.045	-	-	-
MW11	56	8/2/2011	<0.047	<0.047	<0.047	<0.047	<0.047	<0.047	<0.047	<0.047	<0.047	<0.047	<0.047	<0.047	-	-	-
MW11	81	8/2/2011	<0.047	<0.047	<0.047	<0.047	<0.047	<0.047	<0.047	<0.047	<0.047	<0.047	<0.047	<0.047	-	-	-
HA031	2	1/28/2013	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	-	-	-
HA032	2	1/28/2013	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	-	-	-
HA033	2	1/28/2013	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	-
HA034	2	1/28/2013	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	-
HA035	2	1/28/2013	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	-	-	-
HA036	2	1/28/2013	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	-	-	-
HA037	5	1/28/2013	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	-	-	-
HA038	2	1/28/2013	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	-	-	-
HA038	5	1/28/2013	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	-
HA039	2	1/28/2013	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	-
HA039	5	1/28/2013	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	-
HA040	2	1/28/2013	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	-	-	-
HA040	5	1/28/2013	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	-	-	-
HA041	2	1/28/2013	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	-	-	-
HA041	5	1/28/2013	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	-	-	-
HA042	2	1/29/2013	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	-
HA042	5	1/29/2013	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	-	-	-
HA043	2	1/29/2013	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	-

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene	Methylene Chloride	Methyl-t-butyl ether	Naphthalene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Styrene	t-Amyl Methyl Ether	t-Butyl alcohol	tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene
QC-SB/TP15	20	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QC-SB/TP16	4.5	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QC-SB/TP16	10	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
QC-SB/TP16	15	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
GP11	45	7/22/2011	0.79	<0.044	1.1	<0.044	-	<0.044	4	5	4.5	<0.044	-	-	<0.044	<0.044	<0.044
TR3b	2	7/6/2011	8.6	<0.50	3.3	<0.50	-	**15**	<0.50	1.2	3.8	<0.50	-	-	<0.50	<0.50	3.7
TR5b	5	7/7/2011	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	<0.0050	<0.0050	<0.0050
TR6b	5	7/7/2011	1.6	<0.50	0.56	<0.50	-	1.2	0.85	1.1	0.59	<0.50	-	-	<0.50	<0.50	2
TR7c	2	7/8/2011	1.9	<0.50	0.67	<0.50	-	**20**	6	1.4	2.2	<0.50	-	-	<0.50	<0.50	2.9
TR9g	5	7/11/2011	<0.047	<0.047	<0.047	<0.047	-	<0.047	<0.047	<0.047	<0.047	<0.047	-	-	<0.047	<0.047	<0.047
TR11c	14	7/13/2011	<0.045	<0.045	<0.045	<0.045	-	<0.045	<0.045	0.071	0.13	<0.045	-	-	<0.045	<0.045	<0.045
MW11	56	8/2/2011	**140**	<0.047	66	<0.047	-	**21**	**67**	**100**	**49**	<0.047	-	-	0.5	<0.047	**56**
MW11	81	8/2/2011	1.3	<0.047	1.3	<0.047	-	<0.50	1.8	2.3	2.2	<0.047	-	-	<0.047	<0.047	<0.047
HA031	2	1/28/2013	<0.0049	<0.0049	<0.0049	<0.0049	-	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	-	-	<0.0049	<0.0049	0.024
HA032	2	1/28/2013	<0.0051	<0.0051	<0.0051	<0.0051	-	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	-	-	<0.0051	<0.0051	<0.0051
HA033	2	1/28/2013	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	<0.0050	<0.0050	<0.0050
HA034	2	1/28/2013	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	<0.0050	<0.0050	<0.0050
HA035	2	1/28/2013	<0.0049	<0.0049	<0.0049	<0.0049	-	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	-	-	<0.0049	<0.0049	<0.0049
HA036	2	1/28/2013	<0.024	<0.024	<0.024	<0.024	-	<0.024	<0.024	<0.024	<0.024	<0.024	-	-	<0.024	<0.024	<0.024
HA037	5	1/28/2013	<0.0051	<0.0051	<0.0051	<0.0051	-	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	-	-	<0.0051	<0.0051	<0.0051
HA038	2	1/28/2013	<0.0049	<0.0049	<0.0049	<0.0049	-	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	-	-	<0.0049	<0.0049	<0.0049
HA038	5	1/28/2013	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	<0.0050	<0.0050	<0.0050
HA039	2	1/28/2013	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	<0.0050	<0.0050	<0.0050
HA039	5	1/28/2013	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	<0.0050	<0.0050	<0.0050
HA040	2	1/28/2013	<0.0048	<0.0048	<0.0048	<0.0048	-	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	-	-	<0.0048	<0.0048	<0.0048
HA040	5	1/28/2013	<0.0049	<0.0049	<0.0049	<0.0049	-	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	-	-	<0.0049	<0.0049	<0.0049
HA041	2	1/28/2013	<0.024	<0.024	<0.024	<0.024	-	<0.024	<0.024	<0.024	<0.024	<0.024	-	-	<0.024	<0.024	<0.024
HA041	5	1/28/2013	<1.2	<1.2	<1.2	<1.2	-	<1.2	<1.2	<1.2	<1.2	<1.2	-	-	<1.2	<1.2	<1.2
HA042	2	1/29/2013	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	<0.0050	<0.0050	<0.0050
HA042	5	1/29/2013	<0.24	<0.24	<0.24	<0.24	-	<0.24	<0.24	<0.24	<0.24	<0.24	-	-	<0.24	<0.24	0.24
HA043	2	1/29/2013	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Trichlorotrifluoroethane	Vinyl Chloride	Xylenes (total)
QC-SB/TP15	20	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP16	4.5	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP16	10	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
QC-SB/TP16	15	12/9/2008	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
GP11	45	7/22/2011	<0.044	<0.044	<0.044	<0.044	-	<0.044	<0.044
TR3b	2	7/6/2011	<0.50	<0.50	<0.50	<0.50	-	<0.50	8.8
TR5b	5	7/7/2011	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
TR6b	5	7/7/2011	<0.50	<0.50	<0.50	<0.50	-	<0.50	4.9
TR7c	2	7/8/2011	<0.50	<0.50	<0.50	<0.50	-	<0.50	15
TR9g	5	7/11/2011	<0.047	<0.047	<0.047	<0.047	-	<0.047	<0.047
TR11c	14	7/13/2011	<0.045	<0.045	<0.045	<0.045	-	<0.045	<0.045
MW11	56	8/2/2011	<0.047	<0.047	<0.047	<0.047	-	<0.047	**320**
MW11	81	8/2/2011	<0.047	<0.047	<0.047	<0.047	-	<0.047	0.98
HA031	2	1/28/2013	<0.0049	<0.0049	<0.0049	<0.0049	-	<0.0049	0.0054
HA032	2	1/28/2013	<0.0051	<0.0051	<0.0051	<0.0051	-	<0.0051	<0.0051
HA033	2	1/28/2013	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
HA034	2	1/28/2013	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
HA035	2	1/28/2013	<0.0049	<0.0049	<0.0049	<0.0049	-	<0.0049	<0.0049
HA036	2	1/28/2013	<0.024	<0.024	<0.024	<0.024	-	<0.024	<0.024
HA037	5	1/28/2013	<0.0051	<0.0051	<0.0051	<0.0051	-	<0.0051	<0.0051
HA038	2	1/28/2013	<0.0049	<0.0049	<0.0049	<0.0049	-	<0.0049	<0.0049
HA038	5	1/28/2013	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
HA039	2	1/28/2013	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
HA039	5	1/28/2013	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
HA040	2	1/28/2013	<0.0048	<0.0048	<0.0048	<0.0048	-	<0.0048	<0.0048
HA040	5	1/28/2013	<0.0049	<0.0049	<0.0049	<0.0049	-	<0.0049	<0.0049
HA041	2	1/28/2013	<0.024	<0.024	<0.024	<0.024	-	<0.024	<0.024
HA041	5	1/28/2013	<1.2	<1.2	<1.2	<1.2	-	<1.2	<1.2
HA042	2	1/29/2013	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
HA042	5	1/29/2013	<0.24	<0.24	<0.24	<0.24	-	<0.24	0.42
HA043	2	1/29/2013	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane
HA043	5	1/29/2013	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	0.92	<0.24	<0.24	<0.24	<0.24
HA044	2	1/29/2013	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
HA044	5	1/29/2013	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
HA045	2	1/29/2013	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.043	<0.0050	<0.0050	<0.0050	<0.0050
HA045	5	1/29/2013	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
HA046	2	1/29/2013	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
HA046	5	1/29/2013	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
HA047	2	1/29/2013	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
HA047	5	1/29/2013	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
HA048	2	1/29/2013	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
HA048	5	1/29/2013	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
HA049	2	1/29/2013	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24
HA049	5	1/29/2013	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
HA050	2	1/29/2013	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
HA050	5	1/29/2013	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
HA051	2	1/29/2013	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
HA051	5	1/29/2013	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
HA052	2	1/30/2013	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
HA052	5	1/30/2013	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
HA053	5	1/30/2013	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
SBFPD Investigation Levels													**33**		**0.5**		**5.0**

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone	2-Chloroethylvinyl ether	2-Chlorotoluene	4-Chlorotoluene	4-Isopropyl Toluene	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane
HA043	5	1/29/2013	<0.24	0.26	<0.24	<0.24	<0.24	<0.24	-	-	<0.24	<0.24	0.24	0.26	<0.24	<0.24	<0.24
HA044	2	1/29/2013	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
HA044	5	1/29/2013	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	-	-	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
HA045	2	1/29/2013	<0.0050	0.016	<0.0050	<0.0050	<0.0050	<0.0050	-	-	<0.0050	<0.0050	0.0059	<0.0050	<0.0050	<0.0050	<0.0050
HA045	5	1/29/2013	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
HA046	2	1/29/2013	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	-	-	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
HA046	5	1/29/2013	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
HA047	2	1/29/2013	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
HA047	5	1/29/2013	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
HA048	2	1/29/2013	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
HA048	5	1/29/2013	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
HA049	2	1/29/2013	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	-	-	<0.24	<0.24	0.34	0.28	<0.24	<0.24	<0.24
HA049	5	1/29/2013	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	-	-	<0.25	<0.25	<0.25	0.32	<0.25	<0.25	<0.25
HA050	2	1/29/2013	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
HA050	5	1/29/2013	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	-	-	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
HA051	2	1/29/2013	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
HA051	5	1/29/2013	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	-	-	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
HA052	2	1/30/2013	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	-	-	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
HA052	5	1/30/2013	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
HA053	5	1/30/2013	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
SBFPD Investigation Levels				**21**										**0.1**			

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	Bromoform	Bromomethane	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Dichlorotrifluoroethane	Diisopropyl Ether	Ethyl t-Butyl Ether
HA043	5	1/29/2013	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	-	-	-
HA044	2	1/29/2013	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	-
HA044	5	1/29/2013	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	-	-	-
HA045	2	1/29/2013	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	-
HA045	5	1/29/2013	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	-
HA046	2	1/29/2013	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	-	-	-
HA046	5	1/29/2013	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	-
HA047	2	1/29/2013	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	-
HA047	5	1/29/2013	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	-
HA048	2	1/29/2013	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	-
HA048	5	1/29/2013	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	-
HA049	2	1/29/2013	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	-	-	-
HA049	5	1/29/2013	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	-	-	-
HA050	2	1/29/2013	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	-
HA050	5	1/29/2013	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	-	-	-
HA051	2	1/29/2013	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	-
HA051	5	1/29/2013	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	-	-	-
HA052	2	1/30/2013	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	-	-	-
HA052	5	1/30/2013	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	-
HA053	5	1/30/2013	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	-
SBFPD Investigation Levels																	

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene	Methylene Chloride	Methyl-t-butyl ether	Naphthalene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Styrene	t-Amyl Methyl Ether	t-Butyl alcohol	tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene
HA043	5	1/29/2013	1.2	<0.24	0.28	<0.24	-	<0.24	<0.24	0.33	<0.24	<0.24	-	-	<0.24	<0.24	0.7
HA044	2	1/29/2013	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	<0.0050	<0.0050	<0.0050
HA044	5	1/29/2013	<0.0049	<0.0049	<0.0049	<0.0049	-	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	-	-	<0.0049	<0.0049	<0.0049
HA045	2	1/29/2013	0.0078	<0.0050	<0.0050	<0.0050	-	0.012	<0.0050	<0.0050	<0.0050	<0.0050	-	-	<0.0050	<0.0050	0.0099
HA045	5	1/29/2013	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	<0.0050	<0.0050	<0.0050
HA046	2	1/29/2013	<0.0049	<0.0049	<0.0049	<0.0049	-	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	-	-	<0.0049	<0.0049	<0.0049
HA046	5	1/29/2013	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	<0.0050	<0.0050	<0.0050
HA047	2	1/29/2013	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	<0.0050	<0.0050	<0.0050
HA047	5	1/29/2013	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	<0.0050	<0.0050	<0.0050
HA048	2	1/29/2013	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	<0.0050	<0.0050	<0.0050
HA048	5	1/29/2013	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	<0.0050	<0.0050	<0.0050
HA049	2	1/29/2013	0.33	<0.24	<0.24	<0.24	-	<0.24	<0.24	<0.24	<0.24	<0.24	-	-	<0.24	<0.24	<0.24
HA049	5	1/29/2013	1.1	<0.25	0.29	<0.25	-	<0.25	<0.25	0.41	<0.25	<0.25	-	-	<0.25	<0.25	<0.25
HA050	2	1/29/2013	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	<0.0050	<0.0050	<0.0050
HA050	5	1/29/2013	<0.0049	<0.0049	<0.0049	<0.0049	-	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	-	-	<0.0049	<0.0049	<0.0049
HA051	2	1/29/2013	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	<0.0050	0.035	<0.0050
HA051	5	1/29/2013	<0.0049	<0.0049	<0.0049	<0.0049	-	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	-	-	<0.0049	<0.0049	<0.0049
HA052	2	1/30/2013	<0.0049	<0.0049	<0.0049	<0.0049	-	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	-	-	<0.0049	<0.0049	<0.0049
HA052	5	1/30/2013	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	<0.0050	<0.0050	<0.0050
HA053	5	1/30/2013	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	<0.0050	<0.0050	<0.0050
SBFPD Investigation Levels			**70**		**77**		**0.05**	**1.7**	**26**	**26**	**26**			**0.12**	**26**		**15**

Notes:

All results in milligrams per kilogram (mg/kg)

<10: Concentration less than the associated laboratory Reporting Limit (RL).

J: Estimated concentration detected between the Method Detection Limit and the Reporting Limit.

B: The method blank contains analyte at concentration greater than the RL.

Bold: Concentration > SBFPPD Investigation Level

EPA Method 8260

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road

Sample Location	Depth	Date	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Trichlorotrifluoroethane	Vinyl Chloride	Xylenes (total)
HA043	5	1/29/2013	<0.24	<0.24	<0.24	<0.24	-	<0.24	3.3
HA044	2	1/29/2013	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
HA044	5	1/29/2013	<0.0049	<0.0049	<0.0049	<0.0049	-	<0.0049	<0.0049
HA045	2	1/29/2013	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	0.093
HA045	5	1/29/2013	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
HA046	2	1/29/2013	<0.0049	<0.0049	<0.0049	<0.0049	-	<0.0049	<0.0049
HA046	5	1/29/2013	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
HA047	2	1/29/2013	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
HA047	5	1/29/2013	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
HA048	2	1/29/2013	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
HA048	5	1/29/2013	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
HA049	2	1/29/2013	<0.24	<0.24	<0.24	<0.24	-	<0.24	0.37
HA049	5	1/29/2013	<0.25	<0.25	<0.25	<0.25	-	<0.25	<0.25
HA050	2	1/29/2013	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
HA050	5	1/29/2013	<0.0049	<0.0049	<0.0049	<0.0049	-	<0.0049	<0.0049
HA051	2	1/29/2013	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
HA051	5	1/29/2013	<0.0049	<0.0049	<0.0049	<0.0049	-	<0.0049	<0.0049
HA052	2	1/30/2013	<0.0049	<0.0049	<0.0049	<0.0049	-	<0.0049	<0.0049
HA052	5	1/30/2013	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
HA053	5	1/30/2013	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
SBFPD Investigation Levels									**175**

Post remediation samples

Table 1
Soil Analytical Results - Total Petroleum Hydrocarbons and BTEX
Former Orcutt Refinery
1550 West Stowell Road
Santa Maria, California

Sample Location	Date	Depth (bfg)	TPHg (C4-C12)	TPHd (C13-C22)	TPHo (C23-C40)	Total TPH (C4-C40)	Benzene	Toluene	Ethylbenzene	Total Xylenes
Area1-Bot1-5'	6/13/2014	8	<0.50	**2,300**	**5,300**	**7,600**	<0.0049	<0.0049	<0.0049	<0.0049
Area1-Bot2-5'	6/13/2014	8	**590**	**18,000**	**13,000**	**31,590**	<2.4	<2.4	<2.4	<2.4
Area1-Bot3-5'	6/13/2014	8	**5,100**	**700**	**880**	**6,680**	**4.9**	<2.5	**13**	<2.5
Area1-Bot4-5'	6/13/2014	8	<0.49	**2,000**	**2,500**	**4,500**	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot5-5'	6/13/2014	8	<0.50	**1,300**	**2,700**	**4,000**	<0.0048	<0.0048	<0.0048	<0.0048
Area1-Bot6-6.5'	6/13/2014	8	<0.49	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot7-5'	6/18/2014	8	**1,200**	**17,000**	**16,000**	**34,200**	<2.5	<2.5	**3.3**	**5.6**
Area1-Bot8-5'	6/18/2014	8	<0.49	**1,400**	**2,600**	**4,000**	**0.04**	<0.024	<0.024	<0.024
Area1-Bot9-5'	6/18/2014	8	**1,300**	**1,300**	**1,300**	**3,900**	<2.5	<2.5	**2.5**	<2.5
Area1-Bot10-5'	6/18/2014	9	**970**	**3,300**	**3,100**	**7,370**	<2.5	<2.5	<2.5	<2.5
Area1-Bot11-5'	6/25/2014	7	<0.48	<10	<50	ND	<0.0047	<0.0047	<0.0047	<0.0047
Area1-Bot13-5'	6/25/2014	8	<0.50	<10	<50	ND	<0.0051	<0.0051	<0.0051	<0.0051
Area1-Bot14-5'	6/25/2014	7	**6,400**	**1,100**	**1,400**	**8,900**	**6.4**	**18**	**18**	**55**
Area1-Bot15-6'	6/25/2014	8	**1,700**	**750**	**1,000**	**3,450**	**1.3**	<1.2	**4.5**	<1.2
Area1-Bot16-6'	6/25/2014	8	**610**	**8,500**	**7,800**	**16,910**	<1.2	<1.2	<1.2	<1.2
Area1-Bot17-6'	6/25/2014	8	<0.50	**730**	**1,500**	**2,230**	<0.0047	<0.0047	<0.0047	<0.0047
Area1-Bot18-6'	6/25/2014	7	<0.50	<10	<50	ND	<0.0046	<0.0046	<0.0046	<0.0046
Area1-Bot19-8'	7/2/2014	8	<0.50	**30**	<50	**30**	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot20-8'	7/2/2014	8	<0.50	**270**	**360**	**630**	<0.0049	<0.0049	<0.0049	<0.0049
Area1-Bot21-8'	7/2/2014	8	<0.49	**270**	**160**	**430**	<0.025	<0.025	<0.025	<0.025
Area1-Bot22-7.5'	7/2/2014	8	**5.0**	**240**	**270**	**515**	<0.25	**0.88**	**2.8**	**18**
Area1-Bot23-7'	7/2/2014	8	<0.50	**390**	**520**	**910**	<0.024	<0.024	<0.024	<0.024
Area1-Bot24-6.5'	7/9/2014	9	**520**	**4,100**	**4,000**	**8,620**	<2.5	<2.5	<2.5	<2.5
Area1-Bot25-6.5'	7/9/2014	9	**1,200**	**1,900**	**1,900**	**5,000**	<2.4	<2.4	<2.4	<2.4
Area1-Bot26-13'	7/16/2014	13	**1,600**	**13,000**	**16,000**	**30,600**	<2.5	<2.5	<2.5	**3.5**
Area1-Bot27-13'	7/16/2014	13	**920**	**13,000**	**18,000**	**31,920**	<2.5	**6.6**	**4.1**	**18**
Area1-Bot28-11'	7/23/2014	11	**2,100**	**32,000**	**29,000**	**63,100**	**2.3**	**5.5**	**5.6**	**18**
Area1-Bot29-10'	7/23/2014	10	**690**	**21,000**	**29,000**	**50,690**	**0.66**	**1.8**	**2.5**	**5.3**
Area1-Bot30-11'	7/23/2014	14	**1,200**	**26,000**	**16,000**	**43,200**	**2.0**	**3.2**	**3.2**	**9.6**
Area1-Bot31-11'	7/23/2014	14	**2,100**	**12,000**	**12,000**	**26,100**	**2.6**	<0.63	**21**	**3.9**
Area1-Bot32-7'	7/30/2014	9	**2,800**	**4,000**	**3,200**	**10,000**	<1.2	<1.2	<1.2	**4.6**
Area1-Bot33-14'	7/30/2014	14	**100**	**7,500**	**26,000**	**33,600**	**0.031**	**0.081**	**0.036**	**0.11**
Area1-Bot34-14'	7/30/2014	14	**69**	**8,200**	**35,000**	**43,269**	<0.24	<0.24	**0.28**	**0.69**
Area1-Bot35-13'	7/30/2014	13	**210**	**2,800**	**6,300**	**9,310**	<0.25	<0.25	**0.48**	**0.92**
Area1-Bot36-11'	7/30/2014	13	**840**	**2,000**	**2,200**	**5,040**	<1.1	**1.6**	**2.2**	**6.7**
Area1-Bot37-11'	7/30/2014	12	**100**	**1,300**	**960**	**2,360**	<0.25	<0.25	<0.25	<0.25
Area1-Bot38-12'	7/30/2014	13	**200**	**6,000**	**20,000**	**26,200**	**0.25**	**0.48**	**1.1**	**3.0**
Area1-Bot39-13'	7/30/2014	13	**57**	**11,000**	**28,000**	**39,057**	<0.23	<0.23	**0.27**	**0.93**
Area1-Bot40-14'	7/30/2014	13	**59**	**3,800**	**17,000**	**20,859**	<0.024	**0.061**	<0.024	**0.079**
Area1-Bot41-8'	7/30/2014	8	<0.50	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
Area1-Bot42-7'	7/30/2014	7	<0.50	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
Area1-Bot43-6'	7/30/2014	7	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
Area1-Bot44-6'	7/30/2014	8	<0.50	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
Area1-Bot45-7'	7/30/2014	8	**650**	**13,000**	**13,000**	**26,650**	<1.2	<1.2	<1.2	**1.3**
Area1-Bot46-7'	8/6/2014	7	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot47-7.5'	8/6/2014	8	<0.50	**130**	**180**	**310**	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot48-8'	8/6/2014	9	**56**	**1,800**	**3,100**	**4,956**	<0.25	<0.25	**0.59**	<0.25
Area1-Bot49-7'	8/6/2014	7	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot50-7.5'	8/6/2014	8	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot51-6'	8/6/2014	7	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot52-8'	8/6/2014	9	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot53-4'	8/6/2014	4	<0.49	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot54-4'	8/6/2014	4	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot55-3'	8/6/2014	3	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot56-4'	8/6/2014	4	<0.50	**3,400**	**8,000**	**11,400**	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot56a-7'	8/18/2014	7	<0.49	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot57-2.5'	8/7/2014	5	<0.49	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot58-1.5'	8/7/2014	5	<0.49	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot59-1.5'	8/7/2014	3	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
Area1-Bot60-7'	8/7/2014	8	<0.49	**4,100**	**7,800**	**11,900**	<0.0050	<0.0050	<0.0050	<0.0050

Table 1
Soil Analytical Results - Total Petroleum Hydrocarbons and BTEX
Former Orcutt Refinery
1550 West Stowell Road
Santa Maria, California

Sample Location	Date	Depth (bfg)	TPHg (C4-C12)	TPHd (C13-C22)	TPHo (C23-C40)	Total TPH (C4-C40)	Benzene	Toluene	Ethylbenzene	Total Xylenes
Area1-Bot61-1.5'	8/7/2014	3	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot62-7'	8/7/2014	8	<0.49	**130**	**300**	**430**	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot63-4'	8/7/2014	4	<0.49	**560**	**1,200**	**1,760**	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot63a-6'	8/18/2014	7	<0.49	**1,600**	**1,800**	**3,400**	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot64-4'	8/7/2014	5	<0.50	**13**	**76**	**89**	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot65-6'	8/18/2014	7	<0.49	**73**	<50	**73**	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot66-2'	8/18/2014	4	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
Area1-Bot67-1'	8/18/2014	3	<0.48	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
Area1-Bot68-1'	8/18/2014	4	<0.49	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot69-5.5'	8/18/2014	8	<0.49	**31**	<50	**31**	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot70-7'	8/18/2014	8	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
Area1-Bot71-7'	8/18/2014	8	<0.49	**750**	<500	**750**	<0.025	<0.025	<0.025	<0.025
Area1-Bot72-7'	8/18/2014	8	**810**	**2,100**	**1,500**	**4,410**	<2.5	<2.5	<2.5	<2.5
Area1-Bot73-7'	8/18/2014	8	**130**	**800**	<480	**930**	<0.25	<0.25	<0.25	<0.25
Area1-Bot74-8'	8/18/2014	9	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot75-7'	8/18/2014	7	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
Area1-Bot76-2'	8/18/2014	3	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot77-2.5'	8/18/2014	3	<0.50	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
Area1-Bot78-2'	8/18/2014	2	<0.49	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot79-2'	8/18/2014	2	<0.49	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot80-7'	8/18/2014	7	**490**	**13,000**	**12,000**	**25,490**	<2.5	<2.5	<2.5	<2.5
Area1-SW-W1-2.5'	7/25/2014	5	<0.50	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
Area1-SW-W2-2.5'	7/25/2014	4	<0.49	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-W3-2'	7/25/2014	4	<0.50	**41**	<50	**41**	<0.0049	<0.0049	<0.0049	<0.0049
Area1-SW-W4-2'	7/25/2014	7	<0.50	**200**	**1,200**	**1,400**	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-W5-2.5'	8/18/2014	7	<0.50	**56**	<50	**56**	<0.0051	<0.0051	<0.0051	<0.0051
Area1-SW-W6-2.5'	8/18/2014	6	<0.50	**11**	<50	**11**	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-W7-1'	8/18/2014	3	<0.49	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-W8-3'	8/18/2014	6	<0.49	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-W9-2'	8/18/2014	3	<0.49	**79**	**82**	**161**	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-W10-2'	8/18/2014	3	<0.49	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-W11-1'	8/18/2014	1	<0.49	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-W12-2'	8/18/2014	2	<0.50	**33**	**160**	**193**	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-W13-1.5'	8/22/2014	2	<0.50	**490**	**1,800**	**2,290**	<0.0049	<0.0049	<0.0049	<0.0049
Area1-SW-W13a-1.5'	9/24/2014	2	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
Area1-SW-S1-2'	7/25/2014	5	<0.49	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-S2-2.5'	7/25/2014	5	<0.49	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-S3-2.5'	7/25/2014	5	<0.50	**270**	**2,000**	**2,270**	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-S4-2.5'	7/25/2014	5	<0.49	**930**	**4,700**	**5,630**	<0.0048	<0.0048	<0.0048	<0.0048
Area1-SW-S5-3'	7/25/2014	5	<0.50	**460**	**1,800**	**2,260**	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-S5A-2.5'	7/29/2014	5	<0.50	**160**	**420**	**580**	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-E1-3'	7/25/2014	4	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-E2-2.5'	7/25/2014	5	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
Area1-SW-E3-3'	7/30/2014	5	<0.50	**590**	**2,700**	**3,290**	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-E3A-2'	8/12/2014	3	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-E4-2'	7/30/2014	3	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
Area1-SW-E5-2'	8/7/2014	4	<0.50	**26**	**180**	**206**	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-E6-2.5'	8/7/2014	3	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
Area1-SW-E7-2'	8/7/2014	2	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-E8-2'	8/7/2014	3	<0.50	**340**	**1,200**	**1,540**	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-E8a-3'	8/18/2014	3	<0.50	**280**	**960**	**1,240**	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-E8b-1.5'	8/18/2014	2	<0.49	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-E9-2'	8/7/2014	2	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
Area1-SW-E10-1.5'	8/7/2014	1	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-E11-1.5'	8/7/2014	1	<0.50	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
Area1-SW-N1-3'	9/22/2014	3	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-N2-3'	9/22/2014	3	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-N3-3'	9/23/2014	3	<0.50	<10	<50	ND	<0.0051	<0.0051	<0.0051	<0.0051
Area1-SW-N4-3'	9/23/2014	3	<0.50	**1,200**	**3,100**	**4,300**	<0.0049	<0.0049	<0.0049	<0.0049
Area1-SW-N5-3'	9/23/2014	3	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049

Table 1
Soil Analytical Results - Total Petroleum Hydrocarbons and BTEX
Former Orcutt Refinery
1550 West Stowell Road
Santa Maria, California

Sample Location	Date	Depth (bfg)	TPHg (C4-C12)	TPHd (C13-C22)	TPHo (C23-C40)	Total TPH (C4-C40)	Benzene	Toluene	Ethylbenzene	Total Xylenes
Area1-SW-N6-3'	9/23/2014	3	<0.49	<10	<50	ND	<0.0051	<0.0051	<0.0051	<0.0051
Area1-SW-N7-3'	9/23/2014	3	<0.49	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-N8-3'	9/24/2014	3	<0.48	<10	<50	ND	<0.0048	<0.0048	<0.0048	<0.0048
Area1-SW-N9-3'	9/24/2014	3	<0.50	<10	<50	ND	<0.0048	<0.0048	<0.0048	<0.0048
Area1-SW-N10-3'	9/24/2014	3	<0.49	<10	<50	ND	<0.0048	<0.0048	<0.0048	<0.0048
Area1-PH1-5.5'	6/26/2014	6	<0.49	<10	<50	ND	<0.0048	<0.0048	<0.0048	<0.0048
Area1-PH2-6'	6/26/2014	8	<0.50	<10	<50	ND	<0.0046	<0.0046	<0.0046	<0.0046
Area1-PH3-7'	6/26/2014	7	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
Area1-PH4-7'	6/26/2014	7	<0.50	<10	<50	ND	<0.0048	<0.0048	<0.0048	<0.0048
Area1/6-Bot1-7'	8/22/2014	8	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
Area1/6-Bot2-7'	8/22/2014	8	<0.50	<10	<50	ND	<0.0048	<0.0048	<0.0048	<0.0048
Area2-Bot1-5.5'	5/29/2014	6	<0.49	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
Area2-Bot2-5.5'	5/29/2014	7	<0.50	**24**	<50	**24**	<0.0048	<0.0048	<0.0048	<0.0048
Area2-Bot3-5.5'	5/29/2014	7	<0.49	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
Area2-Bot4-5.5'	5/29/2014	7	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
Area2-SW-E1-2'	5/29/2014	4	<0.50	**57**	**270**	**327**	<0.0050	<0.0050	<0.0050	<0.0050
Area2-SW-N1-2'	5/29/2014	4	<0.49	**33**	**130**	**163**	<0.0050	<0.0050	<0.0050	<0.0050
Area2-SW-N2-2'	5/29/2014	4	<0.50	**77**	**730**	**807**	<0.0050	<0.0050	<0.0050	<0.0050
Area2-SW-S1-2'	5/29/2014	5	<0.50	**130**	**660**	**790**	<0.0049	<0.0049	<0.0049	<0.0049
Area2-SW-S2-2'	5/29/2014	5	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
Area2-SW-W1-2'	5/29/2014	2	<0.49	**130**	**680**	**810**	<0.0049	<0.0049	<0.0049	<0.0049
Area2-SW-W2-2'	5/29/2014	3	<0.50	**17**	**58**	**75**	<0.0048	<0.0048	<0.0048	<0.0048
Area3-Bot1-7.5'	6/10/2014	8	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
Area3-Bot2-7.5'	6/10/2014	8	<0.50	**160**	**450**	**610**	<0.0048	<0.0048	<0.0048	<0.0048
Area3-Bot3-7.5'	6/10/2014	8	<0.51	**140**	**260**	**400**	<0.0048	<0.0048	<0.0048	<0.0048
Area3-Bot4-3'	8/12/2014	5	<0.50	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
Area3-Bot5-4'	8/12/2014	6	<0.49	**67**	**87**	**154**	<0.0050	<0.0050	<0.0050	<0.0050
Area3-SW-E2-3'	6/19/2014	3	<0.48	**150**	**660**	**810**	<0.0050	<0.0050	<0.0050	<0.0050
Area3-SW-N1-3'	6/10/2014	5	<0.49	**1,800**	**2,500**	**4,300**	<0.0050	<0.0050	<0.0050	<0.0050
Area3-SW-N2-3'	6/10/2014	3	<0.49	**21**	**96**	**117**	<0.0050	<0.0050	<0.0050	<0.0050
Area3-SW-N3-2'	8/22/2014	2	<0.50	**57**	**370**	**427**	<0.0049	<0.0049	<0.0049	<0.0049
Area3-SW-N4-2'	8/22/2014	2	<0.50	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
Area3-SW-N5-2'	8/22/2014	2	<0.50	**190**	**700**	**890**	<0.0048	<0.0048	<0.0048	<0.0048
Area3-SW-S1-3.5'	6/10/2014	3	<0.50	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
Area3-SW-W1-3'	6/10/2014	4	<0.50	**24**	**140**	**164**	<0.0050	<0.0050	<0.0050	<0.0050
Area3-SW-W2-3'	6/19/2014	4	<0.49	**8,500**	**15,000**	**23,500**	<0.0050	<0.0050	<0.0050	<0.0050
Area3-SW-W3-1'	8/12/2014	2	<0.50	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
Area3-SW-W4-1'	8/12/2014	1	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
Area3-SW-W5-1.5'	8/12/2014	1	<0.50	**74**	**330**	**404**	<0.0050	<0.0050	<0.0050	<0.0050
Area3-SW-W6-3'	8/12/2014	4	<0.50	**11**	<50	**11**	<0.0050	<0.0050	<0.0050	<0.0050
Area3-SW-W7-2'	8/18/2014	2	<0.49	**460**	**800**	**1,260**	<0.0050	<0.0050	<0.0050	<0.0050
Area4-Bot1-7.5'	6/6/2014	7	<0.49	**2,000**	**4,300**	**6,300**	<0.0050	<0.0050	<0.0050	<0.0050
Area4-Bot2-7.5'	6/6/2014	7	<0.49	**11**	<50	**11**	<0.0050	<0.0050	<0.0050	<0.0050
Area4-Bot3-8'	6/6/2014	7	<0.49	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
Area4-Bot4-6.5'	6/6/2014	7	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
Area4-Bot5-6.5'	6/6/2014	6	<0.50	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
Area4-Bot6-7'	6/6/2014	7	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
Area4-Bot7-7.5'	6/10/2014	7	<0.49	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
Area4-SW-E1-3'	6/6/2014	3	<0.50	**80**	**75**	**155**	<0.0050	<0.0050	<0.0050	<0.0050
Area4-SW-N1-2'	6/6/2014	2	<0.49	**5,800**	**7,400**	**13,200**	<0.0050	<0.0050	<0.0050	<0.0050
Area4-SW-N1a-3'	8/18/2014	3	<0.50	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
Area4-SW-N2-3'	6/6/2014	3	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
Area4-SW-N3-3'	6/6/2014	3	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
Area4-SW-N4-3'	6/6/2014	3	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
Area4-SW-N5-3'	6/6/2014	3	<0.51	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
Area4-SW-N6-3'	6/6/2014	3	<0.49	**12**	<50	**12**	<0.0048	<0.0048	<0.0048	<0.0048
Area4-SW-S1-3'	6/6/2014	3	<0.49	**630**	**1,600**	**2,230**	<0.0050	<0.0050	<0.0050	<0.0050
Area4-SW-S2-3'	6/6/2014	3	**16**	**4,200**	**4,000**	**8,216**	<0.050	**0.069**	**0.14**	**0.50**
Area4-SW-S3-3'	6/6/2014	3	<0.49	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
Area4-SW-S4-3'	6/6/2014	3	<0.49	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050

Table 1
Soil Analytical Results - Total Petroleum Hydrocarbons and BTEX
Former Orcutt Refinery
1550 West Stowell Road
Santa Maria, California

Sample Location	Date	Depth (bfg)	TPHg (C4-C12)	TPHd (C13-C22)	TPHo (C23-C40)	Total TPH (C4-C40)	Benzene	Toluene	Ethylbenzene	Total Xylenes
Area4-SW-S5-3'	6/6/2014	3	<0.49	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
Area4-SW-S6-1.5'	7/2/2014	1	<0.50	**1,500**	**4,200**	**5,700**	<0.0049	<0.0049	<0.0049	<0.0049
Area4-SW-S7-1.5'	7/2/2014	1	**980**	**18,000**	**17,000**	**35,980**	<2.4	<2.4	<2.4	**6.1**
Area4-SW-S8-1.5'	7/2/2014	1	<0.50	**2,000**	**4,100**	**6,100**	<0.0049	<0.0049	<0.0049	<0.0049
Area4-SW-S9-1'	7/2/2014	1	<0.50	**1,000**	**2,200**	**3,200**	<0.0050	<0.0050	<0.0050	<0.0050
Area4-SW-W1-2'	6/6/2014	2	<0.50	**68**	**100**	**168**	<0.0050	<0.0050	<0.0050	<0.0050
Area5-Bot1-1.5'	7/9/2014	3	<0.48	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
Area6-Bot1-5'	7/11/2014	7	<0.48	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
Area6-Bot2-6'	7/11/2014	8	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
Area6-Bot3-7'	7/11/2014	9	<0.50	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
Area6-SW-E1-3'	7/11/2014	6	<0.50	**540**	**880**	**1,420**	<0.0050	<0.0050	<0.0050	<0.0050
Area6-SW-E2-2.5'	7/11/2014	6	<0.49	**2,600**	**4,500**	**7,100**	<0.0049	<0.0049	<0.0049	<0.0049
Area6-SW-E3-2'	7/15/2014	6	<0.49	**1,100**	**930**	**2,030**	<0.0050	<0.0050	<0.0050	<0.0050
Area6-SW-N1-3'	7/11/2014	6	<0.49	**140**	**640**	**780**	<0.0048	<0.0048	<0.0048	<0.0048
Area6-SW-N2-3'	7/11/2014	6	<0.50	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
Area6-SW-S1-2'	7/11/2014	6	<0.49	**78**	**200**	**278**	<0.0049	<0.0049	<0.0049	<0.0049
Area6-SW-S2-2'	7/11/2014	6	<0.49	**100**	**610**	**710**	<0.0049	<0.0049	<0.0049	<0.0049
Area6-SW-W1-3'	7/11/2014	5	<0.50	**170**	**690**	**860**	<0.0050	<0.0050	<0.0050	<0.0050
Area7-Bot1-3'	7/15/2014	3	<0.50	<10	<50	ND	<0.0047	<0.0047	<0.0047	<0.0047
Area7-Bot2-4'	7/15/2014	4	<0.49	<10	<50	ND	<0.0047	<0.0047	<0.0047	<0.0047
Area7-Bot3-7'	7/15/2014	7	<0.50	<10	<50	ND	<0.0048	<0.0048	<0.0048	<0.0048
Area7-Bot4-6'	7/15/2014	6	<0.50	**320**	**530**	**850**	<0.0049	<0.0049	<0.0049	<0.0049
Area7-Bot5-3'	7/15/2014	3	<0.49	**44**	**100**	**144**	<0.0050	<0.0050	<0.0050	<0.0050
Area7-Bot5A-4'	7/22/2014	4	<0.50	**13**	<50	**13**	<0.0050	<0.0050	<0.0050	<0.0050
Area7-Bot6-3'	7/22/2014	3	<0.51	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
Area7-SW-E1-1'	7/22/2014	1	<0.49	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
Area7-SW-N1-1'	7/22/2014	1	<0.48	**460**	**1,200**	**1,660**	<0.0050	<0.0050	<0.0050	<0.0050
Area7-SW-N2-1'	7/22/2014	1	<0.49	**12**	<50	**12**	<0.0049	<0.0049	<0.0049	<0.0049
Area7-SW-N3-1.5'	7/22/2014	1	<0.49	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
Area7-SW-N4-2'	7/22/2014	2	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
Area7-SW-N5-2'	7/22/2014	2	<0.50	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
Area7-SW-N6-1'	7/22/2014	1	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
Area7-SW-S1-1.5'	7/22/2014	2	<0.49	**410**	**1,100**	**1,510**	<0.0048	<0.0048	<0.0048	<0.0048
Area7-SW-S2-1'	7/22/2014	1	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
Area7-SW-S3-1.5'	7/22/2014	2	<0.49	**92**	**190**	**282**	<0.0049	<0.0049	<0.0049	<0.0049
Area7-SW-S4-2.5'	7/22/2014	2	<0.50	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
Area7-SW-S5-1'	7/22/2014	2	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
Area7-SW-S6-1'	7/22/2014	2	<0.50	<10	<50	ND	<0.0048	<0.0048	<0.0048	<0.0048
Area7-SW-W1-1.5'	7/22/2014	1	<0.50	**69**	**300**	**369**	<0.0050	<0.0050	<0.0050	<0.0050
Area8-Bot1-5'	9/3/2014	5	<0.50	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
Area8-Bot2-5'	9/3/2014	5	<0.50	<10	<50	ND	<0.0047	<0.0047	<0.0047	<0.0047
Area8-Bot3-5'	9/3/2014	6	<0.50	**1,900**	**2,200**	**4,100**	<0.0051	<0.0051	<0.0051	<0.0051
Area8-Bot3A-6'	9/10/2014	7	<0.49	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
Area8-Bot4-7'	9/10/2014	7	<0.50	**48**	<50	**48**	<0.0050	<0.0050	<0.0050	<0.0050
Area8-Bot5-7'	9/10/2014	7	<0.49	**240**	**470**	**710**	<0.0050	<0.0050	<0.0050	<0.0050
Area8-Bot6-7'	9/10/2014	8	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
Area8-Bot7-7'	9/10/2014	8	<0.50	**1,300**	**3,000**	**4,300**	<0.0050	<0.0050	<0.0050	<0.0050
Area8-Bot8-7'	9/10/2014	8	**1,200**	**14,000**	**9,900**	**25,100**	<1.2	<1.2	**4.9**	**11**
Area8-Bot9-5'	9/10/2014	5	<0.49	**55**	**520**	**575**	<0.0049	<0.0049	<0.0049	<0.0049
Area8-Bot10-6'	9/10/2014	6	<0.49	<10	<50	ND	<0.0048	<0.0048	<0.0048	<0.0048
Area8-Bot11-8'	9/16/2014	9	<0.49	<9.9	<50	ND	<0.0046	<0.0046	<0.0046	<0.0046
Area8-Bot12-7'	9/16/2014	8	<0.50	<9.9	<50	ND	<0.0047	<0.0047	<0.0047	<0.0047
Area8-Bot13-6'	9/16/2014	7	<0.48	<9.9	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
Area8-Bot14-6'	9/16/2014	7	<0.49	<10	<50	ND	<0.0047	<0.0047	<0.0047	<0.0047
Area8-Bot15-7'	9/16/2014	9	<0.49	**24**	**68**	**92**	<0.0047	<0.0047	<0.0047	<0.0047
Area8-Bot16-8'	9/16/2014	9	**190**	**19,000**	**12,000**	**31,190**	<0.24	<0.24	**0.70**	<0.24
Area8-Bot17-5'	9/16/2014	6	<0.49	**15,000**	**13,000**	**28,000**	<0.0049	**0.02**	<0.0049	<0.0049
Area8-Bot17A-8'	9/24/2014	8	<0.50	**23**	**91**	**114**	<0.0048	<0.0048	<0.0048	<0.0048
Area8-Bot18-1'	9/16/2014	2	<0.50	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
Area8-SW-E1-2'	9/3/2014	2	<0.50	**1,300**	**1,900**	**3,200**	<0.0050	<0.0050	<0.0050	<0.0050

Table 1
Soil Analytical Results - Total Petroleum Hydrocarbons and BTEX
Former Orcutt Refinery
1550 West Stowell Road
Santa Maria, California

Sample Location	Date	Depth (bfg)	TPHg (C4-C12)	TPHd (C13-C22)	TPHo (C23-C40)	Total TPH (C4-C40)	Benzene	Toluene	Ethylbenzene	Total Xylenes
Area8-SW-E1A-2'	9/10/2014	2	<0.50	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
Area8-SW-E2-2'	9/3/2014	2	<0.49	**39**	**73**	**112**	<0.0050	<0.0050	<0.0050	<0.0050
Area8-SW-E3-1.5'	9/3/2014	2	<0.50	**300**	**520**	**820**	<0.0048	<0.0048	<0.0048	<0.0048
Area8-SW-E4-2'	9/3/2014	2	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
Area8-SW-E5-2'	9/3/2014	3	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
Area8-SW-E6-1.5'	9/3/2014	2	<0.49	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
Area8-SW-E7-2'	9/3/2014	2	<0.50	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
Area8-SW-E8-2.5'	9/3/2014	2	<0.50	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
Area8-SW-E9-2'	9/10/2014	2	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
Area8-SW-E10-1.5'	9/10/2014	2	<0.49	<10	<50	ND	<0.0048	<0.0048	<0.0048	<0.0048
Area8-SW-E11-2'	9/16/2014	2	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
Area8-SW-E12-2'	9/16/2014	2	<0.49	<10	<50	ND	<0.0047	<0.0047	<0.0047	<0.0047
Area8-SW-E13-2'	9/16/2014	2	<0.49	<9.9	<50	ND	<0.0048	<0.0048	<0.0048	<0.0048
Area8-SW-E14-2'	9/16/2014	2	<0.50	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
Area8-SW-E15-2'	9/16/2014	2	<0.50	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
Area8-SW-E16-2'	9/16/2014	2	<0.49	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
Area8-SW-E17-3'	9/16/2014	3	<0.48	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
Area8-SW-E18-0.5'	9/16/2014	1	<0.50	<9.9	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
Area8-SW-N1-2'	9/10/2014	2	<0.49	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
Area8-SW-S1-1'	9/16/2014	1	<0.49	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
Area8-SW-W12-3'	9/16/2014	3	<0.49	<9.9	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
Area8-SW-W1-2'	9/3/2014	2	<0.50	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
Area8-SW-W2-2'	9/3/2014	2	<0.49	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
Area8-SW-W3-2'	9/3/2014	2	<0.50	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
Area8-SW-W4-3'	9/3/2014	3	<0.50	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
Area8-SW-W5-3'	9/3/2014	3	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
Area8-SW-W6-3'	9/3/2014	3	<0.49	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
Area8-SW-W7-3'	9/3/2014	3	<0.50	<10	<50	ND	<0.0048	<0.0048	<0.0048	<0.0048
Area8-SW-W8-3'	9/3/2014	3	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
Area8-SW-W9-2'	9/10/2014	2	<0.50	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
Area8-SW-W10-2'	9/10/2014	2	<0.50	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
Area8-SW-W11-2'	9/16/2014	2	<0.50	**1,100**	**2,700**	**3,800**	<0.0047	<0.0047	<0.0047	<0.0047
Area8-SW-W13-3'	9/16/2014	3	<0.49	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
Area8-SW-W14-3'	9/16/2014	3	<0.49	<10	<50	ND	<0.0048	<0.0048	<0.0048	<0.0048
Area8-SW-W15-3'	9/16/2014	3	<0.49	**74**	**120**	**194**	<0.0049	<0.0049	<0.0049	<0.0049
Area8-SW-W16-3'	9/16/2014	3	<0.48	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
Area8-SW-W17-3'	9/16/2014	3	<0.48	<10	<50	ND	<0.0049	<0.0049	<0.0049	<0.0049
Area8-SW-W18-1'	9/16/2014	1	<0.49	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
SWC-1-0.5'	10/3/2014	1	<0.49	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
SWC-2-0.5'	10/3/2014	1	<0.49	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
SWC-3-0.5'	10/3/2014	1	<0.49	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
SWC-4-0.5'	10/3/2014	1	<0.48	<10	<50	ND	<0.0050	<0.0050	<0.0050	<0.0050
SBFPD Investigation Levels						**100**	**0.1**	**15**	**70**	**175**

Notes:

All results in milligrams per kilogram (mg/kg)

<10: Concentration less than the associated laboratory Reporting Limit (RL).

J: Estimated concentration detected between the Method Detection Limit and the Reporting Limit.

B: Detected in associated method blank.

ND: Not Detected.

Bold: Concentration > Laboratory Detection Limit (DL)

bfg: below final grade in feet (post-site restoration)

EPA Method 8260B

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road
Santa Maria, California

Sample Location	Date	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane
Area1-Bot1-5'	6/13/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area1-Bot2-5'	6/13/2014	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4
Area1-Bot3-5'	6/13/2014	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Area1-Bot4-5'	6/13/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot5-5'	6/13/2014	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
Area1-Bot6-6.5'	6/13/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot7-5'	6/18/2014	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	**6.0**	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Area1-Bot8-5'	6/18/2014	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024
Area1-Bot9-5'	6/18/2014	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Area1-Bot10-5'	6/18/2014	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Area1-Bot11-5'	6/25/2014	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047
Area1-Bot13-5'	6/25/2014	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051
Area1-Bot14-5'	6/25/2014	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	**28**	<1.2	<1.2	<1.2	<1.2	<1.2	**6.1**	<1.2	<1.2	<1.2	<1.2
Area1-Bot15-6'	6/25/2014	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	**3.4**	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2
Area1-Bot16-6'	6/25/2014	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2
Area1-Bot17-6'	6/25/2014	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047
Area1-Bot18-6'	6/25/2014	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046
Area1-Bot19-8'	7/2/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot20-8'	7/2/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area1-Bot21-8'	7/2/2014	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Area1-Bot22-7.5'	7/2/2014	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	**11**	<0.25	<0.25	<0.25	<0.25	<0.25	**0.29**	<0.25	<0.25	<0.25	<0.25
Area1-Bot23-7'	7/2/2014	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024
Area1-Bot24-6.5'	7/9/2014	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Area1-Bot25-6.5'	7/9/2014	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4
Area1-Bot26-13'	7/16/2014	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	**3.4**	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Area1-Bot27-13'	7/16/2014	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	**7.4**	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Area1-Bot28-11'	7/23/2014	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	**13**	<1.2	<1.2	<1.2	<1.2	<1.2	**4.2**	<1.2	<1.2	<1.2	<1.2
Area1-Bot29-10'	7/23/2014	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	**5.4**	<0.25	<0.25	<0.25	<0.25	<0.25	**1.5**	<0.25	<0.25	<0.25	<0.25
Area1-Bot30-11'	7/23/2014	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	**6.7**	<0.25	<0.25	<0.25	<0.25	<0.25	**2.3**	<0.25	<0.25	<0.25	<0.25
Area1-Bot31-11'	7/23/2014	<0.63	<0.63	<0.63	<0.63	<0.63	<0.63	<0.63	<0.63	<0.63	<0.63	**19**	<0.63	<0.63	<0.63	<0.63	<0.63	**2.1**	<0.63	<0.63	<0.63	<0.63
Area1-Bot32-7'	7/30/2014	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	**1.6**	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2
Area1-Bot33-14'	7/30/2014	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	**0.033**	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Area1-Bot34-14'	7/30/2014	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	**0.51**	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24
Area1-Bot35-13'	7/30/2014	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	**0.8**	<0.25	<0.25	<0.25	<0.25	<0.25	**0.32**	<0.25	<0.25	<0.25	<0.25
Area1-Bot36-11'	7/30/2014	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	**3.6**	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1
Area1-Bot37-11'	7/30/2014	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
Area1-Bot38-12'	7/30/2014	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	**1.6**	<0.23	<0.23	<0.23	<0.23	<0.23	**0.4**	<0.23	<0.23	<0.23	<0.23
Area1-Bot39-13'	7/30/2014	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	**0.69**	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23
Area1-Bot40-14'	7/30/2014	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	**0.025**	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024
Area1-Bot41-8'	7/30/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area1-Bot42-7'	7/30/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area1-Bot43-6'	7/30/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area1-Bot44-6'	7/30/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area1-Bot45-7'	7/30/2014	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	**1.7**	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2
Area1-Bot46-7'	8/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot47-7.5'	8/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot48-8'	8/6/2014	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	**0.64**	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
Area1-Bot49-7'	8/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot50-7.5'	8/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot51-6'	8/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot52-8'	8/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot53-4'	8/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot54-4'	8/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot55-3'	8/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot56-4'	8/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot56a-7'	8/18/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot57-2.5'	8/7/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot58-1.5'	8/7/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot59-1.5'	8/7/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road
Santa Maria, California

Sample Location	Date	2-Chlorotoluene	4-Chlorotoluene	4-Isopropyl Toluene	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Ethylbenzene	Hexachlorobutadiene
Area1-Bot1-5'	6/13/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area1-Bot2-5'	6/13/2014	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4
Area1-Bot3-5'	6/13/2014	<2.5	<2.5	<2.5	**4.9**	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	**13**	<2.5
Area1-Bot4-5'	6/13/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot5-5'	6/13/2014	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
Area1-Bot6-6.5'	6/13/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot7-5'	6/18/2014	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	**3.3**	<2.5
Area1-Bot8-5'	6/18/2014	<0.024	<0.024	<0.024	**0.04**	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024
Area1-Bot9-5'	6/18/2014	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	**2.5**	<2.5
Area1-Bot10-5'	6/18/2014	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Area1-Bot11-5'	6/25/2014	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047
Area1-Bot13-5'	6/25/2014	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051
Area1-Bot14-5'	6/25/2014	<1.2	<1.2	**2.7**	**6.4**	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	**18**	<1.2
Area1-Bot15-6'	6/25/2014	<1.2	<1.2	<1.2	**1.3**	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	**4.5**	<1.2
Area1-Bot16-6'	6/25/2014	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2
Area1-Bot17-6'	6/25/2014	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047
Area1-Bot18-6'	6/25/2014	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046
Area1-Bot19-8'	7/2/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot20-8'	7/2/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area1-Bot21-8'	7/2/2014	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Area1-Bot22-7.5'	7/2/2014	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	**2.8**	<0.25
Area1-Bot23-7'	7/2/2014	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024
Area1-Bot24-6.5'	7/9/2014	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Area1-Bot25-6.5'	7/9/2014	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4
Area1-Bot26-13'	7/16/2014	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Area1-Bot27-13'	7/16/2014	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	**4.1**	<2.5
Area1-Bot28-11'	7/23/2014	<1.2	<1.2	**3**	**2.3**	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	**5.6**	<1.2
Area1-Bot29-10'	7/23/2014	<0.25	<0.25	**1.3**	**0.66**	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	**2.5**	<0.25
Area1-Bot30-11'	7/23/2014	<0.25	<0.25	**1.3**	**2**	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	**3.2**	<0.25
Area1-Bot31-11'	7/23/2014	<0.63	<0.63	**4.5**	**2.6**	<0.63	<0.63	<0.63	<0.63	<0.63	<0.63	<0.63	<0.63	<0.63	<0.63	<0.63	<0.63	<0.63	<0.63	<0.63	**21**	<0.63
Area1-Bot32-7'	7/30/2014	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2
Area1-Bot33-14'	7/30/2014	<0.025	<0.025	<0.025	**0.031**	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	**0.036**	<0.025
Area1-Bot34-14'	7/30/2014	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	**0.28**	<0.24
Area1-Bot35-13'	7/30/2014	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	**0.48**	<0.25
Area1-Bot36-11'	7/30/2014	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	**2.2**	<1.1
Area1-Bot37-11'	7/30/2014	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
Area1-Bot38-12'	7/30/2014	<0.23	<0.23	**0.31**	**0.25**	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	**1.1**	<0.23
Area1-Bot39-13'	7/30/2014	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	**0.27**	<0.23
Area1-Bot40-14'	7/30/2014	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024
Area1-Bot41-8'	7/30/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area1-Bot42-7'	7/30/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area1-Bot43-6'	7/30/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area1-Bot44-6'	7/30/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area1-Bot45-7'	7/30/2014	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2
Area1-Bot46-7'	8/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot47-7.5'	8/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot48-8'	8/6/2014	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	**0.59**	<0.25
Area1-Bot49-7'	8/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot50-7.5'	8/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot51-6'	8/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot52-8'	8/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot53-4'	8/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot54-4'	8/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot55-3'	8/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot56-4'	8/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot56a-7'	8/18/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot57-2.5'	8/7/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot58-1.5'	8/7/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot59-1.5'	8/7/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road
Santa Maria, California

Sample Location	Date	Isopropylbenzene	Methylene Chloride	Naphthalene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Vinyl Chloride	Xylenes (total)
Area1-Bot1-5'	6/13/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area1-Bot2-5'	6/13/2014	<2.4	<2.4	**8.3**	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4
Area1-Bot3-5'	6/13/2014	**3.7**	<2.5	**5.6**	<2.5	**5.6**	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Area1-Bot4-5'	6/13/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot5-5'	6/13/2014	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
Area1-Bot6-6.5'	6/13/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot7-5'	6/18/2014	<2.5	<2.5	**18**	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	**5.6**
Area1-Bot8-5'	6/18/2014	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024
Area1-Bot9-5'	6/18/2014	<2.5	<2.5	**3**	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Area1-Bot10-5'	6/18/2014	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Area1-Bot11-5'	6/25/2014	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047
Area1-Bot13-5'	6/25/2014	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051
Area1-Bot14-5'	6/25/2014	**3.9**	<1.2	**7.2**	<1.2	**6.1**	**1.9**	<1.2	<1.2	<1.2	**18**	<1.2	<1.2	<1.2	<1.2	<1.2	**55**
Area1-Bot15-6'	6/25/2014	**1.3**	<1.2	<1.2	<1.2	**2.1**	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2
Area1-Bot16-6'	6/25/2014	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2
Area1-Bot17-6'	6/25/2014	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047
Area1-Bot18-6'	6/25/2014	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046
Area1-Bot19-8'	7/2/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot20-8'	7/2/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area1-Bot21-8'	7/2/2014	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Area1-Bot22-7.5'	7/2/2014	**0.88**	<0.25	**0.52**	<0.25	**1.5**	**0.27**	<0.25	<0.25	<0.25	**0.88**	<0.25	<0.25	<0.25	<0.25	<0.25	**18**
Area1-Bot23-7'	7/2/2014	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024
Area1-Bot24-6.5'	7/9/2014	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Area1-Bot25-6.5'	7/9/2014	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4
Area1-Bot26-13'	7/16/2014	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	**3.5**
Area1-Bot27-13'	7/16/2014	<2.5	<2.5	**5.3**	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	**6.6**	<2.5	<2.5	<2.5	<2.5	<2.5	**18**
Area1-Bot28-11'	7/23/2014	**1.8**	<1.2	**13**	**2.2**	**3.5**	**2**	<1.2	<1.2	<1.2	**5.5**	<1.2	<1.2	<1.2	<1.2	<1.2	**18**
Area1-Bot29-10'	7/23/2014	**0.82**	<0.25	**5**	**1**	**1.7**	**0.9**	<0.25	<0.25	<0.25	**1.8**	<0.25	<0.25	<0.25	<0.25	<0.25	**5.3**
Area1-Bot30-11'	7/23/2014	**0.9**	<0.25	**5.1**	**0.96**	**1.7**	**0.84**	<0.25	<0.25	<0.25	**3.2**	<0.25	<0.25	<0.25	<0.25	<0.25	**9.6**
Area1-Bot31-11'	7/23/2014	**7.9**	<0.63	**9**	**3.6**	**14**	**6.7**	<0.63	<0.63	<0.63	<0.63	<0.63	<0.63	<0.63	<0.63	<0.63	**3.9**
Area1-Bot32-7'	7/30/2014	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	**4.6**
Area1-Bot33-14'	7/30/2014	<0.025	<0.025	**0.052**	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	**0.081**	<0.025	<0.025	<0.025	<0.025	<0.025	**0.11**
Area1-Bot34-14'	7/30/2014	<0.24	<0.24	**0.97**	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	**0.69**
Area1-Bot35-13'	7/30/2014	<0.25	<0.25	**1.1**	<0.25	**0.32**	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	**0.92**
Area1-Bot36-11'	7/30/2014	<1.1	<1.1	**1.2**	<1.1	**1.1**	<1.1	<1.1	<1.1	<1.1	**1.6**	<1.1	<1.1	<1.1	<1.1	<1.1	**6.7**
Area1-Bot37-11'	7/30/2014	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
Area1-Bot38-12'	7/30/2014	**0.32**	<0.23	**1.9**	**0.36**	**0.57**	**0.3**	<0.23	<0.23	<0.23	**0.48**	<0.23	<0.23	<0.23	<0.23	<0.23	**3**
Area1-Bot39-13'	7/30/2014	<0.23	<0.23	**1.5**	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	**0.93**
Area1-Bot40-14'	7/30/2014	<0.024	<0.024	**0.042**	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	**0.061**	<0.024	<0.024	<0.024	<0.024	<0.024	**0.079**
Area1-Bot41-8'	7/30/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area1-Bot42-7'	7/30/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area1-Bot43-6'	7/30/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area1-Bot44-6'	7/30/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area1-Bot45-7'	7/30/2014	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	**1.3**
Area1-Bot46-7'	8/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot47-7.5'	8/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot48-8'	8/6/2014	**0.85**	<0.25	**4.9**	**1.3**	**3.5**	**0.57**	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
Area1-Bot49-7'	8/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot50-7.5'	8/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot51-6'	8/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot52-8'	8/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot53-4'	8/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot54-4'	8/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot55-3'	8/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot56-4'	8/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot56a-7'	8/18/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot57-2.5'	8/7/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot58-1.5'	8/7/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot59-1.5'	8/7/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road
Santa Maria, California

Sample Location	Date	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane
Area1-Bot60-7'	8/7/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot61-1.5'	8/7/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot62-7'	8/7/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot63-4'	8/7/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot63a-6'	8/18/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot64-4'	8/7/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot65-6'	8/18/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot66-2'	8/18/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area1-Bot67-1'	8/18/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area1-Bot68-1'	8/18/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot69-5.5'	8/18/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot70-7'	8/18/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area1-Bot71-7'	8/18/2014	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Area1-Bot72-7'	8/18/2014	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Area1-Bot73-7'	8/18/2014	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
Area1-Bot74-8'	8/18/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot75-7'	8/18/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area1-Bot76-2'	8/18/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot77-2.5'	8/18/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area1-Bot78-2'	8/18/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot79-2'	8/18/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot80-7'	8/18/2014	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Area1-SW-W1-2.5'	7/25/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area1-SW-W2-2.5'	7/25/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-W3-2'	7/25/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area1-SW-W4-2'	7/25/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-W5-2.5'	8/18/2014	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051
Area1-SW-W6-2.5'	8/18/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-W7-1'	8/18/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-W8-3'	8/18/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-W9-2'	8/18/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-W10-2'	8/18/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-W11-1'	8/18/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-W12-2'	8/18/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-W13-1.5'	8/22/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area1-SW-W13A-1.5'	9/24/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area1-SW-S1-2'	7/25/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-S2-2.5'	7/25/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-S3-2.5'	7/25/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-S4-2.5'	7/25/2014	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
Area1-SW-S5-3'	7/25/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-S5A-2.5'	7/29/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-E1-3'	7/25/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-E2-2.5'	7/25/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area1-SW-E3-3'	7/30/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-E3A-2'	8/12/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-E4-2'	7/30/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area1-SW-E5-2'	8/7/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-E6-2.5'	8/7/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area1-SW-E7-2'	8/7/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-E8-2'	8/7/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-E8a-3'	8/18/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-E8b-1.5'	8/18/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-E9-2'	8/7/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area1-SW-E10-1.5'	8/7/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-E11-1.5'	8/7/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area1-SW-N1-3'	9/22/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-N2-3'	9/22/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-N3-3'	9/23/2014	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road
Santa Maria, California

Sample Location	Date	2-Chlorotoluene	4-Chlorotoluene	4-Isopropyl Toluene	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Ethylbenzene	Hexachlorobutadiene
Area1-Bot60-7'	8/7/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot61-1.5'	8/7/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot62-7'	8/7/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot63-4'	8/7/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot63a-6'	8/18/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot64-4'	8/7/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot65-6'	8/18/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot66-2'	8/18/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area1-Bot67-1'	8/18/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area1-Bot68-1'	8/18/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot69-5.5'	8/18/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot70-7'	8/18/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area1-Bot71-7'	8/18/2014	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Area1-Bot72-7'	8/18/2014	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Area1-Bot73-7'	8/18/2014	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
Area1-Bot74-8'	8/18/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot75-7'	8/18/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area1-Bot76-2'	8/18/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot77-2.5'	8/18/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area1-Bot78-2'	8/18/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot79-2'	8/18/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot80-7'	8/18/2014	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Area1-SW-W1-2.5'	7/25/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area1-SW-W2-2.5'	7/25/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-W3-2'	7/25/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area1-SW-W4-2'	7/25/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-W5-2.5'	8/18/2014	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051
Area1-SW-W6-2.5'	8/18/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-W7-1'	8/18/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-W8-3'	8/18/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-W9-2'	8/18/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-W10-2'	8/18/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-W11-1'	8/18/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-W12-2'	8/18/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-W13-1.5'	8/22/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area1-SW-W13A-1.5'	9/24/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area1-SW-S1-2'	7/25/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-S2-2.5'	7/25/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-S3-2.5'	7/25/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-S4-2.5'	7/25/2014	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
Area1-SW-S5-3'	7/25/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-S5A-2.5'	7/29/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-E1-3'	7/25/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-E2-2.5'	7/25/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area1-SW-E3-3'	7/30/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-E3A-2'	8/12/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-E4-2'	7/30/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area1-SW-E5-2'	8/7/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-E6-2.5'	8/7/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area1-SW-E7-2'	8/7/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-E8-2'	8/7/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-E8a-3'	8/18/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-E8b-1.5'	8/18/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-E9-2'	8/7/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area1-SW-E10-1.5'	8/7/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-E11-1.5'	8/7/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area1-SW-N1-3'	9/22/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-N2-3'	9/22/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-N3-3'	9/23/2014	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road
Santa Maria, California

Sample Location	Date	Isopropylbenzene	Methylene Chloride	Naphthalene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Vinyl Chloride	Xylenes (total)
Area1-Bot60-7'	8/7/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot61-1.5'	8/7/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot62-7'	8/7/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot63-4'	8/7/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot63a-6'	8/18/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot64-4'	8/7/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot65-6'	8/18/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot66-2'	8/18/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area1-Bot67-1'	8/18/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area1-Bot68-1'	8/18/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot69-5.5'	8/18/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot70-7'	8/18/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area1-Bot71-7'	8/18/2014	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Area1-Bot72-7'	8/18/2014	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Area1-Bot73-7'	8/18/2014	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
Area1-Bot74-8'	8/18/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot75-7'	8/18/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area1-Bot76-2'	8/18/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot77-2.5'	8/18/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area1-Bot78-2'	8/18/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot79-2'	8/18/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-Bot80-7'	8/18/2014	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Area1-SW-W1-2.5'	7/25/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area1-SW-W2-2.5'	7/25/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-W3-2'	7/25/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area1-SW-W4-2'	7/25/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-W5-2.5'	8/18/2014	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051
Area1-SW-W6-2.5'	8/18/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-W7-1'	8/18/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-W8-3'	8/18/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-W9-2'	8/18/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-W10-2'	8/18/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-W11-1'	8/18/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-W12-2'	8/18/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-W13-1.5'	8/22/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area1-SW-W13A-1.5'	9/24/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area1-SW-S1-2'	7/25/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-S2-2.5'	7/25/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-S3-2.5'	7/25/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-S4-2.5'	7/25/2014	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
Area1-SW-S5-3'	7/25/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-S5A-2.5'	7/29/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-E1-3'	7/25/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-E2-2.5'	7/25/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area1-SW-E3-3'	7/30/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-E3A-2'	8/12/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-E4-2'	7/30/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area1-SW-E5-2'	8/7/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-E6-2.5'	8/7/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area1-SW-E7-2'	8/7/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-E8-2'	8/7/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-E8a-3'	8/18/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-E8b-1.5'	8/18/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-E9-2'	8/7/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area1-SW-E10-1.5'	8/7/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-E11-1.5'	8/7/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area1-SW-N1-3'	9/22/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-N2-3'	9/22/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-N3-3'	9/23/2014	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road
Santa Maria, California

Sample Location	Date	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane
Area1-SW-N4-3'	9/23/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area1-SW-N5-3'	9/23/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area1-SW-N6-3'	9/23/2014	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051
Area1-SW-N7-3'	9/23/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-N8-3'	9/24/2014	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
Area1-SW-N9-3'	9/24/2014	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
Area1-SW-N10-3'	9/24/2014	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
Area1-PH1-5.5'	6/26/2014	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
Area1-PH2-6'	6/26/2014	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046
Area1-PH3-7'	6/26/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area1-PH4-7'	6/26/2014	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
Area1/6-Bot1-7'	8/22/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1/6-Bot2-7'	8/22/2014	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
Area2-Bot1-5.5'	5/29/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area2-Bot2-5.5'	5/29/2014	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
Area2-Bot3-5.5'	5/29/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area2-Bot4-5.5'	5/29/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area2-SW-E1-2'	5/29/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area2-SW-N1-2'	5/29/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area2-SW-N2-2'	5/29/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area2-SW-S1-2'	5/29/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area2-SW-S2-2'	5/29/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area2-SW-W1-2'	5/29/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area2-SW-W2-2'	5/29/2014	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
Area3-Bot1-7.5'	6/10/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area3-Bot2-7.5'	6/10/2014	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
Area3-Bot3-7.5'	6/10/2014	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
Area3-Bot4-3'	8/12/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area3-Bot5-4'	8/12/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area3-SW-E2-3'	6/19/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area3-SW-N1-3'	6/10/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area3-SW-N2-3'	6/10/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area3-SW-N3-2'	8/22/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area3-SW-N4-2'	8/22/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area3-SW-N5-2'	8/22/2014	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
Area3-SW-S1-3.5'	6/10/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area3-SW-W1-3'	6/10/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area3-SW-W2-3'	6/19/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area3-SW-W3-1'	8/12/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area3-SW-W4-1'	8/12/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area3-SW-W5-1.5'	8/12/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area3-SW-W6-3'	8/12/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area3-SW-W7-2'	8/18/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area4-Bot1-7.5'	6/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area4-Bot2-7.5'	6/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area4-Bot3-8'	6/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area4-Bot4-6.5'	6/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area4-Bot5-6.5'	6/6/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area4-Bot6-7'	6/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area4-Bot7-7.5'	6/10/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area4-SW-E1-3'	6/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area4-SW-N1-2'	6/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area4-SW-N1a-3'	8/18/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area4-SW-N2-3'	6/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area4-SW-N3-3'	6/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area4-SW-N4-3'	6/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area4-SW-N5-3'	6/6/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area4-SW-N6-3'	6/6/2014	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
Area4-SW-S1-3'	6/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road
Santa Maria, California

Sample Location	Date	2-Chlorotoluene	4-Chlorotoluene	4-Isopropyl Toluene	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Ethylbenzene	Hexachlorobutadiene
Area1-SW-N4-3'	9/23/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area1-SW-N5-3'	9/23/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area1-SW-N6-3'	9/23/2014	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051
Area1-SW-N7-3'	9/23/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-N8-3'	9/24/2014	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
Area1-SW-N9-3'	9/24/2014	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
Area1-SW-N10-3'	9/24/2014	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
Area1-PH1-5.5'	6/26/2014	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
Area1-PH2-6'	6/26/2014	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046
Area1-PH3-7'	6/26/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area1-PH4-7'	6/26/2014	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
Area1/6-Bot1-7'	8/22/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1/6-Bot2-7'	8/22/2014	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
Area2-Bot1-5.5'	5/29/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area2-Bot2-5.5'	5/29/2014	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
Area2-Bot3-5.5'	5/29/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area2-Bot4-5.5'	5/29/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area2-SW-E1-2'	5/29/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area2-SW-N1-2'	5/29/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area2-SW-N2-2'	5/29/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area2-SW-S1-2'	5/29/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area2-SW-S2-2'	5/29/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area2-SW-W1-2'	5/29/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area2-SW-W2-2'	5/29/2014	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
Area3-Bot1-7.5'	6/10/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area3-Bot2-7.5'	6/10/2014	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
Area3-Bot3-7.5'	6/10/2014	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
Area3-Bot4-3'	8/12/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area3-Bot5-4'	8/12/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area3-SW-E2-3'	6/19/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area3-SW-N1-3'	6/10/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area3-SW-N2-3'	6/10/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area3-SW-N3-2'	8/22/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area3-SW-N4-2'	8/22/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area3-SW-N5-2'	8/22/2014	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
Area3-SW-S1-3.5'	6/10/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area3-SW-W1-3'	6/10/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area3-SW-W2-3'	6/19/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area3-SW-W3-1'	8/12/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area3-SW-W4-1'	8/12/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area3-SW-W5-1.5'	8/12/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area3-SW-W6-3'	8/12/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area3-SW-W7-2'	8/18/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area4-Bot1-7.5'	6/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area4-Bot2-7.5'	6/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area4-Bot3-8'	6/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area4-Bot4-6.5'	6/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area4-Bot5-6.5'	6/6/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area4-Bot6-7'	6/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area4-Bot7-7.5'	6/10/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area4-SW-E1-3'	6/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area4-SW-N1-2'	6/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area4-SW-N1a-3'	8/18/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area4-SW-N2-3'	6/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area4-SW-N3-3'	6/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area4-SW-N4-3'	6/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area4-SW-N5-3'	6/6/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area4-SW-N6-3'	6/6/2014	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
Area4-SW-S1-3'	6/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road
Santa Maria, California

Sample Location	Date	Isopropylbenzene	Methylene Chloride	Naphthalene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Vinyl Chloride	Xylenes (total)
Area1-SW-N4-3'	9/23/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area1-SW-N5-3'	9/23/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area1-SW-N6-3'	9/23/2014	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051
Area1-SW-N7-3'	9/23/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1-SW-N8-3'	9/24/2014	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
Area1-SW-N9-3'	9/24/2014	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
Area1-SW-N10-3'	9/24/2014	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
Area1-PH1-5.5'	6/26/2014	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
Area1-PH2-6'	6/26/2014	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046
Area1-PH3-7'	6/26/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area1-PH4-7'	6/26/2014	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
Area1/6-Bot1-7'	8/22/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area1/6-Bot2-7'	8/22/2014	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
Area2-Bot1-5.5'	5/29/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area2-Bot2-5.5'	5/29/2014	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
Area2-Bot3-5.5'	5/29/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area2-Bot4-5.5'	5/29/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area2-SW-E1-2'	5/29/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area2-SW-N1-2'	5/29/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area2-SW-N2-2'	5/29/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area2-SW-S1-2'	5/29/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area2-SW-S2-2'	5/29/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area2-SW-W1-2'	5/29/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area2-SW-W2-2'	5/29/2014	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
Area3-Bot1-7.5'	6/10/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area3-Bot2-7.5'	6/10/2014	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
Area3-Bot3-7.5'	6/10/2014	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
Area3-Bot4-3'	8/12/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area3-Bot5-4'	8/12/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area3-SW-E2-3'	6/19/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area3-SW-N1-3'	6/10/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area3-SW-N2-3'	6/10/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area3-SW-N3-2'	8/22/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area3-SW-N4-2'	8/22/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area3-SW-N5-2'	8/22/2014	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
Area3-SW-S1-3.5'	6/10/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area3-SW-W1-3'	6/10/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area3-SW-W2-3'	6/19/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area3-SW-W3-1'	8/12/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area3-SW-W4-1'	8/12/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area3-SW-W5-1.5'	8/12/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area3-SW-W6-3'	8/12/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area3-SW-W7-2'	8/18/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area4-Bot1-7.5'	6/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area4-Bot2-7.5'	6/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area4-Bot3-8'	6/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area4-Bot4-6.5'	6/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area4-Bot5-6.5'	6/6/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area4-Bot6-7'	6/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area4-Bot7-7.5'	6/10/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area4-SW-E1-3'	6/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area4-SW-N1-2'	6/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area4-SW-N1a-3'	8/18/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area4-SW-N2-3'	6/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area4-SW-N3-3'	6/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area4-SW-N4-3'	6/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area4-SW-N5-3'	6/6/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area4-SW-N6-3'	6/6/2014	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
Area4-SW-S1-3'	6/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road
Santa Maria, California

Sample Location	Date	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane
Area4-SW-S2-3'	6/6/2014	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.36**	<0.050	<0.050	<0.050	<0.050	<0.050	**0.11**	<0.050	<0.050	<0.050	<0.050
Area4-SW-S3-3'	6/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area4-SW-S4-3'	6/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area4-SW-S5-3'	6/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area4-SW-S6-1.5'	7/2/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area4-SW-S7-1.5'	7/2/2014	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	**7.9**	<2.4	<2.4	<2.4	<2.4	<2.4	**2.6**	<2.4	<2.4	<2.4	<2.4
Area4-SW-S8-1.5'	7/2/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area4-SW-S9-1'	7/2/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area4-SW-W1-2'	6/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area5-Bot1-1.5'	7/9/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area6-Bot1-5'	7/11/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area6-Bot2-6'	7/11/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area6-Bot3-7'	7/11/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area6-SW-E1-3'	7/11/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area6-SW-E2-2.5'	7/11/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area6-SW-E3-2'	7/15/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area6-SW-N1-3'	7/11/2014	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
Area6-SW-N2-3'	7/11/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area6-SW-S1-2'	7/11/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area6-SW-S2-2'	7/11/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area6-SW-W1-3'	7/11/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area7-Bot1-3'	7/15/2014	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047
Area7-Bot2-4'	7/15/2014	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047
Area7-Bot3-7'	7/15/2014	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
Area7-Bot4-6'	7/15/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area7-Bot5-3'	7/15/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area7-Bot5A-4'	7/22/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area7-Bot6-3'	7/22/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area7-SW-E1-1'	7/22/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area7-SW-N1-1'	7/22/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area7-SW-N2-1'	7/22/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area7-SW-N3-1.5'	7/22/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area7-SW-N4-2'	7/22/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area7-SW-N5-2'	7/22/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area7-SW-N6-1'	7/22/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area7-SW-S1-1.5'	7/22/2014	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
Area7-SW-S2-1'	7/22/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area7-SW-S3-1.5'	7/22/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area7-SW-S4-2.5'	7/22/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area7-SW-S5-1'	7/22/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area7-SW-S6-1'	7/22/2014	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
Area7-SW-W1-1.5'	7/22/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area8-Bot1-5'	9/3/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area8-Bot2-5'	9/3/2014	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047
Area8-Bot3-5'	9/3/2014	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051
Area8-Bot3A-6'	9/10/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area8-Bot4-7'	9/10/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area8-Bot5-7'	9/10/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area8-Bot6-7'	9/10/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area8-Bot7-7'	9/10/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area8-Bot8-7'	9/10/2014	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	**13**	<1.2	<1.2	<1.2	<1.2	<1.2	**3.4**	<1.2	<1.2	<1.2	<1.2
Area8-Bot9-5'	9/10/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area8-Bot10-6'	9/10/2014	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
Area8-Bot11-8'	9/16/2014	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046
Area8-Bot12-7'	9/16/2014	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047
Area8-Bot13-6'	9/16/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area8-Bot14-6'	9/16/2014	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047
Area8-Bot15-7'	9/16/2014	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047
Area8-Bot16-8'	9/16/2014	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	**0.68**	<0.24	<0.24	<0.24	<0.24	<0.24	**0.26**	<0.24	<0.24	<0.24	<0.24

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road
Santa Maria, California

Sample Location	Date	2-Chlorotoluene	4-Chlorotoluene	4-Isopropyl Toluene	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Ethylbenzene	Hexachlorobutadiene
Area4-SW-S2-3'	6/6/2014	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.14**	<0.050
Area4-SW-S3-3'	6/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area4-SW-S4-3'	6/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area4-SW-S5-3'	6/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area4-SW-S6-1.5'	7/2/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area4-SW-S7-1.5'	7/2/2014	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4
Area4-SW-S8-1.5'	7/2/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area4-SW-S9-1'	7/2/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area4-SW-W1-2'	6/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area5-Bot1-1.5'	7/9/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area6-Bot1-5'	7/11/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area6-Bot2-6'	7/11/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area6-Bot3-7'	7/11/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area6-SW-E1-3'	7/11/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area6-SW-E2-2.5'	7/11/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area6-SW-E3-2'	7/15/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area6-SW-N1-3'	7/11/2014	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
Area6-SW-N2-3'	7/11/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area6-SW-S1-2'	7/11/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area6-SW-S2-2'	7/11/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area6-SW-W1-3'	7/11/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area7-Bot1-3'	7/15/2014	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047
Area7-Bot2-4'	7/15/2014	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047
Area7-Bot3-7'	7/15/2014	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
Area7-Bot4-6'	7/15/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area7-Bot5-3'	7/15/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area7-Bot5A-4'	7/22/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area7-Bot6-3'	7/22/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area7-SW-E1-1'	7/22/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area7-SW-N1-1'	7/22/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area7-SW-N2-1'	7/22/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area7-SW-N3-1.5'	7/22/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area7-SW-N4-2'	7/22/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area7-SW-N5-2'	7/22/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area7-SW-N6-1'	7/22/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area7-SW-S1-1.5'	7/22/2014	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
Area7-SW-S2-1'	7/22/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area7-SW-S3-1.5'	7/22/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area7-SW-S4-2.5'	7/22/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area7-SW-S5-1'	7/22/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area7-SW-S6-1'	7/22/2014	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
Area7-SW-W1-1.5'	7/22/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area8-Bot1-5'	9/3/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area8-Bot2-5'	9/3/2014	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047
Area8-Bot3-5'	9/3/2014	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051
Area8-Bot3A-6'	9/10/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area8-Bot4-7'	9/10/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area8-Bot5-7'	9/10/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area8-Bot6-7'	9/10/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area8-Bot7-7'	9/10/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area8-Bot8-7'	9/10/2014	<1.2	<1.2	**3.4**	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	**4.9**	<1.2
Area8-Bot9-5'	9/10/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area8-Bot10-6'	9/10/2014	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
Area8-Bot11-8'	9/16/2014	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046
Area8-Bot12-7'	9/16/2014	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047
Area8-Bot13-6'	9/16/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area8-Bot14-6'	9/16/2014	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047
Area8-Bot15-7'	9/16/2014	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047
Area8-Bot16-8'	9/16/2014	<0.24	<0.24	**1.3**	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	**0.70**	<0.24

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road
Santa Maria, California

Sample Location	Date	Isopropylbenzene	Methylene Chloride	Naphthalene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Vinyl Chloride	Xylenes (total)
Area4-SW-S2-3'	6/6/2014	<0.050	<0.050	**0.3**	**0.052**	**0.074**	<0.050	<0.050	<0.050	<0.050	**0.069**	<0.050	<0.050	<0.050	<0.050	<0.050	**0.5**
Area4-SW-S3-3'	6/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area4-SW-S4-3'	6/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area4-SW-S5-3'	6/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area4-SW-S6-1.5'	7/2/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area4-SW-S7-1.5'	7/2/2014	<2.4	<2.4	**7**	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	**6.1**
Area4-SW-S8-1.5'	7/2/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area4-SW-S9-1'	7/2/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area4-SW-W1-2'	6/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area5-Bot1-1.5'	7/9/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area6-Bot1-5'	7/11/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area6-Bot2-6'	7/11/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area6-Bot3-7'	7/11/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area6-SW-E1-3'	7/11/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area6-SW-E2-2.5'	7/11/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area6-SW-E3-2'	7/15/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area6-SW-N1-3'	7/11/2014	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
Area6-SW-N2-3'	7/11/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area6-SW-S1-2'	7/11/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area6-SW-S2-2'	7/11/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area6-SW-W1-3'	7/11/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area7-Bot1-3'	7/15/2014	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047
Area7-Bot2-4'	7/15/2014	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047
Area7-Bot3-7'	7/15/2014	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
Area7-Bot4-6'	7/15/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area7-Bot5-3'	7/15/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area7-Bot5A-4'	7/22/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area7-Bot6-3'	7/22/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area7-SW-E1-1'	7/22/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area7-SW-N1-1'	7/22/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area7-SW-N2-1'	7/22/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area7-SW-N3-1.5'	7/22/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area7-SW-N4-2'	7/22/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area7-SW-N5-2'	7/22/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area7-SW-N6-1'	7/22/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area7-SW-S1-1.5'	7/22/2014	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
Area7-SW-S2-1'	7/22/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area7-SW-S3-1.5'	7/22/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area7-SW-S4-2.5'	7/22/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area7-SW-S5-1'	7/22/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area7-SW-S6-1'	7/22/2014	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
Area7-SW-W1-1.5'	7/22/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area8-Bot1-5'	9/3/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area8-Bot2-5'	9/3/2014	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047
Area8-Bot3-5'	9/3/2014	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051
Area8-Bot3A-6'	9/10/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area8-Bot4-7'	9/10/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area8-Bot5-7'	9/10/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area8-Bot6-7'	9/10/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area8-Bot7-7'	9/10/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area8-Bot8-7'	9/10/2014	**2.0**	<1.2	**12**	**2.9**	**3.5**	**2.2**	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	**11**
Area8-Bot9-5'	9/10/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area8-Bot10-6'	9/10/2014	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
Area8-Bot11-8'	9/16/2014	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046
Area8-Bot12-7'	9/16/2014	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047
Area8-Bot13-6'	9/16/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area8-Bot14-6'	9/16/2014	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047
Area8-Bot15-7'	9/16/2014	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047
Area8-Bot16-8'	9/16/2014	**0.50**	<0.24	**3.5**	**1.5**	**1.1**	**0.95**	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road
Santa Maria, California

Sample Location	Date	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane
Area8-Bot17-5'	9/16/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area8-Bot17A-8'	9/24/2014	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
Area8-Bot18-1'	9/16/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area8-SW-E1-2'	9/3/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area8-SW-E2-2'	9/3/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area8-SW-E1A-2'	9/10/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area8-SW-E3-1.5'	9/3/2014	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
Area8-SW-E4-2'	9/3/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area8-SW-E5-2'	9/3/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area8-SW-E6-1.5'	9/3/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area8-SW-E7-2'	9/3/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area8-SW-E8-2.5'	9/3/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area8-SW-E9-2'	9/10/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area8-SW-E10-1.5'	9/10/2014	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
Area8-SW-E11-2'	9/16/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area8-SW-E12-2'	9/16/2014	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047
Area8-SW-E13-2'	9/16/2014	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
Area8-SW-E14-2'	9/16/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area8-SW-E15-2'	9/16/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area8-SW-E16-2'	9/16/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area8-SW-E17-3'	9/16/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area8-SW-E18-0.5'	9/16/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area8-SW-N1-2'	9/10/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area8-SW-S1-1'	9/16/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area8-SW-W1-2'	9/3/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area8-SW-W2-2'	9/3/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area8-SW-W3-2'	9/3/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area8-SW-W4-3'	9/3/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area8-SW-W5-3'	9/3/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area8-SW-W6-3'	9/3/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area8-SW-W7-3'	9/3/2014	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
Area8-SW-W8-3'	9/3/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area8-SW-W9-2'	9/10/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area8-SW-SW12-3'	9/16/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area8-SW-W10-2'	9/10/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area8-SW-W11-2'	9/16/2014	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047
Area8-SW-W13-3'	9/16/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area8-SW-W14-3'	9/16/2014	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
Area8-SW-W15-3'	9/16/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area8-SW-W16-3'	9/16/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area8-SW-W17-3'	9/16/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area8-SW-W18-1'	9/16/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
SWC-1-0.5'	10/3/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
SWC-2-0.5'	10/3/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
SWC-3-0.5'	10/3/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
SWC-4-0.5'	10/3/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
SBFPD Investigation Levels												**33**		**0.5**		**5.0**		**21**				

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road
Santa Maria, California

Sample Location	Date	2-Chlorotoluene	4-Chlorotoluene	4-Isopropyl Toluene	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Ethylbenzene	Hexachlorobutadiene
Area8-Bot17-5'	9/16/2014	<0.0049	<0.0049	**0.0055**	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area8-Bot17A-8'	9/24/2014	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
Area8-Bot18-1'	9/16/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area8-SW-E1-2'	9/3/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area8-SW-E2-2'	9/3/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area8-SW-E1A-2'	9/10/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area8-SW-E3-1.5'	9/3/2014	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
Area8-SW-E4-2'	9/3/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area8-SW-E5-2'	9/3/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area8-SW-E6-1.5'	9/3/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area8-SW-E7-2'	9/3/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area8-SW-E8-2.5'	9/3/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area8-SW-E9-2'	9/10/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area8-SW-E10-1.5'	9/10/2014	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
Area8-SW-E11-2'	9/16/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area8-SW-E12-2'	9/16/2014	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047
Area8-SW-E13-2'	9/16/2014	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
Area8-SW-E14-2'	9/16/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area8-SW-E15-2'	9/16/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area8-SW-E16-2'	9/16/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area8-SW-E17-3'	9/16/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area8-SW-E18-0.5'	9/16/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area8-SW-N1-2'	9/10/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area8-SW-S1-1'	9/16/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area8-SW-W1-2'	9/3/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area8-SW-W2-2'	9/3/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area8-SW-W3-2'	9/3/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area8-SW-W4-3'	9/3/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area8-SW-W5-3'	9/3/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area8-SW-W6-3'	9/3/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area8-SW-W7-3'	9/3/2014	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
Area8-SW-W8-3'	9/3/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area8-SW-W9-2'	9/10/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area8-SW-SW12-3'	9/16/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area8-SW-W10-2'	9/10/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area8-SW-W11-2'	9/16/2014	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047
Area8-SW-W13-3'	9/16/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area8-SW-W14-3'	9/16/2014	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
Area8-SW-W15-3'	9/16/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area8-SW-W16-3'	9/16/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area8-SW-W17-3'	9/16/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area8-SW-W18-1'	9/16/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
SWC-1-0.5'	10/3/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
SWC-2-0.5'	10/3/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
SWC-3-0.5'	10/3/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
SWC-4-0.5'	10/3/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
SBFPD Investigation Levels					**0.1**																**70**	

Table 2
Soil Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road
Santa Maria, California

Sample Location	Date	Isopropylbenzene	Methylene Chloride	Naphthalene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Vinyl Chloride	Xylenes (total)
Area8-Bot17-5'	9/16/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	**0.02**	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area8-Bot17A-8'	9/24/2014	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
Area8-Bot18-1'	9/16/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area8-SW-E1-2'	9/3/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area8-SW-E2-2'	9/3/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area8-SW-E1A-2'	9/10/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area8-SW-E3-1.5'	9/3/2014	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
Area8-SW-E4-2'	9/3/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area8-SW-E5-2'	9/3/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area8-SW-E6-1.5'	9/3/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area8-SW-E7-2'	9/3/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area8-SW-E8-2.5'	9/3/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area8-SW-E9-2'	9/10/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area8-SW-E10-1.5'	9/10/2014	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
Area8-SW-E11-2'	9/16/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area8-SW-E12-2'	9/16/2014	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047
Area8-SW-E13-2'	9/16/2014	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
Area8-SW-E14-2'	9/16/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area8-SW-E15-2'	9/16/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area8-SW-E16-2'	9/16/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area8-SW-E17-3'	9/16/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area8-SW-E18-0.5'	9/16/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area8-SW-N1-2'	9/10/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area8-SW-S1-1'	9/16/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area8-SW-W1-2'	9/3/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area8-SW-W2-2'	9/3/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area8-SW-W3-2'	9/3/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area8-SW-W4-3'	9/3/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area8-SW-W5-3'	9/3/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area8-SW-W6-3'	9/3/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area8-SW-W7-3'	9/3/2014	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
Area8-SW-W8-3'	9/3/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area8-SW-W9-2'	9/10/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area8-SW-SW12-3'	9/16/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Area8-SW-W10-2'	9/10/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area8-SW-W11-2'	9/16/2014	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047
Area8-SW-W13-3'	9/16/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area8-SW-W14-3'	9/16/2014	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
Area8-SW-W15-3'	9/16/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area8-SW-W16-3'	9/16/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area8-SW-W17-3'	9/16/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
Area8-SW-W18-1'	9/16/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
SWC-1-0.5'	10/3/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
SWC-2-0.5'	10/3/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
SWC-3-0.5'	10/3/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
SWC-4-0.5'	10/3/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
SBFPD Investigation Levels		**77**		**1.7**	**26**	**26**	**26**		**26**		**15**						**175**

Notes:
All results in milligrams per kilogram (mg/kg)

<10: Concentration less than the associated laboratory Reporting Limit (RL).
J: Estimated concentration detected between the Method Detection Limit and the Reporting Limit.
B: The method blank contains analyte at concentration greater than the RL.
Bold: Concentration > SBFPPD Investigation Level
EPA Method 8260

Table 3
Soil Analytical Results - Polycyclic Aromatic Hydrocarbons
Former Orcutt Refinery
1550 West Stowell Road
Santa Maria, California

Sample Location	Date	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo (a) pyrene	Benzo (b) fluoranthene	Benzo (g,h,i) perylene	Benzo (k) fluoranthene	Chrysene	Dibenz (a,h) anthracene	Fluoranthene	Fluorene	Indeno (1,2,3-cd) pyrene	Naphthalene	Phenanthrene	Pyrene
Area1-Bot1-5'	6/13/2014	<0.075	<0.075	<0.075	<0.075	<0.075	**0.085**	<0.15	<0.075	<0.075	<0.15	<0.075	<0.075	<0.075	<0.15	<0.075	<0.075
Area1-Bot2-5'	6/13/2014	**1.4**	**0.73**	**0.60**	<0.50	<0.12	<0.12	<0.25	<0.12	**0.77**	<0.25	<0.50	**4.9**	<0.12	**2.6**	**14**	**0.63**
Area1-Bot3-5'	6/13/2014	**0.07**	<0.050	<0.050	**0.087**	**0.053**	<0.050	<0.10	<0.050	**0.06**	<0.10	<0.050	**0.14**	<0.050	**0.13**	**0.20**	<0.050
Area1-Bot4-5'	6/13/2014	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.10	<0.050	<0.050	<0.10	<0.050	<0.050	<0.050	<0.10	<0.050	<0.050
Area1-Bot5-5'	6/13/2014	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075	<0.15	<0.075	<0.075	<0.15	<0.075	<0.075	<0.075	<0.15	<0.075	<0.075
Area1-Bot6-6.5'	6/13/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area1-Bot7-5'	6/18/2014	**1.0**	<0.75	<0.75	<0.75	<0.75	<0.75	<1.5	**1.0**	**1.0**	<1.5	<0.75	**4.4**	<0.75	**8.9**	**26**	**0.75**
Area1-Bot8-5'	6/18/2014	<0.050	<0.050	<0.050	<0.050	<0.050	**0.05**	<0.10	**0.053**	<0.050	<0.10	<0.050	<0.050	<0.050	<0.10	**0.063**	<0.050
Area1-Bot9-5'	6/18/2014	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.29	<0.15	<0.15	<0.29	<0.15	<0.15	<0.15	**0.40**	<0.15	<0.15
Area1-Bot10-5'	6/18/2014	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.30	<0.15	<0.15	<0.30	<0.15	<0.15	<0.15	<0.30	**0.55**	<0.15
Area1-Bot11-5'	6/25/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area1-Bot13-5'	6/25/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area1-Bot14-5'	6/25/2014	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.60	<0.30	<0.30	<0.60	<0.30	<0.30	<0.30	**4.2**	<0.30	<0.30
Area1-Bot15-6'	6/25/2014	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.89	<0.44	<0.44	<0.89	<0.44	<0.44	<0.44	<0.89	<0.44	<0.44
Area1-Bot16-6'	6/25/2014	<0.30	<0.30	**0.52**	<0.30	<0.30	<0.30	<0.60	<0.30	**0.32**	<0.60	<0.30	<0.30	<0.30	<0.60	**5.9**	<0.30
Area1-Bot17-6'	6/25/2014	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.10	<0.050	<0.050	<0.10	<0.050	<0.050	<0.050	<0.10	<0.050	<0.050
Area1-Bot18-6'	6/25/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area1-Bot19-8'	7/2/2014	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.050	<0.025	<0.025	<0.050	<0.025	<0.025	<0.025	<0.050	<0.025	<0.025
Area1-Bot20-8'	7/2/2014	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.050	<0.025	<0.025	<0.050	<0.025	<0.025	<0.025	<0.050	<0.025	<0.025
Area1-Bot21-8'	7/2/2014	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.050	<0.025	<0.025	<0.050	<0.025	<0.025	<0.025	**0.18**	<0.025	<0.025
Area1-Bot22-7.5'	7/2/2014	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.050	<0.025	<0.025	<0.050	<0.025	<0.025	<0.025	**0.32**	<0.025	<0.025
Area1-Bot23-7'	7/2/2014	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.10	<0.050	<0.050	<0.10	<0.050	<0.050	<0.050	<0.10	<0.050	<0.050
Area1-Bot24-6.5'	7/9/2014	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.29	<0.15	<0.15	<0.29	<0.15	<0.15	<0.15	<0.29	<0.15	<0.15
Area1-Bot25-6.5'	7/9/2014	**0.10**	<0.075	<0.075	<0.075	<0.075	**0.075**	<0.15	<0.075	<0.075	<0.15	<0.075	<0.075	<0.075	<0.15	**0.39**	<0.075
Area1-Bot26-13'	7/16/2014	**0.89**	**0.47**	<0.44	<0.44	<0.44	<0.44	<0.89	<0.44	**1.3**	<0.89	<0.44	**2.3**	<0.44	**5.4**	**7.6**	**0.83**
Area1-Bot27-13'	7/16/2014	**1.4**	**0.86**	<0.45	<0.45	<0.45	<0.45	<0.89	<0.45	**0.95**	<0.89	<0.45	**3.4**	<0.45	**6.1**	**8.1**	**0.69**
Area1-Bot28-11'	7/23/2014	<0.74	**1.8**	**0.78**	<0.74	<0.74	<0.74	<1.5	<0.74	**2.1**	<1.5	<0.74	**5.2**	<0.74	**16**	**15**	**1.7**
Area1-Bot29-10'	7/23/2014	**1.1**	**1.1**	<0.72	<0.72	<0.72	<0.72	<1.4	<0.72	**1.4**	<1.4	<0.72	**3.2**	<0.72	**7.1**	**11**	**1.2**
Area1-Bot30-11'	7/23/2014	<0.49	**0.89**	**0.52**	<0.49	<0.49	<0.49	<0.98	<0.49	**0.85**	<0.98	<0.49	**4.2**	<0.49	**5.6**	**10**	**0.95**
Area1-Bot31-11'	7/23/2014	<0.48	**0.63**	<0.48	<0.48	<0.48	<0.48	<0.95	<0.48	<0.48	<0.95	<0.48	**2.0**	<0.48	**6.5**	**2.4**	**0.51**
Area1-Bot32-7'	7/30/2014	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.60	<0.30	<0.30	<0.60	<0.30	<0.30	<0.30	**0.78**	<0.30	<0.30
Area1-Bot33-14'	7/30/2014	**0.57**	<0.45	<0.45	<0.45	<0.45	<0.45	<0.90	<0.45	**1.6**	<0.90	<0.45	**1.8**	<0.45	**1.7**	**8.3**	<0.45
Area1-Bot34-14'	7/30/2014	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<1.5	<0.74	**1.9**	<1.5	<0.74	**1.0**	<0.74	<1.5	**7.1**	<0.74
Area1-Bot35-13'	7/30/2014	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.89	<0.45	<0.45	<0.89	<0.45	<0.45	<0.45	<0.89	**0.92**	<0.45
Area1-Bot36-11'	7/30/2014	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	**1.3**	**1.8**	<0.50
Area1-Bot37-11'	7/30/2014	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.30	<0.15	**0.15**	<0.30	<0.15	<0.15	<0.15	<0.30	<0.15	<0.15
Area1-Bot38-12'	7/30/2014	**0.44**	<0.44	<0.44	<0.44	<0.44	<0.44	<0.89	<0.44	**1.0**	<0.89	<0.44	**1.2**	<0.44	**1.1**	**4.9**	<0.44
Area1-Bot39-13'	7/30/2014	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<1.5	<0.75	**1.8**	<1.5	<0.75	**2.6**	<0.75	**1.8**	**11**	<0.75
Area1-Bot40-14'	7/30/2014	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<1.5	<0.74	**1.8**	<1.5	<0.74	**0.84**	<0.74	<1.5	**6.8**	<0.74
Area1-Bot41-8'	7/30/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area1-Bot42-7'	7/30/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area1-Bot43-6'	7/30/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area1-Bot44-6'	7/30/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area1-Bot45-7'	7/30/2014	**0.90**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**0.83**	<1.0	<0.50	**1.8**	<0.50	**1.4**	**6.8**	<0.50
Area1-Bot46-7'	8/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area1-Bot47-7.5'	8/6/2014	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.099	<0.050	<0.050	<0.099	<0.050	<0.050	<0.050	<0.099	<0.050	<0.050
Area1-Bot48-8'	8/6/2014	**0.74**	**0.51**	**1.7**	<0.45	<0.45	**0.71**	<0.89	<0.45	<0.45	<0.89	**0.68**	**3.5**	<0.45	**2.0**	**12**	**0.54**
Area1-Bot49-7'	8/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area1-Bot50-7.5'	8/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area1-Bot51-6'	8/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area1-Bot52-8'	8/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area1-Bot53-4'	8/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area1-Bot54-4'	8/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050

Table 3
Soil Analytical Results - Polycyclic Aromatic Hydrocarbons
Former Orcutt Refinery
1550 West Stowell Road
Santa Maria, California

Sample Location	Date	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo (a) pyrene	Benzo (b) fluoranthene	Benzo (g,h,i) perylene	Benzo (k) fluoranthene	Chrysene	Dibenz (a,h) anthracene	Fluoranthene	Fluorene	Indeno (1,2,3-cd) pyrene	Naphthalene	Phenanthrene	Pyrene
Area1-Bot55-3'	8/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area1-Bot56-4'	8/6/2014	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075	<0.15	<0.075	<0.075	<0.15	<0.075	<0.075	<0.075	<0.15	<0.075	<0.075
Area1-Bot56a-7'	8/18/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area1-Bot57-2.5'	8/7/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area1-Bot58-1.5'	8/7/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area1-Bot59-1.5'	8/7/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area1-Bot60-7'	8/7/2014	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.10	<0.10	<0.20	<0.10	<0.10	<0.10	<0.20	<0.10	**0.15**
Area1-Bot61-1.5'	8/7/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area1-Bot62-7'	8/7/2014	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.10	<0.050	<0.050	<0.10	<0.050	<0.050	<0.050	<0.10	<0.050	<0.050
Area1-Bot63-4'	8/7/2014	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.10	<0.050	<0.050	<0.10	<0.050	<0.050	<0.050	<0.10	<0.050	<0.050
Area1-Bot63a-6'	8/18/2014	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075	<0.15	<0.075	<0.075	<0.15	**0.09**	<0.075	<0.075	<0.15	<0.075	<0.075
Area1-Bot64-4'	8/7/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area1-Bot65-6'	8/18/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area1-Bot66-2'	8/18/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area1-Bot67-1'	8/18/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area1-Bot68-1'	8/18/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area1-Bot69-5.5'	8/18/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area1-Bot70-7'	8/18/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area1-Bot71-7'	8/18/2014	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.10	<0.050	<0.050	<0.10	<0.050	<0.050	<0.050	<0.10	<0.050	<0.050
Area1-Bot72-7'	8/18/2014	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.60	<0.30	<0.30	<0.60	<0.30	<0.30	<0.30	**1.5**	<0.30	<0.30
Area1-Bot73-7'	8/18/2014	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.10	<0.050	<0.050	<0.10	<0.050	<0.050	<0.050	<0.10	<0.050	<0.050
Area1-Bot74-8'	8/18/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area1-Bot75-7'	8/18/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area1-Bot76-2'	8/18/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area1-Bot77-2.5'	8/18/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area1-Bot78-2'	8/18/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area1-Bot79-2'	8/18/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area1-Bot80-7'	8/18/2014	**1.8**	<0.60	**1.7**	<0.60	<0.60	<0.60	<1.2	<0.60	<0.60	<1.2	<0.60	**7.8**	<0.60	<1.2	**9.1**	**1.2**
Area1-SW-W1-2.5'	7/25/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area1-SW-W2-2.5'	7/25/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area1-SW-W3-2'	7/25/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area1-SW-W4-2'	7/25/2014	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.020	<0.010	<0.010	<0.020	<0.010	<0.010	<0.010	<0.020	<0.010	<0.010
Area1-SW-W5-2.5'	8/18/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area1-SW-W6-2.5'	8/18/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area1-SW-W7-1'	8/18/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area1-SW-W8-3'	8/18/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area1-SW-W9-2'	8/18/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	**0.020**	**0.0050**	<0.0050
Area1-SW-W10-2'	8/18/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area1-SW-W11-1'	8/18/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area1-SW-W12-2'	8/18/2014	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.050	<0.025	<0.025	<0.050	<0.025	<0.025	<0.025	<0.050	<0.025	<0.025
Area1-SW-W13-1.5'	8/22/2014	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.89	<0.44	<0.44	<0.89	<0.44	<0.44	<0.44	<0.89	**0.94**	<0.44
Area1-SW-W13A-1.5	9/24/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area1-SW-S1-2'	7/25/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0099	<0.0050	<0.0050	<0.0099	<0.0050	<0.0050	<0.0050	<0.0099	<0.0050	<0.0050
Area1-SW-S2-2.5'	7/25/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area1-SW-S3-2.5'	7/25/2014	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.020	<0.010	**0.012**	<0.020	<0.010	<0.010	<0.010	<0.020	<0.010	<0.010
Area1-SW-S4-2.5'	7/25/2014	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.10	<0.050	<0.050	<0.10	<0.050	<0.050	<0.050	<0.10	<0.050	<0.050
Area1-SW-S5-3'	7/25/2014	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.10	<0.050	<0.050	<0.10	<0.050	<0.050	<0.050	<0.10	<0.050	<0.050
Area1-SW-S5A-2.5'	7/29/2014	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020
Area1-SW-E1-3'	7/25/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area1-SW-E2-2.5'	7/25/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area1-SW-E3-3'	7/30/2014	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.10	<0.050	<0.050	<0.10	<0.050	<0.050	<0.050	<0.10	<0.050	<0.050
Area1-SW-E3A-2'	8/12/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area1-SW-E4-2'	7/30/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0099	<0.0050	<0.0050	<0.0099	<0.0050	<0.0050	<0.0050	<0.0099	<0.0050	<0.0050

Table 3
Soil Analytical Results - Polycyclic Aromatic Hydrocarbons
Former Orcutt Refinery
1550 West Stowell Road
Santa Maria, California

Sample Location	Date	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo (a) pyrene	Benzo (b) fluoranthene	Benzo (g,h,i) perylene	Benzo (k) fluoranthene	Chrysene	Dibenz (a,h) anthracene	Fluoranthene	Fluorene	Indeno (1,2,3-cd) pyrene	Naphthalene	Phenanthrene	Pyrene
Area1-SW-E5-2'	8/7/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area1-SW-E6-2.5'	8/7/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area1-SW-E7-2'	8/7/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area1-SW-E8-2'	8/7/2014	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.10	<0.050	<0.050	<0.10	<0.050	<0.050	<0.050	<0.10	<0.050	<0.050
Area1-SW-E8a-3'	8/18/2014	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.10	<0.050	<0.050	<0.10	<0.050	<0.050	<0.050	<0.10	<0.050	<0.050
Area1-SW-E8b-1.5'	8/18/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0099	<0.0050	<0.0050	<0.0099	<0.0050	<0.0050	<0.0050	<0.0099	<0.0050	<0.0050
Area1-SW-E9-2'	8/7/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area1-SW-E10-1.5'	8/7/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area1-SW-E11-1.5'	8/7/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0099	<0.0050	<0.0050	<0.0099	<0.0050	<0.0050	<0.0050	<0.0099	<0.0050	<0.0050
Area1-SW-N10-3'	9/24/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area1-SW-N1-3'	9/22/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area1-SW-N2-3'	9/22/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area1-SW-N3-3'	9/23/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area1-SW-N4-3'	9/23/2014	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	**0.033**	<0.010	<0.010	<0.020	<0.010	<0.010	<0.010	<0.020	<0.010	<0.010
Area1-SW-N5-3'	9/23/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area1-SW-N6-3'	9/23/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area1-SW-N7-3'	9/23/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area1-SW-N8-3'	9/24/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area1-SW-N9-3'	9/24/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area1-PH1-5.5'	6/26/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area1-PH2-6'	6/26/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0099	<0.0050	<0.0050	<0.0099	<0.0050	<0.0050	<0.0050	<0.0099	<0.0050	<0.0050
Area1-PH3-7'	6/26/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0099	<0.0050	<0.0050	<0.0099	<0.0050	<0.0050	<0.0050	<0.0099	<0.0050	<0.0050
Area1-PH4-7'	6/26/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area1/6-Bot1-7'	8/22/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area1/6-Bot2-7'	8/22/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area2-Bot1-5.5'	5/29/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area2-Bot2-5.5'	5/29/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0099	<0.0050	<0.0050	<0.0099	<0.0050	<0.0050	<0.0050	<0.0099	<0.0050	<0.0050
Area2-Bot3-5.5'	5/29/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area2-Bot4-5.5'	5/29/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area2-SW-E1-2'	5/29/2014	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.10	<0.050	<0.050	<0.10	<0.050	<0.050	<0.050	<0.10	<0.050	<0.050
Area2-SW-N1-2'	5/29/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	**0.011**	<0.0050	**0.0066**	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area2-SW-N2-2'	5/29/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area2-SW-S1-2'	5/29/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area2-SW-S2-2'	5/29/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0099	<0.0050	<0.0050	<0.0099	<0.0050	<0.0050	<0.0050	<0.0099	<0.0050	<0.0050
Area2-SW-W1-2'	5/29/2014	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075	<0.15	<0.075	<0.075	<0.15	<0.075	<0.075	<0.075	<0.15	<0.075	<0.075
Area2-SW-W2-2'	5/29/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0099	<0.0050	<0.0050	<0.0099	<0.0050	<0.0050	<0.0050	<0.0099	<0.0050	<0.0050
Area3-Bot1-7.5'	6/10/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area3-Bot2-7.5'	6/10/2014	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.10	<0.050	<0.050	<0.10	<0.050	<0.050	<0.050	<0.10	<0.050	<0.050
Area3-Bot3-7.5'	6/10/2014	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.10	<0.050	<0.050	<0.10	<0.050	<0.050	<0.050	<0.10	<0.050	<0.050
Area3-Bot4-3'	8/12/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area3-Bot5-4'	8/12/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area3-SW-E2-3'	6/19/2014	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.10	<0.050	<0.050	<0.10	<0.050	<0.050	<0.050	<0.10	<0.050	<0.050
Area3-SW-N1-3'	6/10/2014	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.10	<0.050	<0.050	<0.10	<0.050	<0.050	<0.050	<0.10	<0.050	<0.050
Area3-SW-N2-3'	6/10/2014	<0.0050	<0.0050	<0.0050	**0.0097**	**0.015**	**0.037**	**0.013**	**0.016**	**0.017**	<0.010	**0.013**	<0.0050	**0.010**	<0.010	<0.0050	**0.011**
Area3-SW-N3-2'	8/22/2014	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075	<0.15	<0.075	<0.075	<0.15	<0.075	<0.075	<0.075	<0.15	<0.075	<0.075
Area3-SW-N4-2'	8/22/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area3-SW-N5-2'	8/22/2014	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075	<0.15	<0.075	<0.075	<0.15	<0.075	<0.075	<0.075	<0.15	<0.075	<0.075
Area3-SW-S1-3.5'	6/10/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0099	<0.0050	<0.0050	<0.0099	<0.0050	<0.0050	<0.0050	<0.0099	<0.0050	<0.0050
Area3-SW-W1-3'	6/10/2014	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.10	<0.050	<0.050	<0.10	<0.050	<0.050	<0.050	<0.10	<0.050	<0.050
Area3-SW-W2-3'	6/19/2014	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.88	<0.44	<0.44	<0.88	<0.44	<0.44	<0.44	<0.88	**1.1**	<0.44
Area3-SW-W3-1'	8/12/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area3-SW-W4-1'	8/12/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area3-SW-W5-1.5'	8/12/2014	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.050	<0.025	<0.025	<0.050	<0.025	<0.025	<0.025	<0.050	<0.025	<0.025

Table 3
Soil Analytical Results - Polycyclic Aromatic Hydrocarbons
Former Orcutt Refinery
1550 West Stowell Road
Santa Maria, California

Sample Location	Date	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo (a) pyrene	Benzo (b) fluoranthene	Benzo (g,h,i) perylene	Benzo (k) fluoranthene	Chrysene	Dibenz (a,h) anthracene	Fluoranthene	Fluorene	Indeno (1,2,3-cd) pyrene	Naphthalene	Phenanthrene	Pyrene
Area3-SW-W6-3'	8/12/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area3-SW-W7-2'	8/18/2014	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075	<0.15	<0.075	<0.075	<0.15	<0.075	<0.075	<0.075	<0.15	<0.075	<0.075
Area4-Bot1-7.5'	6/6/2014	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.94	<0.47	<0.47	<0.94	<0.47	<0.47	<0.47	<0.94	<0.47	<0.47
Area4-Bot2-7.5'	6/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area4-Bot3-8'	6/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area4-Bot4-6.5'	6/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0099	<0.0050	<0.0050	<0.0099	<0.0050	<0.0050	<0.0050	<0.0099	<0.0050	<0.0050
Area4-Bot5-6.5'	6/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0099	<0.0050	<0.0050	<0.0099	<0.0050	<0.0050	<0.0050	<0.0099	<0.0050	<0.0050
Area4-Bot6-7'	6/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area4-Bot7-7.5'	6/10/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area4-SW-E1-3'	6/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	**0.0056**
Area4-SW-N1-2'	6/6/2014	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.95	<0.47	**1.0**	<0.95	<0.47	<0.47	<0.47	<0.95	**0.57**	**0.73**
Area4-SW-N1a-3'	8/18/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0099	<0.0050	<0.0050	<0.0099	<0.0050	<0.0050	<0.0050	<0.0099	<0.0050	<0.0050
Area4-SW-N2-3'	6/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area4-SW-N3-3'	6/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area4-SW-N4-3'	6/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area4-SW-N5-3'	6/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area4-SW-N6-3'	6/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area4-SW-S1-3'	6/6/2014	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.59	<0.30	<0.30	<0.59	<0.30	<0.30	<0.30	<0.59	<0.30	<0.30
Area4-SW-S2-3'	6/6/2014	**0.71**	**0.63**	**0.41**	<0.30	<0.30	<0.30	<0.59	<0.30	**0.93**	<0.59	**0.34**	**3.5**	<0.30	**3.9**	**7.1**	**0.63**
Area4-SW-S3-3'	6/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area4-SW-S4-3'	6/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area4-SW-S5-3'	6/6/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area4-SW-S6-1.5'	7/2/2014	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.96	<0.48	<0.48	<0.96	<0.48	<0.48	<0.48	<0.96	<0.48	<0.48
Area4-SW-S7-1.5'	7/2/2014	**0.66**	<0.47	<0.47	<0.47	<0.47	<0.47	<0.95	<0.47	**0.79**	<0.95	**0.47**	**2.3**	<0.47	**4.4**	**9.2**	**0.79**
Area4-SW-S8-1.5'	7/2/2014	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.60	<0.30	<0.30	<0.60	<0.30	<0.30	<0.30	<0.60	<0.30	<0.30
Area4-SW-S9-1'	7/2/2014	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.59	<0.30	<0.30	<0.59	<0.30	<0.30	<0.30	<0.59	<0.30	<0.30
Area4-SW-W1-2'	6/6/2014	**0.013**	<0.0050	**0.0073**	**0.0083**	**0.0050**	**0.0077**	<0.010	**0.0050**	**0.022**	<0.010	**0.030**	**0.010**	<0.0050	<0.010	**0.083**	**0.034**
Area5-Bot1-1.5'	7/9/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area6-Bot1-5'	7/11/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area6-Bot2-6'	7/11/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0099	<0.0050	<0.0050	<0.0099	<0.0050	<0.0050	<0.0050	<0.0099	<0.0050	<0.0050
Area6-Bot3-7'	7/11/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0099	<0.0050	<0.0050	<0.0099	<0.0050	<0.0050	<0.0050	<0.0099	<0.0050	<0.0050
Area6-SW-E1-3'	7/11/2014	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.10	<0.050	<0.050	<0.10	<0.050	<0.050	<0.050	<0.10	<0.050	<0.050
Area6-SW-E2-2.5'	7/11/2014	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075	<0.15	<0.075	<0.075	<0.15	<0.075	<0.075	<0.075	<0.15	<0.075	<0.075
Area6-SW-E3-2'	7/15/2014	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.10	<0.050	<0.050	<0.10	<0.050	<0.050	<0.050	<0.10	<0.050	<0.050
Area6-SW-N1-3'	7/11/2014	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.10	<0.050	<0.050	<0.10	<0.050	<0.050	<0.050	<0.10	<0.050	<0.050
Area6-SW-N2-3'	7/11/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area6-SW-S1-2'	7/11/2014	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.10	<0.050	<0.050	<0.10	<0.050	<0.050	<0.050	<0.10	<0.050	<0.050
Area6-SW-S2-2'	7/11/2014	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.099	<0.050	<0.050	<0.099	<0.050	<0.050	<0.050	<0.099	<0.050	<0.050
Area6-SW-W1-3'	7/11/2014	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075	<0.15	<0.075	<0.075	<0.15	<0.075	<0.075	<0.075	<0.15	<0.075	<0.075
Area7-Bot1-3'	7/15/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0099	<0.0050	<0.0050	<0.0099	<0.0050	<0.0050	<0.0050	<0.0099	<0.0050	<0.0050
Area7-Bot2-4'	7/15/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area7-Bot3-7'	7/15/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area7-Bot4-6'	7/15/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area7-Bot5-3'	7/15/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area7-Bot5A-4'	7/22/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0099	<0.0050	<0.0050	<0.0099	<0.0050	<0.0050	<0.0050	<0.0099	<0.0050	<0.0050
Area7-Bot6-3'	7/22/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0099	<0.0050	<0.0050	<0.0099	<0.0050	<0.0050	<0.0050	<0.0099	<0.0050	<0.0050
Area7-SW-E1-1'	7/22/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0099	<0.0050	<0.0050	<0.0099	<0.0050	<0.0050	<0.0050	<0.0099	<0.0050	<0.0050
Area7-SW-N1-1'	7/22/2014	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.050	<0.025	<0.025	<0.050	<0.025	<0.025	<0.025	<0.050	<0.025	<0.025
Area7-SW-N2-1'	7/22/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area7-SW-N3-1.5'	7/22/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area7-SW-N4-2'	7/22/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0099	<0.0050	<0.0050	<0.0099	<0.0050	<0.0050	<0.0050	<0.0099	<0.0050	<0.0050
Area7-SW-N5-2'	7/22/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area7-SW-N6-1'	7/22/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050

Table 3
Soil Analytical Results - Polycyclic Aromatic Hydrocarbons
Former Orcutt Refinery
1550 West Stowell Road
Santa Maria, California

Sample Location	Date	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo (a) pyrene	Benzo (b) fluoranthene	Benzo (g,h,i) perylene	Benzo (k) fluoranthene	Chrysene	Dibenz (a,h) anthracene	Fluoranthene	Fluorene	Indeno (1,2,3-cd) pyrene	Naphthalene	Phenanthrene	Pyrene
Area7-SW-S1-1.5'	7/22/2014	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.050	<0.025	<0.025	<0.050	<0.025	<0.025	<0.025	<0.050	<0.025	<0.025
Area7-SW-S2-1'	7/22/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area7-SW-S3-1.5'	7/22/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area7-SW-S4-2.5'	7/22/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area7-SW-S5-1'	7/22/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0099	<0.0050	<0.0050	<0.0099	<0.0050	<0.0050	<0.0050	<0.0099	<0.0050	<0.0050
Area7-SW-S6-1'	7/22/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area7-SW-W1-1.5'	7/22/2014	<0.0099	<0.0099	<0.0099	<0.0099	<0.0099	<0.0099	<0.020	<0.0099	<0.0099	<0.020	<0.0099	<0.0099	<0.0099	<0.020	<0.0099	<0.0099
Area8-Bot1-5'	9/3/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area8-Bot2-5'	9/3/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area8-Bot3-5'	9/3/2014	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075	<0.15	<0.075	<0.075	<0.15	<0.075	<0.075	<0.075	<0.15	<0.075	<0.075
Area8-Bot3A-6'	9/10/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area8-Bot4-7'	9/10/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	**0.015**	<0.0050
Area8-Bot5-7'	9/10/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area8-Bot6-7'	9/10/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area8-Bot7-7'	9/10/2014	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.050	<0.025	<0.025	<0.050	<0.025	<0.025	<0.025	<0.050	<0.025	<0.025
Area8-Bot8-7'	9/10/2014	**0.78**	<0.075	**0.26**	**0.18**	<0.075	<0.075	<0.15	<0.075	**0.14**	<0.15	<0.075	**0.24**	<0.075	**4.3**	**4.7**	<0.075
Area8-Bot9-5'	9/10/2014	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.050	<0.025	<0.025	<0.050	<0.025	<0.025	<0.025	<0.050	<0.025	<0.025
Area8-Bot10-6'	9/10/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0099	<0.0050	<0.0050	<0.0099	<0.0050	<0.0050	<0.0050	<0.0099	<0.0050	<0.0050
Area8-Bot11-8'	9/16/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area8-Bot12-7'	9/16/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area8-Bot13-6'	9/16/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area8-Bot14-6'	9/16/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0099	<0.0050	<0.0050	<0.0099	<0.0050	<0.0050	<0.0050	<0.0099	<0.0050	<0.0050
Area8-Bot15-7'	9/16/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	**0.0096**	<0.0050
Area8-Bot16-8'	9/16/2014	<1.2	<1.2	<1.2	**1.3**	<1.2	<1.2	<2.4	<1.2	<1.2	<2.4	<1.2	<1.2	<1.2	**4.0**	**18**	**1.7**
Area8-Bot17-5'	9/16/2014	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.90	<0.45	<0.45	<0.90	<0.45	<0.45	<0.45	<0.90	**1.5**	**1.5**
Area8-Bot17A-8'	9/24/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	**0.026**	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area8-Bot18-1'	9/16/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area8-SW-E1-2'	9/3/2014	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075	<0.15	<0.075	<0.075	<0.15	<0.075	<0.075	<0.075	<0.15	<0.075	<0.075
Area8-SW-E1A-2'	9/10/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area8-SW-E2-2'	9/3/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area8-SW-E3-1.5'	9/3/2014	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075	<0.15	<0.075	<0.075	<0.15	<0.075	<0.075	<0.075	<0.15	<0.075	<0.075
Area8-SW-E4-2'	9/3/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area8-SW-E5-2'	9/3/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area8-SW-E6-1.5'	9/3/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0099	<0.0050	<0.0050	<0.0099	<0.0050	<0.0050	<0.0050	<0.0099	<0.0050	<0.0050
Area8-SW-E7-2'	9/3/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area8-SW-E8-2.5'	9/3/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0099	<0.0050	<0.0050	<0.0099	<0.0050	<0.0050	<0.0050	<0.0099	<0.0050	<0.0050
Area8-SW-E9-2'	9/10/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area8-SW-E10-1.5'	9/10/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area8-SW-E11-2'	9/16/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0099	<0.0050	<0.0050	<0.0099	<0.0050	<0.0050	<0.0050	<0.0099	<0.0050	<0.0050
Area8-SW-E12-2'	9/16/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area8-SW-E13-2'	9/16/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area8-SW-E14-2'	9/16/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area8-SW-E15-2'	9/16/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area8-SW-E16-2'	9/16/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area8-SW-E17-3'	9/16/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area8-SW-E18-0.5'	9/16/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area8-SW-N1-2'	9/10/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area8-SW-S1-1'	9/16/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area8-SW-SW12-3'	9/16/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area8-SW-W1-2'	9/3/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area8-SW-W2-2'	9/3/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area8-SW-W3-2'	9/3/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area8-SW-W4-3'	9/3/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050

Table 3
Soil Analytical Results - Polycyclic Aromatic Hydrocarbons
Former Orcutt Refinery
1550 West Stowell Road
Santa Maria, California

Sample Location	Date	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo (a) pyrene	Benzo (b) fluoranthene	Benzo (g,h,i) perylene	Benzo (k) fluoranthene	Chrysene	Dibenz (a,h) anthracene	Fluoranthene	Fluorene	Indeno (1,2,3-cd) pyrene	Naphthalene	Phenanthrene	Pyrene
Area8-SW-W5-3'	9/3/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area8-SW-W6-3'	9/3/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area8-SW-W7-3'	9/3/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area8-SW-W8-3'	9/3/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area8-SW-W9-2'	9/10/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area8-SW-W10-2'	9/10/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area8-SW-W11-2'	9/16/2014	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075	<0.15	<0.075	<0.075	<0.15	<0.075	<0.075	<0.075	<0.15	<0.075	<0.075
Area8-SW-W13-3'	9/16/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area8-SW-W14-3'	9/16/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area8-SW-W15-3'	9/16/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area8-SW-W16-3'	9/16/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area8-SW-W17-3'	9/16/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
Area8-SW-W18-1'	9/16/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
SWC-1-0.5'	10/3/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
SWC-2-0.5'	10/3/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
SWC-3-0.5'	10/3/2014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050
SWC-4-0.5'	10/3/2014	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	**0.031**	<0.010	<0.010	<0.020	<0.010	<0.010	<0.010	<0.020	<0.010	<0.010
SBFPD Investigation Levels		**29**	**29**	**590**	**0.08**	**0.062**	**0.2**	**-**	**0.38**	**3.8**	**0.062**	**210**	**28**	**0.62**	**1.7**	**5**	**10**

Notes:

All results in milligrams per kilogram (mg/kg)

<2.5: Concentration less than the associated laboratory Reporting Limit (RL).

J: Estimated concentration detected between the Method Detection Limit and the Reporting Limit.

Bold: Concentration > SBFPPD Investigation Level

EPA Method 8270M (SIM)

VERIFICATION SOIL DATA

Table 2
Summary of QA-SB37 Assessment Soil Sample Analytical Results
TPH
Former Orcutt Refinery, 1550 West Stowell Road
Santa Maria, Santa Barbara County, California

Sample ID	Date Collected	TPH C_4-C_{12}	TPH C_{13}-C_{22}	TPH C_{23}-C_{40}	TPH C_4-C_{40}*
QA-SB37A-15'	12/12/2017	<0.50	<9.9	<50	<60.40
QA-SB37A-20'	12/12/2017	<0.50	<10	<50	<60.50
QA-SB37A-25'	12/12/2017	<0.50	<10	<50	<60.50
ESL / CLEANUP GOAL		100	230	5,100	1,000

Notes:

All results in milligrams per kilogram (mg/kg).

<10 = not indicated at or above the method reporting limit.

TPH = total petroleum hydrocarbons.

* = Sum of the three specified TPH carbon ranges (C_4-C_{12}, C_{13}-C_{22}, and C_{23}-C_{40}).

Sum of TPH does not include J flag (estimated) results.

ESL = California Regional Water Quality Control Board, San Fransisco Bay Region, Environmental Screening Levels (Tier 1 Values, February 2016).

Table 3
Summary of Verification Soil Sample Analytical Results
TPH
Former Orcutt Refinery, 1550 West Stowell Road
Santa Maria, Santa Barbara County, California

Sample ID	Date Collected	TPH C_4-C_{12}	TPH C_{13}-C_{22}	TPH C_{23}-C_{40}	TPH C_4-C_{40}*
BF-1-1'	11/28/2017	<0.51	**19**	**210**	**229**
BF-1-4'	11/28/2017	<0.49	<10	<50	<60.49
BF-1-7'	11/28/2017	<0.51	<10	<50	<60.51
BF-2-1'	11/28/2017	<0.50	**17**	**340**	**357**
BF-2-4'	11/28/2017	<0.51	<10	<50	<60.51
BF-2-7'	11/28/2017	<0.50	<10	<50	<60.50
BF-3-1'	11/28/2017	<0.50	**38**	**480**	**518**
BF-3-4'	11/28/2017	<0.50	<9.9	<50	<60.40
BF-3-7'	11/28/2017	<0.51	<10	<50	<60.51
BF-4-1'	11/28/2017	<0.51	**26**	**230**	**256**
BF-4-4'	11/28/2017	<0.49	<10	<50	<60.49
BF-4-7'	11/28/2017	<0.49	<10	<50	<60.49
BF-5-1'	11/28/2017	<0.51	<9.9	<50	<60.41
BF-5-4'	11/28/2017	<0.51	<9.9	<50	<60.41
BF-5-7'	11/28/2017	<0.50	<9.9	<50	<60.40
OB-1	12/1/2017	<0.49	8.1 J	<50	<60.49
OB-2	1/12/2018	<0.50	**15**	**130**	**145**
OB-3	1/12/2018	<0.49	<10	**71**	**71**
OB-4	1/12/2018	<0.50	**11**	**120**	**131**
OB-5	1/12/2018	<0.49	<10	<50	<60.49
OB-6	1/31/2018	<0.50	7.8 J	<50	<60.40
SP-VS-1	2/28/2018	<0.49	<10	<50	<60.49
SP-VS-2	2/28/2018	<0.50	<9.9	<50	<60.40
SP-VS-3	2/28/2018	<0.49	**380**	**1,500**	**1,880**
SP-VS3R	3/5/2018	<0.49	<10	<50	<60.49
SP-VS-4	2/28/2018	<0.50	**12**	**62**	**74**
SP-VS-5	2/28/2018	<0.50	<10	<50	<60.50
VS-1-4'	12/1/2017	<0.50	<10	<50	<60.50
VS-2-4'	12/1/2017	<0.50	<9.9	<50	<60.40
VS-3-2'	12/1/2017	<0.51	**12**	**56**	**68**
VS-4-2.5'	12/1/2017	<0.50	**52**	**240**	**292**
VS-5-3'	12/1/2017	<0.51	<9.9	<50	<60.41
VS-6-2'	12/1/2017	<0.51	**140**	**600**	**740**
VS-7-2.5'	12/1/2017	<0.49	**110**	**900**	**1,010**
VS-7R-5'	12/7/2017	<0.50	<10	<50	<60.50
VS-8-2'	12/1/2017	<0.50	**100**	**530**	**630**
VS-9-1.5'	12/1/2017	<0.50	**44**	**300**	**344**
VS-10-1.5'	12/1/2017	<0.50	**110**	**470**	**580**

Table 3
Summary of Verification Soil Sample Analytical Results
TPH
Former Orcutt Refinery, 1550 West Stowell Road
Santa Maria, Santa Barbara County, California

Sample ID	Date Collected	TPH C_4-C_{12}	TPH C_{13}-C_{22}	TPH C_{23}-C_{40}	TPH C_4-C_{40}*
VS-11-2'	12/1/2017	<0.50	**44**	**370**	**414**
VS-12-2'	12/1/2017	<0.50	**34**	**340**	**374**
VS-13-1'	12/1/2017	<0.50	**59**	**290**	**349**
VS-14-1.5'	12/1/2017	<0.51	**29**	**170**	**199**
VS-15-1'	12/1/2017	<0.50	**71**	**410**	**481**
VS-16-1.5'	12/1/2017	<0.50	**15**	**78**	**93**
VS-17-5'	12/7/2017	<0.50	**18**	**110**	**128**
VS-18-4'	12/7/2017	<0.50	<10	<50	<60.50
VS-19-5'	12/7/2017	<0.50	<10	<50	<60.50
VS-20-9'	12/7/2017	<0.51	**100**	**620**	**720**
VS-21-1'	12/7/2017	<0.50	**99**	**690**	**789**
VS-22-1'	12/7/2017	<0.49	**19**	**78**	**97**
VS-23-1'	12/7/2017	<0.50	<9.9	<50	<60.40
VS-24-1'	12/7/2017	<0.50	**19**	**130**	**149**
VS-25-2.5'	12/7/2017	<0.49	<10	<50	<60.49
VS-26-1'	12/15/2017	<0.50	**20**	<50	**20**
VS-27-1'	12/15/2017	<0.50	**24**	**100**	**124**
VS-28-2.5'	12/15/2017	<0.50	<10	<50	<60.50
VS-29-3'	12/15/2017	<0.50	**97**	**400**	**497**
VS-30-2'	12/15/2017	<0.50	<20	<99	<119.50
VS-31-5.5'	12/15/2017	<0.50	**69**	**350**	**419**
VS-32-1.5'	12/15/2017	<0.50	<10	<50	<60.50
VS-33-1.5'	12/15/2017	<0.50	**190**	**970**	**1,160**
VS-33R-1.5'	12/22/2017	<0.50	**98**	**780**	**878**
VS-34-2.5'	12/15/2017	<0.50	<10	<50	<60.50
VS-35-2'	12/15/2017	<0.50	**91**	**460**	**551**
VS-36-2.5'	12/15/2017	<0.50	**46**	**180**	**226**
VS-37-3'	12/15/2017	<0.50	<10	<50	<60.50
VS-38-2'	12/15/2017	<0.50	**230**	**1,500**	**1,730**
VS-38R-2'	12/22/2017	<0.48	**220**	**1,400**	**1,620**
VS-38R2-2'	1/19/2018	<0.50	**95**	**450**	**545**
VS-39-1'	12/15/2017	<0.50	**97**	**670**	**767**
VS-40-2.5'	12/15/2017	<0.51	**45**	**61**	**106**
VS-41-1.5'	12/15/2017	<0.50	**64**	**420**	**484**
VS-42-1.5'	12/15/2017	<0.50	**11**	**51**	**62**
VS-43-1'	12/15/2017	<0.50	**43**	**180**	**223**
VS-44-3'	12/15/2017	<0.50	<10	<50	<60.50
VS-45-1.5'	12/15/2017	<0.50	**51**	**370**	**421**

Table 3
Summary of Verification Soil Sample Analytical Results
TPH
Former Orcutt Refinery, 1550 West Stowell Road
Santa Maria, Santa Barbara County, California

Sample ID	Date Collected	TPH C_4-C_{12}	TPH C_{13}-C_{22}	TPH C_{23}-C_{40}	TPH C_4-C_{40}*
VS-46-1.5'	12/15/2017	<0.50	**55**	**320**	**375**
VS-47-2.5'	12/15/2017	<0.49	<10	<50	<60.49
VS-48-1'	12/15/2017	<0.50	**400**	**1,300**	**1,700**
VS-48R-1'	12/22/2017	<0.49	**520**	**2,900**	**3,420**
VS-48R2-2'	1/19/2018	<0.50	**560**	**2,100**	**2,660**
VS-48R3-3'	1/25/2018	<0.50	**92**	**120**	**212**
VS-49-2'	12/22/2017	<0.50	**120**	**760**	**880**
VS-50-2'	12/22/2017	<0.50	**380**	**2,300**	**2,680**
VS-50R-3'	1/19/2018	<0.50	<10	<50	<60.50
VS-51-3'	12/22/2017	<0.49	**99**	**680**	**779**
VS-52-4'	12/22/2017	<0.49	**660**	**2,300**	**2,960**
VS-52R-5'	1/19/2018	<0.50	**110**	**430**	**540**
VS-53-2'	12/22/2017	<0.49	**35**	**240**	**275**
VS-54-2'	12/22/2017	<0.49	**37**	**480**	**517**
VS-55-5'	12/22/2017	<0.50	**54**	**76**	**130**
VS-56-3.5'	12/22/2017	<0.48	**480**	**1,800**	**2,280**
VS-56R-5'	1/19/2018	<0.50	**120**	**390**	**510**
VS-57-1'	12/22/2017	<0.49	**42**	**230**	**272**
VS-58-5'	12/22/2017	<0.49	**32**	**220**	**252**
VS-59-1.5'	12/22/2017	<0.49	**120**	**900**	**1,020**
VS-59R-2.5'	1/19/2018	<0.50	**46**	**270**	**316**
VS-60-3.5'	12/22/2017	<0.49	<10	<50	<60.49
VS-61-2'	12/22/2017	<0.50	**170**	**1,600**	**1,770**
VS-61R-4'	1/19/2018	<0.50	**140**	**500**	**640**
VS-62-3.5'	12/22/2017	<0.49	**11**	**65**	**76**
VS-63-1.5'	12/22/2017	<0.49	<10	<50	<60.49
VS-64-3.5'	12/22/2017	<0.49	<10	<50	<60.49
VS-65-4'	12/22/2017	<0.49	<10	<50	<60.49
VS-66-3.5'	12/22/2017	<0.50	<10	<50	<60.50
VS-67-3'	12/22/2017	<0.50	<10	<50	<60.50
VS-68-1.5'	12/22/2017	<0.51	<10	<50	<60.51
VS-69-4.5'	12/22/2017	<0.50	<10	<50	<60.50
VS-70-2'	12/22/2017	<0.49	<10	<50	<60.49
VS-71-3.5'	12/22/2017	<0.50	**37**	**240**	**277**
VS-72-3'	12/22/2017	<0.50	<10	<50	<60.50
VS-73-6'	12/22/2017	<0.50	**49**	**200**	**249**
VS-74-4'	12/22/2017	<0.49	**49**	**230**	**279**
VS-75-3'	12/22/2017	<0.50	<10	<50	<60.50

Table 3
Summary of Verification Soil Sample Analytical Results
TPH
Former Orcutt Refinery, 1550 West Stowell Road
Santa Maria, Santa Barbara County, California

Sample ID	Date Collected	TPH C_4-C_{12}	TPH C_{13}-C_{22}	TPH C_{23}-C_{40}	TPH C_4-C_{40}*
VS-76-3'	12/22/2017	<0.50	<10	<50	<60.50
VS-77-3'	12/22/2017	<0.50	<10	<50	<60.50
VS-78-4'	12/22/2017	<0.49	<9.9	<50	<60.39
VS-79-3'	12/22/2017	<0.50	**54**	**280**	**334**
VS-80-5'	12/22/2017	<0.50	<10	<50	<60.50
VS-81-3'	12/22/2017	<0.50	<10	<50	<60.50
VS-82-2'	12/22/2017	<0.49	<10	<50	<60.49
VS-83-3'	12/22/2017	<0.50	<10	<50	<60.50
VS-84-3'	12/22/2017	<0.49	**390**	**1,100**	**1,490**
VS-84R-3'	1/19/2018	<0.51	**750**	**2,600**	**3,350**
VS-84R2-3'	1/25/2018	<0.50	**49**	**140**	**189**
VS-85-2'	12/22/2017	<0.50	<10	<50	<60.50
VS-86-3'	12/22/2017	<0.49	**470**	**180**	**650**
VS-86R-3.5'	1/19/2018	<0.50	<9.9	<50	<60.40
VS-87-3'	1/19/2018	<0.50	<10	<50	<60.50
VS-88-5'	1/19/2018	<0.50	<10	<50	<60.50
VS-89-2'	1/19/2018	<0.50	<10	<50	<60.50
VS-90-2'	1/19/2018	<0.50	<10	<50	<60.50
VS-91-4'	1/19/2018	<0.51	**15**	<50	**15**
VS-92-3'	1/19/2018	<0.50	<10	<50	<60.50
VS-93-7'	1/19/2018	**1,200**	**1,600**	**160**	**2,960**
VS-94-7'	1/19/2018	**1,300**	**1,300**	**490**	**3,090**
VS-95-8'	1/19/2018	**390**	**620**	**340**	**1,350**
VS-96-7'	1/19/2018	**900**	**510**	**490**	**1,900**
VS-97-2'	1/19/2018	<0.50	<10	<50	<60.50
VS-98-6'	1/19/2018	<0.50	<10	<50	<60.50
VS-99-4'	1/19/2018	<0.50	<9.9	<50	<60.40
VS-100-3'	1/19/2018	<0.50	<10	<50	<60.50
VS-101-3'	1/19/2018	<0.50	<10	<50	<60.50
VS-102-3'	1/19/2018	<0.50	8.1 J	<50	<60.50
VS-103-4'	1/19/2018	<0.50	<10	<50	<60.50
VS-104-3'	1/19/2018	<0.50	<10	<50	<60.50
VS-105-3'	1/19/2018	<0.50	<9.9	<50	<60.40
VS-106-3.5'	1/19/2018	<0.50	<9.9	<50	<60.40
VS-107-2'	1/19/2018	<0.50	<10	<50	<60.50
VS-108-3.5'	1/19/2018	<0.50	<9.9	<50	<60.40
VS-109-3'	1/19/2018	<0.50	<9.9	<50	<60.40
VS-110-5'	1/19/2018	<0.50	<10	<50	<60.50

Table 3
Summary of Verification Soil Sample Analytical Results
TPH
Former Orcutt Refinery, 1550 West Stowell Road
Santa Maria, Santa Barbara County, California

Sample ID	Date Collected	TPH C_4-C_{12}	TPH C_{13}-C_{22}	TPH C_{23}-C_{40}	TPH C_4-C_{40}*
VS-111-8'	1/19/2018	<0.50	<10	<50	<60.50
VS-112-3'	1/19/2018	<0.50	<10	<50	<60.50
VS-113-3'	1/19/2018	<0.50	<10	<50	<60.50
VS-114-2.5'	1/19/2018	<0.50	<10	<50	<60.50
VS-115-3'	1/19/2018	<0.50	<10	<50	<60.50
VS-116-3'	1/19/2018	<0.50	**59**	**900**	**959**
VS-117-7.5'	1/19/2018	<0.50	<10	<50	<60.50
VS-118-3'	1/25/2018	<0.50	<9.9	<50	<60.40
VS-119-3'	1/25/2018	<0.50	9.2 J	**64**	**64**
VS-120-3'	1/25/2018	<0.50	<10	<50	<60.50
VS-121-4'	1/25/2018	<0.50	**50**	**130**	**180**
VS-122-3.5'	1/25/2018	<0.50	<10	<50	<60.50
VS-123-3'	1/25/2018	<0.50	<9.9	<50	<60.40
VS-124-3'	1/25/2018	<0.50	<10	<50	<60.50
VS-125-5'	1/25/2018	<0.50	<9.9	<50	<60.40
VS-126-3'	1/25/2018	<0.50	<9.9	<50	<60.40
VS-127-2'	1/25/2018	<0.50	<10	<50	<60.50
VS-128-5'	1/25/2018	<0.50	<10	<50	<60.50
VS-129-2'	1/25/2018	<0.50	<10	<50	<60.50
VS-130-3'	1/25/2018	<0.50	<10	<50	<60.50
VS-131-5'	1/25/2018	<0.50	<9.9	<50	<60.40
VS-132-2'	1/25/2018	<0.50	<10	<50	<60.50
VS-133-2.5'	1/25/2018	<0.50	<10	<50	<60.50
VS-134-4'	1/25/2018	<0.50	<10	<50	<60.50
VS-135-5'	1/25/2018	<0.49	<10	<50	<60.49
VS-136-3.5'	1/25/2018	<0.50	<9.9	<50	<60.40
VS-137-4.5'	1/25/2018	<0.50	<10	<50	<60.50
VS-138-3.5'	1/25/2018	<0.50	**12**	<50	**12**
VS-139-5.5'	1/25/2018	<0.50	**650**	**2,400**	**3,050**
VS-139R-8.5'	1/31/2018	<0.49	<10	<50	<60.49
VS-140-5'	1/25/2018	<0.50	<10	<50	<60.50
VS-141-4'	1/25/2018	<0.50	<9.9	<50	<60.40
VS-142-6'	1/25/2018	<0.50	<9.9	<50	<60.40
VS-143-4'	1/25/2018	<0.50	**15**	**160**	**175**
VS-144-3'	1/25/2018	<0.51	**24**	**210**	**234**
VS-145-3'	1/25/2018	<0.49	<9.9	<50	<60.39
VS-146-7.5'	1/25/2018	<0.50	**100**	**1,800**	**1,900**
VS-147-5'	1/25/2018	<0.50	<9.9	<50	<60.40

Table 3
Summary of Verification Soil Sample Analytical Results
TPH
Former Orcutt Refinery, 1550 West Stowell Road
Santa Maria, Santa Barbara County, California

Sample ID	Date Collected	TPH C_4-C_{12}	TPH C_{13}-C_{22}	TPH C_{23}-C_{40}	TPH C_4-C_{40}*
VS-148-4'	1/25/2018	<0.50	<9.9	<50	<60.40
VS-149-3.5'	1/25/2018	<0.50	<10	<50	<60.50
VS-150-4'	1/25/2018	<0.50	<10	<50	<60.50
VS-151-3'	1/25/2018	<0.50	<10	42 J	<60.50
VS-152-5'	1/25/2018	<0.50	<10	<50	<60.50
VS-153-4'	1/25/2018	<0.50	<10	<50	<60.50
VS-154-4.5'	1/25/2018	<0.50	**72**	**520**	**592**
VS-155-3.5'	1/25/2018	<0.49	<10	<50	<60.49
VS-156-3.5'	1/25/2018	<0.50	<9.9	<50	<60.40
VS-157-6'	1/25/2018	<0.50	<10	<50	<60.50
VS-158-5.5'	1/25/2018	<0.50	<10	<50	<60.50
VS-159-4'	1/25/2018	<0.50	<10	<50	<60.50
VS-160-4'	1/25/2018	<0.50	<10	<50	<60.50
VS-161-2.5'	1/25/2018	<0.50	8.0 J	<50	<60.50
VS-162-5.5'	1/25/2018	<0.50	<10	<50	<60.50
VS-163-4.5'	1/25/2018	<0.50	**29**	**210**	**239**
VS-164-4'	1/25/2018	<0.50	<10	<50	<60.50
VS-165-4'	1/25/2018	<0.50	<10	<50	<60.50
VS-166-8.5'	1/31/2018	<0.50	**230**	**1,200**	**1,430**
VS-167-7.5'	1/31/2018	<0.50	**570**	**2,100**	**2,670**
VS-168-2'	2/1/2018	<0.49	<10	<50	<60.49
VS-169-4'	2/1/2018	<0.50	<10	<50	<60.50
VS-170-2.5'	2/1/2018	<0.49	<10	<50	<60.49
VS-171-3'	2/1/2018	<0.50	**170**	**940**	**1,110**
VS-172-4'	2/1/2018	<0.49	8.1 J	<50	<60.49
VS-173-2.5'	2/1/2018	**2.4**	**5,600**	**12,000**	**17,602**
VS-174-3'	2/1/2018	<0.50	<10	<50	<60.50
VS-175-2.5'	2/1/2018	<0.50	<10	<50	<60.50
VS-176-4'	2/1/2018	<0.49	<10	<50	<60.49
VS-177-3'	2/1/2018	<0.48	<9.9	<50	<60.38
VS-178-3.5'	2/1/2018	<0.50	**2,500**	**6,400**	**8,900**
VS-179-7'	2/1/2018	<0.50	<10	<50	<60.50
VS-180-2'	2/1/2018	<0.49	**50**	**270**	**320**
VS-181-5.5'	2/1/2018	<0.49	<10	<50	<60.49
VS-182-1'	2/1/2018	<0.49	<10	<50	<60.49
VS-183-2'	2/1/2018	<0.49	<10	**89**	**89**
VS-184-1.5'	2/1/2018	<0.49	<10	<50	<60.49
VS-185-2'	2/1/2018	<0.49	<10	<50	<60.49

Table 3
Summary of Verification Soil Sample Analytical Results
TPH
Former Orcutt Refinery, 1550 West Stowell Road
Santa Maria, Santa Barbara County, California

Sample ID	Date Collected	TPH C_4-C_{12}	TPH C_{13}-C_{22}	TPH C_{23}-C_{40}	TPH C_4-C_{40}*
VS-186-5'	2/1/2018	<0.50	<10	<50	<60.50
VS-187-1.5'	2/1/2018	<0.49	<10	<50	<60.49
VS-188-1.5'	2/1/2018	<0.50	**600**	**3,100**	**3,700**
VS-189-13'	2/1/2018	<0.50	<10	<50	<60.50
VS-190-7'	2/1/2018	<0.50	<10	<50	<60.50
VS-191-4'	2/1/2018	<0.48	**700**	**4,000**	**4,700**
VS-192-6'	2/1/2018	<0.49	<10	<50	<60.49
VS-193-7.5'	2/7/2018	<0.51	**240**	**1,000**	**1,240**
VS-194-5.5'	2/7/2018	<0.49	<10	<50	<60.49
VS-195-5'	2/7/2018	<0.49	<10	<50	<60.49
VS-196-9'	2/7/2018	<0.51	**56**	**390**	**446**
VS-197-8'	2/7/2018	<0.49	<20	<100	<120.49
VS-198-7'	2/7/2018	<0.50	<10	<50	<60.50
VS-199-5'	2/7/2018	<0.50	<10	<50	<60.50
VS-200-5.5'	2/7/2018	<0.50	<10	<50	<60.50
VS-201-3.5'	2/7/2018	<0.50	<10	<50	<60.50
VS-202-4'	2/7/2018	<0.50	<10	<50	<60.50
VS-203-3'	2/16/2018	<0.50	<10	<50	<60.50
VS-204-3'	2/16/2018	<0.50	**61**	**310**	**371**
VS-205-9'	2/16/2018	<0.50	**16**	**55**	**71**
VS-206-4'	2/16/2018	<0.50	<10	<50	<60.50
VS-207-3.5'	2/16/2018	<0.50	<10	<50	<60.50
VS-208-3'	2/16/2018	<0.50	<10	<50	<60.50
VS-209-3.5'	2/16/2018	<0.50	<10	<50	<60.50
VS-210-3'	2/16/2018	<0.50	<10	<50	<60.50
VS-211-4.5'	2/16/2018	<0.51	<9.9	<50	<60.41
VS-212-7'	2/16/2018	<0.50	<10	<50	<60.50
VS-213-4'	2/16/2018	<0.51	<10	<50	<60.51
VS-214-3.5'	2/16/2018	<0.49	<10	<50	<60.49
VS-215-5.5'	2/16/2018	<0.50	8.9 J	<50	<60.50
VS-216-3'	2/16/2018	<0.49	**69**	**110**	**179**
VS-217-4.5'	2/16/2018	<0.49	<9.9	<50	<60.39
VS-218-3.5'	2/16/2018	<0.49	<9.9	<50	<60.39
VS-219-9'	2/16/2018	<0.50	<10	<50	<60.50
VS-220-2.5'	2/16/2018	<0.49	<10	<50	<60.49
VS-221-4'	2/16/2018	<0.50	<10	<50	<60.50
VS-222-7'	2/16/2018	<0.50	**250**	**1,500**	**1,750**
VS-223-3'	2/16/2018	<0.50	<10	<50	<60.50

Table 3
Summary of Verification Soil Sample Analytical Results
TPH
Former Orcutt Refinery, 1550 West Stowell Road
Santa Maria, Santa Barbara County, California

Sample ID	Date Collected	TPH C_4-C_{12}	TPH C_{13}-C_{22}	TPH C_{23}-C_{40}	TPH C_4-C_{40}*
VS-224-3'	2/16/2018	<0.50	**370**	**1,300**	**1,670**
VS-224R-3'	2/21/2018	<0.50	**410**	**1,800**	**2,210**
VS-224R2-3.5'	2/23/2018	<0.50	**200**	**860**	**1,060**
VS-224R3-3.5'	2/28/2018	<0.50	<9.9	<50	<60.40
VS-225-4'	2/16/2018	<0.49	<10	<50	<60.49
VS-226-4.5'	2/16/2018	<0.49	<10	<50	<60.49
VS-227-7'	2/16/2018	<0.50	<10	<50	<60.50
VS-228-7'	2/16/2018	<0.50	**310**	**680**	**990**
VS-229-6'	2/16/2018	<0.50	<9.9	<50	<60.40
VS-230-4'	2/16/2018	<0.50	**18**	45 J	**18**
VS-231-4.5'	2/16/2018	<0.50	<10	<50	<60.50
VS-232-7'	2/16/2018	<0.50	<9.9	<50	<60.40
VS-233-3'	2/16/2018	<0.50	**640**	**980**	**1,620**
VS-233R-3'	2/21/2018	<0.50	<10	<50	<60.50
VS-234-7.5'	2/16/2018	<0.50	**730**	**1,500**	**2,230**
VS-235-5'	2/16/2018	<0.49	**160**	**560**	**720**
VS-236-6'	2/16/2018	<0.49	<10	<50	<60.49
VS-237-3'	2/16/2018	<0.50	**200**	**560**	**760**
VS-238-3'	2/16/2018	<0.48	**63**	**230**	**293**
VS-239-3'	2/16/2018	<0.50	**36**	**73**	**109**
VS-240-8.5'	2/16/2018	<0.50	**140**	**630**	**770**
VS-241-5.5'	2/16/2018	<0.49	**93**	**300**	**393**
VS-242-5'	2/16/2018	<0.50	**94**	**340**	**434**

ESL / CLEANUP GOAL	100	230	5,100	1,000

Notes:
All results in milligrams per kilogram (mg/kg).
<10 = not indicated at or above the method reporting limit.
TPH = total petroleum hydrocarbons.
* = Sum of the three specified TPH carbon ranges (C_4-C_{12}, C_{13}-C_{22}, and C_{23}-C_{40}).
Sum of TPH does not include J flag (estimated) results.
ESL = California Regional Water Quality Control Board, San Fransisco Bay Region, Environmental Screening Levels (Tier 1 Values, February 2016).
100 = Bold type denotes indicated concentration.
2,000 = Bold type with highlighted concentration is equal to or greater than the ESL/Cleanup Goal.
J = Estimated value; result is below the method reporting limit and above the method detection limit.

Table 1
Summary of Survey Data
Former Orcutt Refinery, 1550 West Stowell Road
Santa Maria, Santa Barbara County, California

Sample ID	Sample Location	Sample Depth (feet)	Northing (feet)	Easting (feet)	Elevation (feet AMSL)
VS-239-3'	AOC 4	3	2172493.87	5823222.42	188.85
VS-240-8.5'	AOC 4	8.5	2172623.60	5823035.65	191.20
VS-241-5.5'	AOC 4	5.5	2172620.04	5823036.70	191.05
VS-242-5'	AOC 4	5	2172638.55	5823027.10	190.69

Notes:
AMSL = above mean sea level.
-- = No data / locations not surveyed.
Survey performed by Cannon Corporation, of San Luis Obispo, California.
Survey Data in California State Plane, Coordinate Zone 5, NAD 83.

Table 2
Summary of QA-SB37 Assessment Soil Sample Analytical Results
TPH
Former Orcutt Refinery, 1550 West Stowell Road
Santa Maria, Santa Barbara County, California

Sample ID	Date Collected	TPH C_4-C_{12}	TPH C_{13}-C_{22}	TPH C_{23}-C_{40}	TPH C_4-C_{40}*
QA-SB37A-15'	12/12/2017	<0.50	<9.9	<50	<60.40
QA-SB37A-20'	12/12/2017	<0.50	<10	<50	<60.50
QA-SB37A-25'	12/12/2017	<0.50	<10	<50	<60.50
ESL / CLEANUP GOAL		100	230	5,100	1,000

Notes:

All results in milligrams per kilogram (mg/kg).

<10 = not indicated at or above the method reporting limit.

TPH = total petroleum hydrocarbons.

* = Sum of the three specified TPH carbon ranges (C_4-C_{12}, C_{13}-C_{22}, and C_{23}-C_{40}).

Sum of TPH does not include J flag (estimated) results.

ESL = California Regional Water Quality Control Board, San Fransisco Bay Region, Environmental Screening Levels (Tier 1 Values, February 2016).

Table 3
Summary of Verification Soil Sample Analytical Results
TPH
Former Orcutt Refinery, 1550 West Stowell Road
Santa Maria, Santa Barbara County, California

Sample ID	Date Collected	TPH C_4-C_{12}	TPH C_{13}-C_{22}	TPH C_{23}-C_{40}	TPH C_4-C_{40}*
BF-1-1'	11/28/2017	<0.51	**19**	**210**	**229**
BF-1-4'	11/28/2017	<0.49	<10	<50	<60.49
BF-1-7'	11/28/2017	<0.51	<10	<50	<60.51
BF-2-1'	11/28/2017	<0.50	**17**	**340**	**357**
BF-2-4'	11/28/2017	<0.51	<10	<50	<60.51
BF-2-7'	11/28/2017	<0.50	<10	<50	<60.50
BF-3-1'	11/28/2017	<0.50	**38**	**480**	**518**
BF-3-4'	11/28/2017	<0.50	<9.9	<50	<60.40
BF-3-7'	11/28/2017	<0.51	<10	<50	<60.51
BF-4-1'	11/28/2017	<0.51	**26**	**230**	**256**
BF-4-4'	11/28/2017	<0.49	<10	<50	<60.49
BF-4-7'	11/28/2017	<0.49	<10	<50	<60.49
BF-5-1'	11/28/2017	<0.51	<9.9	<50	<60.41
BF-5-4'	11/28/2017	<0.51	<9.9	<50	<60.41
BF-5-7'	11/28/2017	<0.50	<9.9	<50	<60.40
OB-1	12/1/2017	<0.49	8.1 J	<50	<60.49
OB-2	1/12/2018	<0.50	**15**	**130**	**145**
OB-3	1/12/2018	<0.49	<10	**71**	**71**
OB-4	1/12/2018	<0.50	**11**	**120**	**131**
OB-5	1/12/2018	<0.49	<10	<50	<60.49
OB-6	1/31/2018	<0.50	7.8 J	<50	<60.40
SP-VS-1	2/28/2018	<0.49	<10	<50	<60.49
SP-VS-2	2/28/2018	<0.50	<9.9	<50	<60.40
SP-VS-3	2/28/2018	<0.49	**380**	**1,500**	**1,880**
SP-VS3R	3/5/2018	<0.49	<10	<50	<60.49
SP-VS-4	2/28/2018	<0.50	**12**	**62**	**74**
SP-VS-5	2/28/2018	<0.50	<10	<50	<60.50
VS-1-4'	12/1/2017	<0.50	<10	<50	<60.50
VS-2-4'	12/1/2017	<0.50	<9.9	<50	<60.40
VS-3-2'	12/1/2017	<0.51	**12**	**56**	**68**
VS-4-2.5'	12/1/2017	<0.50	**52**	**240**	**292**
VS-5-3'	12/1/2017	<0.51	<9.9	<50	<60.41
VS-6-2'	12/1/2017	<0.51	**140**	**600**	**740**
VS-7-2.5'	12/1/2017	<0.49	**110**	**900**	**1,010**
VS-7R-5'	12/7/2017	<0.50	<10	<50	<60.50
VS-8-2'	12/1/2017	<0.50	**100**	**530**	**630**
VS-9-1.5'	12/1/2017	<0.50	**44**	**300**	**344**
VS-10-1.5'	12/1/2017	<0.50	**110**	**470**	**580**

Table 3
Summary of Verification Soil Sample Analytical Results
TPH
Former Orcutt Refinery, 1550 West Stowell Road
Santa Maria, Santa Barbara County, California

Sample ID	Date Collected	TPH C_4-C_{12}	TPH C_{13}-C_{22}	TPH C_{23}-C_{40}	TPH C_4-C_{40}*
VS-11-2'	12/1/2017	<0.50	**44**	**370**	**414**
VS-12-2'	12/1/2017	<0.50	**34**	**340**	**374**
VS-13-1'	12/1/2017	<0.50	**59**	**290**	**349**
VS-14-1.5'	12/1/2017	<0.51	**29**	**170**	**199**
VS-15-1'	12/1/2017	<0.50	**71**	**410**	**481**
VS-16-1.5'	12/1/2017	<0.50	**15**	**78**	**93**
VS-17-5'	12/7/2017	<0.50	**18**	**110**	**128**
VS-18-4'	12/7/2017	<0.50	<10	<50	<60.50
VS-19-5'	12/7/2017	<0.50	<10	<50	<60.50
VS-20-9'	12/7/2017	<0.51	**100**	**620**	**720**
VS-21-1'	12/7/2017	<0.50	**99**	**690**	**789**
VS-22-1'	12/7/2017	<0.49	**19**	**78**	**97**
VS-23-1'	12/7/2017	<0.50	<9.9	<50	<60.40
VS-24-1'	12/7/2017	<0.50	**19**	**130**	**149**
VS-25-2.5'	12/7/2017	<0.49	<10	<50	<60.49
VS-26-1'	12/15/2017	<0.50	**20**	<50	**20**
VS-27-1'	12/15/2017	<0.50	**24**	**100**	**124**
VS-28-2.5'	12/15/2017	<0.50	<10	<50	<60.50
VS-29-3'	12/15/2017	<0.50	**97**	**400**	**497**
VS-30-2'	12/15/2017	<0.50	<20	<99	<119.50
VS-31-5.5'	12/15/2017	<0.50	**69**	**350**	**419**
VS-32-1.5'	12/15/2017	<0.50	<10	<50	<60.50
VS-33-1.5'	12/15/2017	<0.50	**190**	**970**	**1,160**
VS-33R-1.5'	12/22/2017	<0.50	**98**	**780**	**878**
VS-34-2.5'	12/15/2017	<0.50	<10	<50	<60.50
VS-35-2'	12/15/2017	<0.50	**91**	**460**	**551**
VS-36-2.5'	12/15/2017	<0.50	**46**	**180**	**226**
VS-37-3'	12/15/2017	<0.50	<10	<50	<60.50
VS-38-2'	12/15/2017	<0.50	**230**	**1,500**	**1,730**
VS-38R-2'	12/22/2017	<0.48	**220**	**1,400**	**1,620**
VS-38R2-2'	1/19/2018	<0.50	**95**	**450**	**545**
VS-39-1'	12/15/2017	<0.50	**97**	**670**	**767**
VS-40-2.5'	12/15/2017	<0.51	**45**	**61**	**106**
VS-41-1.5'	12/15/2017	<0.50	**64**	**420**	**484**
VS-42-1.5'	12/15/2017	<0.50	**11**	**51**	**62**
VS-43-1'	12/15/2017	<0.50	**43**	**180**	**223**
VS-44-3'	12/15/2017	<0.50	<10	<50	<60.50
VS-45-1.5'	12/15/2017	<0.50	**51**	**370**	**421**

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Summary of Verification Soil Sample Analytical Results
TPH
Former Orcutt Refinery, 1550 West Stowell Road
Santa Maria, Santa Barbara County, California

Sample ID	Date Collected	TPH C_4-C_{12}	TPH C_{13}-C_{22}	TPH C_{23}-C_{40}	TPH C_4-C_{40}*
VS-46-1.5'	12/15/2017	<0.50	**55**	**320**	**375**
VS-47-2.5'	12/15/2017	<0.49	<10	<50	<60.49
VS-48-1'	12/15/2017	<0.50	**400**	**1,300**	**1,700**
VS-48R-1'	12/22/2017	<0.49	**520**	**2,900**	**3,420**
VS-48R2-2'	1/19/2018	<0.50	**560**	**2,100**	**2,660**
VS-48R3-3'	1/25/2018	<0.50	**92**	**120**	**212**
VS-49-2'	12/22/2017	<0.50	**120**	**760**	**880**
VS-50-2'	12/22/2017	<0.50	**380**	**2,300**	**2,680**
VS-50R-3'	1/19/2018	<0.50	<10	<50	<60.50
VS-51-3'	12/22/2017	<0.49	**99**	**680**	**779**
VS-52-4'	12/22/2017	<0.49	**660**	**2,300**	**2,960**
VS-52R-5'	1/19/2018	<0.50	**110**	**430**	**540**
VS-53-2'	12/22/2017	<0.49	**35**	**240**	**275**
VS-54-2'	12/22/2017	<0.49	**37**	**480**	**517**
VS-55-5'	12/22/2017	<0.50	**54**	**76**	**130**
VS-56-3.5'	12/22/2017	<0.48	**480**	**1,800**	**2,280**
VS-56R-5'	1/19/2018	<0.50	**120**	**390**	**510**
VS-57-1'	12/22/2017	<0.49	**42**	**230**	**272**
VS-58-5'	12/22/2017	<0.49	**32**	**220**	**252**
VS-59-1.5'	12/22/2017	<0.49	**120**	**900**	**1,020**
VS-59R-2.5'	1/19/2018	<0.50	**46**	**270**	**316**
VS-60-3.5'	12/22/2017	<0.49	<10	<50	<60.49
VS-61-2'	12/22/2017	<0.50	**170**	**1,600**	**1,770**
VS-61R-4'	1/19/2018	<0.50	**140**	**500**	**640**
VS-62-3.5'	12/22/2017	<0.49	**11**	**65**	**76**
VS-63-1.5'	12/22/2017	<0.49	<10	<50	<60.49
VS-64-3.5'	12/22/2017	<0.49	<10	<50	<60.49
VS-65-4'	12/22/2017	<0.49	<10	<50	<60.49
VS-66-3.5'	12/22/2017	<0.50	<10	<50	<60.50
VS-67-3'	12/22/2017	<0.50	<10	<50	<60.50
VS-68-1.5'	12/22/2017	<0.51	<10	<50	<60.51
VS-69-4.5'	12/22/2017	<0.50	<10	<50	<60.50
VS-70-2'	12/22/2017	<0.49	<10	<50	<60.49
VS-71-3.5'	12/22/2017	<0.50	**37**	**240**	**277**
VS-72-3'	12/22/2017	<0.50	<10	<50	<60.50
VS-73-6'	12/22/2017	<0.50	**49**	**200**	**249**
VS-74-4'	12/22/2017	<0.49	**49**	**230**	**279**
VS-75-3'	12/22/2017	<0.50	<10	<50	<60.50

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Summary of Verification Soil Sample Analytical Results
TPH
Former Orcutt Refinery, 1550 West Stowell Road
Santa Maria, Santa Barbara County, California

Sample ID	Date Collected	TPH C_4-C_{12}	TPH C_{13}-C_{22}	TPH C_{23}-C_{40}	TPH C_4-C_{40}*
VS-76-3'	12/22/2017	<0.50	<10	<50	<60.50
VS-77-3'	12/22/2017	<0.50	<10	<50	<60.50
VS-78-4'	12/22/2017	<0.49	<9.9	<50	<60.39
VS-79-3'	12/22/2017	<0.50	**54**	**280**	**334**
VS-80-5'	12/22/2017	<0.50	<10	<50	<60.50
VS-81-3'	12/22/2017	<0.50	<10	<50	<60.50
VS-82-2'	12/22/2017	<0.49	<10	<50	<60.49
VS-83-3'	12/22/2017	<0.50	<10	<50	<60.50
VS-84-3'	12/22/2017	<0.49	**390**	**1,100**	**1,490**
VS-84R-3'	1/19/2018	<0.51	**750**	**2,600**	**3,350**
VS-84R2-3'	1/25/2018	<0.50	**49**	**140**	**189**
VS-85-2'	12/22/2017	<0.50	<10	<50	<60.50
VS-86-3'	12/22/2017	<0.49	**470**	**180**	**650**
VS-86R-3.5'	1/19/2018	<0.50	<9.9	<50	<60.40
VS-87-3'	1/19/2018	<0.50	<10	<50	<60.50
VS-88-5'	1/19/2018	<0.50	<10	<50	<60.50
VS-89-2'	1/19/2018	<0.50	<10	<50	<60.50
VS-90-2'	1/19/2018	<0.50	<10	<50	<60.50
VS-91-4'	1/19/2018	<0.51	**15**	<50	**15**
VS-92-3'	1/19/2018	<0.50	<10	<50	<60.50
VS-93-7'	1/19/2018	**1,200**	**1,600**	**160**	**2,960**
VS-94-7'	1/19/2018	**1,300**	**1,300**	**490**	**3,090**
VS-95-8'	1/19/2018	**390**	**620**	**340**	**1,350**
VS-96-7'	1/19/2018	**900**	**510**	**490**	**1,900**
VS-97-2'	1/19/2018	<0.50	<10	<50	<60.50
VS-98-6'	1/19/2018	<0.50	<10	<50	<60.50
VS-99-4'	1/19/2018	<0.50	<9.9	<50	<60.40
VS-100-3'	1/19/2018	<0.50	<10	<50	<60.50
VS-101-3'	1/19/2018	<0.50	<10	<50	<60.50
VS-102-3'	1/19/2018	<0.50	8.1 J	<50	<60.50
VS-103-4'	1/19/2018	<0.50	<10	<50	<60.50
VS-104-3'	1/19/2018	<0.50	<10	<50	<60.50
VS-105-3'	1/19/2018	<0.50	<9.9	<50	<60.40
VS-106-3.5'	1/19/2018	<0.50	<9.9	<50	<60.40
VS-107-2'	1/19/2018	<0.50	<10	<50	<60.50
VS-108-3.5'	1/19/2018	<0.50	<9.9	<50	<60.40
VS-109-3'	1/19/2018	<0.50	<9.9	<50	<60.40
VS-110-5'	1/19/2018	<0.50	<10	<50	<60.50

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Summary of Verification Soil Sample Analytical Results
TPH
Former Orcutt Refinery, 1550 West Stowell Road
Santa Maria, Santa Barbara County, California

Sample ID	Date Collected	TPH C_4-C_{12}	TPH C_{13}-C_{22}	TPH C_{23}-C_{40}	TPH C_4-C_{40}*
VS-111-8'	1/19/2018	<0.50	<10	<50	<60.50
VS-112-3'	1/19/2018	<0.50	<10	<50	<60.50
VS-113-3'	1/19/2018	<0.50	<10	<50	<60.50
VS-114-2.5'	1/19/2018	<0.50	<10	<50	<60.50
VS-115-3'	1/19/2018	<0.50	<10	<50	<60.50
VS-116-3'	1/19/2018	<0.50	**59**	**900**	**959**
VS-117-7.5'	1/19/2018	<0.50	<10	<50	<60.50
VS-118-3'	1/25/2018	<0.50	<9.9	<50	<60.40
VS-119-3'	1/25/2018	<0.50	9.2 J	**64**	**64**
VS-120-3'	1/25/2018	<0.50	<10	<50	<60.50
VS-121-4'	1/25/2018	<0.50	**50**	**130**	**180**
VS-122-3.5'	1/25/2018	<0.50	<10	<50	<60.50
VS-123-3'	1/25/2018	<0.50	<9.9	<50	<60.40
VS-124-3'	1/25/2018	<0.50	<10	<50	<60.50
VS-125-5'	1/25/2018	<0.50	<9.9	<50	<60.40
VS-126-3'	1/25/2018	<0.50	<9.9	<50	<60.40
VS-127-2'	1/25/2018	<0.50	<10	<50	<60.50
VS-128-5'	1/25/2018	<0.50	<10	<50	<60.50
VS-129-2'	1/25/2018	<0.50	<10	<50	<60.50
VS-130-3'	1/25/2018	<0.50	<10	<50	<60.50
VS-131-5'	1/25/2018	<0.50	<9.9	<50	<60.40
VS-132-2'	1/25/2018	<0.50	<10	<50	<60.50
VS-133-2.5'	1/25/2018	<0.50	<10	<50	<60.50
VS-134-4'	1/25/2018	<0.50	<10	<50	<60.50
VS-135-5'	1/25/2018	<0.49	<10	<50	<60.49
VS-136-3.5'	1/25/2018	<0.50	<9.9	<50	<60.40
VS-137-4.5'	1/25/2018	<0.50	<10	<50	<60.50
VS-138-3.5'	1/25/2018	<0.50	**12**	<50	**12**
VS-139-5.5'	1/25/2018	<0.50	**650**	**2,400**	**3,050**
VS-139R-8.5'	1/31/2018	<0.49	<10	<50	<60.49
VS-140-5'	1/25/2018	<0.50	<10	<50	<60.50
VS-141-4'	1/25/2018	<0.50	<9.9	<50	<60.40
VS-142-6'	1/25/2018	<0.50	<9.9	<50	<60.40
VS-143-4'	1/25/2018	<0.50	**15**	**160**	**175**
VS-144-3'	1/25/2018	<0.51	**24**	**210**	**234**
VS-145-3'	1/25/2018	<0.49	<9.9	<50	<60.39
VS-146-7.5'	1/25/2018	<0.50	**100**	**1,800**	**1,900**
VS-147-5'	1/25/2018	<0.50	<9.9	<50	<60.40

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Summary of Verification Soil Sample Analytical Results
TPH
Former Orcutt Refinery, 1550 West Stowell Road
Santa Maria, Santa Barbara County, California

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VS-148-4'	1/25/2018	<0.50	<9.9	<50	<60.40
VS-149-3.5'	1/25/2018	<0.50	<10	<50	<60.50
VS-150-4'	1/25/2018	<0.50	<10	<50	<60.50
VS-151-3'	1/25/2018	<0.50	<10	42 J	<60.50
VS-152-5'	1/25/2018	<0.50	<10	<50	<60.50
VS-153-4'	1/25/2018	<0.50	<10	<50	<60.50
VS-154-4.5'	1/25/2018	<0.50	**72**	**520**	**592**
VS-155-3.5'	1/25/2018	<0.49	<10	<50	<60.49
VS-156-3.5'	1/25/2018	<0.50	<9.9	<50	<60.40
VS-157-6'	1/25/2018	<0.50	<10	<50	<60.50
VS-158-5.5'	1/25/2018	<0.50	<10	<50	<60.50
VS-159-4'	1/25/2018	<0.50	<10	<50	<60.50
VS-160-4'	1/25/2018	<0.50	<10	<50	<60.50
VS-161-2.5'	1/25/2018	<0.50	8.0 J	<50	<60.50
VS-162-5.5'	1/25/2018	<0.50	<10	<50	<60.50
VS-163-4.5'	1/25/2018	<0.50	**29**	**210**	**239**
VS-164-4'	1/25/2018	<0.50	<10	<50	<60.50
VS-165-4'	1/25/2018	<0.50	<10	<50	<60.50
VS-166-8.5'	1/31/2018	<0.50	**230**	**1,200**	**1,430**
VS-167-7.5'	1/31/2018	<0.50	**570**	**2,100**	**2,670**
VS-168-2'	2/1/2018	<0.49	<10	<50	<60.49
VS-169-4'	2/1/2018	<0.50	<10	<50	<60.50
VS-170-2.5'	2/1/2018	<0.49	<10	<50	<60.49
VS-171-3'	2/1/2018	<0.50	**170**	**940**	**1,110**
VS-172-4'	2/1/2018	<0.49	8.1 J	<50	<60.49
VS-173-2.5'	2/1/2018	**2.4**	**5,600**	**12,000**	**17,602**
VS-174-3'	2/1/2018	<0.50	<10	<50	<60.50
VS-175-2.5'	2/1/2018	<0.50	<10	<50	<60.50
VS-176-4'	2/1/2018	<0.49	<10	<50	<60.49
VS-177-3'	2/1/2018	<0.48	<9.9	<50	<60.38
VS-178-3.5'	2/1/2018	<0.50	**2,500**	**6,400**	**8,900**
VS-179-7'	2/1/2018	<0.50	<10	<50	<60.50
VS-180-2'	2/1/2018	<0.49	**50**	**270**	**320**
VS-181-5.5'	2/1/2018	<0.49	<10	<50	<60.49
VS-182-1'	2/1/2018	<0.49	<10	<50	<60.49
VS-183-2'	2/1/2018	<0.49	<10	**89**	**89**
VS-184-1.5'	2/1/2018	<0.49	<10	<50	<60.49
VS-185-2'	2/1/2018	<0.49	<10	<50	<60.49

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TPH
Former Orcutt Refinery, 1550 West Stowell Road
Santa Maria, Santa Barbara County, California

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VS-186-5'	2/1/2018	<0.50	<10	<50	<60.50
VS-187-1.5'	2/1/2018	<0.49	<10	<50	<60.49
VS-188-1.5'	2/1/2018	<0.50	**600**	**3,100**	**3,700**
VS-189-13'	2/1/2018	<0.50	<10	<50	<60.50
VS-190-7'	2/1/2018	<0.50	<10	<50	<60.50
VS-191-4'	2/1/2018	<0.48	**700**	**4,000**	**4,700**
VS-192-6'	2/1/2018	<0.49	<10	<50	<60.49
VS-193-7.5'	2/7/2018	<0.51	**240**	**1,000**	**1,240**
VS-194-5.5'	2/7/2018	<0.49	<10	<50	<60.49
VS-195-5'	2/7/2018	<0.49	<10	<50	<60.49
VS-196-9'	2/7/2018	<0.51	**56**	**390**	**446**
VS-197-8'	2/7/2018	<0.49	<20	<100	<120.49
VS-198-7'	2/7/2018	<0.50	<10	<50	<60.50
VS-199-5'	2/7/2018	<0.50	<10	<50	<60.50
VS-200-5.5'	2/7/2018	<0.50	<10	<50	<60.50
VS-201-3.5'	2/7/2018	<0.50	<10	<50	<60.50
VS-202-4'	2/7/2018	<0.50	<10	<50	<60.50
VS-203-3'	2/16/2018	<0.50	<10	<50	<60.50
VS-204-3'	2/16/2018	<0.50	**61**	**310**	**371**
VS-205-9'	2/16/2018	<0.50	**16**	**55**	**71**
VS-206-4'	2/16/2018	<0.50	<10	<50	<60.50
VS-207-3.5'	2/16/2018	<0.50	<10	<50	<60.50
VS-208-3'	2/16/2018	<0.50	<10	<50	<60.50
VS-209-3.5'	2/16/2018	<0.50	<10	<50	<60.50
VS-210-3'	2/16/2018	<0.50	<10	<50	<60.50
VS-211-4.5'	2/16/2018	<0.51	<9.9	<50	<60.41
VS-212-7'	2/16/2018	<0.50	<10	<50	<60.50
VS-213-4'	2/16/2018	<0.51	<10	<50	<60.51
VS-214-3.5'	2/16/2018	<0.49	<10	<50	<60.49
VS-215-5.5'	2/16/2018	<0.50	8.9 J	<50	<60.50
VS-216-3'	2/16/2018	<0.49	**69**	**110**	**179**
VS-217-4.5'	2/16/2018	<0.49	<9.9	<50	<60.39
VS-218-3.5'	2/16/2018	<0.49	<9.9	<50	<60.39
VS-219-9'	2/16/2018	<0.50	<10	<50	<60.50
VS-220-2.5'	2/16/2018	<0.49	<10	<50	<60.49
VS-221-4'	2/16/2018	<0.50	<10	<50	<60.50
VS-222-7'	2/16/2018	<0.50	**250**	**1,500**	**1,750**
VS-223-3'	2/16/2018	<0.50	<10	<50	<60.50

Table 3
Summary of Verification Soil Sample Analytical Results
TPH
Former Orcutt Refinery, 1550 West Stowell Road
Santa Maria, Santa Barbara County, California

Sample ID	Date Collected	TPH C_4-C_{12}	TPH C_{13}-C_{22}	TPH C_{23}-C_{40}	TPH C_4-C_{40}*
VS-224-3'	2/16/2018	<0.50	**370**	**1,300**	**1,670**
VS-224R-3'	2/21/2018	<0.50	**410**	**1,800**	**2,210**
VS-224R2-3.5'	2/23/2018	<0.50	**200**	**860**	**1,060**
VS-224R3-3.5'	2/28/2018	<0.50	<9.9	<50	<60.40
VS-225-4'	2/16/2018	<0.49	<10	<50	<60.49
VS-226-4.5'	2/16/2018	<0.49	<10	<50	<60.49
VS-227-7'	2/16/2018	<0.50	<10	<50	<60.50
VS-228-7'	2/16/2018	<0.50	**310**	**680**	**990**
VS-229-6'	2/16/2018	<0.50	<9.9	<50	<60.40
VS-230-4'	2/16/2018	<0.50	**18**	45 J	**18**
VS-231-4.5'	2/16/2018	<0.50	<10	<50	<60.50
VS-232-7'	2/16/2018	<0.50	<9.9	<50	<60.40
VS-233-3'	2/16/2018	<0.50	**640**	**980**	**1,620**
VS-233R-3'	2/21/2018	<0.50	<10	<50	<60.50
VS-234-7.5'	2/16/2018	<0.50	**730**	**1,500**	**2,230**
VS-235-5'	2/16/2018	<0.49	**160**	**560**	**720**
VS-236-6'	2/16/2018	<0.49	<10	<50	<60.49
VS-237-3'	2/16/2018	<0.50	**200**	**560**	**760**
VS-238-3'	2/16/2018	<0.48	**63**	**230**	**293**
VS-239-3'	2/16/2018	<0.50	**36**	**73**	**109**
VS-240-8.5'	2/16/2018	<0.50	**140**	**630**	**770**
VS-241-5.5'	2/16/2018	<0.49	**93**	**300**	**393**
VS-242-5'	2/16/2018	<0.50	**94**	**340**	**434**

ESL / CLEANUP GOAL	100	230	5,100	1,000

Notes:
All results in milligrams per kilogram (mg/kg).
<10 = not indicated at or above the method reporting limit.
TPH = total petroleum hydrocarbons.
* = Sum of the three specified TPH carbon ranges (C_4-C_{12}, C_{13}-C_{22}, and C_{23}-C_{40}).
Sum of TPH does not include J flag (estimated) results.
ESL = California Regional Water Quality Control Board, San Fransisco Bay Region, Environmental Screening Levels (Tier 1 Values, February 2016).
100 = Bold type denotes indicated concentration.
2,000 = Bold type with highlighted concentration is equal to or greater than the ESL/Cleanup Goal.
J = Estimated value; result is below the method reporting limit and above the method detection limit.

SOIL VAPOR DATA

Table 3
Soil Vapor Analytical Results - TPH and BTEX
Former Orcutt Refinery
1550 West Stowell Road
Santa Maria, California

Sample Location	Depth	Date	TPH as Gasoline	TPH (C5 - C8) aliphatic	TPH (C6 - C8) aromatic	TPH (C9 - C10) aromatic	TPH (C9 - C12) aliphatic	Benzene	Toluene	Ethylbenzene	m,p-Xylene	o-Xylene
SG01	5	02/05/2013	**16,000**	-	-	-	-	**5.4**	**180**	**110**	**400**	**160**
SG01	5	06/19/2013	<100	**130**	<100	<100	**150**	**3.7**	**8.7**	<4.4	**9.2**	<4.4
SG01 DUP	5	06/19/2013	**160**	<100	<100	<100	<100	<3.2	**4**	<4.4	<8.8	<4.4
SG01	15	02/05/2013	**15,000**	-	-	-	-	**4.9**	**50**	**17**	**87**	**68**
SG01	15	06/19/2013	**420**	**730**	<100	<100	**200**	**10**	**19**	**5.5**	**15**	**5.2**
SG02	5	02/05/2013	**17,000**	-	-	-	-	**3.7**	**55**	**18**	**91**	**68**
SG02	5	06/19/2013	**550**	**330**	<100	**140**	**340**	**4.5**	**11**	**5.9**	**12**	<4.4
SG02	15	02/05/2013	**13,000**	-	-	-	-	**2.9**	**65**	**21**	**110**	**87**
SG02	15	06/19/2013	<100	**250**	<100	<100	**230**	**5.1**	**12**	<4.4	<8.8	<4.4
SG03	5	02/05/2013	**11,000**	-	-	-	-	<1.7	**28**	**13**	**62**	**42**
SG03	5	06/19/2013	**140**	**420**	<100	<100	<100	**5.3**	**13**	<4.4	<8.8	<4.4
SG03	15	02/05/2013	**18,000**	-	-	-	-	**7.5**	**45**	**34**	**140**	**100**
SG03	15	06/19/2013	**270**	**430**	<100	<100	**100**	**4.1**	**8.2**	<4.4	<8.8	<4.4
SG04	5	02/06/2013	**19,000**	-	-	-	-	**4.4**	**29**	**12**	**73**	**53**
SG04	5	06/20/2013	<100	<100	<100	<100	<100	<3.2	<3.8	<4.4	<8.8	<4.4
SG04	15	02/06/2013	**19,000**	-	-	-	-	<2.6	**27**	**11**	**69**	**51**
SG04	15	06/20/2013	**8,000**	**7,100**	**300**	**190**	**3,100**	**59**	**22**	**59**	**110**	**47**
SG05	5	02/06/2013	**900,000**	-	-	-	-	**1,800**	**120**	**1,000**	**240**	**160**
SG05	5	06/20/2013	**480,000 J**	**610,000 J**	**3,100**	**1,000**	**130,000 J**	**2,100**	**52**	**190**	**190**	**87**
SG06	5	02/06/2013	**3,300,000**	-	-	-	-	**27,000**	**390**	**5,000**	<690	**190**
SG06	5	06/20/2013	**2,800,000 J**	**3,200,000 J**	**150,000**	<10000	**510,000**	**100,000**	**500**	**21,000**	<880	**580**
SG07	5	02/06/2013	**2,200,000**	-	-	-	-	**840**	**1,900**	**1,700**	**4,600**	**2,700**
SG07	5	06/20/2013	**5,300,000 J**	**4,700,000 J**	**90,000**	**19,000**	**2,000,000 J**	**16,000**	**22,000**	**15,000**	**26,000**	**9,600**
SG07	15	02/06/2013	**5,400,000**	-	-	-	-	**6,700**	**7,700**	**2,700**	**6,900**	**3,600**
SG08	5	02/06/2013	**350,000**	-	-	-	-	**160**	**540**	**850**	**2,500**	**1,800**
SG08 DUP	5	02/06/2013	**450,000**	-	-	-	-	**340**	**640**	**650**	**1,900**	**1,400**
SG08	5	06/20/2013	**43,000**	**7,000**	**690**	**830**	**34,000**	**33**	**58**	**160**	**320**	**150**
SG08	15	02/06/2013	**550,000**	-	-	-	-	**240**	**910**	**1,300**	**3,800**	**2,700**
SG08	15	06/20/2013	**49,000**	**8,600**	**680**	**870**	**39,000**	**44**	**51**	**160**	**300**	**150**
SG09	5	02/05/2013	<7,000	-	-	-	-	**3.2**	**29**	**13**	**69**	**47**
SG09	5	06/20/2013	**12,000**	**1,900**	**190**	**280**	**9,500**	**11**	**15**	**46**	**89**	**42**
SG09	15	02/05/2013	**18,000**	-	-	-	-	**4.9**	**39**	**17**	**91**	**61**
SG09	15	06/20/2013	**21,000 J**	**5,700**	**380**	**420**	**14,000 J**	**51**	**32**	**81**	**150**	**72**
SG10	5	02/05/2013	**14,000**	-	-	-	-	**2.3**	**35**	**19**	**93**	**61**

Table 3
Soil Vapor Analytical Results - TPH and BTEX
Former Orcutt Refinery
1550 West Stowell Road
Santa Maria, California

Sample Location	Depth	Date	TPH as Gasoline	TPH (C5 - C8) aliphatic	TPH (C6 - C8) aromatic	TPH (C9 - C10) aromatic	TPH (C9 - C12) aliphatic	Benzene	Toluene	Ethylbenzene	m,p-Xylene	o-Xylene
SG10	5	06/20/2013	**1,000**	**900**	<100	<100	**450**	**6.5**	**6.3**	**5.3**	**10**	<4.4
SG10	15	02/05/2013	**13,000**	-	-	-	-	**2.7**	**46**	**27**	**130**	**77**
SG10 DUP	15	02/05/2013	**7,300**	-	-	-	-	**5.6**	**22**	**5.7**	**29**	**16**
SG10	15	06/20/2013	**260**	**380**	<100	<100	<100	<3.2	<3.8	<4.4	<8.8	<4.4
SG11	5	02/05/2013	**7,200**	-	-	-	-	**4.3**	**27**	**12**	**62**	**44**
SG11	5	06/20/2013	**7,300**	**4,100**	**180**	**120**	**4,200**	**42**	**21**	**31**	**57**	**25**
SG11	15	02/05/2013	**12,000**	-	-	-	-	**3.3**	**37**	**17**	**95**	**61**
SG11	15	06/20/2013	**20,000**	**4,000**	**430**	**450**	**16,000**	**39**	**33**	**100**	**180**	**85**
SG17	5	06/21/2013	**11,000**	**590**	<500	<500	**11,000**	**49**	<19	<22	**54**	<22
SG17	15	06/21/2013	**27,000 J**	**2,900**	**300**	**460**	**27,000 J**	**75**	**25**	**41**	**110**	**38**
SG18	5	06/21/2013	**4,200**	**1,500**	**130**	**150**	**2,900**	**30**	**11**	**22**	**43**	**20**
SG18	15	06/21/2013	**6,900**	**2,800**	**180**	**160**	**4,400**	**45**	**15**	**33**	**61**	**27**
SG18 DUP	15	06/21/2013	**4,400**	**820**	**100**	**140**	**3,900**	**19**	**7.4**	**21**	**39**	**18**
SG19	5	06/21/2013	**4,500**	**2,100**	**210**	**130**	**2,700**	**40**	**33**	**33**	**73**	**31**
SG19	15	06/21/2013	**5,800**	**4,500**	**190**	**110**	**2,700**	**78**	**17**	**24**	**43**	**19**
SG20	5	06/21/2013	**2,700,000 J**	**4,100,000 J**	<10000	<10000	**260,000**	**360**	<380	**8,800**	<880	<440
SG20	15	06/21/2013	**14,000**	**5,000**	<500	**660**	**15,000**	**68**	<19	**63**	<44	<22
SG21	5	06/21/2013	**12,000**	**2,200**	**240**	**330**	**12,000**	**62**	**21**	**34**	**87**	**33**
SG21	15	06/21/2013	**7,900**	**880**	**130**	**140**	**7,600**	**41**	**6.9**	**16**	**44**	**15**
SG22	5	06/21/2013	**280,000**	**20,000**	<2500	<2,500	**260,000**	**110**	**470**	**360**	**720**	**240**
SG22	15	06/21/2013	**1,100,000**	**330,000**	**45,000**	**16,000**	**780,000**	**3,000**	**5,200**	**7,100**	**27,000**	**4,900**
SG23	5	06/21/2013	**1,700**	**140**	<100	<100	**1,500**	**16**	<3.8	<4.4	<8.8	<4.4
SG23	15	06/21/2013	**11,000**	**18,000 J**	<100	<100	**920**	**20**	**5.6**	**7.3**	**10**	<4.4

Notes:
All results in micrograms per cubic meter (ug/m3)
<100: Concentration less than the associated laboratory Reporting Limit (RL).
ND: Not Detected.
Bold: Concentration > Laboratory Detection Limit (DL)
J: Estimated Concentration
Method TO-15

Table 4
Soil Vapor Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road
Santa Maria, California

Sample Location	Depth	Date	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloro-1,2,2-Trifluoroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Difluoroethane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Butadiene	1,3-Dichlorobenzene	1,4-Dichlorobenzene
SG01	5	2/5/2013	<8.6	<2.8	<7.1	<12	<2.8	<2.1	<2.0	<5.6	<15	**86**	<4.0	<3.1	<2.1	<2.4	**44**	<3.4	<3.1	<3.1
SG01	5	6/19/2013	<7.0	<5.5	<7.0	<7.7	<5.5	<4.1	<4.0	-	<38	**16**	<7.8	<12	<4.1	<9.4	<5.0	-	<12	<12
SG01 DUP	5	6/19/2013	<7.0	<5.5	<7.0	<7.7	<5.5	<4.1	<4.0	-	<38	**14**	<7.8	<12	<4.1	<9.4	<5.0	-	<12	<12
SG01	15	2/5/2013	<8.3	<2.7	<6.9	<11	<2.7	<2.0	<2.0	<5.4	<15	**63**	<3.8	<3.0	<2.0	<2.3	**32**	<3.3	<3.0	<3.0
SG01	15	6/19/2013	<7.0	<5.5	<7.0	<7.7	<5.5	<4.1	<4.0	-	<38	**15**	<7.8	<12	<4.1	<9.4	<5.0	-	<12	<12
SG02	5	2/5/2013	<8.8	<2.9	<7.3	<12	<2.9	<2.1	<2.1	<5.7	<16	**59**	<4.1	<3.2	<2.1	<2.4	**28**	<3.5	<3.2	<3.2
SG02	5	6/19/2013	<7.0	<5.5	<7.0	<7.7	<5.5	<4.1	<4.0	-	<38	**32**	<7.8	<12	<4.1	<9.4	<5.0	-	<12	<12
SG02	15	2/5/2013	<8.3	<2.7	<6.9	<11	<2.7	<2.0	<2.0	<5.4	<15	**75**	<3.8	<3.0	<2.0	<2.3	**37**	<3.3	<3.0	<3.0
SG02	15	6/19/2013	<7.0	<5.5	<7.0	<7.7	<5.5	<4.1	<4.0	-	<38	**20**	<7.8	<12	<4.1	<9.4	<5.0	-	<12	<12
SG03	5	2/5/2013	<8.7	<2.8	<7.1	<12	<2.8	<2.1	<2.1	<5.6	<15	**53**	<4.0	<3.1	<2.1	<2.4	**22**	<3.5	<3.1	<3.1
SG03	5	6/19/2013	<7.0	<5.5	<7.0	<7.7	<5.5	<4.1	<4.0	-	<38	**5.3**	<7.8	<12	<4.1	<9.4	<5.0	-	<12	<12
SG03	15	2/5/2013	<9.4	<3.1	<7.8	<13	**3.5**	<2.3	<2.2	<6.1	<17	**110**	<4.3	<3.4	<2.3	<2.6	**49**	<3.7	<3.4	<3.4
SG03	15	6/19/2013	<7.0	<5.5	<7.0	<7.7	<5.5	<4.1	<4.0	-	<38	**7.8**	<7.8	<12	<4.1	<9.4	<5.0	-	<12	<12
SG04	5	2/6/2013	<14	<4.6	<11	<19	<4.6	<3.4	<3.3	<9.0	<25	**64**	<6.4	<5.0	<3.4	<3.9	**29**	<5.5	<5.0	<5.0
SG04	5	6/20/2013	<7.0	<5.5	<7.0	<7.7	<5.5	<4.1	<4.0	-	<38	<5.0	<7.8	<12	<4.1	<9.4	<5.0	-	<12	<12
SG04	15	2/6/2013	<14	<4.5	<11	<19	<4.5	<3.3	<3.3	<8.9	<24	**58**	<6.3	<5.0	<3.3	<3.8	**26**	<5.5	<5.0	<5.0
SG04	15	6/20/2013	<7.0	<5.5	<7.0	<7.7	<5.5	<4.1	<4.0	-	<38	**32**	<7.8	<12	<4.1	<9.4	**14**	-	<12	<12
SG05	5	2/6/2013	<130	<44	<110	<180	<44	<32	<32	<86	<240	**120**	<61	<48	<32	<37	**100**	<53	<48	<48
SG05	5	6/20/2013	<35	<28	<35	<39	<28	<21	<20	-	<190	**58**	<39	<61	<21	<47	**140**	-	<61	<61
SG06	5	2/6/2013	<670	<220	<550	<920	<220	<160	<160	<430	<1200	<590	<310	<240	<160	<180	<200	<270	<240	<240
SG06	5	6/20/2013	<700	<550	<700	<770	<550	<410	<400	-	<3800	<500	<780	<1200	<410	<940	<500	-	<1200	<1200
SG07	5	2/6/2013	<330	<110	<270	<460	<110	<81	<79	<220	<590	**300**	<150	<120	<81	<92	**210**	<130	<120	<120
SG07	5	6/20/2013	<700	<550	<700	<770	<550	<410	<400	-	<3800	**2,300**	<780	<1200	<410	<940	**740**	-	<1200	<1200
SG07	15	2/6/2013	<830	<270	<690	<1100	<270	<200	<200	<540	<1500	<740	<380	<300	<200	<230	<250	<330	<300	<300
SG08	5	2/6/2013	<67	<22	<55	<92	<22	<16	<16	<43	<120	**1,100**	<31	<24	<16	<18	**460**	<27	<24	<24
SG08 DUP	5	2/6/2013	<83	<27	<69	<110	<27	<20	<20	<54	<150	**820**	<38	<30	<20	<23	**330**	<33	<30	<30
SG08	5	6/20/2013	<35	<28	<35	<39	<28	<21	<20	-	<190	**130**	<39	<61	<21	<47	**34**	-	<61	<61
SG08	15	2/6/2013	<83	<27	<69	<110	<27	<20	<20	<54	<150	**1,200**	<38	<30	<20	<23	**590**	<33	<30	<30
SG08	15	6/20/2013	<35	<28	<35	<39	<28	<21	<20	-	<190	**130**	<39	<61	<21	<47	**37**	-	<61	<61
SG09	5	2/5/2013	<8.8	<2.9	<7.2	<12	<2.9	<2.1	<2.1	<5.7	<16	**58**	<4.0	<3.2	<2.1	<2.4	**24**	<3.5	<3.2	<3.2
SG09	5	6/20/2013	<7.0	<5.5	<7.0	<7.7	<5.5	<4.1	<4.0	-	<38	**43**	<7.8	<12	<4.1	<9.4	**11**	-	<12	<12
SG09	15	2/5/2013	<8.8	<2.9	<7.3	<12	<2.9	<2.1	<2.1	<5.7	<16	**70**	<4.1	<3.2	<2.1	<2.4	**30**	<3.5	<3.2	<3.2
SG09	15	6/20/2013	<7.0	<5.5	<7.0	<7.7	<5.5	<4.1	<4.0	-	<38	**70**	<7.8	<12	<4.1	<9.4	**19**	-	<12	<12
SG10	5	2/5/2013	<9.3	<3.0	<7.6	<13	<3.0	<2.2	<2.2	<6.0	<16	**64**	<4.3	<3.3	<2.2	<2.6	**31**	<3.7	<3.3	<3.3
SG10	5	6/20/2013	<7.0	<5.5	<7.0	<7.7	<5.5	<4.1	<4.0	-	<38	<5.0	<7.8	<12	<4.1	<9.4	<5.0	-	<12	<12
SG10	15	2/5/2013	<8.4	<2.8	<6.9	<12	<2.8	<2.0	<2.0	<5.5	<15	**69**	<3.9	<3.0	<2.0	<2.3	**33**	<3.4	<3.0	<3.0
SG-10 DUP	15	2/5/2013	<9.1	<3.0	<7.5	<13	<3.0	<2.2	<2.2	<5.9	<16	<8.0	<4.2	<3.3	<2.2	<2.5	**3.3**	<3.6	<3.3	<3.3
SG10	15	6/20/2013	<7.0	<5.5	<7.0	<7.7	<5.5	<4.1	<4.0	-	<38	<5.0	<7.8	<12	<4.1	<9.4	<5.0	-	<12	<12
SG11	5	2/5/2013	<8.6	<2.8	<7.1	<12	<2.8	<2.1	<2.0	<5.6	<15	**49**	<4.0	<3.1	<2.1	<2.4	**22**	<3.4	<3.1	<3.1
SG11	5	6/20/2013	<7.0	<5.5	<7.0	<7.7	<5.5	<4.1	<4.0	-	<38	**22**	<7.8	<12	<4.1	<9.4	**6.2**	-	<12	<12
SG11	15	2/5/2013	<9.1	<3.0	<7.5	<13	<3.0	<2.2	<2.2	<5.9	<16	**68**	<4.2	<3.3	<2.2	<2.5	**30**	<3.6	<3.3	<3.3
SG11	15	6/20/2013	<14	<11	<14	<15	<11	<8.2	<8.0	-	<75	**70**	<16	<24	<8.2	<19	**22**	-	<24	<24
SG17	5	6/21/2013	<35	<28	<35	<39	<28	<21	<20	-	<190	**25**	<39	<61	<21	<47	<25	-	<61	<61
SG17	15	6/21/2013	<7.0	**12**	<7.0	<7.7	<5.5	<4.1	<4.0	-	<38	**47**	<7.8	<12	<4.1	<9.4	**20**	-	<12	<12
SG18	5	6/21/2013	<7.0	<5.5	<7.0	<7.7	<5.5	<4.1	<4.0	-	<38	**26**	<7.8	<12	<4.1	<9.4	**8.8**	-	<12	<12
SG18	15	6/21/2013	<7.0	<5.5	<7.0	<7.7	<5.5	<4.1	<4.0	-	<38	**25**	<7.8	<12	<4.1	<9.4	**8.8**	-	<12	<12
SG18 DUP	15	6/21/2013	<7.0	<5.5	<7.0	<7.7	<5.5	<4.1	<4.0	-	<38	**24**	<7.8	<12	<4.1	<9.4	**8.2**	-	<12	<12

Table 4
Soil Vapor Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road
Santa Maria, California

Sample Location	Depth	Date	1,4-Dioxane	2-Butanone	2-Hexanone	4-Ethyltoluene	4-Methyl-2-Pentanone	Acetone	Benzene	Benzyl Chloride	Bromodichloromethane	Bromoform	Bromomethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform
SG01	5	2/5/2013	<37	**7.9**	<6.3	**26**	**8.9**	**160**	**5.4**	<8.0	<3.5	<5.3	<2.0	<2.0	<2.3	**31**	<3.2	<2.4	<1.4	<2.5
SG01	5	6/19/2013	-	<30	<8.3	<5.0	<8.3	**62**	**3.7**	-	<6.8	<10	<16	<4.0	<4.6	<6.3	<6.4	<4.7	<8.0	<4.9
SG01 DUP	5	6/19/2013	-	<30	<8.3	<5.0	<8.3	**29**	<3.2	-	<6.8	<10	<16	<4.0	<4.6	<6.3	<6.4	<4.7	<8.0	<4.9
SG01	15	2/5/2013	<36	**10**	<6.1	**12**	<6.1	**14**	**4.9**	<7.8	<3.4	<5.2	<1.9	<2.0	<2.3	<6.2	<3.1	<2.3	<1.3	<2.4
SG01	15	6/19/2013	-	<30	<8.3	<5.0	<8.3	**130**	**10**	-	<6.8	<10	<16	<4.0	<4.6	**9.7**	<6.4	<4.7	<8.0	<4.9
SG02	5	2/5/2013	<38	<4.7	<6.5	**11**	<6.5	**15**	**3.7**	<8.2	<3.6	<5.5	**3.2**	<2.1	<2.4	<6.6	<3.3	<2.4	<1.4	<2.6
SG02	5	6/19/2013	-	<30	<8.3	<5.0	<8.3	**52**	**4.5**	-	<6.8	<10	<16	<4.0	<4.6	<6.3	<6.4	<4.7	<8.0	<4.9
SG02	15	2/5/2013	<36	**16**	<6.1	**14**	<6.1	**20**	**2.9**	<7.8	<3.4	<5.2	<1.9	<2.0	<2.3	<6.2	<3.1	<2.3	<1.3	<2.4
SG02	15	6/19/2013	-	<30	<8.3	<5.0	<8.3	**67**	**5.1**	-	<6.8	<10	<16	<4.0	<4.6	<6.3	<6.4	<4.7	<8.0	<4.9
SG03	5	2/5/2013	<37	<4.6	<6.4	**10**	<6.4	**7.9**	<1.7	<8.1	<3.5	<5.4	<2.0	<2.1	<2.4	<6.5	<3.3	<2.4	<1.4	<2.5
SG03	5	6/19/2013	-	<30	<8.3	<5.0	<8.3	**68**	**5.3**	-	<6.8	<10	<16	<4.0	<4.6	<6.3	<6.4	<4.7	<8.0	<4.9
SG03	15	2/5/2013	<41	**10**	<6.9	**31**	<6.9	<5.4	**7.5**	<8.8	<3.8	<5.8	<2.2	<2.2	<2.6	<7.0	<3.6	<2.6	<1.5	<2.8
SG03	15	6/19/2013	-	<30	<8.3	<5.0	<8.3	**75**	**4.1**	-	<6.8	<10	<16	<4.0	<4.6	<6.3	<6.4	<4.7	<8.0	<4.9
SG04	5	2/6/2013	<60	<7.4	<10	**12**	<10	<7.9	**4.4**	<13	<5.6	<8.6	<3.2	<3.3	<3.8	<10	<5.3	<3.8	<2.2	<4.1
SG04	5	6/20/2013	-	<30	<8.3	<5.0	<8.3	<24	<3.2	-	<6.8	<10	<16	<4.0	<4.6	<6.3	<6.4	<4.7	<8.0	<4.9
SG04	15	2/6/2013	<59	**12**	<10	**11**	<10	<7.8	<2.6	<13	<5.5	<8.5	<3.2	<3.3	<3.7	<10	<5.2	<3.8	<2.2	<4.0
SG04	15	6/20/2013	-	<30	<8.3	**9.9**	<8.3	**160**	**59**	-	<6.8	<10	<16	<4.0	<4.6	<6.3	<6.4	<4.7	<8.0	<4.9
SG05	5	2/6/2013	<580	<71	<98	**50**	<98	<76	**1,800**	<120	<54	<83	<31	<32	<36	<100	<50	<37	<21	<39
SG05	5	6/20/2013	-	<150	<41	**27**	<41	<120	**2,100**	-	<34	<52	<79	<20	<23	**38**	<32	<23	<40	<25
SG06	5	2/6/2013	<2900	<350	<490	<200	<490	<380	**27,000**	<620	<270	<410	<160	<160	<180	<500	<250	<180	<110	<200
SG06	5	6/20/2013	-	<3000	<830	<500	<830	<2400	**100,000**	-	<680	<1000	<1600	<400	<460	<630	<640	<470	<800	<490
SG07	5	2/6/2013	<1400	<180	<250	**320**	<250	<190	**840**	<310	<130	<210	<78	<79	<91	<250	<130	<92	<53	<98
SG07	5	6/20/2013	-	<3000	<830	**1,100**	<830	<2400	**16,000**	-	<680	<1000	<1600	<400	<460	**880**	<640	<470	<800	<490
SG07	15	2/6/2013	<3600	**950**	<610	<250	<610	**4,000**	**6,700**	<780	<340	<520	<190	<200	<230	<620	<310	<230	<130	<240
SG08	5	2/6/2013	<290	<35	<49	**810**	<49	<38	**160**	<62	<27	<41	<16	<16	<18	<50	<25	<18	<11	<20
SG08 DUP	5	2/6/2013	<360	**77**	<61	**380**	<61	**130**	**340**	<78	<34	<52	<19	<20	<23	<62	<31	<23	<13	<24
SG08	5	6/20/2013	-	<150	<41	**51**	<41	<120	**33**	-	<34	<52	<79	<20	<23	<32	<32	<23	<40	<25
SG08	15	2/6/2013	<360	<44	<61	**1,100**	<61	<48	**240**	<78	<34	<52	<19	<20	<23	<62	<31	<23	<13	<24
SG08	15	6/20/2013	-	<150	<41	**50**	<41	<120	**44**	-	<34	<52	<79	<20	<23	<32	<32	<23	<40	<25
SG09	5	2/5/2013	<38	<4.6	<6.5	**12**	<6.5	**6.2**	**3.2**	<8.2	<3.5	<5.4	**2.3**	<2.1	<2.4	<6.5	<3.3	<2.4	<1.4	<2.6
SG09	5	6/20/2013	-	<30	<8.3	**11**	<8.3	**29**	**11**	-	<6.8	<10	<16	<4.0	<4.6	<6.3	<6.4	<4.7	<8.0	<4.9
SG09	15	2/5/2013	<38	**14**	<6.5	**14**	<6.5	**15**	**4.9**	<8.2	<3.6	<5.5	<2.1	<2.1	<2.4	<6.6	<3.3	<2.4	<1.4	<2.6
SG09	15	6/20/2013	-	<30	<8.3	**20**	<8.3	**91**	**51**	-	<6.8	<10	<16	<4.0	<4.6	<6.3	<6.4	<4.7	<8.0	<4.9
SG10	5	2/5/2013	<40	**4.9**	<6.8	**14**	<6.8	**11**	**2.3**	<8.6	<3.7	<5.7	<2.2	<2.2	<2.5	<6.9	<3.5	<2.6	<1.5	<2.7
SG10	5	6/20/2013	-	<30	<8.3	<5.0	<8.3	**56**	**6.5**	-	<6.8	<10	<16	<4.0	<4.6	<6.3	<6.4	<4.7	<8.0	<4.9
SG10	15	2/5/2013	<36	**7.3**	<6.2	**16**	<6.2	**13**	**2.7**	<7.8	<3.4	<5.2	<2.0	<2.0	<2.3	<6.3	<3.2	<2.3	<1.3	<2.5
SG-10 DUP	15	2/5/2013	<39	**5.6**	<6.7	<2.7	<6.7	**13**	**5.6**	<8.5	<3.7	<5.6	**2.4**	<2.2	<2.5	<6.8	<3.4	<2.5	<1.4	<2.7
SG10	15	6/20/2013	-	<30	<8.3	<5.0	<8.3	<24	<3.2	-	<6.8	<10	<16	<4.0	<4.6	<6.3	<6.4	<4.7	<8.0	<4.9
SG11	5	2/5/2013	<37	<4.6	<6.3	**9.2**	<6.3	**8.3**	**4.3**	<8.0	<3.5	<5.3	<2.0	<2.0	<2.3	<6.4	<3.2	<2.4	<1.4	<2.5
SG11	5	6/20/2013	-	<30	<8.3	**7.7**	<8.3	**110**	**42**	-	<6.8	<10	<16	<4.0	<4.6	**7.3**	<6.4	<4.7	<8.0	<4.9
SG11	15	2/5/2013	<39	**7.0**	<6.7	**15**	<6.7	**10**	**3.3**	<8.5	<3.7	<5.6	<2.1	<2.2	<2.5	<6.8	<3.4	<2.5	<1.4	<2.7
SG11	15	6/20/2013	-	<60	<17	**25**	<17	**62**	**39**	-	<14	<21	<32	<8.0	<9.2	<13	<13	<9.4	<16	<9.9
SG17	5	6/21/2013	-	<150	<41	<25	<41	<120	**49**	-	<34	<52	<79	<20	<23	<32	<32	<23	<40	<25
SG17	15	6/21/2013	-	**37**	<8.3	**16**	<8.3	**150**	**75**	-	<6.8	<10	<16	<4.0	<4.6	<6.3	<6.4	<4.7	<8.0	<4.9
SG18	5	6/21/2013	-	<30	<8.3	**6.5**	<8.3	**85**	**30**	-	<6.8	<10	<16	<4.0	<4.6	**8.9**	<6.4	<4.7	<8.0	<4.9
SG18	15	6/21/2013	-	<30	<8.3	**8.2**	<8.3	**79**	**45**	-	<6.8	<10	<16	<4.0	<4.6	<6.3	<6.4	<4.7	<8.0	<4.9
SG18 DUP	15	6/21/2013	-	<30	<8.3	**6.9**	<8.3	**37**	**19**	-	<6.8	<10	<16	<4.0	<4.6	<6.3	<6.4	<4.7	<8.0	<4.9

Table 4
Soil Vapor Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road
Santa Maria, California

Sample Location	Depth	Date	Chloromethane	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Dichlorotetrafluoroethane	Diisopropyl Ether (DIPE)	Ethanol	Ethyl Acetate	Ethylbenzene	Ethyl-t-Butyl Ether (ETBE)	Heptane	Hexachloro-1,3-Butadiene	Hexane	Isopropanol	Methylene Chloride	Methyl-t-Butyl Ether (MTBE)	Naphthalene	o-Xylene
SG01	5	2/5/2013	**9.8**	**42**	<4.4	<2.5	<14	<8.6	**32**	<37	**110**	<8.6	**24**	<16	**37**	<13	<18	**8.1**	<27	**160**
SG01	5	6/19/2013	<2.1	-	<8.6	<5.0	<7.1	-	-	-	<4.4	-	-	<54	-	-	**16**	-	<5.3	<4.4
SG01 DUP	5	6/19/2013	<2.1	-	<8.6	<5.0	<7.1	-	-	-	<4.4	-	-	<54	-	-	<3.5	-	<5.3	<4.4
SG01	15	2/5/2013	<1.0	**16**	<4.3	<2.5	<14	<8.4	<9.4	<36	**17**	<8.4	<8.2	<16	<7.0	**20**	<17	<7.2	<26	**68**
SG01	15	6/19/2013	<2.1	-	<8.6	<5.0	<7.1	-	-	-	**5.5**	-	-	<54	-	-	**31**	-	<5.3	**5.2**
SG02	5	2/5/2013	**29**	**10**	<4.5	<2.6	<15	<8.9	<10	<38	**18**	<8.9	<8.7	<17	<7.5	<13	<18	<7.6	<28	**68**
SG02	5	6/19/2013	<2.1	-	<8.6	<5.0	<7.1	-	-	-	**5.9**	-	-	<54	-	-	**19**	-	<5.3	<4.4
SG02	15	2/5/2013	<1.0	**16**	<4.3	<2.5	<14	<8.4	<9.4	<36	**21**	<8.4	<8.2	<16	<7.0	<12	<17	<7.2	<26	**87**
SG02	15	6/19/2013	<2.1	-	<8.6	<5.0	<7.1	-	-	-	<4.4	-	-	<54	-	-	**22**	-	<5.3	<4.4
SG03	5	2/5/2013	**4.1**	**34**	<4.4	<2.6	<15	<8.7	<9.8	<37	**13**	<8.7	<8.5	<17	<7.3	<13	<18	<7.5	<27	**42**
SG03	5	6/19/2013	<2.1	-	<8.6	<5.0	<7.1	-	-	-	<4.4	-	-	<54	-	-	**36**	-	<5.3	<4.4
SG03	15	2/5/2013	<1.2	**26**	<4.8	<2.8	<16	<9.4	<11	<41	**34**	<9.4	<9.3	<18	<8.0	<14	<20	<8.1	<30	**100**
SG03	15	6/19/2013	<2.1	-	<8.6	<5.0	<7.1	-	-	-	<4.4	-	-	<54	-	-	**22**	-	<5.3	<4.4
SG04	5	2/6/2013	<1.7	**5.7**	<7.1	<4.1	<23	<14	<16	<60	**12**	<14	<14	<27	<12	<21	<29	<12	<44	**53**
SG04	5	6/20/2013	<2.1	-	<8.6	<5.0	<7.1	-	-	-	<4.4	-	-	<54	-	-	<3.5	-	<5.3	<4.4
SG04	15	2/6/2013	<1.7	**3.6**	<7.0	<4.1	<23	<14	<16	<59	**11**	<14	<14	<26	<12	<20	<29	<12	<43	**51**
SG04	15	6/20/2013	<2.1	-	<8.6	<5.0	<7.1	-	-	-	**59**	-	-	<54	-	-	**77**	-	<5.3	**47**
SG05	5	2/6/2013	<17	**13,000**	<68	<40	<220	<130	<150	<580	**1,000**	<130	**1,100**	<260	**3,500**	<200	<280	<120	<420	**160**
SG05	5	6/20/2013	<10	-	<43	<25	<35	-	-	-	**190**	-	-	<270	-	-	<18	-	<27	**87**
SG06	5	2/6/2013	<83	**36,000**	<340	<200	<1100	<670	<750	<2900	**5,000**	<670	**3,700**	<1300	**14,000**	<980	<1400	<580	<2100	**190**
SG06	5	6/20/2013	<210	-	<860	<500	<710	-	-	-	**21,000**	-	-	<5400	-	-	<350	-	<530	**580**
SG07	5	2/6/2013	<41	**3,500**	<170	<99	<560	<330	<380	<1400	**1,700**	<330	**700**	<640	**440**	<490	<690	<290	<1000	**2,700**
SG07	5	6/20/2013	<210	-	<860	<500	<710	-	-	-	**15,000**	-	-	<5400	-	-	<350	-	<530	**9,600**
SG07	15	2/6/2013	<100	**34,000**	<430	<250	<1400	<840	<940	<3600	**2,700**	<840	**15,000**	<1600	**5,300**	<1200	<1700	<720	<2600	**3,600**
SG08	5	2/6/2013	<8.3	**190**	<34	<20	<110	<67	<75	<290	**850**	<67	**100**	<130	<56	<98	<140	<58	<210	**1,800**
SG08 DUP	5	2/6/2013	<10	**1,400**	<43	<25	<140	<84	<94	<360	**650**	<84	**590**	<160	**160**	<120	<170	<72	<260	**1,400**
SG08	5	6/20/2013	<10	-	<43	<25	<35	-	-	-	**160**	-	-	<270	-	-	<18	-	<27	**150**
SG08	15	2/6/2013	<10	**300**	<43	<25	<140	<84	**150**	<360	**1,300**	<84	**180**	<160	<70	<120	<170	<72	<260	**2,700**
SG08	15	6/20/2013	<10	-	<43	<25	<35	-	-	-	**160**	-	-	<270	-	-	<18	-	<27	**150**
SG09	5	2/5/2013	**5.3**	**5.4**	<4.5	<2.6	<15	<8.8	<9.9	<38	**13**	<8.8	<8.6	<17	<7.4	<13	<18	<7.6	<28	**47**
SG09	5	6/20/2013	<2.1	-	<8.6	<5.0	<7.1	-	-	-	**46**	-	-	<54	-	-	<3.5	-	<5.3	**42**
SG09	15	2/5/2013	<1.1	**1.9**	<4.5	<2.6	<15	<8.9	<10	<38	**17**	<8.9	<8.7	<17	<7.5	<13	<18	<7.6	<28	**61**
SG09	15	6/20/2013	<2.1	-	<8.6	<5.0	<7.1	-	-	-	**81**	-	-	<54	-	-	**36**	-	<5.3	**72**
SG10	5	2/5/2013	<1.1	**11**	<4.7	<2.7	<16	<9.3	<10	<40	**19**	<9.3	<9.1	<18	<7.8	<14	<19	<8.0	<29	**61**
SG10	5	6/20/2013	<2.1	-	<8.6	<5.0	<7.1	-	-	-	**5.3**	-	-	<54	-	-	<3.5	-	<5.3	<4.4
SG10	15	2/5/2013	<1.0	**7.0**	<4.3	<2.5	<14	<8.4	<9.5	<36	**27**	<8.4	<8.3	<16	<7.1	<12	<18	<7.3	<26	**77**
SG-10 DUP	15	2/5/2013	**13**	<1.9	<4.6	<2.7	<15	<9.1	<10	<39	**5.7**	<9.1	<8.9	<17	<7.7	<13	<19	<7.9	<29	**16**
SG10	15	6/20/2013	<2.1	-	<8.6	<5.0	<7.1	-	-	-	<4.4	-	-	<54	-	-	<3.5	-	<5.3	<4.4
SG11	5	2/5/2013	<1.1	**4.9**	<4.4	<2.5	<14	<8.6	<9.7	<37	**12**	<8.6	<8.4	<16	<7.3	<13	<18	<7.4	<27	**44**
SG11	5	6/20/2013	<2.1	-	<8.6	<5.0	<7.1	-	-	-	**31**	-	-	<54	-	-	**40**	-	<5.3	**25**
SG11	15	2/5/2013	<1.1	**11**	<4.6	<2.7	<15	<9.1	<10	<39	**17**	<9.1	<8.9	<17	<7.7	<13	<19	<7.9	<29	**61**
SG11	15	6/20/2013	<4.1	-	<17	<10	<14	-	-	-	**100**	-	-	<110	-	-	**7.5**	-	<11	**85**
SG17	5	6/21/2013	<10	-	<43	<25	<35	-	-	-	<22	-	-	<270	-	-	<18	-	<27	<22
SG17	15	6/21/2013	<2.1	-	<8.6	<5.0	<7.1	-	-	-	**41**	-	-	<54	-	-	**24**	-	<5.3	**38**
SG18	5	6/21/2013	**2.6**	-	<8.6	<5.0	<7.1	-	-	-	**22**	-	-	<54	-	-	**10**	-	<5.3	**20**
SG18	15	6/21/2013	<2.1	-	<8.6	<5.0	<7.1	-	-	-	**33**	-	-	<54	-	-	**21**	-	<5.3	**27**
SG18 DUP	15	6/21/2013	<2.1	-	<8.6	<5.0	<7.1	-	-	-	**21**	-	-	<54	-	-	<3.5	-	<5.3	**18**

Table 4
Soil Vapor Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road
Santa Maria, California

Sample Location	Depth	Date	m,p-Xylene	Propene	Styrene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Tert-Amyl-Methyl Ether (TAME)	Tert-Butyl Alcohol (TBA)	Tetrachloroethene	Tetrahydrofuran	Toluene	Trichloroethene	Trichlorofluoromethane	Vinyl Acetate	Vinyl Chloride
SG01	5	2/5/2013	**400**	<18	<6.6	<2.0	<4.7	<8.6	**14**	<3.5	**7.9**	**180**	<2.8	<5.8	<7.3	<1.3
SG01	5	6/19/2013	**9.2**	-	<4.3	<8.0	<4.6	-	-	<6.9	-	**8.7**	<5.5	<5.6	-	<2.6
SG01 DUP	5	6/19/2013	<8.8	-	<4.3	<8.0	<4.6	-	-	<6.9	-	**4.0**	<5.5	<5.6	-	<2.6
SG01	15	2/5/2013	**87**	<17	<6.4	<2.0	<4.5	<8.4	<6.1	<3.4	<4.4	**50**	<2.7	<5.6	<7.0	<1.3
SG01	15	6/19/2013	**15**	-	<4.3	<8.0	<4.6	-	-	<6.9	-	**19**	<5.5	<5.6	-	<2.6
SG02	5	2/5/2013	**91**	<18	<6.8	<2.1	<4.8	<8.9	<6.4	<3.6	<4.7	**55**	<2.8	<6.0	<7.5	<1.4
SG02	5	6/19/2013	**12**	-	<4.3	<8.0	<4.6	-	-	<6.9	-	**11**	<5.5	**7.5**	-	<2.6
SG02	15	2/5/2013	**110**	<17	<6.4	<2.0	<4.5	<8.4	**6.6**	<3.4	<4.4	**65**	<2.7	**7.6**	<7.0	<1.3
SG02	15	6/19/2013	<8.8	-	<4.3	<8.0	<4.6	-	-	<6.9	-	**12**	<5.5	**7.9**	-	<2.6
SG03	5	2/5/2013	**62**	<18	<6.6	<2.1	<4.7	<8.7	**22**	<3.5	<4.6	**28**	<2.8	**10**	<7.3	<1.3
SG03	5	6/19/2013	<8.8	-	<4.3	<8.0	<4.6	-	-	<6.9	-	**13**	<5.5	**10**	-	<2.6
SG03	15	2/5/2013	**140**	<19	<7.2	<2.2	<5.1	<9.4	**30**	<3.8	<5.0	**45**	<3.0	**15**	<8.0	<1.4
SG03	15	6/19/2013	<8.8	-	<4.3	<8.0	<4.6	-	-	<6.9	-	**8.2**	<5.5	**11**	-	<2.6
SG04	5	2/6/2013	**73**	<29	<11	<3.3	<7.6	<14	<10	<5.7	<7.4	**29**	<4.5	**120**	<12	<2.1
SG04	5	6/20/2013	<8.8	-	<4.3	<8.0	<4.6	-	-	<6.9	-	<3.8	<5.5	**18**	-	<2.6
SG04	15	2/6/2013	**69**	<28	<11	<3.3	<7.5	<14	<10	**5.6**	<7.3	**27**	<4.4	**65**	<12	<2.1
SG04	15	6/20/2013	**110**	-	<4.3	<8.0	<4.6	-	-	<6.9	-	**22**	**8.4**	**58**	-	<2.6
SG05	5	2/6/2013	**240**	<280	<100	<32	<73	<130	<97	<54	<71	**120**	<43	<90	<110	<20
SG05	5	6/20/2013	**190**	-	<22	<40	<23	-	-	<34	-	**52**	<27	<28	-	<13
SG06	5	2/6/2013	<690	<1400	<510	<160	<360	<670	<490	<270	<350	**390**	<210	<450	<560	<100
SG06	5	6/20/2013	<880	-	<430	<800	<460	-	-	<690	-	**500**	<550	<560	-	<260
SG07	5	2/6/2013	**4,600**	<690	<260	<79	<180	<330	<240	<140	<180	**1,900**	<110	<220	<280	<51
SG07	5	6/20/2013	**26,000**	-	**760**	<800	<460	-	-	<690	-	**22,000**	<550	<560	-	<260
SG07	15	2/6/2013	**6,900**	**3,300**	<640	<200	<450	<840	<610	<340	<440	**7,700**	<270	<560	<700	<130
SG08	5	2/6/2013	**2,500**	<140	<51	<16	<36	<67	<49	<27	<35	**540**	<21	<45	<56	<10
SG08 DUP	5	2/6/2013	**1,900**	<170	<64	<20	<45	<84	<61	<34	<44	**640**	<27	<56	<70	<13
SG08	5	6/20/2013	**320**	-	<22	<40	<23	-	-	<34	-	**58**	<27	<28	-	<13
SG08	15	2/6/2013	**3,800**	<170	<64	<20	<45	<84	<61	<34	<44	**910**	<27	<56	<70	<13
SG08	15	6/20/2013	**300**	-	<22	<40	<23	-	-	<34	-	**51**	<27	<28	-	<13
SG09	5	2/5/2013	**69**	<18	<6.7	<2.1	<4.8	<8.8	**12**	<3.6	<4.6	**29**	<2.8	<5.9	<7.4	<1.3
SG09	5	6/20/2013	**89**	-	<4.3	<8.0	<4.6	-	-	<6.9	-	**15**	<5.5	<5.6	-	<2.6
SG09	15	2/5/2013	**91**	<18	<6.8	<2.1	<4.8	<8.9	**25**	<3.6	<4.7	**39**	<2.8	**9.9**	<7.5	<1.4
SG09	15	6/20/2013	**150**	-	<4.3	<8.0	<4.6	-	-	<6.9	-	**32**	<5.5	**7.3**	-	<2.6
SG10	5	2/5/2013	**93**	<19	<7.1	<2.2	<5.0	<9.3	**11**	<3.8	<4.9	**35**	<3.0	**16**	<7.8	<1.4
SG10	5	6/20/2013	**10**	-	<4.3	<8.0	<4.6	-	-	<6.9	-	**6.3**	<5.5	**12**	-	<2.6
SG10	15	2/5/2013	**130**	<17	<6.5	<2.0	<4.6	<8.4	<6.1	<3.4	<4.5	**46**	<2.7	**20**	<7.1	<1.3
SG-10 DUP	15	2/5/2013	**29**	<19	<7.0	<2.2	<4.9	<9.1	<6.6	<3.7	<4.8	**22**	<2.9	**20**	<7.7	<1.4
SG10	15	6/20/2013	<8.8	-	<4.3	<8.0	<4.6	-	-	<6.9	-	<3.8	<5.5	**16**	-	<2.6
SG11	5	2/5/2013	**62**	<18	<6.6	<2.0	<4.7	<8.6	**82**	<3.5	<4.6	**27**	<2.8	<5.8	<7.3	<1.3
SG11	5	6/20/2013	**57**	-	<4.3	<8.0	<4.6	-	-	<6.9	-	**21**	<5.5	<5.6	-	<2.6
SG11	15	2/5/2013	**95**	<19	<7.0	<2.2	<4.9	<9.1	<6.6	<3.7	<4.8	**37**	<2.9	<6.1	<7.7	<1.4
SG11	15	6/20/2013	**180**	-	<8.6	<16	<9.2	-	-	<14	-	**33**	<11	<11	-	<5.2
SG17	5	6/21/2013	**54**	-	<22	<40	<23	-	-	**120**	-	<19	<27	**69**	-	<13
SG17	15	6/21/2013	**110**	-	<4.3	<8.0	<4.6	-	-	**210**	-	**25**	<5.5	**69**	-	<2.6
SG18	5	6/21/2013	**43**	-	<4.3	<8.0	<4.6	-	-	<6.9	-	**11**	<5.5	**6.1**	-	<2.6
SG18	15	6/21/2013	**61**	-	<4.3	<8.0	<4.6	-	-	<6.9	-	**15**	<5.5	**6.3**	-	<2.6
SG18 DUP	15	6/21/2013	**39**	-	<4.3	<8.0	<4.6	-	-	<6.9	-	**7.4**	<5.5	<5.6	-	<2.6

Table 4
Soil Vapor Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road
Santa Maria, California

Sample Location	Depth	Date	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloro-1,2,2-Trifluoroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Difluoroethane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Butadiene	1,3-Dichlorobenzene	1,4-Dichlorobenzene
SG19	5	6/21/2013	<7.0	<5.5	<7.0	<7.7	<5.5	<4.1	<4.0	-	<38	**25**	<7.8	<12	<4.1	<9.4	**7.2**	-	<12	<12
SG19	15	6/21/2013	<7.0	<5.5	<7.0	<7.7	<5.5	<4.1	<4.0	-	<38	**18**	<7.8	<12	<4.1	<9.4	**6.1**	-	<12	<12
SG20	5	6/21/2013	<700	<550	<700	<770	<550	<410	<400	-	<3800	<500	<780	<1200	<410	<940	<500	-	<1200	<1200
SG20	15	6/21/2013	<35	<28	<35	<39	<28	<21	<20	-	<190	<25	<39	<61	<21	<47	<25	-	<61	<61
SG21	5	6/21/2013	<7.0	<5.5	<7.0	<7.7	<5.5	<4.1	<4.0	-	<38	**45**	<7.8	<12	<4.1	<9.4	**14**	-	<12	<12
SG21	15	6/21/2013	<7.0	**5.6**	<7.0	<7.7	<5.5	<4.1	<4.0	-	<38	**18**	<7.8	<12	<4.1	<9.4	**7.4**	-	<12	<12
SG22	5	6/21/2013	<170	<140	<170	<190	<140	<100	<100	-	<940	**180**	<190	<300	<100	<230	**140**	-	<300	<300
SG22	15	6/21/2013	<700	<550	<700	<770	<550	<410	<400	-	<3800	**2,000**	<780	<1200	<410	<940	**1,100**	-	<1200	<1200
SG23	5	6/21/2013	<7.0	<5.5	<7.0	<7.7	<5.5	<4.1	<4.0	-	<38	<5.0	<7.8	<12	<4.1	<9.4	<5.0	-	<12	<12
SG23	15	6/21/2013	<7.0	<5.5	<7.0	<7.7	<5.5	<4.1	<4.0	-	<38	**5.8**	<7.8	<12	<4.1	<9.4	<5.0	-	<12	<12

Table 4
Soil Vapor Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road
Santa Maria, California

Sample Location	Depth	Date	1,4-Dioxane	2-Butanone	2-Hexanone	4-Ethyltoluene	4-Methyl-2-Pentanone	Acetone	Benzene	Benzyl Chloride	Bromodichloromethane	Bromoform	Bromomethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform
SG19	5	6/21/2013	-	<30	<8.3	**6.4**	<8.3	**140**	**40**	-	<6.8	<10	<16	<4.0	<4.6	**16**	<6.4	<4.7	<8.0	<4.9
SG19	15	6/21/2013	-	<30	<8.3	<5.0	<8.3	**160**	**78**	-	<6.8	<10	<16	<4.0	<4.6	<6.3	<6.4	<4.7	<8.0	<4.9
SG20	5	6/21/2013	-	<3000	<830	<500	<830	<2400	**360**	-	<680	<1000	<1600	<400	<460	<630	<640	<470	<800	<490
SG20	15	6/21/2013	-	<150	<41	<25	<41	**120**	**68**	-	<34	<52	<79	<20	<23	<32	<32	<23	<40	<25
SG21	5	6/21/2013	-	<30	<8.3	**11**	<8.3	**260**	**62**	-	<6.8	<10	<16	<4.0	<4.6	**26**	<6.4	<4.7	<8.0	<4.9
SG21	15	6/21/2013	-	<30	<8.3	**5.6**	<8.3	**51**	**41**	-	<6.8	<10	<16	<4.0	<4.6	<6.3	<6.4	<4.7	<8.0	<4.9
SG22	5	6/21/2013	-	<750	<210	<120	<210	<600	**110**	-	<170	<260	<390	<100	<120	<160	<160	<120	<200	<120
SG22	15	6/21/2013	-	<3000	<830	**720**	<830	**6,900**	**3,000**	-	<680	<1000	<1600	<400	<460	**780**	<640	<470	<800	<490
SG23	5	6/21/2013	-	<30	<8.3	<5.0	<8.3	**39**	**16**	-	<6.8	<10	<16	<4.0	<4.6	<6.3	<6.4	<4.7	<8.0	<4.9
SG23	15	6/21/2013	-	<30	<8.3	<5.0	<8.3	<24	**20**	-	<6.8	<10	<16	<4.0	<4.6	<6.3	<6.4	<4.7	<8.0	<4.9

Table 4
Soil Vapor Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road
Santa Maria, California

Sample Location	Depth	Date	Chloromethane	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Dichlorotetrafluoroethane	Diisopropyl Ether (DIPE)	Ethanol	Ethyl Acetate	Ethylbenzene	Ethyl-t-Butyl Ether (ETBE)	Heptane	Hexachloro-1,3-Butadiene	Hexane	Isopropanol	Methylene Chloride	Methyl-t-Butyl Ether (MTBE)	Naphthalene	o-Xylene
SG19	5	6/21/2013	<2.1	-	<8.6	<5.0	<7.1	-	-	-	**33**	-	-	<54	-	-	**15**	-	<5.3	**31**
SG19	15	6/21/2013	<2.1	-	<8.6	<5.0	<7.1	-	-	-	**24**	-	-	<54	-	-	**51**	-	<5.3	**19**
SG20	5	6/21/2013	<210	-	<860	<500	<710	-	-	-	**8,800**	-	-	<5400	-	-	<350	-	<530	<440
SG20	15	6/21/2013	<10	-	<43	<25	<35	-	-	-	**63**	-	-	<270	-	-	**26**	-	<27	<22
SG21	5	6/21/2013	<2.1	-	<8.6	<5.0	<7.1	-	-	-	**34**	-	-	<54	-	-	**20**	-	<5.3	**33**
SG21	15	6/21/2013	<2.1	-	<8.6	<5.0	<7.1	-	-	-	**16**	-	-	<54	-	-	**7.4**	-	<5.3	**15**
SG22	5	6/21/2013	<52	-	<220	<130	<180	-	-	-	**360**	-	-	<1300	-	-	<88	-	<130	**240**
SG22	15	6/21/2013	<210	-	<860	<500	<710	-	-	-	**7,100**	-	-	<5400	-	-	<350	-	<530	**4,900**
SG23	5	6/21/2013	<2.1	-	<8.6	<5.0	<7.1	-	-	-	<4.4	-	-	<54	-	-	<3.5	-	<5.3	<4.4
SG23	15	6/21/2013	<2.1	-	<8.6	<5.0	<7.1	-	-	-	**7.3**	-	-	<54	-	-	<3.5	-	<5.3	<4.4

Table 4
Soil Vapor Analytical Results - Volatile Organic Compounds
Former Orcutt Refinery
1550 West Stowell Road
Santa Maria, California

Sample Location	Depth	Date	m,p-Xylene	Propene	Styrene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Tert-Amyl-Methyl Ether (TAME)	Tert-Butyl Alcohol (TBA)	Tetrachloroethene	Tetrahydrofuran	Toluene	Trichloroethene	Trichlorofluoromethane	Vinyl Acetate	Vinyl Chloride
SG19	5	6/21/2013	**73**	-	<4.3	<8.0	<4.6	-	-	<6.9	-	**33**	<5.5	<5.6	-	<2.6
SG19	15	6/21/2013	**43**	-	<4.3	<8.0	<4.6	-	-	<6.9	-	**17**	**5.7**	<5.6	-	<2.6
SG20	5	6/21/2013	<880	-	<430	<800	<460	-	-	<690	-	<380	<550	<560	-	<260
SG20	15	6/21/2013	<44	-	<22	<40	<23	-	-	<34	-	<19	<27	<28	-	<13
SG21	5	6/21/2013	**87**	-	<4.3	<8.0	<4.6	-	-	<6.9	-	**21**	<5.5	<5.6	-	<2.6
SG21	15	6/21/2013	**44**	-	<4.3	<8.0	<4.6	-	-	<6.9	-	**6.9**	<5.5	**7.8**	-	<2.6
SG22	5	6/21/2013	**720**	-	<110	<200	<120	-	-	<170	-	**470**	<140	<140	-	<65
SG22	15	6/21/2013	**27,000**	-	<430	<800	<460	-	-	<690	-	**5,200**	<550	<560	-	<260
SG23	5	6/21/2013	<8.8	-	<4.3	<8.0	<4.6	-	-	<6.9	-	<3.8	<5.5	<5.6	-	<2.6
SG23	15	6/21/2013	**10**	-	<4.3	<8.0	<4.6	-	-	<6.9	-	**5.6**	<5.5	<5.6	-	<2.6

Notes:

All results in micrograms per cubic meter (ug/m3)

<10: Concentration less than the associated laboratory Reporting Limit (RL).

J: Estimated concentration detected between the Method Detection Limit and the Reporting Limit.

B: The method blank contains analyte at concentration greater than the RL.

Bold: Concentration > Laboratory Detection Limit (DL)

EPA TO-15

POST-REMEDIATION SOIL VAPOR DATA

Table 1a

November 2014 AOC 2 Chemical of Potential Concern Selection Summary - Shallow Soil Gas (5 ft bgs)
Former Orcutt Refinery, Santa Maria, California

Chemical	Detects / Total	% Detects	NonDetects Min - Max	Detects Min - Max	COPC?	Rationale
BTEX						
Benzene	2 /3	67%	3.2 - 3.2	4.7 - 18	Yes	
Ethylbenzene	1 /3	33%	4.4 - 4.4	7.7 - 7.7	Yes	
m&p-Xylenes	1 /3	33%	8.8 - 8.8	18 - 18	Yes	
o-Xylene	1 /3	33%	4.4 - 4.4	8.7 - 8.7	Yes	
Toluene	1 /3	33%	3.8 - 3.8	9.4 - 9.4	Yes	
Volatile Organic Compounds (VOCs)						
1,1,1,2-Tetrachloroethane	0 /3	0%	7 - 7	-	No	Not detected
1,1,1-Trichloroethane	0 /3	0%	5.5 - 5.5	-	No	Not detected
1,1,2,2-Tetrachloroethane	0 /3	0%	7 - 7	-	No	Not detected
1,1,2-Trichloroethane	0 /3	0%	5.5 - 5.5	-	No	Not detected
1,1,2-Trichlorotrifluoroethane	0 /3	0%	7.7 - 7.7	-	No	Not detected
1,1-Dichloroethane	0 /3	0%	4.1 - 4.1	-	No	Not detected
1,1-Dichloroethene	0 /3	0%	4 - 4	-	No	Not detected
1,2,4-Trichlorobenzene	0 /3	0%	38 - 38	-	No	Not detected
1,2,4-Trimethylbenzene	1 /3	33%	5 - 5	6.9 - 6.9	Yes	
1,2-Dibromoethane	0 /3	0%	7.8 - 7.8	-	No	Not detected
1,2-Dichlorobenzene	0 /3	0%	12 - 12	-	No	Not detected
1,2-Dichloroethane	0 /3	0%	4.1 - 4.1	-	No	Not detected
1,2-Dichloropropane	0 /3	0%	9.4 - 9.4	-	No	Not detected
1,3,5-Trimethylbenzene	0 /3	0%	5 - 5	-	No	Not detected
1,3-Dichlorobenzene	0 /3	0%	12 - 12	-	No	Not detected
1,4-Dichlorobenzene	0 /3	0%	12 - 12	-	No	Not detected
2-Butanone	0 /3	0%	30 - 30	-	No	Not detected
2-Hexanone	0 /3	0%	8.3 - 8.3	-	No	Not detected
4-Ethyltoluene	0 /3	0%	5 - 5	-	No	Not detected
4-Methyl-2-pentanone	0 /3	0%	8.3 - 8.3	-	No	Not detected
Acetone	0 /3	0%	24 - 24	-	No	Not detected
Bromodichloromethane	0 /3	0%	6.8 - 6.8	-	No	Not detected
Bromoform	0 /3	0%	10 - 10	-	No	Not detected
Bromomethane	0 /3	0%	16 - 16	-	No	Not detected
Carbon disulfide	1 /3	33%	6.3 - 6.3	12 - 12	Yes	
Carbon tetrachloride	0 /3	0%	6.4 - 6.4	-	No	Not detected
Chlorobenzene	0 /3	0%	4.7 - 4.7	-	No	Not detected
Chloroethane	0 /3	0%	8 - 8	-	No	Not detected
Chloroform	1 /3	33%	4.9 - 4.9	5.4 - 5.4	Yes	
Chloromethane	0 /3	0%	2.1 - 2.1	-	No	Not detected
cis-1,3-Dichloropropene	0 /3	0%	4.6 - 4.6	-	No	Not detected
Dibromochloromethane	0 /3	0%	8.6 - 8.6	-	No	Not detected
Dichlorodifluoromethane	0 /3	0%	5 - 5	-	No	Not detected
Dichlorotetrafluoroethane	0 /3	0%	7.1 - 7.1	-	No	Not detected
Methylene chloride	0 /3	0%	3.5 - 3.5	-	No	Not detected
Styrene	0 /3	0%	4.3 - 4.3	-	No	Not detected
Tetrachloroethene	0 /3	0%	6.9 - 6.9	-	No	Not detected
trans-1,2-Dichloroethene	0 /3	0%	8 - 8	-	No	Not detected

All concentrations in ug/m3.
AOC 2 includes SG-9R, SG-20R, and SG-25.

Chemical	Detects / Total	% Detects	NonDetects Min - Max	Detects Min - Max	COPC?	Rationale
trans-1,3-Dichloropropene	0 /3	0%	4.6 - 4.6	-	No	Not detected
Trichloroethene	0 /3	0%	5.5 - 5.5	-	No	Not detected
Trichlorofluoromethane	0 /3	0%	5.6 - 5.6	-	No	Not detected
Vinyl chloride	0 /3	0%	2.6 - 2.6	-	No	Not detected
Polycyclic Aromatic Hydrocarbons (PAHs)						
Naphthalene	0 /3	0%	5.3 - 5.3	-	No	Not detected
Semivolatile Organic Compounds (SVOCs)						
1,2-Dichloro-1,1,2,2-tetraflouroethane	0 /3	0%	7.1 - 7.1	-	No	Not detected
Hexachlorobutadiene	0 /3	0%	54 - 54	-	No	Not detected
Total Petroleum Hydrocarbons (TPH)						
TPH Diesel - aliphatic	1 /3	33%	100 - 100	1800 - 1800	Yes	
TPH Diesel - aromatic	0 /3	0%	100 - 100	-	No	Not detected
TPH Gasoline - aliphatic	3 /3	100%	-	200 - 7600	Yes	
TPH Gasoline - aromatic	0 /3	0%	100 - 100	-	No	Not detected
TPHv	3 /3	100%	-	200 - 7800	No	

All concentrations in ug/m3.
AOC 2 includes SG-9R, SG-20R, and SG-25.

Table 1b

November 2014 AOC 3 Chemical of Potential Concern Selection Summary - Shallow Soil Gas (5 ft bgs)
Former Orcutt Refinery, Santa Maria, California

Chemical	Detects / Total	% Detects	NonDetects Min - Max	Detects Min - Max	COPC?	Rationale
BTEX						
Benzene	5 /9	56%	3.2 - 6.5	3.6 - 28	Yes	
Ethylbenzene	5 /9	56%	4.4 - 4.4	11 - 340	Yes	
m&p-Xylenes	6 /9	67%	8.8 - 8.8	13 - 1600	Yes	
o-Xylene	5 /9	56%	4.4 - 4.4	10 - 360	Yes	
Toluene	5 /9	56%	3.8 - 7.6	6.9 - 88	Yes	
Volatile Organic Compounds (VOCs)						
1,1,1,2-Tetrachloroethane	0 /9	0%	7 - 35	-	No	Not detected
1,1,1-Trichloroethane	0 /9	0%	5.5 - 28	-	No	Not detected
1,1,2,2-Tetrachloroethane	0 /9	0%	7 - 35	-	No	Not detected
1,1,2-Trichloroethane	0 /9	0%	5.5 - 28	-	No	Not detected
1,1,2-Trichlorotrifluoroethane	0 /9	0%	7.7 - 39	-	No	Not detected
1,1-Dichloroethane	0 /9	0%	4.1 - 21	-	No	Not detected
1,1-Dichloroethene	0 /9	0%	4 - 20	-	No	Not detected
1,2,4-Trichlorobenzene	0 /9	0%	38 - 190	-	No	Not detected
1,2,4-Trimethylbenzene	5 /9	56%	5 - 5	8.8 - 350	Yes	
1,2-Dibromoethane	0 /9	0%	7.8 - 39	-	No	Not detected
1,2-Dichlorobenzene	0 /9	0%	12 - 61	-	No	Not detected
1,2-Dichloroethane	0 /9	0%	4.1 - 21	-	No	Not detected
1,2-Dichloropropane	0 /9	0%	9.4 - 47	-	No	Not detected
1,3,5-Trimethylbenzene	4 /9	44%	5 - 5	12 - 230	Yes	
1,3-Dichlorobenzene	0 /9	0%	12 - 61	-	No	Not detected
1,4-Dichlorobenzene	0 /9	0%	12 - 61	-	No	Not detected
2-Butanone	0 /9	0%	30 - 150	-	No	Not detected
2-Hexanone	0 /9	0%	8.3 - 41	-	No	Not detected
4-Ethyltoluene	3 /9	33%	5 - 10	20 - 150	Yes	
4-Methyl-2-pentanone	0 /9	0%	8.3 - 41	-	No	Not detected
Acetone	2 /9	22%	24 - 120	27 - 31	Yes	
Bromodichloromethane	0 /9	0%	6.8 - 34	-	No	Not detected
Bromoform	0 /9	0%	10 - 52	-	No	Not detected
Bromomethane	0 /9	0%	16 - 79	-	No	Not detected
Carbon disulfide	2 /9	22%	6.3 - 32	6.7 - 30	Yes	
Carbon tetrachloride	0 /9	0%	6.4 - 32	-	No	Not detected
Chlorobenzene	0 /9	0%	4.7 - 23	-	No	Not detected
Chloroethane	0 /9	0%	8 - 40	-	No	Not detected
Chloroform	2 /9	22%	4.9 - 25	5.3 - 20	Yes	
Chloromethane	0 /9	0%	2.1 - 10	-	No	Not detected
cis-1,3-Dichloropropene	0 /9	0%	4.6 - 23	-	No	Not detected
Dibromochloromethane	0 /9	0%	8.6 - 43	-	No	Not detected
Dichlorodifluoromethane	1 /9	11%	5 - 25	9.6 - 9.6	Yes	
Dichlorotetrafluoroethane	0 /9	0%	7.1 - 35	-	No	Not detected
Methylene chloride	0 /9	0%	3.5 - 18	-	No	Not detected
Styrene	0 /9	0%	4.3 - 22	-	No	Not detected
Tetrachloroethene	2 /9	22%	6.9 - 34	8.6 - 14	Yes	
trans-1,2-Dichloroethene	0 /9	0%	8 - 40	-	No	Not detected

All concentrations in ug/m3.
AOC 3 includes SG-5R, SG-6R, SG-17 through SG-19R, and SG-21R through SG-24.

Chemical	Detects / Total	% Detects	NonDetects Min - Max	Detects Min - Max	COPC?	Rationale
trans-1,3-Dichloropropene	0 /9	0%	4.6 - 23	-	No	Not detected
Trichloroethene	1 /9	11%	5.5 - 27	7.1 - 7.1	Yes	
Trichlorofluoromethane	4 /9	44%	5.6 - 28	8.1 - 110	Yes	
Vinyl chloride	0 /9	0%	2.6 - 13	-	No	Not detected
Polycyclic Aromatic Hydrocarbons (PAHs)						
Naphthalene	0 /9	0%	5.3 - 27	-	No	Not detected
Semivolatile Organic Compounds (SVOCs)						
1,2-Dichloro-1,1,2,2-tetraflouroethane	0 /9	0%	7.1 - 35	-	No	Not detected
Hexachlorobutadiene	0 /9	0%	54 - 270	-	No	Not detected
Total Petroleum Hydrocarbons (TPH)						
TPH Diesel - aliphatic	6 /9	67%	100 - 100	300 - 110000	Yes	
TPH Diesel - aromatic	3 /9	33%	100 - 200	300 - 2300	Yes	
TPH Gasoline - aliphatic	9 /9	100%	-	300 - 13000	Yes	
TPH Gasoline - aromatic	4 /9	44%	100 - 200	100 - 2200	Yes	
TPHv	9 /9	100%	-	140 - 120000	No	

All concentrations in ug/m3.
AOC 3 includes SG-5R, SG-6R, SG-17 through SG-19R, and SG-21R through SG-24.

Table 1c

November 2014 AOC 5 Chemical of Potential Concern Selection Summary - Shallow Soil Gas (5 ft bgs)
Former Orcutt Refinery, Santa Maria, California

Chemical	Detects / Total	% Detects	NonDetects Min - Max	Detects Min - Max	COPC?	Rationale
BTEX						
Benzene	0 /2	0%	3.2 - 3.2	-	No	Not detected
Ethylbenzene	0 /2	0%	4.4 - 4.4	-	No	Not detected
m&p-Xylenes	0 /2	0%	8.8 - 8.8	-	No	Not detected
o-Xylene	0 /2	0%	4.4 - 4.4	-	No	Not detected
Toluene	0 /2	0%	3.8 - 3.8	-	No	Not detected
Volatile Organic Compounds (VOCs)						
1,1,1,2-Tetrachloroethane	0 /2	0%	7 - 7	-	No	Not detected
1,1,1-Trichloroethane	0 /2	0%	5.5 - 5.5	-	No	Not detected
1,1,2,2-Tetrachloroethane	0 /2	0%	7 - 7	-	No	Not detected
1,1,2-Trichloroethane	0 /2	0%	5.5 - 5.5	-	No	Not detected
1,1,2-Trichlorotrifluoroethane	0 /2	0%	7.7 - 7.7	-	No	Not detected
1,1-Dichloroethane	0 /2	0%	4.1 - 4.1	-	No	Not detected
1,1-Dichloroethene	0 /2	0%	4 - 4	-	No	Not detected
1,2,4-Trichlorobenzene	0 /2	0%	38 - 38	-	No	Not detected
1,2,4-Trimethylbenzene	0 /2	0%	5 - 5	-	No	Not detected
1,2-Dibromoethane	0 /2	0%	7.8 - 7.8	-	No	Not detected
1,2-Dichlorobenzene	0 /2	0%	12 - 12	-	No	Not detected
1,2-Dichloroethane	0 /2	0%	4.1 - 4.1	-	No	Not detected
1,2-Dichloropropane	0 /2	0%	9.4 - 9.4	-	No	Not detected
1,3,5-Trimethylbenzene	0 /2	0%	5 - 5	-	No	Not detected
1,3-Dichlorobenzene	0 /2	0%	12 - 12	-	No	Not detected
1,4-Dichlorobenzene	0 /2	0%	12 - 12	-	No	Not detected
2-Butanone	0 /2	0%	30 - 30	-	No	Not detected
2-Hexanone	0 /2	0%	8.3 - 8.3	-	No	Not detected
4-Ethyltoluene	0 /2	0%	5 - 5	-	No	Not detected
4-Methyl-2-pentanone	0 /2	0%	8.3 - 8.3	-	No	Not detected
Acetone	0 /2	0%	24 - 24	-	No	Not detected
Bromodichloromethane	0 /2	0%	6.8 - 6.8	-	No	Not detected
Bromoform	0 /2	0%	10 - 10	-	No	Not detected
Bromomethane	0 /2	0%	16 - 16	-	No	Not detected
Carbon disulfide	0 /2	0%	6.3 - 6.3	-	No	Not detected
Carbon tetrachloride	0 /2	0%	6.4 - 6.4	-	No	Not detected
Chlorobenzene	0 /2	0%	4.7 - 4.7	-	No	Not detected
Chloroethane	0 /2	0%	8 - 8	-	No	Not detected
Chloroform	2 /2	100%	-	6.5 - 8.7	Yes	
Chloromethane	0 /2	0%	2.1 - 2.1	-	No	Not detected
cis-1,3-Dichloropropene	0 /2	0%	4.6 - 4.6	-	No	Not detected
Dibromochloromethane	0 /2	0%	8.6 - 8.6	-	No	Not detected
Dichlorodifluoromethane	0 /2	0%	5 - 5	-	No	Not detected
Dichlorotetrafluoroethane	0 /2	0%	7.1 - 7.1	-	No	Not detected
Methylene chloride	0 /2	0%	3.5 - 3.5	-	No	Not detected
Styrene	0 /2	0%	4.3 - 4.3	-	No	Not detected
Tetrachloroethene	0 /2	0%	6.9 - 6.9	-	No	Not detected
trans-1,2-Dichloroethene	0 /2	0%	8 - 8	-	No	Not detected

All concentrations in ug/m3.
AOC 5 includes SG-10R and SG-11R.

Chemical	Detects / Total	% Detects	NonDetects Min - Max	Detects Min - Max	COPC?	Rationale
trans-1,3-Dichloropropene	0 /2	0%	4.6 - 4.6	-	No	Not detected
Trichloroethene	0 /2	0%	5.5 - 5.5	-	No	Not detected
Trichlorofluoromethane	2 /2	100%	-	8 - 11	Yes	
Vinyl chloride	0 /2	0%	2.6 - 2.6	-	No	Not detected
Polycyclic Aromatic Hydrocarbons (PAHs)						
Naphthalene	0 /2	0%	5.3 - 5.3	-	No	Not detected
Semivolatile Organic Compounds (SVOCs)						
1,2-Dichloro-1,1,2,2-tetraflouroethane	0 /2	0%	7.1 - 7.1	-	No	Not detected
Hexachlorobutadiene	0 /2	0%	54 - 54	-	No	Not detected
Total Petroleum Hydrocarbons (TPH)						
TPH Diesel - aliphatic	0 /2	0%	100 - 100	-	No	Not detected
TPH Diesel - aromatic	0 /2	0%	100 - 100	-	No	Not detected
TPH Gasoline - aliphatic	2 /2	100%	-	300 - 300	Yes	
TPH Gasoline - aromatic	0 /2	0%	100 - 100	-	No	Not detected
TPHv	2 /2	100%	-	230 - 240	No	

All concentrations in ug/m3.
AOC 5 includes SG-10R and SG-11R.

Table 1d

November 2014 AOC 6 Chemical of Potential Concern Selection Summary - Shallow Soil Gas (5 ft bgs)
Former Orcutt Refinery, Santa Maria, California

Chemical	Detects / Total	% Detects	NonDetects Min - Max	Detects Min - Max	COPC?	Rationale
BTEX						
Benzene	0 /1	0%	3.2 - 3.2	-	No	Not detected
Ethylbenzene	0 /1	0%	4.4 - 4.4	-	No	Not detected
m&p-Xylenes	0 /1	0%	8.8 - 8.8	-	No	Not detected
o-Xylene	0 /1	0%	4.4 - 4.4	-	No	Not detected
Toluene	0 /1	0%	3.8 - 3.8	-	No	Not detected
Volatile Organic Compounds (VOCs)						
1,1,1,2-Tetrachloroethane	0 /1	0%	7 - 7	-	No	Not detected
1,1,1-Trichloroethane	0 /1	0%	5.5 - 5.5	-	No	Not detected
1,1,2,2-Tetrachloroethane	0 /1	0%	7 - 7	-	No	Not detected
1,1,2-Trichloroethane	0 /1	0%	5.5 - 5.5	-	No	Not detected
1,1,2-Trichlorotrifluoroethane	0 /1	0%	7.7 - 7.7	-	No	Not detected
1,1-Dichloroethane	0 /1	0%	4.1 - 4.1	-	No	Not detected
1,1-Dichloroethene	0 /1	0%	4 - 4	-	No	Not detected
1,2,4-Trichlorobenzene	0 /1	0%	38 - 38	-	No	Not detected
1,2,4-Trimethylbenzene	0 /1	0%	5 - 5	-	No	Not detected
1,2-Dibromoethane	0 /1	0%	7.8 - 7.8	-	No	Not detected
1,2-Dichlorobenzene	0 /1	0%	12 - 12	-	No	Not detected
1,2-Dichloroethane	0 /1	0%	4.1 - 4.1	-	No	Not detected
1,2-Dichloropropane	0 /1	0%	9.4 - 9.4	-	No	Not detected
1,3,5-Trimethylbenzene	0 /1	0%	5 - 5	-	No	Not detected
1,3-Dichlorobenzene	0 /1	0%	12 - 12	-	No	Not detected
1,4-Dichlorobenzene	0 /1	0%	12 - 12	-	No	Not detected
2-Butanone	0 /1	0%	30 - 30	-	No	Not detected
2-Hexanone	0 /1	0%	8.3 - 8.3	-	No	Not detected
4-Ethyltoluene	0 /1	0%	5 - 5	-	No	Not detected
4-Methyl-2-pentanone	0 /1	0%	8.3 - 8.3	-	No	Not detected
Acetone	0 /1	0%	24 - 24	-	No	Not detected
Bromodichloromethane	0 /1	0%	6.8 - 6.8	-	No	Not detected
Bromoform	0 /1	0%	10 - 10	-	No	Not detected
Bromomethane	0 /1	0%	16 - 16	-	No	Not detected
Carbon disulfide	0 /1	0%	6.3 - 6.3	-	No	Not detected
Carbon tetrachloride	0 /1	0%	6.4 - 6.4	-	No	Not detected
Chlorobenzene	0 /1	0%	4.7 - 4.7	-	No	Not detected
Chloroethane	0 /1	0%	8 - 8	-	No	Not detected
Chloroform	1 /1	100%	-	5 - 5	Yes	
Chloromethane	0 /1	0%	2.1 - 2.1	-	No	Not detected
cis-1,3-Dichloropropene	0 /1	0%	4.6 - 4.6	-	No	Not detected
Dibromochloromethane	0 /1	0%	8.6 - 8.6	-	No	Not detected
Dichlorodifluoromethane	0 /1	0%	5 - 5	-	No	Not detected
Dichlorotetrafluoroethane	0 /1	0%	7.1 - 7.1	-	No	Not detected
Methylene chloride	0 /1	0%	3.5 - 3.5	-	No	Not detected
Styrene	0 /1	0%	4.3 - 4.3	-	No	Not detected
Tetrachloroethene	0 /1	0%	6.9 - 6.9	-	No	Not detected
trans-1,2-Dichloroethene	0 /1	0%	8 - 8	-	No	Not detected

All concentrations in ug/m3.
AOC 6 inlcudes SG-1R.

Chemical	Detects / Total	% Detects	NonDetects Min - Max	Detects Min - Max	COPC?	Rationale
trans-1,3-Dichloropropene	0 /1	0%	4.6 - 4.6	-	No	Not detected
Trichloroethene	0 /1	0%	5.5 - 5.5	-	No	Not detected
Trichlorofluoromethane	1 /1	100%	-	7.7 - 7.7	Yes	
Vinyl chloride	0 /1	0%	2.6 - 2.6	-	No	Not detected
Polycyclic Aromatic Hydrocarbons (PAHs)						
Naphthalene	0 /1	0%	5.3 - 5.3	-	No	Not detected
Semivolatile Organic Compounds (SVOCs)						
1,2-Dichloro-1,1,2,2-tetraflouroethane	0 /1	0%	7.1 - 7.1	-	No	Not detected
Hexachlorobutadiene	0 /1	0%	54 - 54	-	No	Not detected
Total Petroleum Hydrocarbons (TPH)						
TPH Diesel - aliphatic	1 /1	100%	-	100 - 100	Yes	
TPH Diesel - aromatic	0 /1	0%	100 - 100	-	No	Not detected
TPH Gasoline - aliphatic	1 /1	100%	-	300 - 300	Yes	
TPH Gasoline - aromatic	0 /1	0%	100 - 100	-	No	Not detected
TPHv	1 /1	100%	-	280 - 280	No	

All concentrations in ug/m3.
AOC 6 inlcudes SG-1R.

Table 2a
March 2016 AOC 2 Chemical of Potential Concern Selection Summary - Shallow Soil Gas (5 ft bgs)
Former Orcutt Refinery, Santa Maria, California

Chemical	Detects / Total	% Detects	NonDetects Min - Max	Detects Min - Max	COPC?	Rationale
BTEX						
Benzene	0 /3	0%	3.2 - 3.2	-	No	Not detected
Ethylbenzene	0 /3	0%	4.4 - 4.4	-	No	Not detected
m&p-Xylenes	0 /3	0%	8.8 - 8.8	-	No	Not detected
o-Xylene	0 /3	0%	4.4 - 4.4	-	No	Not detected
Toluene	1 /3	33%	3.8 - 3.8	5.5 - 5.5	Yes	
Volatile Organic Compounds (VOCs)						
1,1,1,2-Tetrachloroethane	0 /3	0%	7 - 7	-	No	Not detected
1,1,1-Trichloroethane	0 /3	0%	5.5 - 5.5	-	No	Not detected
1,1,2,2-Tetrachloroethane	0 /3	0%	7 - 7	-	No	Not detected
1,1,2-Trichloroethane	0 /3	0%	5.5 - 5.5	-	No	Not detected
1,1,2-Trichlorotrifluoroethane	0 /3	0%	7.7 - 7.7	-	No	Not detected
1,1-Dichloroethane	0 /3	0%	4.1 - 4.1	-	No	Not detected
1,1-Dichloroethene	0 /3	0%	4 - 4	-	No	Not detected
1,2,4-Trichlorobenzene	0 /3	0%	38 - 38	-	No	Not detected
1,2,4-Trimethylbenzene	0 /3	0%	5 - 5	-	No	Not detected
1,2-Dibromoethane	0 /3	0%	7.8 - 7.8	-	No	Not detected
1,2-Dichlorobenzene	0 /3	0%	12 - 12	-	No	Not detected
1,2-Dichloroethane	0 /3	0%	4.1 - 4.1	-	No	Not detected
1,2-Dichloropropane	0 /3	0%	9.4 - 9.4	-	No	Not detected
1,3,5-Trimethylbenzene	0 /3	0%	5 - 5	-	No	Not detected
1,3-Dichlorobenzene	0 /3	0%	12 - 12	-	No	Not detected
1,4-Dichlorobenzene	0 /3	0%	12 - 12	-	No	Not detected
2-Butanone	0 /3	0%	30 - 30	-	No	Not detected
2-Hexanone	0 /3	0%	8.3 - 8.3	-	No	Not detected
4-Ethyltoluene	0 /3	0%	5 - 5	-	No	Not detected
4-Methyl-2-pentanone	0 /3	0%	8.3 - 8.3	-	No	Not detected
Acetone	0 /3	0%	24 - 24	-	No	Not detected
Bromodichloromethane	0 /3	0%	6.8 - 6.8	-	No	Not detected
Bromoform	0 /3	0%	10 - 10	-	No	Not detected
Bromomethane	0 /3	0%	16 - 16	-	No	Not detected
Carbon disulfide	0 /3	0%	6.3 - 6.3	-	No	Not detected
Carbon tetrachloride	0 /3	0%	6.4 - 6.4	-	No	Not detected
Chlorobenzene	0 /3	0%	4.7 - 4.7	-	No	Not detected
Chloroethane	0 /3	0%	8 - 8	-	No	Not detected
Chloroform	0 /3	0%	4.9 - 4.9	-	No	Not detected
Chloromethane	0 /3	0%	2.1 - 2.1	-	No	Not detected
cis-1,2-Dichloroethene	0 /3	0%	4 - 4	-	No	Not detected
cis-1,3-Dichloropropene	0 /3	0%	4.6 - 4.6	-	No	Not detected
Dibromochloromethane	0 /3	0%	8.6 - 8.6	-	No	Not detected
Dichlorodifluoromethane	0 /3	0%	5 - 5	-	No	Not detected
Dichlorotetrafluoroethane	0 /3	0%	7.1 - 7.1	-	No	Not detected
Methylene chloride	0 /3	0%	3.5 - 3.5	-	No	Not detected
Styrene	0 /3	0%	4.3 - 4.3	-	No	Not detected
Tetrachloroethene	0 /3	0%	6.9 - 6.9	-	No	Not detected

All concentrations in ug/m3.
AOC 2 includes SG-9R, SG-20R, and SG-25.

Chemical	Detects / Total	% Detects	NonDetects Min - Max	Detects Min - Max	COPC?	Rationale
trans-1,2-Dichloroethene	0 /3	0%	8 - 8	-	No	Not detected
trans-1,3-Dichloropropene	0 /3	0%	4.6 - 4.6	-	No	Not detected
Trichloroethene	0 /3	0%	5.5 - 5.5	-	No	Not detected
Trichlorofluoromethane	0 /3	0%	5.6 - 5.6	-	No	Not detected
Vinyl chloride	0 /3	0%	2.6 - 2.6	-	No	Not detected
Polycyclic Aromatic Hydrocarbons (PAHs)						
Naphthalene	0 /3	0%	5.3 - 5.3	-	No	Not detected
Semivolatile Organic Compounds (SVOCs)						
1,2-Dichloro-1,1,2,2-tetraflouroethan	0 /3	0%	7.1 - 7.1	-	No	Not detected
Hexachlorobutadiene	0 /3	0%	54 - 54	-	No	Not detected
Total Petroleum Hydrocarbons (TPH)						
TPH Diesel - aliphatic	1 /3	33%	100 - 100	760 - 760	Yes	
TPH Diesel - aromatic	0 /3	0%	100 - 100	-	No	Not detected
TPH Gasoline - aliphatic	3 /3	100%	-	110 - 1800	Yes	

All concentrations in ug/m3.
AOC 2 includes SG-9R, SG-20R, and SG-25.

Table 2b
March 2016 AOC 3 Chemical of Potential Concern Selection Summary - Shallow Soil Gas (5 ft bgs)
Former Orcutt Refinery, Santa Maria, California

Chemical	Detects / Total	% Detects	NonDetects Min - Max	Detects Min - Max	COPC?	Rationale
BTEX						
Benzene	1 /8	13%	3.2 - 3.2	8.2 - 8.2	Yes	
Ethylbenzene	1 /8	13%	4.4 - 4.4	5.8 - 5.8	Yes	
m&p-Xylenes	1 /8	13%	8.8 - 8.8	13 - 13	Yes	
o-Xylene	0 /8	0%	4.4 - 4.4	-	No	Not detected
Toluene	0 /8	0%	3.8 - 3.8	-	No	Not detected
Volatile Organic Compounds (VOCs)						
1,1,1,2-Tetrachloroethane	0 /8	0%	7 - 7	-	No	Not detected
1,1,1-Trichloroethane	0 /8	0%	5.5 - 5.5	-	No	Not detected
1,1,2,2-Tetrachloroethane	0 /8	0%	7 - 7	-	No	Not detected
1,1,2-Trichloroethane	0 /8	0%	5.5 - 5.5	-	No	Not detected
1,1,2-Trichlorotrifluoroethane	0 /8	0%	7.7 - 7.7	-	No	Not detected
1,1-Dichloroethane	0 /8	0%	4.1 - 4.1	-	No	Not detected
1,1-Dichloroethene	0 /8	0%	4 - 4	-	No	Not detected
1,2,4-Trichlorobenzene	0 /8	0%	38 - 38	-	No	Not detected
1,2,4-Trimethylbenzene	1 /8	13%	5 - 5	11 - 11	Yes	
1,2-Dibromoethane	0 /8	0%	7.8 - 7.8	-	No	Not detected
1,2-Dichlorobenzene	0 /8	0%	12 - 12	-	No	Not detected
1,2-Dichloroethane	0 /8	0%	4.1 - 4.1	-	No	Not detected
1,2-Dichloropropane	0 /8	0%	9.4 - 9.4	-	No	Not detected
1,3,5-Trimethylbenzene	0 /8	0%	5 - 5	-	No	Not detected
1,3-Dichlorobenzene	0 /8	0%	12 - 12	-	No	Not detected
1,4-Dichlorobenzene	0 /8	0%	12 - 12	-	No	Not detected
2-Butanone	0 /8	0%	30 - 30	-	No	Not detected
2-Hexanone	0 /8	0%	8.3 - 8.3	-	No	Not detected
4-Ethyltoluene	0 /8	0%	5 - 5	-	No	Not detected
4-Methyl-2-pentanone	0 /8	0%	8.3 - 8.3	-	No	Not detected
Acetone	1 /8	13%	24 - 24	31 - 31	Yes	
Bromodichloromethane	0 /8	0%	6.8 - 6.8	-	No	Not detected
Bromoform	0 /8	0%	10 - 10	-	No	Not detected
Bromomethane	0 /8	0%	16 - 16	-	No	Not detected
Carbon disulfide	0 /8	0%	6.3 - 6.3	-	No	Not detected
Carbon tetrachloride	0 /8	0%	6.4 - 6.4	-	No	Not detected
Chlorobenzene	0 /8	0%	4.7 - 4.7	-	No	Not detected
Chloroethane	0 /8	0%	8 - 8	-	No	Not detected
Chloroform	0 /8	0%	4.9 - 4.9	-	No	Not detected
Chloromethane	0 /8	0%	2.1 - 2.1	-	No	Not detected
cis-1,2-Dichloroethene	0 /8	0%	4 - 4	-	No	Not detected
cis-1,3-Dichloropropene	0 /8	0%	4.6 - 4.6	-	No	Not detected
Dibromochloromethane	0 /8	0%	8.6 - 8.6	-	No	Not detected
Dichlorodifluoromethane	1 /8	13%	5 - 5	6.3 - 6.3	Yes	
Dichlorotetrafluoroethane	0 /8	0%	7.1 - 7.1	-	No	Not detected
Methylene chloride	0 /8	0%	3.5 - 3.5	-	No	Not detected
Styrene	0 /8	0%	4.3 - 4.3	-	No	Not detected
Tetrachloroethene	0 /8	0%	6.9 - 6.9	-	No	Not detected

All concentrations in ug/m3.
AOC 3 includes SG-5R, SG-6R, SG-17 through SG-19R, and SG-21R through SG-23R.

Chemical	Detects / Total	% Detects	NonDetects Min - Max	Detects Min - Max	COPC?	Rationale
trans-1,2-Dichloroethene	0 /8	0%	8 - 8	-	No	Not detected
trans-1,3-Dichloropropene	0 /8	0%	4.6 - 4.6	-	No	Not detected
Trichloroethene	0 /8	0%	5.5 - 5.5	-	No	Not detected
Trichlorofluoromethane	3 /8	38%	5.6 - 5.6	6.8 - 130	Yes	
Vinyl chloride	0 /8	0%	2.6 - 2.6	-	No	Not detected
Polycyclic Aromatic Hydrocarbons (PAHs)						
Naphthalene	0 /8	0%	5.3 - 5.3	-	No	Not detected
Semivolatile Organic Compounds (SVOCs)						
1,2-Dichloro-1,1,2,2-tetraflouroethan	0 /8	0%	7.1 - 7.1	-	No	Not detected
Hexachlorobutadiene	0 /8	0%	54 - 54	-	No	Not detected
Total Petroleum Hydrocarbons (TPH)						
TPH Diesel - aliphatic	2 /8	25%	100 - 100	250 - 490	Yes	
TPH Diesel - aromatic	0 /8	0%	100 - 100	-	No	Not detected
TPH Gasoline - aliphatic	7 /8	88%	100 - 100	130 - 700	Yes	

All concentrations in ug/m3.
AOC 3 includes SG-5R, SG-6R, SG-17 through SG-19R, and SG-21R through SG-23R.

Table 2c
March 2016 AOC 5 Chemical of Potential Concern Selection Summary - Shallow Soil Gas (5 ft bgs)
Former Orcutt Refinery, Santa Maria, California

Chemical	Detects / Total	% Detects	NonDetects Min - Max	Detects Min - Max	COPC?	Rationale
BTEX						
Benzene	0 /2	0%	3.2 - 3.2	-	No	Not detected
Ethylbenzene	0 /2	0%	4.4 - 4.4	-	No	Not detected
m&p-Xylenes	0 /2	0%	8.8 - 8.8	-	No	Not detected
o-Xylene	0 /2	0%	4.4 - 4.4	-	No	Not detected
Toluene	0 /2	0%	3.8 - 3.8	-	No	Not detected
Volatile Organic Compounds (VOCs)						
1,1,1,2-Tetrachloroethane	0 /2	0%	7 - 7	-	No	Not detected
1,1,1-Trichloroethane	0 /2	0%	5.5 - 5.5	-	No	Not detected
1,1,2,2-Tetrachloroethane	0 /2	0%	7 - 7	-	No	Not detected
1,1,2-Trichloroethane	0 /2	0%	5.5 - 5.5	-	No	Not detected
1,1,2-Trichlorotrifluoroethane	0 /2	0%	7.7 - 7.7	-	No	Not detected
1,1-Dichloroethane	0 /2	0%	4.1 - 4.1	-	No	Not detected
1,1-Dichloroethene	0 /2	0%	4 - 4	-	No	Not detected
1,2,4-Trichlorobenzene	0 /2	0%	38 - 38	-	No	Not detected
1,2,4-Trimethylbenzene	1 /2	50%	5 - 5	5.6 - 5.6	Yes	
1,2-Dibromoethane	0 /2	0%	7.8 - 7.8	-	No	Not detected
1,2-Dichlorobenzene	0 /2	0%	12 - 12	-	No	Not detected
1,2-Dichloroethane	0 /2	0%	4.1 - 4.1	-	No	Not detected
1,2-Dichloropropane	0 /2	0%	9.4 - 9.4	-	No	Not detected
1,3,5-Trimethylbenzene	0 /2	0%	5 - 5	-	No	Not detected
1,3-Dichlorobenzene	0 /2	0%	12 - 12	-	No	Not detected
1,4-Dichlorobenzene	0 /2	0%	12 - 12	-	No	Not detected
2-Butanone	0 /2	0%	30 - 30	-	No	Not detected
2-Hexanone	0 /2	0%	8.3 - 8.3	-	No	Not detected
4-Ethyltoluene	0 /2	0%	5 - 5	-	No	Not detected
4-Methyl-2-pentanone	0 /2	0%	8.3 - 8.3	-	No	Not detected
Acetone	2 /2	100%	-	42 - 66	Yes	
Bromodichloromethane	0 /2	0%	6.8 - 6.8	-	No	Not detected
Bromoform	0 /2	0%	10 - 10	-	No	Not detected
Bromomethane	0 /2	0%	16 - 16	-	No	Not detected
Carbon disulfide	0 /2	0%	6.3 - 6.3	-	No	Not detected
Carbon tetrachloride	0 /2	0%	6.4 - 6.4	-	No	Not detected
Chlorobenzene	0 /2	0%	4.7 - 4.7	-	No	Not detected
Chloroethane	0 /2	0%	8 - 8	-	No	Not detected
Chloroform	0 /2	0%	4.9 - 4.9	-	No	Not detected
Chloromethane	0 /2	0%	2.1 - 2.1	-	No	Not detected
cis-1,2-Dichloroethene	0 /2	0%	4 - 4	-	No	Not detected
cis-1,3-Dichloropropene	0 /2	0%	4.6 - 4.6	-	No	Not detected
Dibromochloromethane	0 /2	0%	8.6 - 8.6	-	No	Not detected
Dichlorodifluoromethane	0 /2	0%	5 - 5	-	No	Not detected
Dichlorotetrafluoroethane	0 /2	0%	7.1 - 7.1	-	No	Not detected
Methylene chloride	0 /2	0%	3.5 - 3.5	-	No	Not detected
Styrene	0 /2	0%	4.3 - 4.3	-	No	Not detected
Tetrachloroethene	0 /2	0%	6.9 - 6.9	-	No	Not detected

All concentrations in ug/m3.
AOC 5 includes SG-10R and SG-11R.

Chemical	Detects / Total	% Detects	NonDetects Min - Max	Detects Min - Max	COPC?	Rationale
trans-1,2-Dichloroethene	0 /2	0%	8 - 8	-	No	Not detected
trans-1,3-Dichloropropene	0 /2	0%	4.6 - 4.6	-	No	Not detected
Trichloroethene	0 /2	0%	5.5 - 5.5	-	No	Not detected
Trichlorofluoromethane	2 /2	100%	-	8.3 - 17	Yes	
Vinyl chloride	0 /2	0%	2.6 - 2.6	-	No	Not detected
Polycyclic Aromatic Hydrocarbons (PAHs)						
Naphthalene	0 /2	0%	5.3 - 5.3	-	No	Not detected
Semivolatile Organic Compounds (SVOCs)						
1,2-Dichloro-1,1,2,2-tetraflouroethan	0 /2	0%	7.1 - 7.1	-	No	Not detected
Hexachlorobutadiene	0 /2	0%	54 - 54	-	No	Not detected
Total Petroleum Hydrocarbons (TPH)						
TPH Diesel - aliphatic	1 /2	50%	100 - 100	280 - 280	Yes	
TPH Diesel - aromatic	0 /2	0%	100 - 100	-	No	Not detected
TPH Gasoline - aliphatic	2 /2	100%	-	190 - 400	Yes	

All concentrations in ug/m3.
AOC 5 includes SG-10R and SG-11R.

Table 2d
March 2016 AOC 6 Chemical of Potential Concern Selection Summary - Shallow Soil Gas (5 ft bgs)
Former Orcutt Refinery, Santa Maria, California

Chemical	Detects / Total	% Detects	NonDetects Min - Max	Detects Min - Max	COPC?	Rationale
BTEX						
Benzene	1 /1	100%	-	3.6 - 3.6	Yes	
Ethylbenzene	0 /1	0%	4.4 - 4.4	-	No	Not detected
m&p-Xylenes	0 /1	0%	8.8 - 8.8	-	No	Not detected
o-Xylene	0 /1	0%	4.4 - 4.4	-	No	Not detected
Toluene	1 /1	100%	-	4 - 4	Yes	
Volatile Organic Compounds (VOCs)						
1,1,1,2-Tetrachloroethane	0 /1	0%	7 - 7	-	No	Not detected
1,1,1-Trichloroethane	0 /1	0%	5.5 - 5.5	-	No	Not detected
1,1,2,2-Tetrachloroethane	0 /1	0%	7 - 7	-	No	Not detected
1,1,2-Trichloroethane	0 /1	0%	5.5 - 5.5	-	No	Not detected
1,1,2-Trichlorotrifluoroethane	0 /1	0%	7.7 - 7.7	-	No	Not detected
1,1-Dichloroethane	0 /1	0%	4.1 - 4.1	-	No	Not detected
1,1-Dichloroethene	0 /1	0%	4 - 4	-	No	Not detected
1,2,4-Trichlorobenzene	0 /1	0%	38 - 38	-	No	Not detected
1,2,4-Trimethylbenzene	0 /1	0%	5 - 5	-	No	Not detected
1,2-Dibromoethane	0 /1	0%	7.8 - 7.8	-	No	Not detected
1,2-Dichlorobenzene	0 /1	0%	12 - 12	-	No	Not detected
1,2-Dichloroethane	0 /1	0%	4.1 - 4.1	-	No	Not detected
1,2-Dichloropropane	0 /1	0%	9.4 - 9.4	-	No	Not detected
1,3,5-Trimethylbenzene	0 /1	0%	5 - 5	-	No	Not detected
1,3-Dichlorobenzene	0 /1	0%	12 - 12	-	No	Not detected
1,4-Dichlorobenzene	0 /1	0%	12 - 12	-	No	Not detected
2-Butanone	0 /1	0%	30 - 30	-	No	Not detected
2-Hexanone	0 /1	0%	8.3 - 8.3	-	No	Not detected
4-Ethyltoluene	0 /1	0%	5 - 5	-	No	Not detected
4-Methyl-2-pentanone	0 /1	0%	8.3 - 8.3	-	No	Not detected
Acetone	0 /1	0%	24 - 24	-	No	Not detected
Bromodichloromethane	0 /1	0%	6.8 - 6.8	-	No	Not detected
Bromoform	0 /1	0%	10 - 10	-	No	Not detected
Bromomethane	0 /1	0%	16 - 16	-	No	Not detected
Carbon disulfide	0 /1	0%	6.3 - 6.3	-	No	Not detected
Carbon tetrachloride	0 /1	0%	6.4 - 6.4	-	No	Not detected
Chlorobenzene	0 /1	0%	4.7 - 4.7	-	No	Not detected
Chloroethane	0 /1	0%	8 - 8	-	No	Not detected
Chloroform	0 /1	0%	4.9 - 4.9	-	No	Not detected
Chloromethane	0 /1	0%	2.1 - 2.1	-	No	Not detected
cis-1,2-Dichloroethene	0 /1	0%	4 - 4	-	No	Not detected
cis-1,3-Dichloropropene	0 /1	0%	4.6 - 4.6	-	No	Not detected
Dibromochloromethane	0 /1	0%	8.6 - 8.6	-	No	Not detected
Dichlorodifluoromethane	0 /1	0%	5 - 5	-	No	Not detected
Dichlorotetrafluoroethane	0 /1	0%	7.1 - 7.1	-	No	Not detected
Methylene chloride	0 /1	0%	3.5 - 3.5	-	No	Not detected
Styrene	0 /1	0%	4.3 - 4.3	-	No	Not detected
Tetrachloroethene	0 /1	0%	6.9 - 6.9	-	No	Not detected

All concentrations in ug/m3.
AOC 6 inlcudes SG-1R.

Chemical	Detects / Total	% Detects	NonDetects Min - Max	Detects Min - Max	COPC?	Rationale
trans-1,2-Dichloroethene	0 /1	0%	8 - 8	-	No	Not detected
trans-1,3-Dichloropropene	0 /1	0%	4.6 - 4.6	-	No	Not detected
Trichloroethene	0 /1	0%	5.5 - 5.5	-	No	Not detected
Trichlorofluoromethane	1 /1	100%	-	16 - 16	Yes	
Vinyl chloride	0 /1	0%	2.6 - 2.6	-	No	Not detected
Polycyclic Aromatic Hydrocarbons (PAHs)						
Naphthalene	0 /1	0%	5.3 - 5.3	-	No	Not detected
Semivolatile Organic Compounds (SVOCs)						
1,2-Dichloro-1,1,2,2-tetraflouroethan	0 /1	0%	7.1 - 7.1	-	No	Not detected
Hexachlorobutadiene	0 /1	0%	54 - 54	-	No	Not detected
Total Petroleum Hydrocarbons (TPH)						
TPH Diesel - aliphatic	0 /1	0%	100 - 100	-	No	Not detected
TPH Diesel - aromatic	0 /1	0%	100 - 100	-	No	Not detected
TPH Gasoline - aliphatic	1 /1	100%	-	680 - 680	Yes	

All concentrations in ug/m3.
AOC 6 inlcudes SG-1R.

Table 5a

November 2014 and March 2016 AOC 2 Post-remediation Vapor Intrusion-related Cancer Risks and Noncancer Hazards

CHEMICAL	AOC 2							
	November 2014				March 2016			
	Shallow Soil Gas (Max) ug/m^3	Commercial Indoor Air ug/m^3	ILCR	HI	Shallow Soil Gas (Max) ug/m^3	Commercial Indoor Air ug/m^3	ILCR	HI
BTEX								
Benzene	1.80E+01	6.45E-03	1.37E-08	4.91E-04	ND	NA	ND	ND
Ethylbenzene	7.70E+00	2.46E-03	4.49E-10	2.80E-07	ND	NA	ND	ND
Toluene	9.40E+00	3.34E-03	NC	2.54E-06	5.50E+00	2.02E-03	NC	1.53E-06
m&p-Xylenes	1.80E+01	5.85E-03	NC	1.91E-06	ND	NA	ND	ND
o-Xylene	8.70E+00	3.09E-03	NC	1.01E-06	ND	NA	ND	ND
VOCs								
Acetone	ND	NA	ND	ND	ND	NA	ND	ND
Carbon disulfide	1.20E+01	4.82E-03	NC	1.38E-06	ND	NA	ND	ND
Chloroform	5.40E+00	2.17E-03	8.42E-10	1.65E-06	ND	NA	ND	ND
Dichlorodifluoromethane	ND	NA	ND	ND	ND	NA	ND	ND
4-Ethyltoluene	ND	NA	ND	ND	ND	NA	ND	ND
Tetrachloroethene	ND	NA	ND	ND	ND	NA	ND	ND
Trichloroethene	ND	NA	ND	ND	ND	NA	ND	ND
Trichlorofluoromethane	ND	NA	ND	ND	ND	NA	ND	ND
1,2,4-Trimethylbenzene	6.90E+00	1.87E-03	NC	6.11E-05	ND	NA	ND	ND
1,3,5-Trimethylbenzene	ND	NA	ND	ND	ND	NA	ND	ND
Total Petroleum Hydrocarbons								
TPH Gasoline - aliphatic	7.60E+03	2.97E+00	NC	9.70E-04	1.80E+03	7.82E-01	NC	2.55E-04
TPH Gasoline - aromatic	ND	NA	ND	ND	NA	NA	NA	NA
TPH Diesel - aliphatic	1.80E+03	7.05E-01	NC	5.36E-04	7.60E+02	3.30E-01	NC	2.51E-04
TPH Diesel - aromatic	ND	NA	ND	ND	ND	NA	ND	ND
TOTAL:			1.50E-08	0.0021			NC	0.00051

Notes:
NA = Not Applicable/Analyzed
ND = Not Detected
NC = No Criteria

Table 5b

November 2014 and March 2016 AOC 3 Post-remediation Vapor Intrusion-related Cancer Risks and Noncancer Hazards

CHEMICAL	AOC 3							
	November 2014				March 2016			
	Shallow Soil Gas (Max) ug/m^3	Commercial Indoor Air ug/m^3	ILCR	HI	Shallow Soil Gas (Max) ug/m^3	Commercial Indoor Air ug/m^3	ILCR	HI
BTEX								
Benzene	2.80E+01	1.00E-02	2.13E-08	7.63E-04	8.20E+00	3.31E-03	7.03E-09	2.52E-04
Ethylbenzene	3.40E+02	1.08E-01	1.98E-08	1.24E-05	5.80E+00	1.94E-03	3.55E-10	2.22E-07
Toluene	8.80E+01	3.13E-02	NC	2.38E-05	ND	NA	ND	ND
m&p-Xylenes	1.60E+03	5.20E-01	NC	1.70E-04	1.30E+01	4.34E-03	NC	1.42E-06
o-Xylene	3.60E+02	1.28E-01	NC	4.17E-05	ND	NA	ND	ND
VOCs								
Acetone	3.10E+01	1.44E-02	NC	1.06E-07	3.10E+01	1.46E-02	NC	1.07E-07
Carbon disulfide	3.00E+01	1.21E-02	NC	3.44E-06	ND	NA	ND	ND
Chloroform	2.00E+01	8.04E-03	3.12E-09	6.12E-06	ND	NA	ND	ND
Dichlorodifluoromethane	9.60E+00	2.80E-03	NC	6.39E-06	6.30E+00	2.27E-03	NC	5.19E-06
4-Ethyltoluene	1.50E+02	4.87E-02	NC	1.59E-05	ND	NA	ND	ND
Tetrachloroethene	1.40E+01	4.33E-03	1.87E-09	2.83E-05	ND	NA	ND	ND
Trichloroethene	7.10E+00	2.35E-03	7.06E-10	2.69E-04	ND	NA	ND	ND
Trichlorofluoromethane	1.10E+02	3.91E-02	NC	1.27E-05	1.30E+02	4.20E-02	NC	1.37E-05
1,2,4-Trimethylbenzene	3.50E+02	9.50E-02	NC	3.10E-03	1.10E+01	3.37E-03	NC	1.10E-04
1,3,5-Trimethylbenzene	2.30E+02	6.21E-02	NC	4.05E-04	ND	NA	ND	ND
Total Petroleum Hydrocarbons								
TPH Gasoline - aliphatic	1.30E+04	5.09E+00	NC	1.66E-03	7.00E+02	3.04E-01	NC	9.91E-05
TPH Gasoline - aromatic	2.20E+03	8.61E-01	NC	NA	NA	NA	NA	NA
TPH Diesel - aliphatic	1.10E+05	4.31E+01	NC	3.28E-02	4.90E+02	2.13E-01	NC	1.62E-04
TPH Diesel - aromatic	2.30E+03	9.00E-01	NC	4.11E-03	ND	NA	ND	ND
TOTAL:			4.68E-08	0.043			7.38E-09	0.00064

Notes:
NA = Not Applicable/Analyzed
ND = Not Detected
NC = No Criteria

Table 5c

November 2014 and March 2016 AOC 5 Post-remediation Vapor Intrusion-related Cancer Risks and Noncancer Hazards

CHEMICAL	AOC 5							
	November 2014				March 2016			
	Shallow Soil Gas (Max) ug/m^3	Commercial Indoor Air ug/m^3	ILCR	HI	Shallow Soil Gas (Max) ug/m^3	Commercial Indoor Air ug/m^3	ILCR	HI
BTEX								
Benzene	ND	NA	ND	ND	ND	NA	ND	ND
Ethylbenzene	ND	NA	ND	ND	ND	NA	ND	ND
Toluene	ND	NA	ND	ND	ND	NA	ND	ND
m&p-Xylenes	ND	NA	ND	ND	ND	NA	ND	ND
o-Xylene	ND	NA	ND	ND	ND	NA	ND	ND
VOCs								
Acetone	ND	NA	ND	ND	6.60E+01	3.11E-02	NC	2.29E-07
Carbon disulfide	ND	NA	ND	ND	ND	NA	ND	ND
Chloroform	8.70E+00	3.50E-03	1.36E-09	2.66E-06	ND	NA	ND	ND
Dichlorodifluoromethane	ND	NA	ND	ND	ND	NA	ND	ND
4-Ethyltoluene	ND	NA	ND	ND	ND	NA	ND	ND
Tetrachloroethene	ND	NA	ND	ND	ND	NA	ND	ND
Trichloroethene	ND	NA	ND	ND	ND	NA	ND	ND
Trichlorofluoromethane	1.10E+01	3.91E-03	NC	1.27E-06	1.70E+01	5.50E-03	NC	1.79E-06
1,2,4-Trimethylbenzene	ND	NA	ND	ND	5.60E+00	1.71E-03	NC	5.59E-05
1,3,5-Trimethylbenzene	ND	NA	ND	ND	ND	NA	ND	ND
Total Petroleum Hydrocarbons								
TPH Gasoline - aliphatic	3.00E+02	1.17E-01	NC	3.83E-05	4.00E+02	1.74E-01	NC	5.67E-05
TPH Gasoline - aromatic	ND	NA	ND	ND	NA	NA	NA	NA
TPH Diesel - aliphatic	ND	NA	ND	ND	2.80E+02	1.22E-01	NC	9.25E-05
TPH Diesel - aromatic	ND	NA	ND	ND	ND	NA	ND	ND
TOTAL:			1.36E-09	0.000042			NC	0.00021

Notes:
NA = Not Applicable/Analyzed
ND = Not Detected
NC = No Criteria

Table 5d

November 2014 and March 2016 AOC 6 Post-remediation Vapor Intrusion-related Cancer Risks and Noncancer Hazards

CHEMICAL	AOC 6							
	November 2014				March 2016			
	Shallow Soil Gas (Max) ug/m^3	Commercial Indoor Air ug/m^3	ILCR	HI	Shallow Soil Gas (Max) ug/m^3	Commercial Indoor Air ug/m^3	ILCR	HI
BTEX								
Benzene	ND	NA	ND	ND	3.60E+00	1.45E-03	3.09E-09	1.11E-04
Ethylbenzene	ND	NA	ND	ND	ND	NA	ND	ND
Toluene	ND	NA	ND	ND	4.00E+00	1.47E-03	NC	1.12E-06
m&p-Xylenes	ND	NA	ND	ND	ND	NA	ND	ND
o-Xylene	ND	NA	ND	ND	ND	NA	ND	ND
VOCs								
Acetone	ND	NA	ND	ND	ND	NA	ND	ND
Carbon disulfide	ND	NA	ND	ND	ND	NA	ND	ND
Chloroform	5.00E+00	2.01E-03	7.80E-10	1.53E-06	ND	NA	ND	ND
Dichlorodifluoromethane	ND	NA	ND	ND	ND	NA	ND	ND
4-Ethyltoluene	ND	NA	ND	ND	ND	NA	ND	ND
Tetrachloroethene	ND	NA	ND	ND	ND	NA	ND	ND
Trichloroethene	ND	NA	ND	ND	ND	NA	ND	ND
Trichlorofluoromethane	7.70E+00	2.74E-03	NC	8.92E-07	1.60E+01	5.17E-03	NC	1.69E-06
1,2,4-Trimethylbenzene	ND	NA	ND	ND	ND	NA	ND	ND
1,3,5-Trimethylbenzene	ND	NA	ND	ND	ND	NA	ND	ND
Total Petroleum Hydrocarbons								
TPH Gasoline - aliphatic	3.00E+02	1.17E-01	NC	3.83E-05	6.80E+02	2.95E-01	NC	9.63E-05
TPH Gasoline - aromatic	ND	NA	ND	ND	NA	NA	NA	NA
TPH Diesel - aliphatic	1.00E+02	3.91E-02	NC	2.98E-05	ND	NA	ND	ND
TPH Diesel - aromatic	ND	NA	ND	ND	ND	NA	ND	ND
TOTAL:			7.80E-10	0.000071			3.09E-09	0.00021

Notes:
NA = Not Applicable/Analyzed
ND = Not Detected
NC = No Criteria

Table 8a

November 2014 AOC 2 Chemical of Potential Concern Selection Summary - Deep Soil Gas (15 ft bgs)
Former Orcutt Refinery, Santa Maria, California

Chemical	Detects / Total	% Detects	NonDetects Min - Max	Detects Min - Max	COPC?	Rationale
BTEX						
Benzene	0 /3	0%	3.2 - 3.2	-	No	Not detected
Ethylbenzene	0 /3	0%	4.4 - 4.4	-	No	Not detected
m&p-Xylenes	0 /3	0%	8.8 - 8.8	-	No	Not detected
o-Xylene	0 /3	0%	4.4 - 4.4	-	No	Not detected
Toluene	0 /3	0%	3.8 - 3.8	-	No	Not detected
Volatile Organic Compounds (VOCs)						
1,1,1,2-Tetrachloroethane	0 /3	0%	7 - 7	-	No	Not detected
1,1,1-Trichloroethane	0 /3	0%	5.5 - 5.5	-	No	Not detected
1,1,2,2-Tetrachloroethane	0 /3	0%	7 - 7	-	No	Not detected
1,1,2-Trichloroethane	0 /3	0%	5.5 - 5.5	-	No	Not detected
1,1,2-Trichlorotrifluoroethane	0 /3	0%	7.7 - 7.7	-	No	Not detected
1,1-Dichloroethane	0 /3	0%	4.1 - 4.1	-	No	Not detected
1,1-Dichloroethene	0 /3	0%	4 - 4	-	No	Not detected
1,2,4-Trichlorobenzene	0 /3	0%	38 - 38	-	No	Not detected
1,2,4-Trimethylbenzene	0 /3	0%	5 - 5	-	No	Not detected
1,2-Dibromoethane	0 /3	0%	7.8 - 7.8	-	No	Not detected
1,2-Dichlorobenzene	0 /3	0%	12 - 12	-	No	Not detected
1,2-Dichloroethane	0 /3	0%	4.1 - 4.1	-	No	Not detected
1,2-Dichloropropane	0 /3	0%	9.4 - 9.4	-	No	Not detected
1,3,5-Trimethylbenzene	0 /3	0%	5 - 5	-	No	Not detected
1,3-Dichlorobenzene	0 /3	0%	12 - 12	-	No	Not detected
1,4-Dichlorobenzene	0 /3	0%	12 - 12	-	No	Not detected
2-Butanone	0 /3	0%	30 - 30	-	No	Not detected
2-Hexanone	0 /3	0%	8.3 - 8.3	-	No	Not detected
4-Ethyltoluene	0 /3	0%	5 - 5	-	No	Not detected
4-Methyl-2-pentanone	0 /3	0%	8.3 - 8.3	-	No	Not detected
Acetone	1 /3	33%	24 - 24	32 - 32	Yes	
Bromodichloromethane	0 /3	0%	6.8 - 6.8	-	No	Not detected
Bromoform	0 /3	0%	10 - 10	-	No	Not detected
Bromomethane	0 /3	0%	16 - 16	-	No	Not detected
Carbon disulfide	0 /3	0%	6.3 - 6.3	-	No	Not detected
Carbon tetrachloride	0 /3	0%	6.4 - 6.4	-	No	Not detected
Chlorobenzene	0 /3	0%	4.7 - 4.7	-	No	Not detected
Chloroethane	0 /3	0%	8 - 8	-	No	Not detected
Chloroform	0 /3	0%	4.9 - 4.9	-	No	Not detected
Chloromethane	0 /3	0%	2.1 - 2.1	-	No	Not detected
cis-1,3-Dichloropropene	0 /3	0%	4.6 - 4.6	-	No	Not detected
Dibromochloromethane	0 /3	0%	8.6 - 8.6	-	No	Not detected
Dichlorodifluoromethane	0 /3	0%	5 - 5	-	No	Not detected
Dichlorotetrafluoroethane	0 /3	0%	7.1 - 7.1	-	No	Not detected
Methylene chloride	0 /3	0%	3.5 - 3.5	-	No	Not detected
Styrene	0 /3	0%	4.3 - 4.3	-	No	Not detected
Tetrachloroethene	1 /3	33%	6.9 - 6.9	18 - 18	Yes	
trans-1,2-Dichloroethene	0 /3	0%	8 - 8	-	No	Not detected

All concentrations in ug/m3.
AOC 2 includes SG-9R, SG-20R, and SG-25.

Chemical	Detects / Total	% Detects	NonDetects Min - Max	Detects Min - Max	COPC?	Rationale
trans-1,3-Dichloropropene	0 /3	0%	4.6 - 4.6	-	No	Not detected
Trichloroethene	0 /3	0%	5.5 - 5.5	-	No	Not detected
Trichlorofluoromethane	1 /3	33%	5.6 - 5.6	11 - 11	Yes	
Vinyl chloride	0 /3	0%	2.6 - 2.6	-	No	Not detected
Polycyclic Aromatic Hydrocarbons (PAHs)						
Naphthalene	0 /3	0%	5.3 - 5.3	-	No	Not detected
Semivolatile Organic Compounds (SVOCs)						
1,2-Dichloro-1,1,2,2-tetraflouroethane	0 /3	0%	7.1 - 7.1	-	No	Not detected
Hexachlorobutadiene	0 /3	0%	54 - 54	-	No	Not detected
Total Petroleum Hydrocarbons (TPH)						
TPH Diesel - aliphatic	1 /3	33%	100 - 100	100 - 100	Yes	
TPH Diesel - aromatic	0 /3	0%	100 - 100	-	No	Not detected
TPH Gasoline - aliphatic	3 /3	100%	-	400 - 600	Yes	
TPH Gasoline - aromatic	0 /3	0%	100 - 100	-	No	Not detected
TPHv	3 /3	100%	-	270 - 320	No	

All concentrations in ug/m3.
AOC 2 includes SG-9R, SG-20R, and SG-25.

Table 8b
November 2014 AOC 3 Chemical of Potential Concern Selection Summary - Deep Soil Gas (>11 ft bgs)
Former Orcutt Refinery, Santa Maria, California

Chemical	Detects / Total	% Detects	NonDetects Min - Max	Detects Min - Max	COPC?	Rationale
BTEX						
Benzene	4 /8	50%	3.2 - 3.2	35 - 2500	Yes	
Ethylbenzene	4 /8	50%	4.4 - 44	30 - 13000	Yes	
m&p-Xylenes	4 /8	50%	8.8 - 88	170 - 48000	Yes	
o-Xylene	4 /8	50%	4.4 - 44	43 - 9700	Yes	
Toluene	4 /8	50%	3.8 - 38	8.2 - 8600	Yes	
Volatile Organic Compounds (VOCs)						
1,1,1,2-Tetrachloroethane	0 /8	0%	7 - 700	-	No	Not detected
1,1,1-Trichloroethane	0 /8	0%	5.5 - 550	-	No	Not detected
1,1,2,2-Tetrachloroethane	0 /8	0%	7 - 700	-	No	Not detected
1,1,2-Trichloroethane	0 /8	0%	5.5 - 550	-	No	Not detected
1,1,2-Trichlorotrifluoroethane	0 /8	0%	7.7 - 770	-	No	Not detected
1,1-Dichloroethane	0 /8	0%	4.1 - 410	-	No	Not detected
1,1-Dichloroethene	0 /8	0%	4 - 400	-	No	Not detected
1,2,4-Trichlorobenzene	0 /8	0%	38 - 3800	-	No	Not detected
1,2,4-Trimethylbenzene	4 /8	50%	5 - 50	59 - 3700	Yes	
1,2-Dibromoethane	0 /8	0%	7.8 - 780	-	No	Not detected
1,2-Dichlorobenzene	0 /8	0%	12 - 1200	-	No	Not detected
1,2-Dichloroethane	0 /8	0%	4.1 - 410	-	No	Not detected
1,2-Dichloropropane	0 /8	0%	9.4 - 940	-	No	Not detected
1,3,5-Trimethylbenzene	4 /8	50%	5 - 50	36 - 3000	Yes	
1,3-Dichlorobenzene	0 /8	0%	12 - 1200	-	No	Not detected
1,4-Dichlorobenzene	0 /8	0%	12 - 1200	-	No	Not detected
2-Butanone	0 /8	0%	30 - 3000	-	No	Not detected
2-Hexanone	0 /8	0%	8.3 - 830	-	No	Not detected
4-Ethyltoluene	4 /8	50%	5 - 50	20 - 2100	Yes	
4-Methyl-2-pentanone	0 /8	0%	8.3 - 830	-	No	Not detected
Acetone	3 /8	38%	24 - 240	70 - 10000	Yes	
Bromodichloromethane	0 /8	0%	6.8 - 680	-	No	Not detected
Bromoform	0 /8	0%	10 - 1000	-	No	Not detected
Bromomethane	0 /8	0%	16 - 1600	-	No	Not detected
Carbon disulfide	1 /8	13%	6.3 - 63	1200 - 1200	Yes	
Carbon tetrachloride	0 /8	0%	6.4 - 640	-	No	Not detected
Chlorobenzene	0 /8	0%	4.7 - 470	-	No	Not detected
Chloroethane	0 /8	0%	8 - 800	-	No	Not detected
Chloroform	1 /8	13%	4.9 - 490	7 - 7	Yes	
Chloromethane	0 /8	0%	2.1 - 210	-	No	Not detected
cis-1,3-Dichloropropene	0 /8	0%	4.6 - 460	-	No	Not detected
Dibromochloromethane	0 /8	0%	8.6 - 860	-	No	Not detected
Dichlorodifluoromethane	1 /8	13%	5 - 500	12 - 12	Yes	
Dichlorotetrafluoroethane	0 /8	0%	7.1 - 710	-	No	Not detected
Methylene chloride	0 /8	0%	3.5 - 350	-	No	Not detected
Styrene	0 /8	0%	4.3 - 430	-	No	Not detected
Tetrachloroethene	2 /8	25%	6.9 - 690	12 - 86	Yes	
trans-1,2-Dichloroethene	0 /8	0%	8 - 800	-	No	Not detected

All concentrations in ug/m3.
AOC 3 includes SG-5R, SG-17 through SG-19R, and SG-21R through SG-24.

Chemical	Detects / Total	% Detects	NonDetects Min - Max	Detects Min - Max	COPC?	Rationale
trans-1,3-Dichloropropene	0 /8	0%	4.6 - 460	-	No	Not detected
Trichloroethene	0 /8	0%	5.5 - 550	-	No	Not detected
Trichlorofluoromethane	2 /8	25%	5.6 - 560	64 - 230	Yes	
Vinyl chloride	0 /8	0%	2.6 - 260	-	No	Not detected
Polycyclic Aromatic Hydrocarbons (PAHs)						
Naphthalene	0 /8	0%	5.3 - 530	-	No	Not detected
Semivolatile Organic Compounds (SVOCs)						
1,2-Dichloro-1,1,2,2-tetraflouroethane	0 /8	0%	7.1 - 710	-	No	Not detected
Hexachlorobutadiene	0 /8	0%	54 - 5400	-	No	Not detected
Total Petroleum Hydrocarbons (TPH)						
TPH Diesel - aliphatic	5 /8	63%	100 - 100	3900 - 2400000	Yes	
TPH Diesel - aromatic	4 /8	50%	100 - 1000	300 - 30000	Yes	
TPH Gasoline - aliphatic	8 /8	100%	-	300 - 660000	Yes	
TPH Gasoline - aromatic	4 /8	50%	100 - 1000	200 - 77000	Yes	
TPHv	8 /8	100%	-	240 - 3000000	No	

All concentrations in ug/m3.
AOC 3 includes SG-5R, SG-17 through SG-19R, and SG-21R through SG-24.

Table 8c

November 2014 AOC 5 Chemical of Potential Concern Selection Summary - Deep Soil Gas (15 ft bgs)
Former Orcutt Refinery, Santa Maria, California

Chemical	Detects / Total	% Detects	NonDetects Min - Max	Detects Min - Max	COPC?	Rationale
BTEX						
Benzene	0 /2	0%	3.2 - 3.2	-	No	Not detected
Ethylbenzene	0 /2	0%	4.4 - 4.4	-	No	Not detected
m&p-Xylenes	0 /2	0%	8.8 - 8.8	-	No	Not detected
o-Xylene	0 /2	0%	4.4 - 4.4	-	No	Not detected
Toluene	0 /2	0%	3.8 - 3.8	-	No	Not detected
Volatile Organic Compounds (VOCs)						
1,1,1,2-Tetrachloroethane	0 /2	0%	7 - 7	-	No	Not detected
1,1,1-Trichloroethane	0 /2	0%	5.5 - 5.5	-	No	Not detected
1,1,2,2-Tetrachloroethane	0 /2	0%	7 - 7	-	No	Not detected
1,1,2-Trichloroethane	0 /2	0%	5.5 - 5.5	-	No	Not detected
1,1,2-Trichlorotrifluoroethane	0 /2	0%	7.7 - 7.7	-	No	Not detected
1,1-Dichloroethane	0 /2	0%	4.1 - 4.1	-	No	Not detected
1,1-Dichloroethene	0 /2	0%	4 - 4	-	No	Not detected
1,2,4-Trichlorobenzene	0 /2	0%	38 - 38	-	No	Not detected
1,2,4-Trimethylbenzene	0 /2	0%	5 - 5	-	No	Not detected
1,2-Dibromoethane	0 /2	0%	7.8 - 7.8	-	No	Not detected
1,2-Dichlorobenzene	0 /2	0%	12 - 12	-	No	Not detected
1,2-Dichloroethane	0 /2	0%	4.1 - 4.1	-	No	Not detected
1,2-Dichloropropane	0 /2	0%	9.4 - 9.4	-	No	Not detected
1,3,5-Trimethylbenzene	0 /2	0%	5 - 5	-	No	Not detected
1,3-Dichlorobenzene	0 /2	0%	12 - 12	-	No	Not detected
1,4-Dichlorobenzene	0 /2	0%	12 - 12	-	No	Not detected
2-Butanone	0 /2	0%	30 - 30	-	No	Not detected
2-Hexanone	0 /2	0%	8.3 - 8.3	-	No	Not detected
4-Ethyltoluene	0 /2	0%	5 - 5	-	No	Not detected
4-Methyl-2-pentanone	0 /2	0%	8.3 - 8.3	-	No	Not detected
Acetone	1 /2	50%	24 - 24	26 - 26	Yes	
Bromodichloromethane	0 /2	0%	6.8 - 6.8	-	No	Not detected
Bromoform	0 /2	0%	10 - 10	-	No	Not detected
Bromomethane	0 /2	0%	16 - 16	-	No	Not detected
Carbon disulfide	0 /2	0%	6.3 - 6.3	-	No	Not detected
Carbon tetrachloride	0 /2	0%	6.4 - 6.4	-	No	Not detected
Chlorobenzene	0 /2	0%	4.7 - 4.7	-	No	Not detected
Chloroethane	0 /2	0%	8 - 8	-	No	Not detected
Chloroform	0 /2	0%	4.9 - 4.9	-	No	Not detected
Chloromethane	0 /2	0%	2.1 - 2.1	-	No	Not detected
cis-1,3-Dichloropropene	0 /2	0%	4.6 - 4.6	-	No	Not detected
Dibromochloromethane	0 /2	0%	8.6 - 8.6	-	No	Not detected
Dichlorodifluoromethane	0 /2	0%	5 - 5	-	No	Not detected
Dichlorotetrafluoroethane	0 /2	0%	7.1 - 7.1	-	No	Not detected
Methylene chloride	0 /2	0%	3.5 - 3.5	-	No	Not detected
Styrene	0 /2	0%	4.3 - 4.3	-	No	Not detected
Tetrachloroethene	0 /2	0%	6.9 - 6.9	-	No	Not detected
trans-1,2-Dichloroethene	0 /2	0%	8 - 8	-	No	Not detected

All concentrations in ug/m3.
AOC 5 includes SG-10R and SG-11R.

Chemical	Detects / Total	% Detects	NonDetects Min - Max	Detects Min - Max	COPC?	Rationale
trans-1,3-Dichloropropene	0 /2	0%	4.6 - 4.6	-	No	Not detected
Trichloroethene	0 /2	0%	5.5 - 5.5	-	No	Not detected
Trichlorofluoromethane	2 /2	100%	-	11 - 33	Yes	
Vinyl chloride	0 /2	0%	2.6 - 2.6	-	No	Not detected
Polycyclic Aromatic Hydrocarbons (PAHs)						
Naphthalene	0 /2	0%	5.3 - 5.3	-	No	Not detected
Semivolatile Organic Compounds (SVOCs)						
1,2-Dichloro-1,1,2,2-tetraflouroethane	0 /2	0%	7.1 - 7.1	-	No	Not detected
Hexachlorobutadiene	0 /2	0%	54 - 54	-	No	Not detected
Total Petroleum Hydrocarbons (TPH)						
TPH Diesel - aliphatic	0 /2	0%	100 - 100	-	No	Not detected
TPH Diesel - aromatic	0 /2	0%	100 - 100	-	No	Not detected
TPH Gasoline - aliphatic	1 /2	50%	100 - 100	400 - 400	Yes	
TPH Gasoline - aromatic	0 /2	0%	100 - 100	-	No	Not detected
TPHv	1 /2	50%	100 - 100	280 - 280	No	

All concentrations in ug/m3.
AOC 5 includes SG-10R and SG-11R.

Table 8d

November 2014 AOC 6 Chemical of Potential Concern Selection Summary - Deep Soil Gas (15 ft bgs)
Former Orcutt Refinery, Santa Maria, California

Chemical	Detects / Total	% Detects	NonDetects Min - Max	Detects Min - Max	COPC?	Rationale
BTEX						
Benzene	0 /1	0%	3.2 - 3.2	-	No	Not detected
Ethylbenzene	0 /1	0%	4.4 - 4.4	-	No	Not detected
m&p-Xylenes	0 /1	0%	8.8 - 8.8	-	No	Not detected
o-Xylene	0 /1	0%	4.4 - 4.4	-	No	Not detected
Toluene	0 /1	0%	3.8 - 3.8	-	No	Not detected
Volatile Organic Compounds (VOCs)						
1,1,1,2-Tetrachloroethane	0 /1	0%	7 - 7	-	No	Not detected
1,1,1-Trichloroethane	0 /1	0%	5.5 - 5.5	-	No	Not detected
1,1,2,2-Tetrachloroethane	0 /1	0%	7 - 7	-	No	Not detected
1,1,2-Trichloroethane	0 /1	0%	5.5 - 5.5	-	No	Not detected
1,1,2-Trichlorotrifluoroethane	0 /1	0%	7.7 - 7.7	-	No	Not detected
1,1-Dichloroethane	0 /1	0%	4.1 - 4.1	-	No	Not detected
1,1-Dichloroethene	0 /1	0%	4 - 4	-	No	Not detected
1,2,4-Trichlorobenzene	0 /1	0%	38 - 38	-	No	Not detected
1,2,4-Trimethylbenzene	0 /1	0%	5 - 5	-	No	Not detected
1,2-Dibromoethane	0 /1	0%	7.8 - 7.8	-	No	Not detected
1,2-Dichlorobenzene	0 /1	0%	12 - 12	-	No	Not detected
1,2-Dichloroethane	0 /1	0%	4.1 - 4.1	-	No	Not detected
1,2-Dichloropropane	0 /1	0%	9.4 - 9.4	-	No	Not detected
1,3,5-Trimethylbenzene	0 /1	0%	5 - 5	-	No	Not detected
1,3-Dichlorobenzene	0 /1	0%	12 - 12	-	No	Not detected
1,4-Dichlorobenzene	0 /1	0%	12 - 12	-	No	Not detected
2-Butanone	0 /1	0%	30 - 30	-	No	Not detected
2-Hexanone	0 /1	0%	8.3 - 8.3	-	No	Not detected
4-Ethyltoluene	0 /1	0%	5 - 5	-	No	Not detected
4-Methyl-2-pentanone	0 /1	0%	8.3 - 8.3	-	No	Not detected
Acetone	0 /1	0%	24 - 24	-	No	Not detected
Bromodichloromethane	0 /1	0%	6.8 - 6.8	-	No	Not detected
Bromoform	0 /1	0%	10 - 10	-	No	Not detected
Bromomethane	0 /1	0%	16 - 16	-	No	Not detected
Carbon disulfide	0 /1	0%	6.3 - 6.3	-	No	Not detected
Carbon tetrachloride	0 /1	0%	6.4 - 6.4	-	No	Not detected
Chlorobenzene	0 /1	0%	4.7 - 4.7	-	No	Not detected
Chloroethane	0 /1	0%	8 - 8	-	No	Not detected
Chloroform	0 /1	0%	4.9 - 4.9	-	No	Not detected
Chloromethane	0 /1	0%	2.1 - 2.1	-	No	Not detected
cis-1,3-Dichloropropene	0 /1	0%	4.6 - 4.6	-	No	Not detected
Dibromochloromethane	0 /1	0%	8.6 - 8.6	-	No	Not detected
Dichlorodifluoromethane	0 /1	0%	5 - 5	-	No	Not detected
Dichlorotetrafluoroethane	0 /1	0%	7.1 - 7.1	-	No	Not detected
Methylene chloride	0 /1	0%	3.5 - 3.5	-	No	Not detected
Styrene	0 /1	0%	4.3 - 4.3	-	No	Not detected
Tetrachloroethene	0 /1	0%	6.9 - 6.9	-	No	Not detected
trans-1,2-Dichloroethene	0 /1	0%	8 - 8	-	No	Not detected

All concentrations in ug/m3.
AOC 6 inlcudes SG-1R.

Chemical	Detects / Total	% Detects	NonDetects Min - Max	Detects Min - Max	COPC?	Rationale
trans-1,3-Dichloropropene	0 /1	0%	4.6 - 4.6	-	No	Not detected
Trichloroethene	0 /1	0%	5.5 - 5.5	-	No	Not detected
Trichlorofluoromethane	0 /1	0%	5.6 - 5.6	-	No	Not detected
Vinyl chloride	0 /1	0%	2.6 - 2.6	-	No	Not detected
Polycyclic Aromatic Hydrocarbons (PAHs)						
Naphthalene	0 /1	0%	5.3 - 5.3	-	No	Not detected
Semivolatile Organic Compounds (SVOCs)						
1,2-Dichloro-1,1,2,2-tetraflouroethane	0 /1	0%	7.1 - 7.1	-	No	Not detected
Hexachlorobutadiene	0 /1	0%	54 - 54	-	No	Not detected
Total Petroleum Hydrocarbons (TPH)						
TPH Diesel - aliphatic	0 /1	0%	100 - 100	-	No	Not detected
TPH Diesel - aromatic	0 /1	0%	100 - 100	-	No	Not detected
TPH Gasoline - aliphatic	1 /1	100%	-	900 - 900	Yes	
TPH Gasoline - aromatic	0 /1	0%	100 - 100	-	No	Not detected
TPHv	1 /1	100%	-	470 - 470	No	

All concentrations in ug/m3.
AOC 6 inlcudes SG-1R.

Table 9a
March 2016 AOC 2 Chemical of Potential Concern Selection Summary - Deep Soil Gas (15 ft bgs)
Former Orcutt Refinery, Santa Maria, California

Chemical	Detects / Total	% Detects	NonDetects Min - Max	Detects Min - Max	COPC?	Rationale
BTEX						
Benzene	1 /3	33%	3.2 - 3.2	4.4 - 4.4	Yes	
Ethylbenzene	1 /3	33%	4.4 - 4.4	5 - 5	Yes	
m&p-Xylenes	1 /3	33%	8.8 - 8.8	26 - 26	Yes	
o-Xylene	1 /3	33%	4.4 - 4.4	12 - 12	Yes	
Toluene	1 /3	33%	3.8 - 3.8	5.7 - 5.7	Yes	
Volatile Organic Compounds (VOCs)						
1,1,1,2-Tetrachloroethane	0 /3	0%	7 - 7	-	No	Not detected
1,1,1-Trichloroethane	0 /3	0%	5.5 - 5.5	-	No	Not detected
1,1,2,2-Tetrachloroethane	0 /3	0%	7 - 7	-	No	Not detected
1,1,2-Trichloroethane	0 /3	0%	5.5 - 5.5	-	No	Not detected
1,1,2-Trichlorotrifluoroethane	0 /3	0%	7.7 - 7.7	-	No	Not detected
1,1-Dichloroethane	0 /3	0%	4.1 - 4.1	-	No	Not detected
1,1-Dichloroethene	0 /3	0%	4 - 4	-	No	Not detected
1,2,4-Trichlorobenzene	0 /3	0%	38 - 38	-	No	Not detected
1,2,4-Trimethylbenzene	1 /3	33%	5 - 5	20 - 20	Yes	
1,2-Dibromoethane	0 /3	0%	7.8 - 7.8	-	No	Not detected
1,2-Dichlorobenzene	0 /3	0%	12 - 12	-	No	Not detected
1,2-Dichloroethane	0 /3	0%	4.1 - 4.1	-	No	Not detected
1,2-Dichloropropane	0 /3	0%	9.4 - 9.4	-	No	Not detected
1,3,5-Trimethylbenzene	1 /3	33%	5 - 5	8.7 - 8.7	Yes	
1,3-Dichlorobenzene	0 /3	0%	12 - 12	-	No	Not detected
1,4-Dichlorobenzene	0 /3	0%	12 - 12	-	No	Not detected
2-Butanone	1 /3	33%	30 - 30	38 - 38	Yes	
2-Hexanone	0 /3	0%	8.3 - 8.3	-	No	Not detected
4-Ethyltoluene	0 /3	0%	5 - 5	-	No	Not detected
4-Methyl-2-pentanone	0 /3	0%	8.3 - 8.3	-	No	Not detected
Acetone	2 /3	67%	24 - 24	30 - 47	Yes	
Bromodichloromethane	0 /3	0%	6.8 - 6.8	-	No	Not detected
Bromoform	0 /3	0%	10 - 10	-	No	Not detected
Bromomethane	0 /3	0%	16 - 16	-	No	Not detected
Carbon disulfide	0 /3	0%	6.3 - 6.3	-	No	Not detected
Carbon tetrachloride	0 /3	0%	6.4 - 6.4	-	No	Not detected
Chlorobenzene	0 /3	0%	4.7 - 4.7	-	No	Not detected
Chloroethane	0 /3	0%	8 - 8	-	No	Not detected
Chloroform	0 /3	0%	4.9 - 4.9	-	No	Not detected
Chloromethane	0 /3	0%	2.1 - 2.1	-	No	Not detected
cis-1,2-Dichloroethene	0 /3	0%	4 - 4	-	No	Not detected
cis-1,3-Dichloropropene	0 /3	0%	4.6 - 4.6	-	No	Not detected
Dibromochloromethane	0 /3	0%	8.6 - 8.6	-	No	Not detected
Dichlorodifluoromethane	1 /3	33%	5 - 5	5.2 - 5.2	Yes	
Dichlorotetrafluoroethane	0 /3	0%	7.1 - 7.1	-	No	Not detected
Methylene chloride	0 /3	0%	3.5 - 3.5	-	No	Not detected
Styrene	0 /3	0%	4.3 - 4.3	-	No	Not detected
Tetrachloroethene	0 /3	0%	6.9 - 6.9	-	No	Not detected

All concentrations in ug/m3.
AOC 2 includes SG-9R, SG-20R, and SG-25.

Chemical	Detects / Total	% Detects	NonDetects Min - Max	Detects Min - Max	COPC?	Rationale
trans-1,2-Dichloroethene	0 /3	0%	8 - 8	-	No	Not detected
trans-1,3-Dichloropropene	0 /3	0%	4.6 - 4.6	-	No	Not detected
Trichloroethene	0 /3	0%	5.5 - 5.5	-	No	Not detected
Trichlorofluoromethane	1 /3	33%	5.6 - 5.6	15 - 15	Yes	
Vinyl chloride	0 /3	0%	2.6 - 2.6	-	No	Not detected
Polycyclic Aromatic Hydrocarbons (PAHs)						
Naphthalene	0 /3	0%	5.3 - 5.3	-	No	Not detected
Semivolatile Organic Compounds (SVOCs)						
1,2-Dichloro-1,1,2,2-tetraflouroethan	0 /3	0%	7.1 - 7.1	-	No	Not detected
Hexachlorobutadiene	0 /3	0%	54 - 54	-	No	Not detected
Total Petroleum Hydrocarbons (TPH)						
TPH Diesel - aliphatic	2 /3	67%	100 - 100	140 - 220	Yes	
TPH Diesel - aromatic	1 /3	33%	100 - 100	130 - 130	Yes	
TPH Gasoline - aliphatic	3 /3	100%	-	140 - 370	Yes	

All concentrations in ug/m3.
AOC 2 includes SG-9R, SG-20R, and SG-25.

Table 9b
March 2016 AOC 3 Chemical of Potential Concern Selection Summary - Deep Soil Gas (>11 ft bgs)
Former Orcutt Refinery, Santa Maria, California

Chemical	Detects / Total	% Detects	NonDetects Min - Max	Detects Min - Max	COPC?	Rationale
BTEX						
Benzene	5 /8	63%	3.2 - 3.2	4.6 - 170000	Yes	
Ethylbenzene	3 /8	38%	4.4 - 4.4	40 - 62000	Yes	
m&p-Xylenes	2 /8	25%	8.8 - 44	73 - 140000	Yes	
o-Xylene	2 /8	25%	4.4 - 22	31 - 21000	Yes	
Toluene	3 /8	38%	3.8 - 19	44 - 28000	Yes	
Volatile Organic Compounds (VOCs)						
1,1,1,2-Tetrachloroethane	0 /8	0%	7 - 700	-	No	Not detected
1,1,1-Trichloroethane	1 /8	13%	5.5 - 550	10 - 10	Yes	
1,1,2,2-Tetrachloroethane	0 /8	0%	7 - 700	-	No	Not detected
1,1,2-Trichloroethane	0 /8	0%	5.5 - 550	-	No	Not detected
1,1,2-Trichlorotrifluoroethane	0 /8	0%	7.7 - 770	-	No	Not detected
1,1-Dichloroethane	0 /8	0%	4.1 - 410	-	No	Not detected
1,1-Dichloroethene	0 /8	0%	4 - 400	-	No	Not detected
1,2,4-Trichlorobenzene	0 /8	0%	38 - 3800	-	No	Not detected
1,2,4-Trimethylbenzene	2 /8	25%	5 - 25	9.2 - 7500	Yes	
1,2-Dibromoethane	0 /8	0%	7.8 - 780	-	No	Not detected
1,2-Dichlorobenzene	0 /8	0%	12 - 1200	-	No	Not detected
1,2-Dichloroethane	0 /8	0%	4.1 - 410	-	No	Not detected
1,2-Dichloropropane	0 /8	0%	9.4 - 940	-	No	Not detected
1,3,5-Trimethylbenzene	2 /8	25%	5 - 25	5.4 - 5700	Yes	
1,3-Dichlorobenzene	0 /8	0%	12 - 1200	-	No	Not detected
1,4-Dichlorobenzene	0 /8	0%	12 - 1200	-	No	Not detected
2-Butanone	1 /8	13%	30 - 3000	34 - 34	Yes	
2-Hexanone	0 /8	0%	8.3 - 830	-	No	Not detected
4-Ethyltoluene	1 /8	13%	5 - 25	4000 - 4000	Yes	
4-Methyl-2-pentanone	1 /8	13%	8.3 - 41	4100 - 4100	Yes	
Acetone	2 /8	25%	24 - 2400	35 - 66	Yes	
Bromodichloromethane	0 /8	0%	6.8 - 680	-	No	Not detected
Bromoform	0 /8	0%	10 - 1000	-	No	Not detected
Bromomethane	0 /8	0%	16 - 1600	-	No	Not detected
Carbon disulfide	1 /8	13%	6.3 - 32	710 - 710	Yes	
Carbon tetrachloride	0 /8	0%	6.4 - 640	-	No	Not detected
Chlorobenzene	0 /8	0%	4.7 - 470	-	No	Not detected
Chloroethane	0 /8	0%	8 - 800	-	No	Not detected
Chloroform	0 /8	0%	4.9 - 490	-	No	Not detected
Chloromethane	0 /8	0%	2.1 - 210	-	No	Not detected
cis-1,2-Dichloroethene	0 /8	0%	4 - 400	-	No	Not detected
cis-1,3-Dichloropropene	0 /8	0%	4.6 - 460	-	No	Not detected
Dibromochloromethane	0 /8	0%	8.6 - 860	-	No	Not detected
Dichlorodifluoromethane	1 /8	13%	5 - 500	11 - 11	Yes	
Dichlorotetrafluoroethane	0 /8	0%	7.1 - 710	-	No	Not detected
Methylene chloride	0 /8	0%	3.5 - 350	-	No	Not detected
Styrene	0 /8	0%	4.3 - 430	-	No	Not detected
Tetrachloroethene	2 /8	25%	6.9 - 34	79 - 820	Yes	

All concentrations in ug/m3.
AOC 3 includes SG-5R, SG-17 through SG-19R, and SG-21R through SG-24.

Chemical	Detects / Total	% Detects	NonDetects Min - Max	Detects Min - Max	COPC?	Rationale
trans-1,2-Dichloroethene	0 /8	0%	8 - 800	-	No	Not detected
trans-1,3-Dichloropropene	0 /8	0%	4.6 - 460	-	No	Not detected
Trichloroethene	0 /8	0%	5.5 - 550	-	No	Not detected
Trichlorofluoromethane	2 /8	25%	5.6 - 560	30 - 310	Yes	
Vinyl chloride	0 /8	0%	2.6 - 260	-	No	Not detected
Polycyclic Aromatic Hydrocarbons (PAHs)						
Naphthalene	0 /8	0%	5.3 - 530	-	No	Not detected
Semivolatile Organic Compounds (SVOCs)						
1,2-Dichloro-1,1,2,2-tetraflouroethan	0 /8	0%	7.1 - 710	-	No	Not detected
Hexachlorobutadiene	0 /8	0%	54 - 5400	-	No	Not detected
Total Petroleum Hydrocarbons (TPH)						
TPH Diesel - aliphatic	6 /8	75%	100 - 100	290 - 1600000	Yes	
TPH Diesel - aromatic	0 /8	0%	100 - 80000	-	No	Not detected
TPH Gasoline - aliphatic	8 /8	100%	-	160 - 8900000	Yes	

All concentrations in ug/m3.
AOC 3 includes SG-5R, SG-17 through SG-19R, and SG-21R through SG-24.

Table 9c
March 2016 AOC 5 Chemical of Potential Concern Selection Summary - Deep Soil Gas (15 ft bgs)
Former Orcutt Refinery, Santa Maria, California

Chemical	Detects / Total	% Detects	NonDetects Min - Max	Detects Min - Max	COPC?	Rationale
BTEX						
Benzene	1 /2	50%	3.2 - 3.2	3.3 - 3.3	Yes	
Ethylbenzene	0 /2	0%	4.4 - 4.4	-	No	Not detected
m&p-Xylenes	0 /2	0%	8.8 - 8.8	-	No	Not detected
o-Xylene	0 /2	0%	4.4 - 4.4	-	No	Not detected
Toluene	1 /2	50%	3.8 - 3.8	4.4 - 4.4	Yes	
Volatile Organic Compounds (VOCs)						
1,1,1,2-Tetrachloroethane	0 /2	0%	7 - 7	-	No	Not detected
1,1,1-Trichloroethane	0 /2	0%	5.5 - 5.5	-	No	Not detected
1,1,2,2-Tetrachloroethane	0 /2	0%	7 - 7	-	No	Not detected
1,1,2-Trichloroethane	0 /2	0%	5.5 - 5.5	-	No	Not detected
1,1,2-Trichlorotrifluoroethane	0 /2	0%	7.7 - 7.7	-	No	Not detected
1,1-Dichloroethane	0 /2	0%	4.1 - 4.1	-	No	Not detected
1,1-Dichloroethene	0 /2	0%	4 - 4	-	No	Not detected
1,2,4-Trichlorobenzene	0 /2	0%	38 - 38	-	No	Not detected
1,2,4-Trimethylbenzene	0 /2	0%	5 - 5	-	No	Not detected
1,2-Dibromoethane	0 /2	0%	7.8 - 7.8	-	No	Not detected
1,2-Dichlorobenzene	0 /2	0%	12 - 12	-	No	Not detected
1,2-Dichloroethane	0 /2	0%	4.1 - 4.1	-	No	Not detected
1,2-Dichloropropane	0 /2	0%	9.4 - 9.4	-	No	Not detected
1,3,5-Trimethylbenzene	0 /2	0%	5 - 5	-	No	Not detected
1,3-Dichlorobenzene	0 /2	0%	12 - 12	-	No	Not detected
1,4-Dichlorobenzene	0 /2	0%	12 - 12	-	No	Not detected
2-Butanone	1 /2	50%	30 - 30	44 - 44	Yes	
2-Hexanone	0 /2	0%	8.3 - 8.3	-	No	Not detected
4-Ethyltoluene	0 /2	0%	5 - 5	-	No	Not detected
4-Methyl-2-pentanone	0 /2	0%	8.3 - 8.3	-	No	Not detected
Acetone	0 /2	0%	24 - 24	-	No	Not detected
Bromodichloromethane	0 /2	0%	6.8 - 6.8	-	No	Not detected
Bromoform	0 /2	0%	10 - 10	-	No	Not detected
Bromomethane	0 /2	0%	16 - 16	-	No	Not detected
Carbon disulfide	0 /2	0%	6.3 - 6.3	-	No	Not detected
Carbon tetrachloride	0 /2	0%	6.4 - 6.4	-	No	Not detected
Chlorobenzene	0 /2	0%	4.7 - 4.7	-	No	Not detected
Chloroethane	0 /2	0%	8 - 8	-	No	Not detected
Chloroform	0 /2	0%	4.9 - 4.9	-	No	Not detected
Chloromethane	0 /2	0%	2.1 - 2.1	-	No	Not detected
cis-1,2-Dichloroethene	0 /2	0%	4 - 4	-	No	Not detected
cis-1,3-Dichloropropene	0 /2	0%	4.6 - 4.6	-	No	Not detected
Dibromochloromethane	0 /2	0%	8.6 - 8.6	-	No	Not detected
Dichlorodifluoromethane	0 /2	0%	5 - 5	-	No	Not detected
Dichlorotetrafluoroethane	0 /2	0%	7.1 - 7.1	-	No	Not detected
Methylene chloride	0 /2	0%	3.5 - 3.5	-	No	Not detected
Styrene	0 /2	0%	4.3 - 4.3	-	No	Not detected
Tetrachloroethene	0 /2	0%	6.9 - 6.9	-	No	Not detected

All concentrations in ug/m3.
AOC 5 includes SG-10R and SG-11R.

Chemical	Detects / Total	% Detects	NonDetects Min - Max	Detects Min - Max	COPC?	Rationale
trans-1,2-Dichloroethene	0 /2	0%	8 - 8	-	No	Not detected
trans-1,3-Dichloropropene	0 /2	0%	4.6 - 4.6	-	No	Not detected
Trichloroethene	0 /2	0%	5.5 - 5.5	-	No	Not detected
Trichlorofluoromethane	1 /2	50%	5.6 - 5.6	40 - 40	Yes	
Vinyl chloride	0 /2	0%	2.6 - 2.6	-	No	Not detected
Polycyclic Aromatic Hydrocarbons (PAHs)						
Naphthalene	0 /2	0%	5.3 - 5.3	-	No	Not detected
Semivolatile Organic Compounds (SVOCs)						
1,2-Dichloro-1,1,2,2-tetraflouroethan	0 /2	0%	7.1 - 7.1	-	No	Not detected
Hexachlorobutadiene	0 /2	0%	54 - 54	-	No	Not detected
Total Petroleum Hydrocarbons (TPH)						
TPH Diesel - aliphatic	0 /2	0%	100 - 100	-	No	Not detected
TPH Diesel - aromatic	0 /2	0%	100 - 100	-	No	Not detected
TPH Gasoline - aliphatic	2 /2	100%	-	380 - 400	Yes	

All concentrations in ug/m3.
AOC 5 includes SG-10R and SG-11R.

Table 9d
March 2016 AOC 6 Chemical of Potential Concern Selection Summary - Deep Soil Gas (15 ft bgs)
Former Orcutt Refinery, Santa Maria, California

Chemical	Detects / Total	% Detects	NonDetects Min - Max	Detects Min - Max	COPC?	Rationale
BTEX						
Benzene	0 /1	0%	3.2 - 3.2	-	No	Not detected
Ethylbenzene	0 /1	0%	4.4 - 4.4	-	No	Not detected
m&p-Xylenes	0 /1	0%	8.8 - 8.8	-	No	Not detected
o-Xylene	0 /1	0%	4.4 - 4.4	-	No	Not detected
Toluene	1 /1	100%	-	8.6 - 8.6	Yes	
Volatile Organic Compounds (VOCs)						
1,1,1,2-Tetrachloroethane	0 /1	0%	7 - 7	-	No	Not detected
1,1,1-Trichloroethane	0 /1	0%	5.5 - 5.5	-	No	Not detected
1,1,2,2-Tetrachloroethane	0 /1	0%	7 - 7	-	No	Not detected
1,1,2-Trichloroethane	0 /1	0%	5.5 - 5.5	-	No	Not detected
1,1,2-Trichlorotrifluoroethane	0 /1	0%	7.7 - 7.7	-	No	Not detected
1,1-Dichloroethane	0 /1	0%	4.1 - 4.1	-	No	Not detected
1,1-Dichloroethene	0 /1	0%	4 - 4	-	No	Not detected
1,2,4-Trichlorobenzene	0 /1	0%	38 - 38	-	No	Not detected
1,2,4-Trimethylbenzene	0 /1	0%	5 - 5	-	No	Not detected
1,2-Dibromoethane	0 /1	0%	7.8 - 7.8	-	No	Not detected
1,2-Dichlorobenzene	0 /1	0%	12 - 12	-	No	Not detected
1,2-Dichloroethane	0 /1	0%	4.1 - 4.1	-	No	Not detected
1,2-Dichloropropane	0 /1	0%	9.4 - 9.4	-	No	Not detected
1,3,5-Trimethylbenzene	0 /1	0%	5 - 5	-	No	Not detected
1,3-Dichlorobenzene	0 /1	0%	12 - 12	-	No	Not detected
1,4-Dichlorobenzene	0 /1	0%	12 - 12	-	No	Not detected
2-Butanone	0 /1	0%	30 - 30	-	No	Not detected
2-Hexanone	0 /1	0%	8.3 - 8.3	-	No	Not detected
4-Ethyltoluene	0 /1	0%	5 - 5	-	No	Not detected
4-Methyl-2-pentanone	0 /1	0%	8.3 - 8.3	-	No	Not detected
Acetone	1 /1	100%	-	24 - 24	Yes	
Bromodichloromethane	0 /1	0%	6.8 - 6.8	-	No	Not detected
Bromoform	0 /1	0%	10 - 10	-	No	Not detected
Bromomethane	0 /1	0%	16 - 16	-	No	Not detected
Carbon disulfide	0 /1	0%	6.3 - 6.3	-	No	Not detected
Carbon tetrachloride	0 /1	0%	6.4 - 6.4	-	No	Not detected
Chlorobenzene	0 /1	0%	4.7 - 4.7	-	No	Not detected
Chloroethane	0 /1	0%	8 - 8	-	No	Not detected
Chloroform	0 /1	0%	4.9 - 4.9	-	No	Not detected
Chloromethane	0 /1	0%	2.1 - 2.1	-	No	Not detected
cis-1,2-Dichloroethene	0 /1	0%	4 - 4	-	No	Not detected
cis-1,3-Dichloropropene	0 /1	0%	4.6 - 4.6	-	No	Not detected
Dibromochloromethane	0 /1	0%	8.6 - 8.6	-	No	Not detected
Dichlorodifluoromethane	0 /1	0%	5 - 5	-	No	Not detected
Dichlorotetrafluoroethane	0 /1	0%	7.1 - 7.1	-	No	Not detected
Methylene chloride	0 /1	0%	3.5 - 3.5	-	No	Not detected
Styrene	0 /1	0%	4.3 - 4.3	-	No	Not detected
Tetrachloroethene	0 /1	0%	6.9 - 6.9	-	No	Not detected

All concentrations in ug/m3.
AOC 6 inlcudes SG-1R.

Chemical	Detects / Total	% Detects	NonDetects Min - Max	Detects Min - Max	COPC?	Rationale
trans-1,2-Dichloroethene	0 /1	0%	8 - 8	-	No	Not detected
trans-1,3-Dichloropropene	0 /1	0%	4.6 - 4.6	-	No	Not detected
Trichloroethene	0 /1	0%	5.5 - 5.5	-	No	Not detected
Trichlorofluoromethane	1 /1	100%	-	15 - 15	Yes	
Vinyl chloride	0 /1	0%	2.6 - 2.6	-	No	Not detected
Polycyclic Aromatic Hydrocarbons (PAHs)						
Naphthalene	0 /1	0%	5.3 - 5.3	-	No	Not detected
Semivolatile Organic Compounds (SVOCs)						
1,2-Dichloro-1,1,2,2-tetraflouroethan	0 /1	0%	7.1 - 7.1	-	No	Not detected
Hexachlorobutadiene	0 /1	0%	54 - 54	-	No	Not detected
Total Petroleum Hydrocarbons (TPH)						
TPH Diesel - aliphatic	1 /1	100%	-	230 - 230	Yes	
TPH Diesel - aromatic	0 /1	0%	100 - 100	-	No	Not detected
TPH Gasoline - aliphatic	1 /1	100%	-	940 - 940	Yes	

All concentrations in ug/m3.
AOC 6 inlcudes SG-1R.

Table 11a

Comparison of Post-remediation Vapor Instrusion-related Risks Estimated from Shallow and Deep Soil Gas

AOC 2 - November 2014

CHEMICAL	AOC 2 - November 2014							
	Shallow Soil Gas (Max) ug/m^3	Commercial Indoor Air ug/m^3	ILCR	HI	Deep Soil Gas (Max) ug/m^3	Commercial Indoor Air ug/m^3	ILCR	HI
BTEX								
Benzene	1.80E+01	6.45E-03	1.37E-08	4.91E-04	ND	NA	NA	NA
Ethylbenzene	7.70E+00	2.46E-03	4.49E-10	2.80E-07	ND	NA	NA	NA
Toluene	9.40E+00	3.34E-03	NC	2.54E-06	ND	NA	NA	NA
m&p-Xylenes	1.80E+01	5.85E-03	NC	1.91E-06	ND	NA	NA	NA
o-Xylene	8.70E+00	3.09E-03	NC	1.01E-06	ND	NA	NA	NA
VOCs								
Acetone	ND	NA	NA	NA	3.20E+01	1.19E-02	NC	8.74E-08
2-Butanone	ND	NA	NA	NA	ND	NA	NA	NA
Carbon disulfide	1.20E+01	4.82E-03	NC	1.38E-06	ND	NA	NA	NA
Chloroform	5.40E+00	2.17E-03	8.42E-10	1.65E-06	ND	NA	NA	NA
Dichlorodifluoromethane	ND	NA	NA	NA	ND	NA	NA	NA
4-Ethyltoluene	ND	NA	NA	NA	ND	NA	NA	NA
4-Methyl-2-pentanone	ND	NA	NA	NA	ND	NA	NA	NA
Tetrachloroethene	ND	NA	NA	NA	1.80E+01	4.32E-03	8.23E-11	2.47E-05
1,1,1-Trichloroethane	ND	NA	NA	NA	ND	NA	NA	NA
Trichloroethene	ND	NA	NA	NA	ND	NA	NA	NA
Trichlorofluoromethane	ND	NA	NA	NA	1.10E+01	3.07E-03	NC	1.00E-06
1,2,4-Trimethylbenzene	6.90E+00	1.87E-03	NC	6.11E-05	ND	NA	NA	NA
1,3,5-Trimethylbenzene	ND	NA	NA	NA	ND	NA	NA	NA
Total Petroleum Hydrocarbons								
TPH Gasoline - aliphatic	7.60E+03	2.97E+00	NC	9.70E-04	6.00E+02	1.86E-01	NC	6.07E-05
TPH Gasoline - aromatic	ND	NA	NA	NA	ND	NA	NA	NA
TPH Diesel - aliphatic	1.80E+03	7.05E-01	NC	5.36E-04	1.00E+02	3.10E-02	NC	2.36E-05
TPH Diesel - aromatic	ND	NA	NA	NA	ND	NA	NA	NA
TOTAL:			**1.50E-08**	**0.0021**			**8.23E-11**	**0.00011**

NA = Not applicable/analyzed

ND = Not detected

NC = No criteria

Table 11b

Comparison of Post-remediation Vapor Instrusion-related Risks Estimated from Shallow and Deep Soil Gas

AOC 3 - November 2014

CHEMICAL	AOC 3 - November 2014							
	Shallow Soil Gas (Max) ug/m^3	Commercial Indoor Air ug/m^3	ILCR	HI	Deep Soil Gas (Max) ug/m^3	Commercial Indoor Air ug/m^3	ILCR	HI
BTEX								
Benzene	2.80E+01	1.00E-02	2.13E-08	7.63E-04	2.50E+03	4.63E-01	9.83E-07	3.53E-02
Ethylbenzene	3.40E+02	1.08E-01	1.98E-08	1.24E-05	1.30E+04	2.10E+00	3.84E-07	2.40E-04
Toluene	8.80E+01	3.13E-02	NC	2.38E-05	8.60E+03	1.58E+00	NC	1.20E-03
m&p-Xylenes	1.60E+03	5.20E-01	NC	1.70E-04	4.80E+04	7.92E+00	NC	2.58E-03
o-Xylene	3.60E+02	1.28E-01	NC	4.17E-05	9.70E+03	1.78E+00	NC	5.81E-04
VOCs								
Acetone	3.10E+01	1.44E-02	NC	1.06E-07	1.00E+04	2.50E+00	NC	1.84E-05
2-Butanone	ND	NA	NA	NA	ND	NA	NA	NA
Carbon disulfide	3.00E+01	1.21E-02	NC	3.44E-06	1.20E+03	2.56E-01	NC	7.30E-05
Chloroform	2.00E+01	8.04E-03	3.12E-09	6.12E-06	7.00E+00	1.49E-03	5.79E-10	1.14E-06
Dichlorodifluoromethane	9.60E+00	2.80E-03	NC	6.39E-06	1.20E+01	1.74E-03	NC	3.98E-06
4-Ethyltoluene	1.50E+02	4.87E-02	NC	1.59E-05	2.10E+03	3.47E-01	NC	1.13E-04
4-Methyl-2-pentanone	ND	NA	NA	NA	ND	NA	NA	NA
Tetrachloroethene	1.40E+01	4.33E-03	1.87E-09	2.83E-05	8.60E+01	1.34E-02	5.79E-09	8.74E-05
1,1,1-Trichloroethane	ND	NA	NA	NA	ND	NA	NA	NA
Trichloroethene	7.10E+00	2.35E-03	7.06E-10	2.69E-04	ND	NA	NA	NA
Trichlorofluoromethane	1.10E+02	3.91E-02	NC	1.27E-05	2.30E+02	4.22E-02	NC	1.38E-05
1,2,4-Trimethylbenzene	3.50E+02	9.50E-02	NC	3.10E-03	3.70E+03	4.95E-01	NC	1.62E-02
1,3,5-Trimethylbenzene	2.30E+02	6.21E-02	NC	4.05E-04	3.00E+03	3.99E-01	NC	2.60E-03
Total Petroleum Hydrocarbons								
TPH Gasoline - aliphatic	1.30E+04	5.09E+00	NC	1.66E-03	6.60E+05	1.36E+02	NC	4.44E-02
TPH Gasoline - aromatic	2.20E+03	8.61E-01	NC	NA	7.70E+04	1.59E+01	NC	NA
TPH Diesel - aliphatic	1.10E+05	4.31E+01	NC	3.28E-02	2.40E+06	4.95E+02	NC	3.77E-01
TPH Diesel - aromatic	2.30E+03	9.00E-01	NC	4.11E-03	3.00E+04	6.19E+00	NC	2.83E-02
TOTAL:			**4.68E-08**	**0.043**			**1.37E-06**	**0.51**

NA = Not applicable/analyzed

ND = Not detected

NC = No criteria

Table 11c

Comparison of Post-remediation Vapor Instrusion-related Risks Estimated from Shallow and Deep Soil Gas

AOC 5 - November 2014

CHEMICAL	AOC 5 - November 2014							
	Shallow Soil Gas (Max) ug/m^3	Commercial Indoor Air ug/m^3	ILCR	HI	Deep Soil Gas (Max) ug/m^3	Commercial Indoor Air ug/m^3	ILCR	HI
BTEX								
Benzene	ND	NA	NA	NA	ND	NA	NA	NA
Ethylbenzene	ND	NA	NA	NA	ND	NA	NA	NA
Toluene	ND	NA	NA	NA	ND	NA	NA	NA
m&p-Xylenes	ND	NA	NA	NA	ND	NA	NA	NA
o-Xylene	ND	NA	NA	NA	ND	NA	NA	NA
VOCs								
Acetone	ND	NA	NA	NA	2.60E+01	9.64E-03	NC	7.10E-08
2-Butanone	ND	NA	NA	NA	ND	NA	NA	NA
Carbon disulfide	ND	NA	NA	NA	ND	NA	NA	NA
Chloroform	8.70E+00	3.50E-03	1.36E-09	2.66E-06	ND	NA	NA	NA
Dichlorodifluoromethane	ND	NA	NA	NA	ND	NA	NA	NA
4-Ethyltoluene	ND	NA	NA	NA	ND	NA	NA	NA
4-Methyl-2-pentanone	ND	NA	NA	NA	ND	NA	NA	NA
Tetrachloroethene	ND	NA	NA	NA	ND	NA	NA	NA
1,1,1-Trichloroethane	ND	NA	NA	NA	ND	NA	NA	NA
Trichloroethene	ND	NA	NA	NA	ND	NA	NA	NA
Trichlorofluoromethane	1.10E+01	3.91E-03	NC	1.27E-06	3.30E+01	9.20E-03	NC	3.00E-06
1,2,4-Trimethylbenzene	ND	NA	NA	NA	ND	NA	NA	NA
1,3,5-Trimethylbenzene	ND	NA	NA	NA	ND	NA	NA	NA
Total Petroleum Hydrocarbons								
TPH Gasoline - aliphatic	3.00E+02	1.17E-01	NC	3.83E-05	4.00E+02	1.24E-01	NC	4.04E-05
TPH Gasoline - aromatic	ND	NA	NA	NA	ND	NA	NA	NA
TPH Diesel - aliphatic	ND	NA	NA	NA	ND	NA	NA	NA
TPH Diesel - aromatic	ND	NA	NA	NA	ND	NA	NA	NA
TOTAL:			**1.36E-09**	**0.000042**			**NC**	**0.000044**

NA = Not applicable/analyzed

ND = Not detected

NC = No criteria

Table 11d

Comparison of Post-remediation Vapor Instrusion-related Risks Estimated from Shallow and Deep Soil Gas

AOC 6 - November 2014

CHEMICAL	AOC 6 - November 2014							
	Shallow Soil Gas (Max) ug/m^3	Commercial Indoor Air ug/m^3	ILCR	HI	Deep Soil Gas (Max) ug/m^3	Commercial Indoor Air ug/m^3	ILCR	HI
BTEX								
Benzene	ND	NA	NA	NA	ND	NA	NA	NA
Ethylbenzene	ND	NA	NA	NA	ND	NA	NA	NA
Toluene	ND	NA	NA	NA	ND	NA	NA	NA
m&p-Xylenes	ND	NA	NA	NA	ND	NA	NA	NA
o-Xylene	ND	NA	NA	NA	ND	NA	NA	NA
VOCs								
Acetone	ND	NA	NA	NA	ND	NA	NA	NA
2-Butanone	ND	NA	NA	NA	ND	NA	NA	NA
Carbon disulfide	ND	NA	NA	NA	ND	NA	NA	NA
Chloroform	5.00E+00	2.01E-03	7.80E-10	1.53E-06	ND	NA	NA	NA
Dichlorodifluoromethane	ND	NA	NA	NA	ND	NA	NA	NA
4-Ethyltoluene	ND	NA	NA	NA	ND	NA	NA	NA
4-Methyl-2-pentanone	ND	NA	NA	NA	ND	NA	NA	NA
Tetrachloroethene	ND	NA	NA	NA	ND	NA	NA	NA
1,1,1-Trichloroethane	ND	NA	NA	NA	ND	NA	NA	NA
Trichloroethene	ND	NA	NA	NA	ND	NA	NA	NA
Trichlorofluoromethane	7.70E+00	2.74E-03	NC	8.92E-07	ND	NA	NA	NA
1,2,4-Trimethylbenzene	ND	NA	NA	NA	ND	NA	NA	NA
1,3,5-Trimethylbenzene	ND	NA	NA	NA	ND	NA	NA	NA
Total Petroleum Hydrocarbons								
TPH Gasoline - aliphatic	3.00E+02	1.17E-01	NC	3.83E-05	9.00E+02	2.79E-01	NC	9.10E-05
TPH Gasoline - aromatic	ND	NA	NA	NA	ND	NA	NA	NA
TPH Diesel - aliphatic	1.00E+02	3.91E-02	NC	2.98E-05	ND	NA	NA	NA
TPH Diesel - aromatic	ND	NA	NA	NA	ND	NA	NA	NA
TOTAL:			**7.80E-10**	**0.000071**			**NC**	**0.000091**

NA = Not applicable/analyzed

ND = Not detected

NC = No criteria

Table 11e

Comparison of Post-remediation Vapor Instrusion-related Risks Estimated from Shallow and Deep Soil Gas

AOC 2 - March 2016

CHEMICAL	AOC 2 - March 2016							
	Shallow Soil Gas (Max) ug/m^3	Commercial Indoor Air ug/m^3	ILCR	HI	Deep Soil Gas (Max) ug/m^3	Commercial Indoor Air ug/m^3	ILCR	HI
BTEX								
Benzene	ND	NA	NA	NA	4.40E+00	1.13E-03	2.39E-09	8.58E-05
Ethylbenzene	ND	NA	NA	NA	5.00E+00	1.03E-03	1.88E-10	1.18E-07
Toluene	5.50E+00	2.02E-03	NC	1.53E-06	5.70E+00	1.30E-03	NC	9.93E-07
m&p-Xylenes	ND	NA	NA	NA	2.60E+01	5.34E-03	NC	1.74E-06
o-Xylene	ND	NA	NA	NA	1.20E+01	2.49E-03	NC	8.11E-07
VOCs								
Acetone	ND	NA	NA	NA	4.70E+01	1.41E-02	NC	1.04E-07
2-Butanone	ND	NA	NA	NA	3.80E+01	1.01E-02	NC	4.61E-07
Carbon disulfide	ND	NA	NA	NA	ND	NA	NA	NA
Chloroform	ND	NA	NA	NA	ND	NA	NA	NA
Dichlorodifluoromethane	ND	NA	NA	NA	5.20E+00	1.17E-03	NC	2.67E-06
4-Ethyltoluene	ND	NA	NA	NA	ND	NA	NA	NA
4-Methyl-2-pentanone	ND	NA	NA	NA	ND	NA	NA	NA
Tetrachloroethene	ND	NA	NA	NA	ND	NA	NA	NA
1,1,1-Trichloroethane	ND	NA	NA	NA	ND	NA	NA	NA
Trichloroethene	ND	NA	NA	NA	ND	NA	NA	NA
Trichlorofluoromethane	ND	NA	NA	NA	1.50E+01	2.97E-03	NC	9.69E-07
1,2,4-Trimethylbenzene	ND	NA	NA	NA	2.00E+01	3.72E-03	NC	1.21E-04
1,3,5-Trimethylbenzene	ND	NA	NA	NA	8.70E+00	1.61E-03	NC	1.05E-05
Total Petroleum Hydrocarbons								
TPH Gasoline - aliphatic	1.80E+03	7.82E-01	NC	2.55E-04	3.70E+02	1.03E-01	NC	3.37E-05
TPH Gasoline - aromatic	NA	NA	NA	NA	NA	NA	NA	NA
TPH Diesel - aliphatic	7.60E+02	3.30E-01	NC	2.51E-04	2.20E+02	6.14E-02	NC	4.68E-05
TPH Diesel - aromatic	ND	NA	NA	NA	1.30E+02	3.63E-02	NC	1.66E-04
TOTAL:			**NC**	**0.00051**			**2.58E-09**	**0.00047**

NA = Not applicable/analyzed

ND = Not detected

NC = No criteria

Table 11f

Comparison of Post-remediation Vapor Instrusion-related Risks Estimated from Shallow and Deep Soil Gas

AOC 3 - March 2016

CHEMICAL	AOC 3 - March 2016							
	Shallow Soil Gas (Max) ug/m^3	Commercial Indoor Air ug/m^3	ILCR	HI	Deep Soil Gas (Max) ug/m^3	Commercial Indoor Air ug/m^3	ILCR	HI
BTEX								
Benzene	8.20E+00	3.31E-03	7.03E-09	2.52E-04	1.70E+05	4.36E+01	9.24E-05	3.31E+00
Ethylbenzene	5.80E+00	1.94E-03	3.55E-10	2.22E-07	6.20E+04	1.28E+01	2.34E-06	1.46E-03
Toluene	ND	NA	NA	NA	2.80E+04	6.41E+00	NC	4.88E-03
m&p-Xylenes	1.30E+01	4.34E-03	NC	1.42E-06	1.40E+05	2.88E+01	NC	9.38E-03
o-Xylene	ND	NA	NA	NA	2.10E+04	4.35E+00	NC	1.42E-03
VOCs								
Acetone	3.10E+01	1.46E-02	NC	1.07E-07	6.60E+01	1.98E-02	NC	1.46E-07
2-Butanone	ND	NA	NA	NA	3.40E+01	9.03E-03	NC	4.12E-07
Carbon disulfide	ND	NA	NA	NA	7.10E+02	2.08E-01	NC	5.94E-05
Chloroform	ND	NA	NA	NA	ND	NA	NA	NA
Dichlorodifluoromethane	6.30E+00	2.27E-03	NC	5.19E-06	1.10E+01	2.47E-03	NC	5.64E-06
4-Ethyltoluene	ND	NA	NA	NA	4.00E+03	8.22E-01	NC	2.68E-04
4-Methyl-2-pentanone	ND	NA	NA	NA	4.10E+03	8.67E-01	NC	6.60E-05
Tetrachloroethene	ND	NA	NA	NA	8.20E+02	1.30E-01	5.62E-08	8.50E-04
1,1,1-Trichloroethane	ND	NA	NA	NA	1.00E+01	1.97E-03	NC	4.49E-07
Trichloroethene	ND	NA	NA	NA	ND	NA	NA	NA
Trichlorofluoromethane	1.30E+02	4.20E-02	NC	1.37E-05	3.10E+02	6.14E-02	NC	2.00E-05
1,2,4-Trimethylbenzene	1.10E+01	3.37E-03	NC	1.10E-04	7.50E+03	1.40E+00	NC	4.55E-02
1,3,5-Trimethylbenzene	ND	NA	NA	NA	5.70E+03	1.05E+00	NC	6.88E-03
Total Petroleum Hydrocarbons								
TPH Gasoline - aliphatic	7.00E+02	3.04E-01	NC	9.91E-05	8.90E+06	2.49E+03	NC	8.11E-01
TPH Gasoline - aromatic	NA	NA	NA	NA	NA	NA	NA	NA
TPH Diesel - aliphatic	4.90E+02	2.13E-01	NC	1.62E-04	1.60E+06	4.47E+02	NC	3.40E-01
TPH Diesel - aromatic	ND	NA	NA	NA	ND	NA	NA	NA
TOTAL:			**7.38E-09**	**0.0006**			**9.48E-05**	**4.54**

NA = Not applicable/analyzed

ND = Not detected

NC = No criteria

Table 11g

Comparison of Post-remediation Vapor Instrusion-related Risks Estimated from Shallow and Deep Soil Gas

AOC 5 - March 2016

CHEMICAL	AOC 5 - March 2016							
	Shallow Soil Gas (Max) ug/m^3	Commercial Indoor Air ug/m^3	ILCR	HI	Deep Soil Gas (Max) ug/m^3	Commercial Indoor Air ug/m^3	ILCR	HI
BTEX								
Benzene	ND	NA	NA	NA	3.30E+00	8.45E-04	1.79E-09	6.43E-05
Ethylbenzene	ND	NA	NA	NA	ND	NA	NA	NA
Toluene	ND	NA	NA	NA	4.40E+00	1.01E-03	NC	7.66E-07
m&p-Xylenes	ND	NA	NA	NA	ND	NA	NA	NA
o-Xylene	ND	NA	NA	NA	ND	NA	NA	NA
VOCs								
Acetone	6.60E+01	3.11E-02	NC	2.29E-07	ND	NA	NA	NA
2-Butanone	ND	NA	NA	NA	4.40E+01	1.17E-02	NC	5.34E-07
Carbon disulfide	ND	NA	NA	NA	ND	NA	NA	NA
Chloroform	ND	NA	NA	NA	ND	NA	NA	NA
Dichlorodifluoromethane	ND	NA	NA	NA	ND	NA	NA	NA
4-Ethyltoluene	ND	NA	NA	NA	ND	NA	NA	NA
4-Methyl-2-pentanone	ND	NA	NA	NA	ND	NA	NA	NA
Tetrachloroethene	ND	NA	NA	NA	ND	NA	NA	NA
1,1,1-Trichloroethane	ND	NA	NA	NA	ND	NA	NA	NA
Trichloroethene	ND	NA	NA	NA	ND	NA	NA	NA
Trichlorofluoromethane	1.70E+01	5.50E-03	NC	1.79E-06	4.00E+01	7.92E-03	NC	2.58E-06
1,2,4-Trimethylbenzene	5.60E+00	1.71E-03	NC	5.59E-05	ND	NA	NA	NA
1,3,5-Trimethylbenzene	ND	NA	NA	NA	ND	NA	NA	NA
Total Petroleum Hydrocarbons								
TPH Gasoline - aliphatic	4.00E+02	1.74E-01	NC	5.67E-05	4.00E+02	1.12E-01	NC	3.64E-05
TPH Gasoline - aromatic	NA	NA	NA	NA	NA	NA	NA	NA
TPH Diesel - aliphatic	2.80E+02	1.22E-01	NC	9.25E-05	ND	NA	NA	NA
TPH Diesel - aromatic	ND	NA	NA	NA	ND	NA	NA	NA
TOTAL:			**NC**	**0.00021**			**1.79E-09**	**0.00010**

NA = Not applicable/analyzed

ND = Not detected

NC = No criteria

Table 11h

Comparison of Post-remediation Vapor Instrusion-related Risks Estimated from Shallow and Deep Soil Gas

AOC 6 - March 2016

CHEMICAL	AOC 6 - March 2016							
	Shallow Soil Gas (Max) ug/m^3	Commercial Indoor Air ug/m^3	ILCR	HI	Deep Soil Gas (Max) ug/m^3	Commercial Indoor Air ug/m^3	ILCR	HI
BTEX								
Benzene	3.60E+00	1.45E-03	3.09E-09	1.11E-04	ND	NA	NA	NA
Ethylbenzene	ND	NA	NA	NA	ND	NA	NA	NA
Toluene	4.00E+00	1.47E-03	NC	1.12E-06	8.60E+00	1.97E-03	NC	1.50E-06
m&p-Xylenes	ND	NA	NA	NA	ND	NA	NA	NA
o-Xylene	ND	NA	NA	NA	ND	NA	NA	NA
VOCs								
Acetone	ND	NA	NA	NA	2.40E+01	7.21E-03	NC	5.31E-08
2-Butanone	ND	NA	NA	NA	ND	NA	NA	NA
Carbon disulfide	ND	NA	NA	NA	ND	NA	NA	NA
Chloroform	ND	NA	NA	NA	ND	NA	NA	NA
Dichlorodifluoromethane	ND	NA	NA	NA	ND	NA	NA	NA
4-Ethyltoluene	ND	NA	NA	NA	ND	NA	NA	NA
4-Methyl-2-pentanone	ND	NA	NA	NA	ND	NA	NA	NA
Tetrachloroethene	ND	NA	NA	NA	ND	NA	NA	NA
1,1,1-Trichloroethane	ND	NA	NA	NA	ND	NA	NA	NA
Trichloroethene	ND	NA	NA	NA	ND	NA	NA	NA
Trichlorofluoromethane	1.60E+01	5.17E-03	NC	1.69E-06	1.50E+01	2.97E-03	NC	9.69E-07
1,2,4-Trimethylbenzene	ND	NA	NA	NA	ND	NA	NA	NA
1,3,5-Trimethylbenzene	ND	NA	NA	NA	ND	NA	NA	NA
Total Petroleum Hydrocarbons								
TPH Gasoline - aliphatic	6.80E+02	2.95E-01	NC	9.63E-05	9.40E+02	2.63E-01	NC	8.56E-05
TPH Gasoline - aromatic	NA	NA	NA	NA	NA	NA	NA	NA
TPH Diesel - aliphatic	ND	NA	NA	NA	2.30E+02	6.42E-02	NC	4.89E-05
TPH Diesel - aromatic	ND	NA	NA	NA	ND	NA	NA	NA
TOTAL:			**3.09E-09**	**0.00021**			**NC**	**1.37E-04**

NA = Not applicable/analyzed

ND = Not detected

NC = No criteria

BORING LOGS

Project: 1550 West Stowell Road, Santa Maria, CA		Project No.: 10OT.05810.001	Log of Boring/Trench/Monitoring Well: T-1
Trench Location: Northern Large Sump		Drawn By: L. GUERTIN	
Subcontractor and Equipment: Diamond Resources, Inc./Backhoe		Logged By: Kirk Henning	
Sampling Method: Backhoe w/ 3' Bucket	Monitoring Device:		Comments:
Start Date/Time: 8/21/02	Finish Date/Time: 8/21/02		
First Water (bgs): NOT ENCOUNTERED	Stabilized Water Level (bgs):		

Surface Elevation: NA Top Casing Elevation: NA

Sample Intervals	Sample Collected Depth (Feet)	PID (ppm)	Depth (Feet)	Recovery	USCS Symbol	LITHOLOGIC DESCRIPTION (color, grain size, consistency, moisture, other)	Boring Abandonment/ Well Construction Details
			0–4		ML	BROWN SANDY SILT, Moist, No Hydrocarbon Odor	
			4–7		SM	BLACK SILTY SAND, Moist, Strong Hydrocarbon Odor	
			7			Obstruction @ 7'	

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

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U 02129

SECOR

Reviewed By: _____ Date: _____

Revised By: _____ Date: _____

Project: 1550 West Stowell Road, Santa Maria, CA		Project No.: 10OT.05810.001	Log of Boring/Trench/Monitoring Well: T-2
Boring Location: Northern Large Sump, NW Corner		Drawn By: L. GUERTIN	
Subcontractor and Equipment: Diamond Resources, Inc./Backhoe		Logged By: Kirk Henning	
Sampling Method: Backhoe w/ 3' Bucket	Monitoring Device:		Comments:
Start Date/Time: 8/21/02	Finish Date/Time: 8/21/02		
First Water (bgs): NOT ENCOUNTERED	Stabilized Water Level (bgs):		

Surface Elevation: NA Top Casing Elevation: NA

Sample Intervals	Sample Collected Depth (Feet)	PID (ppm)	Depth (Feet)	Recovery	USCS Symbol	LITHOLOGIC DESCRIPTION (color, grain size, consistency, moisture, other)	Boring Abandonment/ Well Construction Details
			0–4		ML	BROWN/DARK BROWN SANDY SILT, moist No hydrocarbon odor	
			4–11		SM	BLACK SILTY SAND, moist Strong hydrocarbon odor	
			12–13		SP	LIGHT YELLOWISH BROWN SAND, Very moist, Fine grained No hydrocarbon odor	
			14			Terminated at 14'	

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U 02130

SECOR

Reviewed By: _____ Date: _____

Revised By: _____ Date: _____

Project: 1550 West Stowell Road, Santa Maria, CA		Project No.: 10OT.05810.001	Log of Boring/Trench/Monitoring Well: T-3
Boring Location: Southern Large Sump		Drawn By: L. GUERTIN	
Subcontractor and Equipment: Diamond Resources, Inc./Backhoe		Logged By: Kirk Henning	
Sampling Method: Backhoe w/ 3' Bucket	Monitoring Device:		Comments:
Start Date/Time: 8/21/02	Finish Date/Time: 8/21/02		
First Water (bgs): NOT ENCOUNTERED	Stabilized Water Level (bgs):		

Surface Elevation: NA Top Casing Elevation: NA

Sample Intervals	Sample Collected Depth (Feet)	PID (ppm)	Depth (Feet)	Recovery	USCS Symbol	LITHOLOGIC DESCRIPTION (color, grain size, consistency, moisture, other)	Boring Abandonment/ Well Construction Details
			0		ML	BROWN SANDY SILT Slighty Moist, No hydrocarbon odor	
			3		SM	DARK GRAY/BLACK OILY SILTY SAND Very Moist, Strong hydrocarbon odor Large concrete pieces, pipes, and debris	
			14			Terminated @ 14'	

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U 02131

SECOR

Reviewed By: _____ Date: _____

Revised By: _____ Date: _____

Project: , 1550 West Stowell Road, Santa Maria, CA		Project No.: 10OT.05810.001	Log of Boring/Trench/Monitoring Well: T-4
Boring Location: Small Sump		Drawn By: L. GUERTIN	
Subcontractor and Equipment: Diamond Resources, Inc./Backhoe		Logged By: Kirk Henning	
Sampling Method: Backhoe w/ 3' Bucket	Monitoring Device:		Comments:
Start Date/Time: 8/21/02	Finish Date/Time: 8/21/02		
First Water (bgs): NOT ENCOUNTERED	Stabilized Water Level (bgs):		

Surface Elevation: NA Top Casing Elevation: NA

Sample Intervals	Sample Collected Depth (Feet)	PID (ppm)	Depth (Feet)	Recovery	USCS Symbol	LITHOLOGIC DESCRIPTION (color, grain size, consistency, moisture, other)	Boring Abandonment/ Well Construction Details
			0		ML	BROWN SANDY SILT, Dry, No hydrocarbon odor	
			1				
			2		SM	DARK GRAY SILTY SAND, Moist, Strong hydrocarbon odor	
			3		ML	BROWN SANDY SILT Dry, No hydrocarbon odor	
			4			Terminated @ 4'	
			5				
			6				
			7				
			8				
			9				
			10				
			11				
			12				
			13				
			14				
			15				

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U 02132

SECOR

Reviewed By: _____ Date: _____

Revised By: _____ Date: _____

Project: 1550 West Stowell Road, Santa Maria, CA	Project No.: 10OT.05810.001	Log of Boring/Trench/Monitoring Well: T-5
Boring Location: Small Sump	Drawn By: L. GUERTIN	
Subcontractor and Equipment: Diamond Resources, Inc./Backhoe	Logged By: Kirk Henning	
Sampling Method: Backhoe w/ 3' Bucket	Monitoring Device:	Comments:
Start Date/Time: 8/21/02	Finish Date/Time: 8/21/02	
First Water (bgs): NOT ENCOUNTERED	Stabilized Water Level (bgs):	

Surface Elevation: NA Top Casing Elevation: NA

Sample Intervals	Sample Collected Depth (Feet)	PID (ppm)	Depth (Feet)	Recovery	USCS Symbol	LITHOLOGIC DESCRIPTION (color, grain size, consistency, moisture, other)	Boring Abandonment/ Well Construction Details
			0		ML	BROWN SANDY SILT, Dry, No hydrocarbon odor	
			3		SM	DARK GRAY SILTY SAND, Moist, Strong hydrocarbon odor	
			6		SM	YELLOWISH BROWN SLITY SAND Slighty Moist, No hydrocarbon odor	
			7			Terminated @ 7'	

U 02133

SECOR

Reviewed By: _____ Date: _____

Revised By: _____ Date: _____

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Project: 1550 West Stowell Road, Santa Maria, CA		Project No.: 10OT.05810.001	Log of Boring/Trench/Monitoring Well: T-6
Boring Location: Small Sump		Drawn By: L. GUERTIN	
Subcontractor and Equipment: Diamond Resources, Inc./Backhoe		Logged By: Kirk Henning	
Sampling Method: Backhoe w/ 3' Bucket	Monitoring Device:		Comments:
Start Date/Time: 8/21/02	Finish Date/Time: 8/21/02		
First Water (bgs): NOT ENCOUNTERED	Stabilized Water Level (bgs):		

Surface Elevation: NA Top Casing Elevation: NA

Sample Intervals	Sample Collected Depth (Feet)	PID (ppm)	Depth (Feet)	Recovery	USCS Symbol	LITHOLOGIC DESCRIPTION (color, grain size, consistency, moisture, other)	Boring Abandonment/ Well Construction Details
			0–2		ML	BROWN SANDY SILT, Dry, No hydrocarbon odor	
			2–3			FREE PRODUCT	
			3–7		SM	DARK GRAY SILTY SAND Fine Grained, Slighty Moist, Strong hydrocarbon odor	
			7–8		SP	LIGHT YELLOWISH BROWN SAND Moist, No hydrocarbon odor	
			8			Terminated @ 8'	

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U 02134

SECOR

Reviewed By: _____ Date: _____

Revised By: _____ Date: _____

Project: 1550 West Stowell Road, Santa Maria, CA		Project No.: 10OT.05810.001	Log of Boring/Trench/Monitoring Well: T-7
Boring Location: Former Production Facility		Drawn By: L. GUERTIN	
Subcontractor and Equipment: Diamond Resources, Inc./Backhoe		Logged By: Kirk Henning	
Sampling Method: Backhoe w/ 3' Bucket	Monitoring Device:		Comments:
Start Date/Time: 8/21/02	Finish Date/Time: 8/21/02		
First Water (bgs): NOT ENCOUNTERED	Stabilized Water Level (bgs):		

Surface Elevation: NA Top Casing Elevation: NA

Sample Intervals	Sample Collected Depth (Feet)	PID (ppm)	Depth (Feet)	Recovery	USCS Symbol	LITHOLOGIC DESCRIPTION (color, grain size, consistency, moisture, other)	Boring Abandonment/ Well Construction Details
			0		ML	BROWN SANDY SILT, Dry, No hydrocarbon odor	
			1			Old Road Section?	
					SP	YELLOWISH BROWN SAND Fine Grained, Slighty Moist No hydrocarbon odor	
			6			Terminated @ 6'	
			15				

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U 02135

SECOR

Reviewed By: _____ Date: _____

Revised By: _____ Date: _____

Project: 1550 West Stowell Road, Santa Maria, CA		Project No.: 10OT.05810.001	Log of Boring/Trench/Monitoring Well: T-8
Boring Location: Former Storage Tanks		Drawn By: L. GUERTIN	
Subcontractor and Equipment: Diamond Resources, Inc./Backhoe		Logged By: Kirk Henning	
Sampling Method: Backhoe w/ 3' Bucket	Monitoring Device:		Comments:
Start Date/Time: 8/21/02	Finish Date/Time: 8/21/02		
First Water (bgs): NOT ENCOUNTERED	Stabilized Water Level (bgs):		

Surface Elevation: NA Top Casing Elevation: NA

Sample Intervals	Sample Collected Depth (Feet)	PID (ppm)	Depth (Feet)	Recovery	USCS Symbol	LITHOLOGIC DESCRIPTION (color, grain size, consistency, moisture, other)	Boring Abandonment/ Well Construction Details
			0		ML	BROWN SANDY SILT, Dry, No hydrocarbon odor	
			1		SP	YELLOWISH BROWN SAND Fine Grained, Slighty Moist No hydrocarbon odor	
			7			Terminated @ 7'	

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U 02136

SECOR

Reviewed By: _____ Date: _____

Revised By: _____ Date: _____

Project: 1550 West Stowell Road, Santa Maria, CA		Project No.: 10OT.05810.001	Log of Boring/Trench/Monitoring Well: T-9
Boring Location: Former Storage Tanks		Drawn By: L. GUERTIN	
Subcontractor and Equipment: Diamond Resources, Inc./Backhoe		Logged By: Kirk Henning	
Sampling Method: Backhoe w/ 3' Bucket	Monitoring Device:		Comments:
Start Date/Time: 8/21/02	Finish Date/Time: 8/21/02		
First Water (bgs): NOT ENCOUNTERED	Stabilized Water Level (bgs):		

Surface Elevation: NA Top Casing Elevation: NA

Sample Intervals	Sample Collected Depth (Feet)	PID (ppm)	Depth (Feet)	Recovery	USCS Symbol	LITHOLOGIC DESCRIPTION (color, grain size, consistency, moisture, other)	Boring Abandonment/ Well Construction Details
			0		ML	BROWN SANDY SILT, Dry, No hydrocarbon odor	
			1		SP	YELLOWISH BROWN SAND Fine Grained, Slighty Moist No hydrocarbon odor	
			2				
			3				
			4				
			5				
			6			Terminated @ 6'	
			7				
			8				
			9				
			10				
			11				
			12				
			13				
			14				
			15				

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U 02137

SECOR

Reviewed By: _____ Date: _____

Revised By: _____ Date: _____

Rincon Consultants

LOG OF BORING 1550-SB1

1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-13940
Unocal PO# CC603-Q68

Date Completed : 9/9/03
Location : NW corner of property, location of former tank farm
GPS Location (N,W) : 34.9382, 120.46451
Method : Geoprobe
Drilled By : OEC
Logged By : J. Inch

Depth in Feet	Samples	USCS	GRAPHIC	DESCRIPTION	PID
0				SILTY SAND, black, dense, like asphalt, dry, strong odor	
5		SM		SILTY SAND, well graded sands, black, very strong petroleum odor	
10				black mottled with brown silty sand, dense, dry, strong odor	412
15		ML		SANDY SILT, very fine grained, poorly graded, black, very dense, strong odor	416.2
20				SILT, black, very dense, dry	
		SW		SAND, well graded, grey, dense, slightly moist, strong odor	84.7
25		SM		SANDY SILT, coarse, brown, dense, dry, no odor	17.4
30		SP		SAND, poorly graded, coarse, yellow, dense	9.5
				SILTY SAND, Poorly graded, wet, slight odor	
35				yellowish orange, damp	
				light brown, slight odor	3.2
40				soft, slight odor	
		ML			1.2
45					
50					
55				medium brown, saturated, slight sulfurous odor	0.1
60					

Rincon Consultants

LOG OF BORING 1550-SB2

1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-14940
Unocal PO# CC603-Q68

Date Completed : 9/9/03
GPS Location (N,W) : 34.93821, 120.46433
Location : NW corner of property, in location of former tank farm
Method : Geoprobe
Drilled By : OEC
Logged By : J. Inch

Depth in Feet	Samples	USCS	GRAPHIC	DESCRIPTION	PID
0		SM		SILTY SAND, light brown, loose, dry, no odor	
5		SP		SAND, poorly graded, loose, dry, no odor	0.5
		CL		SILTY CLAY, brown, stiff, dry, no odor	
10		SM		SILTY SAND, light brown, soft, moist, no odor	1.1
15		SW		SAND, well graded, fine to coarse grained, light brown, loose, damp, no odor	0.1
		SM		SILTY SAND, light brown, loose, slightly moist, no odor	0.4
20					
25					

Rincon Consultants

LOG OF BORING 1550-SB3

1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-13940
Unocal PO# CC603-Q68

Date Completed : 9/9/03
Location : West of the central portion of the eastern chain link fence
GPS Location (N,W) : 34.93765, 120.46392
Method : Geoprobe
Drilled By : OEC
Logged By : J. Inch

Depth in Feet	Samples	USCS	GRAPHIC	DESCRIPTION	PID
0		SM		SILTY SAND, asphalt chips, brown, no odor	
5				light brown, loose, dry	0.2
10		ML		CLAYEY SILT, light brown, moist, no odor	6.3
15		SM		SILTY SAND, light brown	
20				dark brown, coarse sand, moist, no odor	7.1
25		SP		SAND, poorly graded, fine to medium grained, grey, strong gasoline odor	29
30				coarse grained, well graded, loose, damp	619
35				becomes more sandy, medium grained, poorly graded, grey, moist	487
40		SM		poorly graded, dense, grey, moist, strong gasoline odor	
45				loose, dry	
50		SP		SILTY SAND, dense, black with yellowish-red mottling, saturated, petroleum odor,	280
55				SAND, Poorly Graded, loose, moist, slight odor	2.2
60					

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LOG OF BORING 1550-SB4

(Page 1 of 1)

1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-13940
Unocal PO# CC603-Q68

Date Completed : 9/9/03
Location : Location of former tank farm
Method : Geoprobe
Drilled By : OEC
Logged By : J. Inch

GPS Location (N,W) : 34.93699, 120.46402

Depth in Feet	Samples	USCS	GRAPHIC	DESCRIPTION	PID
0		SM		asphalt like soil, black, dense, strong odor	
5				SILTY SAND, light brown, loose, dry, no odor	2.1
		ML		SILT, very fine, light brown, loose, dry, no odor	
				SILTY SAND, dark stained soil, strong odor	115
10		SP		SAND, Poorly Graded, medium grained, orange-red, damp, no odor	
		CH		pieces of gravel, gasoline odor	
				CLAY, highly plastic, stiff, moist. slight odor	210
15		SW		SAND, Poorly Graded, grey, loose, damp, gasoline odor	
					165
20				reddish sand some gravel in sand	292
25		SM		SILTY SAND, light brown, loose, moist, slight odor	
					537
30				grey in color, loose, damp, strong odor	
35					
40				more damp, very strong odor sands become more coarse, some gravel	1,812
45					
50		SW		SAND, well graded, yellowish brown, dense, dry, slight odor	120
55					
60				SAND, poorly graded, light brown, medium grained, dense, slightly moist, no odor	2.1
65					
70					

Rincon Consultants

LOG OF BORING 1550-SB5

1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-13940
Unocal PO# CC603-Q68

Date Completed : 9/10/03
Location : Former location of tank farm in SW corner of the property
GPS Location (N,W) : 34.93661, 120.46391
Method : Geoprobe
Drilled By : OEC
Logged By : J. Inch

Depth in Feet	Samples	USCS	GRAPHIC	DESCRIPTION	PID
0–5		SM		SILTY SAND, light brown, loose, dry, no odor	
5–10		SP		SAND, poorly graded, medium grained, grey to brownish-red, damp, no odor	0.3
10–13		SM		SILTY SAND, grey-brown, loose, dry, no odor	0.2
13–15		CL		SILTY CLAY, very dense, highly plastic, moist SANDY CLAY, reddish-brown, highly plastic, soft, moist, no odor	0.2
15–19		SP		SAND, poorly graded, medium grained, damp, no odor	
19–20		SW		SAND, well graded, fine to medium with 25% coarse sand	2.4

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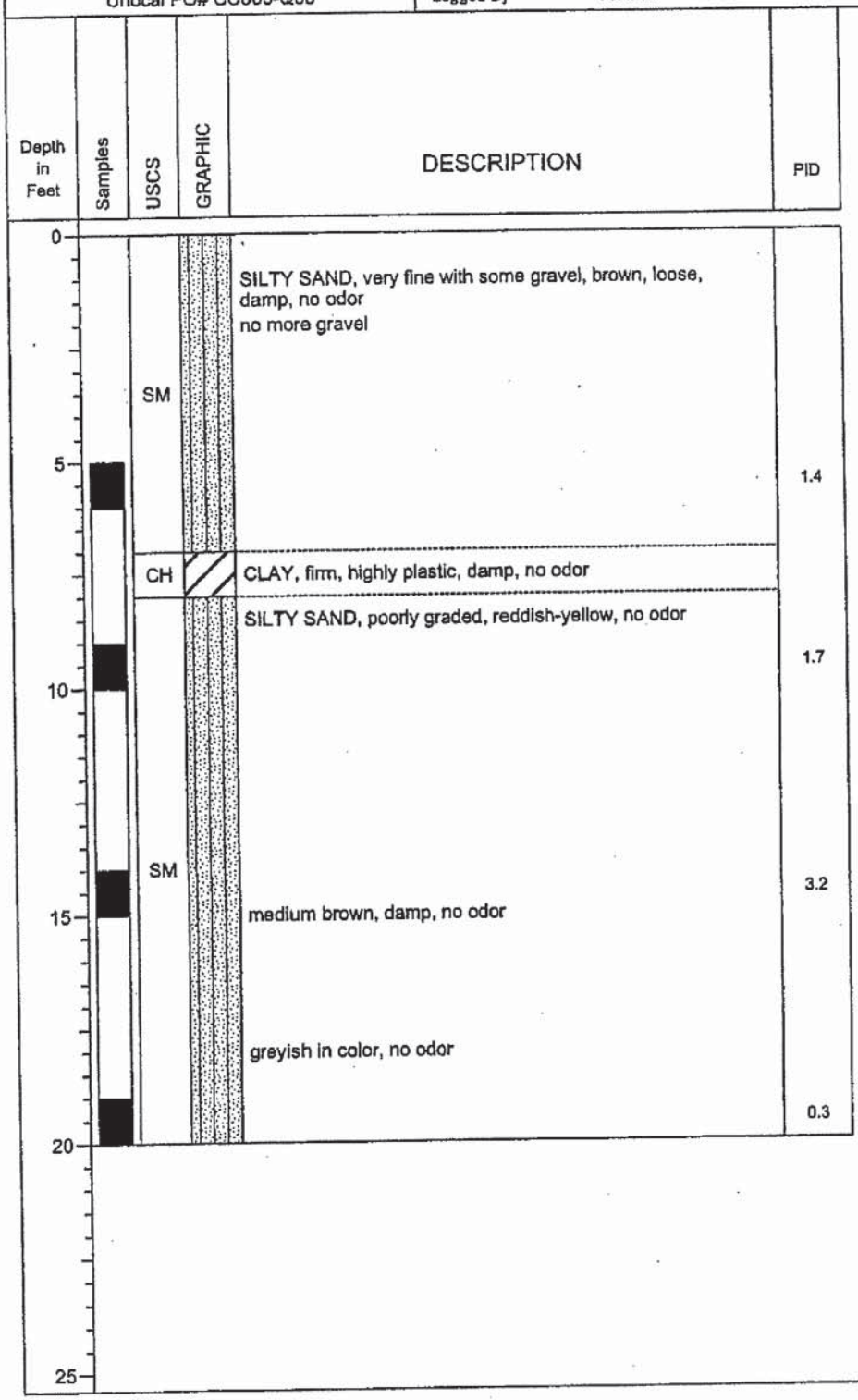
LOG OF BORING 1550-SB6

(Page 1 of 1)

1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-13940
Unocal PO# CC603-Q68

Date Completed : 9/10/03
Location : In the location of a former tank farm
Method : Geoprobe
Drilled By : OEC
Logged By : J. Inch
GPS Location (N,W) : 34.93650, 120.46448



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LOG OF BORING 1550-SB7

1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-13940
Unocal PO# CC603-Q68

Date Completed : 9/10/03
Location : Adjacent to the north of the southern chain-link fence
GPS Location (N,W) : 34.93621, 120.46481
Method : Geoprobe
Drilled By : OEC
Logged By : J. Inch

Depth in Feet	Samples	USCS	GRAPHIC	DESCRIPTION	PID
0–6		SM		SILTY SAND, some gravel, dark brown, no odor gravel stops black, odor of crude oil poorly graded, light grey to medium brown, dense, damp, odor of oil	42.4
6–10		SM		slight odor	11.2
10–13		ML		CLAYEY SILT, damp, no odor	
13–18		SM		SILTY SAND, light brown, medium grained, soft ,dry	1.8
18–20		SW		SAND, well graded, light grey, damp, no odor	2.2

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LOG OF BORING 1150-SB8

1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-13940
Unocal PO# CC603-Q68

Date Completed : 9/10/03
Location : Former tank location
Method : Geoprobe
Drilled By : OEC
Logged By : J. Inch

GPS Location (N,W) : 34.93645, 120.46520

Depth in Feet	Samples	USCS	GRAPHIC	DESCRIPTION	PID
0		SM		SILTY SAND with traces of gravel, light brown, loose, dry, no odor	
5		CL		SILTY CLAY, dense, medium brown and yellow, no odor	0.7
		SM		SILTY SAND, very fine, reddish brown, dry, no odor	1.9
10					
15					2.7
20		SM		SILTY SAND, fine to medium grained, damp, strong petroleum odor	4.5
25				grey, loose, still strong odor	653
30		ML		smaller grains, poorly graded, strong odor red, fine to medium grained, loose, moist grey	1141
				CLAYEY SILT, highly plastic, soft, moist	
35		SM		SILTY SAND, very fine, grey, loose, strong odor	
40		ML		SILT, grey, loose, damp, strong odor	1120
45					
50		SM		SILTY SAND, poorly graded, medium brown, damp, strong odor	1714
55					
60				more reddish sands	117
65				mottled with brown clay and yellowish gravel, very dense, moist, strong odor	
70		ML		Silt, black, damp, dense, very strong petroleum odor	304
75					

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LOG OF BORING 1550-SB9

(Page 1 of 1)

1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-13940
Unocal PO# CC603-Q68

Date Completed : 9/10/03
Location : Location of former tank
Method : Geoprobe
Drilled By : OEC
Logged By : J. Inch

GPS Location (N,W) : 34.93644, 120.46561

Depth in Feet	Samples	USCS	GRAPHIC	DESCRIPTION	PID
0		SM		SILTY SAND, black, asphalt like soil, dry, dense, strong odor	
5				SILTY SAND, light brown, slightly moist, loose, no odor	0.7
		SW		SAND, well graded, light brown, loose, slightly moist, no odor	
10					1.6
				lighter sand, with some gravel	
15				gravel stops reddish, larger grains, dense, damp, no odor	
		SM		SILTY SAND, reddish brown, dense, moist, no odor	
		CL		CLAY, highly plastic, reddish brown, soft, damp, no odor	
20					0.9
		SM		SILTY SAND, very fine grained, yellowish brown, dense, dry, no odor	
25					
30		SP		SAND, poorly graded, reddish-brown, dry, no odor	1.2
35					

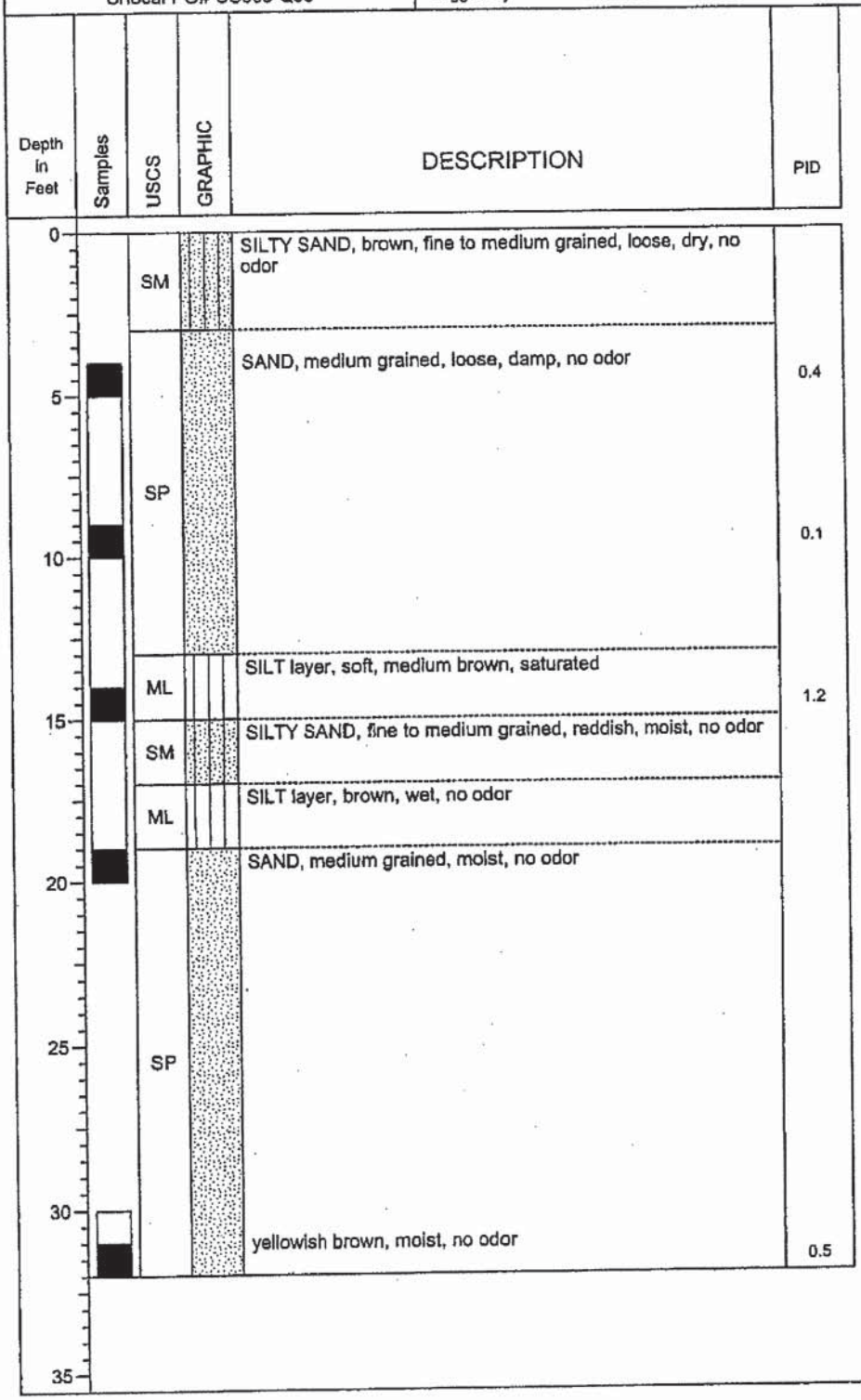
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LOG OF BORING 1550-SB10

1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-13940
Unocal PO# CC603-Q68

Date Completed : 9/11/03
Location : Adjacent to the north of the southern chain-link fence
Method : Geoprobe
Drilled By : OEC
Logged By : J. Inch
GPS Location (N,W) : 34.93601, 120.46584



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LOG OF BORING 1550-SB11

1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-13940
Unocal PO# CC603-Q68

Date Completed : 9/11/02
Location : Former location of small sump east of southern RR spur
Method : Geoprobe
Drilled By : OEC
Logged By : J. Inch
GPS Location (N,W) : 34.93594, 120.46654

Depth in Feet	Samples	USCS	GRAPHIC	DESCRIPTION	PID
0		GM		SILTY SAND with gravel, dark brown, hard, dry, no odor	
5		SP			0.9
10				SAND, poorly graded, medium grained, loose, damp, no odor	1.2
15				well graded, medium to coarse grained, dense, dry, no odor	0.9
		SM		SILTY SAND, fine grained, yellowish brown, dry, no odor	
20					0.9
		SW		SAND, well graded, medium to coarse grained sand, brown, dense, dry, no odor	
25					
30		SM		SILTY SAND, yellowish, dry, no odor	1
35					

Rincon Consultants

LOG OF BORING 1550-SB12

1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-13940
Unocal PO# CC603-Q68

Date Completed : 9/11/03
Location : East end of the larger northern former sump
Method : Geoprobe
Drilled By : OEC
Logged By : J. Inch
GPS Location (N,W) : 34.93808, 120.46551

Depth in Feet	Samples	USCS	GRAPHIC	DESCRIPTION	PID
0		GM		SILTY SAND with gravel, very dense, dry, no odor	
				becomes black and asphalt-like with gravel	12.5
5		SM		SILTY SAND, very fine, black, loose	37.6
10				becomes sandier and reddish-yellow more coarse, brown, little odor	51.9
15		CL		SANDY CLAY, coarse grained, highly plastic, dark brown, soft, moist, slight odor	34.2
20		SM		SILTY SAND, brown, dry, no odor	
25					
30		ML		CLAYEY SILT, saturated, slight odor	12.4
35					
40				SILT, fine grained, brown, soft, no odor	1.2
45					

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LOG OF BORING 1550-SB13

(Page 1 of 1)

1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-13940
Unocal PO# CC603-Q68

Date Completed : 9/11/03
Location : East side of former northernmost large sump
GPS Location (N,W) : 34.93809, 120.46509
Method : Geoprobe
Drilled By : OEC
Logged By : J. Inch

Depth in Feet	Samples	USCS	GRAPHIC	DESCRIPTION	PID
0		SM		SILTY SAND, light brown, fine to medium grained, soft, dry, no odor fill soil with concrete debris	
				concrete chunks gives way to more gravel	
5		GM		SILTY SAND with gravel, medium brown, damp, petroleum odor	240
				SILTY SAND, no gravel, darker grey to black, loose, dry, petroleum odor	
10				black, wet, strong petroleum odor	256
				black, asphalt like layer, less damp	
15				SILTY SAND, well graded, fine to coarse grained, very, dense, dry, slight odor	448
				SILTY SAND, fine to medium grained, reddish-brown, slight odor	
20		SM			17.8
25					
30				same soil type and color, dry, no odor	2.3
35					

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LOG OF BORING 1550-SB14

(Page 1 of 1)

1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-13940
Unocal PO# CC603-Q68

Date Completed : 9/11/03
Location : West side of southern large sump
Method : Geoprobe
Drilled By : OEC
Logged By : J. Inch
GPS Location (N,W) : 34.93760, 120.46541

Depth in Feet	Samples	USCS	GRAPHIC	DESCRIPTION	PID
0		SM		SILTY SAND with concrete debris and crude oil, very hard layer, brown to black, strong odor	
5				concrete debris layer ends	56
		GM		SILTY SAND with gravel, well graded, black, dense, very moist to wet, strong petroleum odor	
10				still black and asphalt like, saturated	178
				thin layer of what appears to be burned product, obsidian like in appearence	273
15		SM		SILTY SAND, dark gray to brown, soft, saturated, strong odor	24.2
20		SM		SANDY SILT, fine grained, black again, smells slightly of petroleum, dry	21.7
25				SILTY SAND, fine, poorly graded, light grey, dry	
				yellow dense, dry	25.9
30				broke anvil on Geoprobe rig due to hard soil conditions	
35					
40		SM		light brown, loose, strong odor, saturated	148
45					
50				yellowish brown, poorly graded sands, medium grained, dense, moist, slight odor	32
55					
60		SW		SAND, well graded, light brown, dense, very moist to wet, strong odor	7.2
65					

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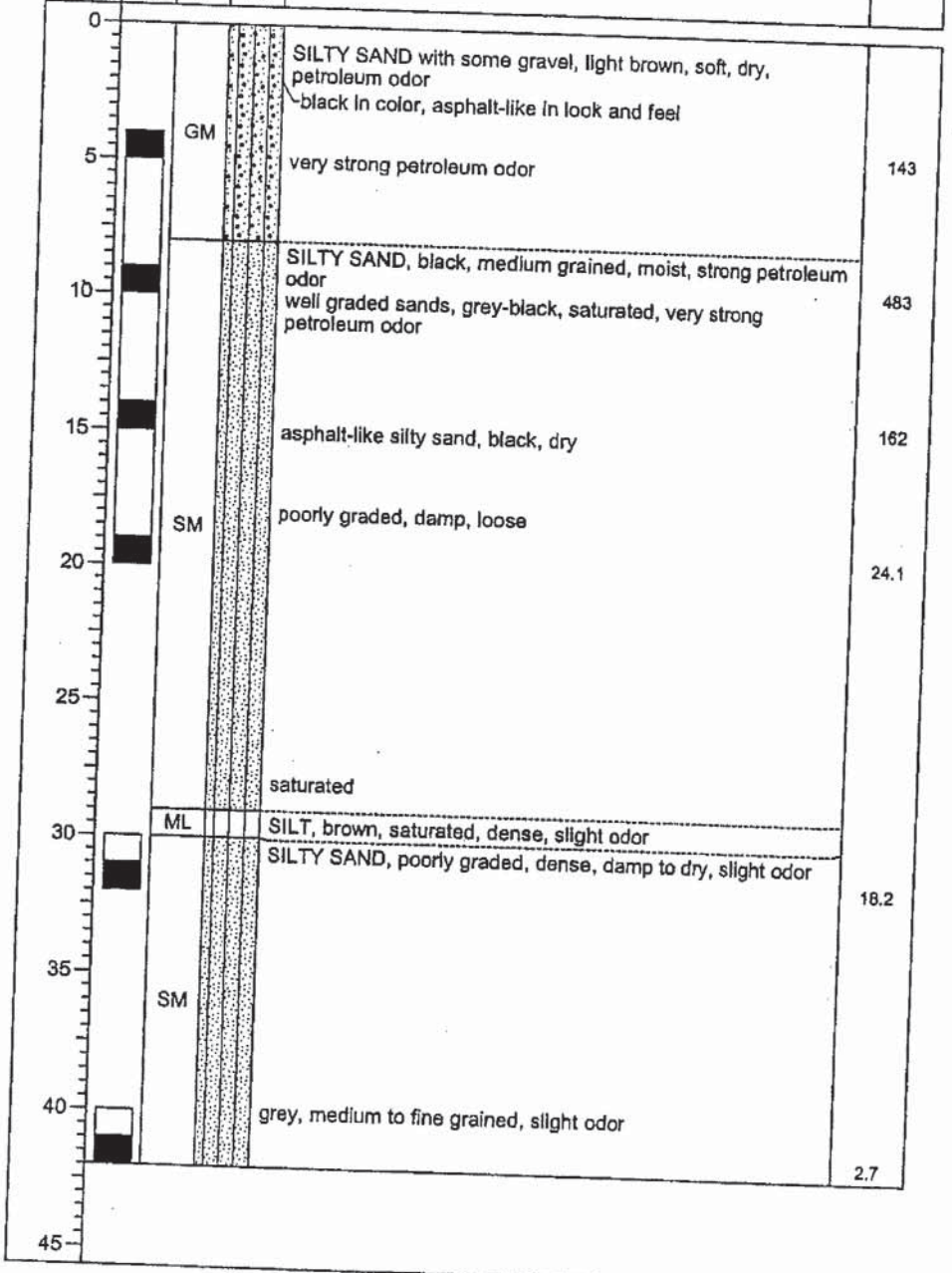
LOG OF BORING 1550-SB15

(Page 1 of 1)

1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-13940
Unocal PO# CC603-Q68

Date Completed : 9/12/03
Location : East end of southern large sump
Method : Geoprobe
Drilled By : OEC
Logged By : J. Inch
GPS Location (N,W) : 34.93758, 120.46500



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LOG OF BORING 1550-SB16

(Page 1 of 1)

1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-13940
Unocal PO# CC603-Q68

Date Completed : 9/12/03
Location : Former production area tank farm
Method : Geoprobe
Drilled By : OEC
Logged By : J. Inch
GPS Location (N,W) : 34.93760, 120.46452

Depth in Feet	Samples	USCS	GRAPHIC	DESCRIPTION	PID
0		GM		SANDY SILT with some gravel, light brown, loose, dry, no odor	
5		SM		SILTY SAND, brown, fine grained, soft, dry, no odor medium grained, loose, damp, slight odor	0.2
10				light brown, very dense, no odor	1.4
15				reddish brown, fine to coarse grained, damp, no odor	4.7
20				finer grained medium brown, fine to medium grained, dry, no odor	1.2
25					
30				pale brown, poorly graded sands, medium grained, very moist to wet, no odor	0.8
35					

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LOG OF BORING 1550-SB17

(Page 1 of 1)

1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-13940
Unocal PO# CC603-Q68

Date Completed : 9/14/03
Location : Small sump east of the water well and retention pond
Method : Geoprobe
Drilled By : OEC
Logged By : J. Inch
GPS Location (N,W) : 34.93704, 120.46467

Depth in Feet	Samples	USCS	GRAPHIC	DESCRIPTION	PID
0		GM		silty sand with gravel silty sand with pieces of asphalt, loose, dry, no odor	
5		SM		SILTY SAND, poorly graded, pale brown with some red, medium grained, loose, damp, no odor	0.9
10				darker red	2.1
15				well graded, coarse grained, slight odor	3.9
20		ML		SILT, grey, fine grained, strong petroleum odor, saturated	21.4
25		SM		SILTY SAND, mottled with clay, reddish-brown, dense, damp, crude oil odor	
30		SW		SAND, well graded, grey, strong petroleum odor	
35		ML		SILT, grey, very fine, dense, wet, strong odor	392
40		SM		SILTY SAND, medium to fine grained, loose, damp, strong odor	818
45					
50				more silt, grey, dense, damp, strong odor	681
55					
60				some angular black gravel, very dense	392
65					
70		SW		SAND, well graded, coarse, green mottled with grey, dense, damp, petroleum odor	69
75					

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LOG OF BORING 1550-SB18

(Page 1 of 1)

1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-13940
Unocal PO# CC603-Q68

Date Completed : 9/17/03
Location : Adj. to east of the water well in former production area
Method : Geoprobe
Drilled By : OEC
Logged By : J. Inch
GPS Location (N,W) : 34.93734, 120.46413

Depth in Feet	Samples	USCS	GRAPHIC	DESCRIPTION	PID
0				SILTY SAND, dark brown, loose, dry, no odor	
				lighter brown	
5				fine sand, light brown, loose, dry	0.2
				poorly graded, damp	
10					1.6
15		SM		yellowish-orange fine sands, medium dense, no odor, damp	1.3
				sand is more coarse	
20				well graded, dense, damp, no odor	1.0
25					
30				poorly graded, fine, medium brown, dense, wet, no odor	0.7
35					

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LOG OF BORING 1550-SB19

1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-13940
Unocal PO# CC603-Q68

Date Completed : 9/17/03
GPS Location (N,W) : 34.93731, 120.46462
Location : West of Boring 1550-SB18 in the former production area
Method : Geoprobe
Drilled By : OEC
Logged By : J. Inch

Depth in Feet	Samples	USCS	GRAPHIC	DESCRIPTION	PID
0		SM		SILTY SAND, light brown, traces of gravel, loose, dry, no odor	
5					0.2
		GM		SILTY SAND with gravel, sub-rounded gravel, yellowish brown, dry, no odor	
10				SILTY SAND, very little gravel, loose, moist, no odor	0.9
15				dark brown, very dense, dry, no odor well graded, some gravel, sub rounded	1.2
20				reddish-brown, coarse, dense, damp, slight odor	418
25		SM			
30				very fine medium brown, medium dense, slight odor	120
35					
40				fine to medium grained, lighter brown, dense, no odor	1.6
45					

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LOG OF BORING 1550-SB20

(Page 1 of 1)

1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-13940
Unocal PO# CC603-Q68

Date Completed : 9/17/03
GPS Location (N,W) : 34.93683, 120.46523
Location : Former tank loction, west of water well and holding pond
Method : Geoprobe
Drilled By : OEC
Logged By : J. Inch

Depth in Feet	Samples	USCS	GRAPHIC	DESCRIPTION	PID
0		GM		SILTY SAND with gravel, dense, dry, no odor	
				black, solid product, obsidian like in appearence	0.2
5				black, more sand	
		SM		SILTY SAND, brown mottled with black, damp, no odor	
		CL		SILTY CLAY, medium plasticity, stiff, damp	0.9
10				SILTY SAND, medium brown	
		SM			1.2
15				yellowish-brown, poorly graded, dense	
		ML		SANDY SILT, dense, damp, slight odor	145
20				SILTY SAND, medium brown, loose, damp, strong odor	
25					
30				grey, poorly graded, strong gasoline odor	491
35					
40		SM			
45				less damp, strong odor	472
50					
55					
60				SANDY SILT, medium-dark brown, well graded sands,	1594
		ML		medium dense, saturated, strong odor	
65					
		CL		CLAY, dense, stiff, slight odor	
70		GM		SILTY SAND with gravel, dark brown mottled with green silt,	527
				dense, wet	
75				SILT, grey, dense, very moist, strong odor	
		ML			
80					
85				SANDY SILT, medium brown, dense, moist, slight odor	125
		GM		SANDY GRAVEL, dense, light brown, saturated, strong odor	
90					

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LOG OF BORING 1550-SB21

1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-13940
Unocal PO# CC603-Q68

Date Completed : 9/17/03
Location : Adjacent to the south of the eastern existing building
GPS Location (N,W) : 34.93691, 120.46696
Method : Geoprobe
Drilled By : OEC
Logged By : J. Inch

Depth in Feet	Samples	USCS	GRAPHIC	DESCRIPTION	PID
0				SILTY SAND, traces of gravel, light brown, loose, damp, no odor	
				no gravel	
5		SM		fine sand, poorly graded, dense, damp	0.1
10					0.7
				coarser sands, well graded	
15		GM		SILTY SAND with gravel, reddish brown, dense, damp, no odor	0.9
				SILTY SAND, brown, dense,moist, no odor	
20				reddish brown, slightly moist	1.2
25				very soft, loose, slightly moist, no odor	
		SM			
30				fine sands, light brown, loose, odor of crude, damp	
					87
35					
40				poorly graded, brown, moist, no odor	2.1
45					

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LOG OF BORING 1550-SB22

(Page 1 of 1)

1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-13940
Unocal PO# CC603-Q68

Date Completed : 9/17/03
GPS Location (N,W) : 34.93645, 120.466403
Location : Former sump location east of pallet wood storage structure
Method : Geoprobe
Drilled By : OEC
Logged By : J. Inch

Depth in Feet	Samples	USCS	GRAPHIC	DESCRIPTION	PID
0		GM		SANDY GRAVEL, some silt, light brown, loose, dry, no odor	
		SM		SILTY SAND, traces of gravel, looks like asphalt, dense, dry, petroleum odor	
5				no gravel, uniform sands, poorly graded sands, loose, dry, no odor	0.2
10				yellowish medium brown, loose, dry, no odor	0.0
		GM		SANDY SILT with gravel, dark brown, loose, dry, no odor	
15		SM		SILTY SAND, light brown, loose, moist, no odor	1.1
20				traces of gravel, moist gravel stops, poorly graded sands, medium brown, loose	0.1
25					
30				lighter brown, fine to medium grained sands, slightly moist, no odor	1.9
35					

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LOG OF BORING 1550-SB23

1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-13940
Unocal PO# CC603-Q68

Date Completed : 9/18/03
Location : Adj. to loading ramp and water tanks SW of western building
GPS Location (N,W) : 34.93704, 120.46635
Method : Geoprobe
Drilled By : OEC
Logged By : J. Inch

Depth in Feet	Samples	USCS	GRAPHIC	DESCRIPTION	PID
0		GM		asphalt and then concrete	
				SILTY SAND, traces of gravel, light brown, loose, dry, no odor	
5		SM		no gravel, poorly graded sands, medium brown, loose, dry, no odor	0
10				coarse sands, loose, dry, no odor	0
		GM		SANDY SILT with gravel, dark brown, loose, dry, no odor	
15				SILTY SAND, light brown, loose, moist, no odor	0.1
				more red in color	
20				poorly graded sands, reddish brown, medium grained, moist	0.4
		SM			
25					
30				lighter brown, fine grained sands, loose, slightly moist, no odor	0.5
35					

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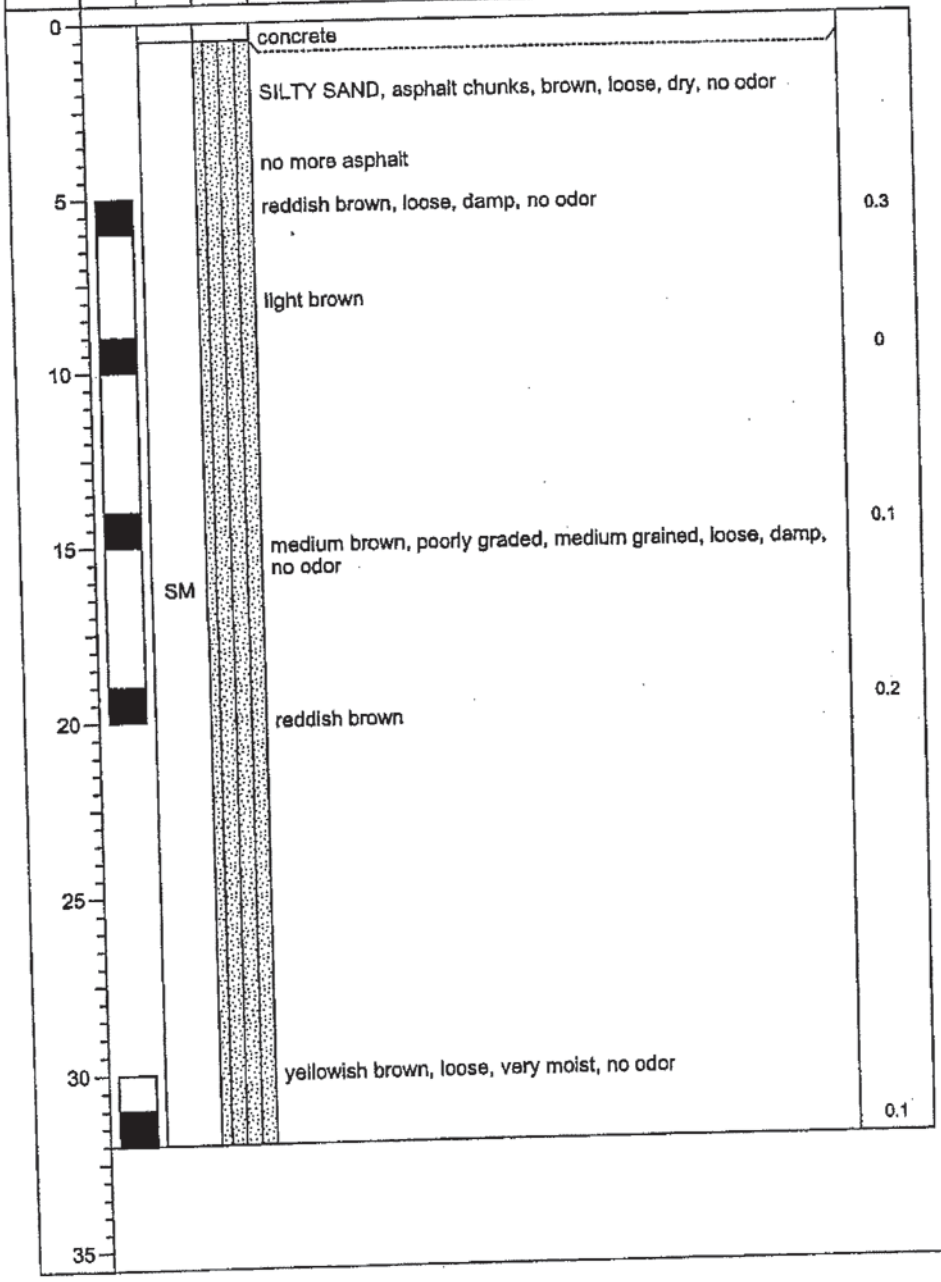
LOG OF BORING 1550-SB24

(Page 1 of 1)

1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-13940
Unocal PO# CC603-Q68

Date Completed : 9/18/03
Location : Adjacent to north of manhole for sewer, w of buildings
Method : Geoprobe
Drilled By : OEC
Logged By : J. Inch
GPS Location (N,W) : 34.93783, 120.46634



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LOG OF BORING 1550-SB25

(Page 1 of 1)

1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-13940
Unocal PO# CC603-Q68

Date Completed : 9/18/03
Location : Former smaller sump between the two large sumps
GPS Location (N,W) : 34.93790, 120.46539
Method : Geoprobe
Drilled By : OEC
Logged By : J. Inch

Depth in Feet	Samples	USCS	GRAPHIC	DESCRIPTION	PID
0		GM		SILTY GRAVEL with some sand, light brown, dry, loose, no odor	0
		SW		SILTY SAND with concrete debris, light brown sands, well graded sands, loose, dry, no odor	
5				concrete ends	
		ML		SANDY SILT, black, looks and smells like asphalt, dense, damp, strong odor	0.5
10				SILTY SAND, black, like asphalt, damp, dense, strong odor	23.4
15				welll graded sands, more coarse, dense, dry	286
				looser	
20		SM		poorly graded, medium grained, moist, strong odor	51
25				still black, very moist to wet	102
				black soils stop	
30				SILT, medium brown mottled with greenish grey, wet, soft, strong odor	185
35		ML			
40		SM		SILTY SAND, poorly graded fine sands, light brown, moist, slight odor	24.8
45					

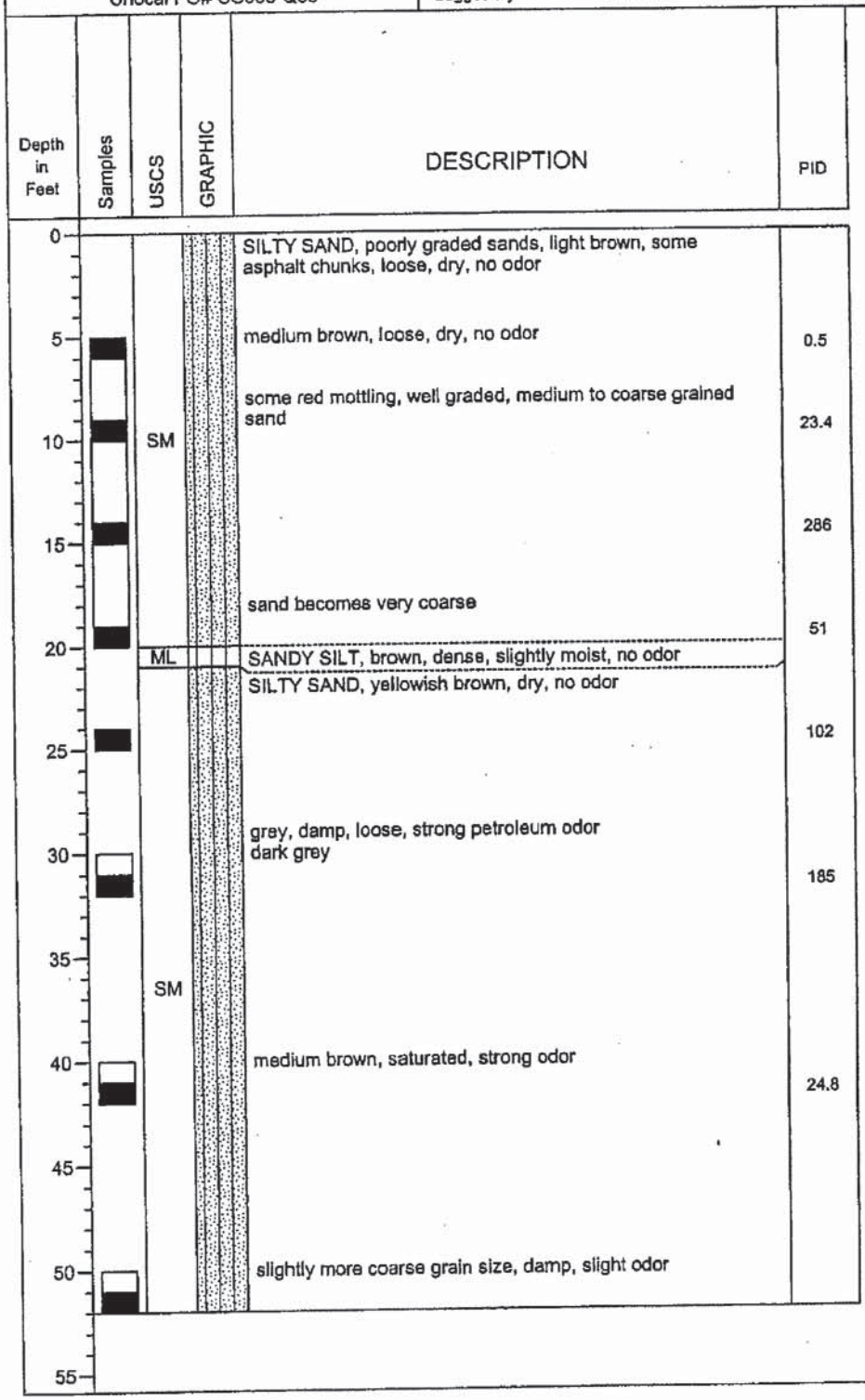
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LOG OF BORING 1550-SB26

1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-13940
Unocal PO# CC603-Q68

Date Completed : 9/18/03
Location : Adjacent to the west of the eastern chain-link fence
Method : Geoprobe
Drilled By : OEC
Logged By : J. Inch
GPS Location (N,W) : 34.93803, 120.46373



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LOG OF BORING 1550-SB27

1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-13940
Unocal PO# CC603-Q68

Date Completed : 9/18/03
Location : Adjacant to the west of the eastern chain-link fence
GPS Location (N,W) : 34.93733, 120.46377
Method : Geoprobe
Drilled By : OEC
Logged By : J. Inch

Depth in Feet	Samples	USCS	GRAPHIC	DESCRIPTION	PID
0		GM		SILTY SAND with gravel, light brown, dry, no odor	
				SILTY SAND, brown, loose, slightly moist, no odor	
5		SM		medium brown	
10					0.2
15		GM		SILTY SAND with gravel, dense, dry, no odor	1.1
		GP		CLAYEY GRAVEL with some sand, soft, slightly moist, no odor	
				SILTY SAND, poorly graded, dark brown, moist, no odor	
20				yellowish orange sands, well graded, fine to medium grained, loose, moist, no odor	0.8
25		SM			
30				light brown, poorly graded fine sands, loose, moist, no odor	1.7
35					

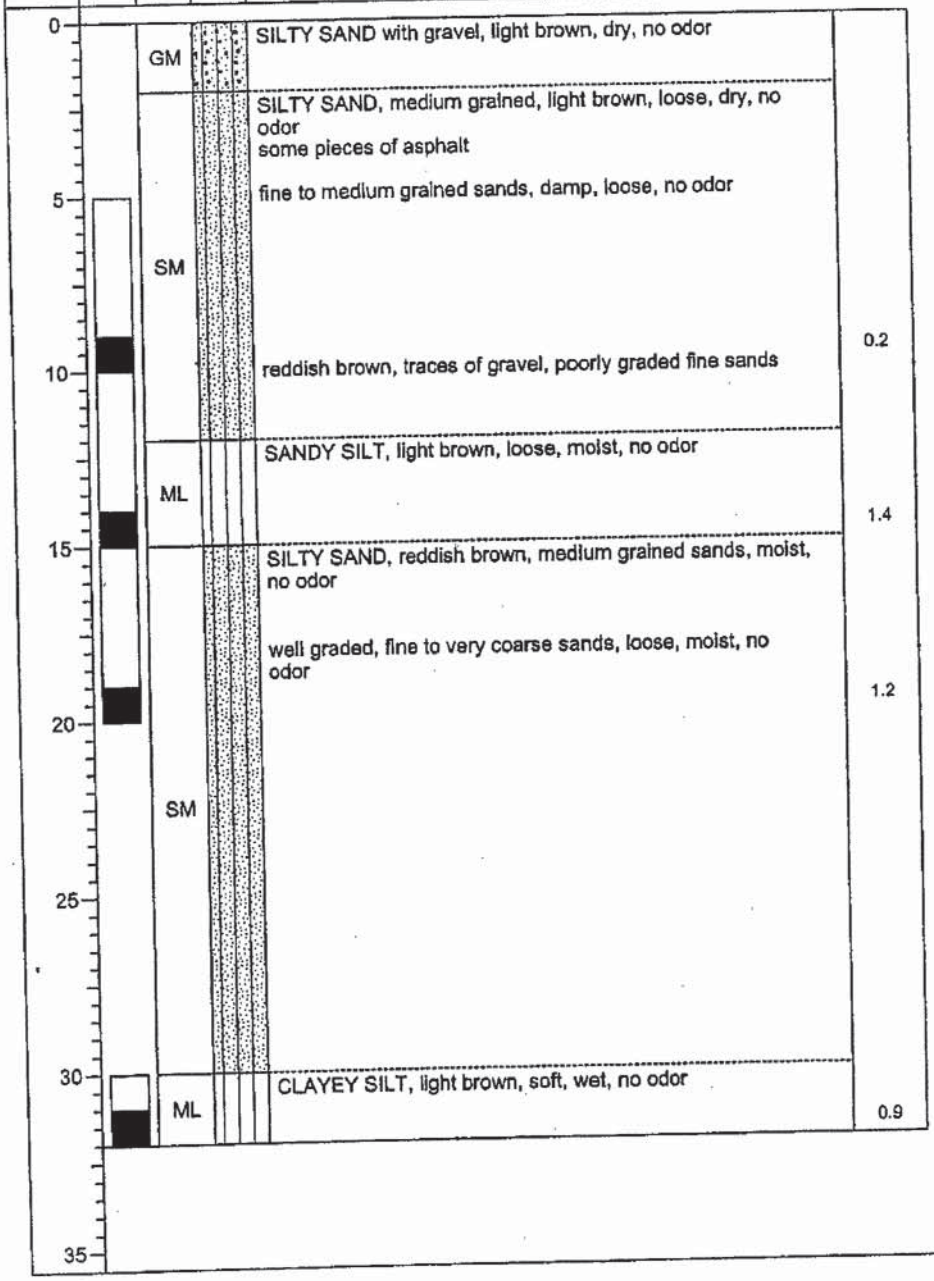
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LOG OF BORING 1550-SB28

1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-13940
Unocal PO# CC603-Q68

Date Completed : 9/19/03
Location : Between eastern chain-link fence and SE holding pond
Method : Geoprobe
Drilled By : OEC
Logged By : J. Inch
GPS Location (N,W) : 34.93682, 120.46378



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LOG OF BORING 1550-SB29

1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-13940
Unocal PO# CC603-Q68

Date Completed : 9/19/03
Location : Between S chain link fence and SW holding pond
GPS Location (N,W) : 34.93639, 120.46410
Method : Geoprobe
Drilled By : OEC
Logged By : J. Inch

Depth in Feet	Samples	USCS	GRAPHIC	DESCRIPTION	PID
0				SILTY SAND with asphalt, medium brown, dry, no odor	
				yellowish brown	
				medium brown	
5				light brown, damp, no odor	
		SM		poorly graded fine sands, light yellowish brown, loose, damp, no odor	0.2
10				well graded fine to medium grained sands, damp, no odor	
				sand becomes more coarse	1.4
15					
		ML		SILT, medium brown, loose, wet, no odor	
20				SILTY SAND, poorly graded fine grained sands, medium brown loose, moist, no odor	1.2
		SM			
25					
				light brown	
30					0.9
35					

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LOG OF BORING 1550-SB30

1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-13940
Unocal PO# CC603-Q68

Date Completed : 9/19/03
GPS Location (N,W) : 34.93613, 120.46519
Location : North of central portion of southern chain link fence
Method : Geoprobe
Drilled By : OEC
Logged By : J. Inch

Depth in Feet	Samples	USCS	GRAPHIC	DESCRIPTION	PID
0				SILTY SAND, medium brown, loose, dry, no odor	
5				sand becomes more coarse, well graded	
10		SM		light brown, loose, moist, no odor	0.2
15				fine to medium grained sands, light brown, loose, moist, no odor	1.1
20		ML		CLAYEY SILT, medium brown, loose, damp, organic odor (like potting soil)	0.2
				SILTY SAND, poorly graded medium grained sands, medium brown loose, moist, no odor	
25		SM			
30				fine grained, light brown, loose, no odor	0
35					

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LOG OF BORING 1550-SB31

1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-13940
Unocal PO# CC603-Q68

Date Completed : 9/19/03
Location : North of W portion of S chain link fence, adj. to RR spur
GPS Location (N,W) : 34.93580, 120.46671
Method : Geoprobe
Drilled By : OEC
Logged By : J. Inch

Depth in Feet	Samples	USCS	GRAPHIC	DESCRIPTION	PID
0				asphalt	
				SILTY SAND, light brown, loose, dry, no odor	
5					
				sand becomes more coarse, damp	
10					0.6
15		SM			0.3
				fine to medium grained well graded sands, light to medium brown, loose, damp, no odor	
20					0.9
25					
30				medium brown, dense, damp, no odor	0.2
35					

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LOG OF BORING 1550-SB32

(Page 1 of 1)

1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-13940
Unocal PO# CC603-Q68

Date Completed : 9/19/03
GPS Location (N,W) : 34.93721, 120.46490
Location : North of holding pond with water well, in former small sump
Method : Geoprobe
Drilled By : OEC
Logged By : J. Inch

Depth in Feet	Samples	USCS	GRAPHIC	DESCRIPTION	PID
0		GM		SILTY SAND with gravel, appears to be fill, medium to light brown, dry, no odor	
5					0.1
		SM		SILTY SAND, medium grained, light brown, loose, moist, no odor	2.3
10		ML		SANDY SILT, very fine sands, light brown, loose, dry, no odor	
				SILTY SAND, yellowish brown, loose, damp, no odor	0.7
15				more dense	
				traces of gravel	
				gravel stops	0.2
20		SM		well graded fine to medium grained sands, damp, no odor	
25					
30				light brown, loose, damp, no odor	0.1
35					

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LOG OF BORING B1

(Page 1 of 1)

1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-14940
Unocal PO# CC603-Q68

Date Completed : 11/18/03
Location : SE corner of site
Method : HSA
Drilled By : S & G Drilling Company
Logged By : J. Inch

GPS Location : 34.9365N 120.4638W

Depth in Feet	Samples	USCS	GRAPHIC	DESCRIPTION	PID	Water Level
0				SILTY SAND, brown, dry, some odor		
5				dark black, very strong petroleum odor, dense	0	
				oil sand stops, no odor		
				reddish brown, loose		
10				light brown, fine to medium grained, loose, moist		
				SANDY SILT, light brown, well graded	0	
15				SILTY SAND, light brown, well graded, loose	0	
20				poorly graded	0	
25				light yellowish brown, well graded, loose, dry	0	
30		SM		light brown, fine grained, poorly graded	0	
35				light yellowish brown, poorly graded, medium grained, loose, moist	0	
40				light brown, well graded, dense, dry	0	
45				SANDY SILT, light brown, medium grained, loose, damp	0	
50				SILTY SAND, light brown, well graded, loose, dry	0	
55				medium brown, poorly graded, medium grained, loose, moist	0	
60		SP		GRAVELLY SANDS, poorly graded sands, dark brown, dense, wet	0	
65				larger gravel and more dense	0	
		GP		POORLY GRADED GRAVEL with COBBLE, very dense, dry		
70		ML		SILTY SAND, fine grained sands, yellowish brown, moist	0	
				SILT, brown, soft, wet		
75		GM		SILTY GRAVEL with WELL GRADED SANDS, light to medium brown, mottled with yellow brown silt, very dense, moist	0	
80				gravel becomes less dense	0	
		CL		SILTY CLAY, yellowish brown, low plasticity, soft, wet		
85		SM		SANDY SILT, light yellowish brown, wet, soft, some gravel	0	
90					0	
95		GM		SANDY GRAVEL with SILT, medium brown with yellow, loose, saturated	0	▼
100				more varying colors of gravel and sand, medium brown silt		

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LOG OF BORING B2

1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-14940
Unocal PO# CC603-Q68

Date Completed : 11/18/03 and 11/19/03
Location : South of northern property boundary
Method : HSA
Drilled By : S & G Drilling Company
Logged By : J. Inch
GPS Location : 34.9383N 120.4658W

Depth in Feet	Samples	USCS	GRAPHIC	DESCRIPTION	PID	Water Level
0		SM		SILTY SAND, brown, dry, some odor		
5				dark black, very strong petroleum odor, dense	20	
				oil sand stops, no odor		
10				light brown, well graded, fine to medium grained, loose, moist, slight odor	50	
				poorly graded, beige to light tan, loose, moist, slight odor		
15				oil sand, dense, strong odor	80	
				very dense 6 inch layer		
20					35	
25				begins to become lighter in color		
				oil sand stops		
				gray, damp, strong odor, soft, moist	9.5	
30		ML		CLAYEY SILT, light brown, stiff, dry		
		CL		SILTY CLAY, medium brown, moist, medium plasticity, soft, slight odor	3.5	
35		SM		SILTY SAND, well graded, light brown, loose, moist, sweet odor	1.2	
40				medium brown, fine sands, loose, moist	13	
45				light brown, loose, medium sands, loose, moist, odor slightly diminished	5.7	
50				well graded sands, moist, loose, less odor	8	
55				some gravel, slightly moist, slight petroleum odor	15	
60		GM		SILTY GRAVEL with WELL GRADED SANDS, medium brown, dense, moist, slight odor	7.2	
65				gravel becomes more dense	7	
70				light yellow brown, dense, dry, slight odor	0	
75		ML		CLAYEY SILT, mottled with grey clay, stiff, slightly plastic, grey clay highly plastic, slight odor	1.9	
80					3	
85		GM		SILTY SAND with GRAVEL, brown, well graded, dense, wet, very slight odor	17	
90				mottled with grey clay, very wet, dense, strong odor	37	▼
95				no clay, more gravel, saturated, slight odor		
		SW		SILTY SAND, well graded, medium brown, saturated, very slight odor	0	
100						

Rincon Consultants

LOG OF BORING B3

1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-14940
Unocal PO# CC603-Q68

Date Completed : 11/19/03 and 11/20/03
GPS Location : 34.9380N 120.4666W
Location : West of the western former refigeration building
Method : HSA
Drilled By : S & G Drilling Company
Logged By : J. Inch

Depth in Feet	Samples	USCS	GRAPHIC	DESCRIPTION	PID	Water Level
0		SM		top 6 inches concrete SILTY SAND, poorly graded medium grained sands, reddish brown, loose, moist	0	
5						
10				some gravel, well graded sands mottled with small chunks of brown clay, dry, loose	0	
15		SP		SAND, poorly graded, medium grained, very few fines, loose, dry SAND, well graded, medium to large grained, loose, moist	0	
20					0	
25		ML		SANDY SILT, very fine sands, medium brown, soft, very wet	0	
30		SM		SILTY SAND, well graded sands, few fines, light brown, soft, moist medium brown, more silt light brown, few fines	0	
35					0	
40				poorly graded fine sands with silt, loose	0	
45				light reddish brown, loose, wet	0	
50				fine to medium grained sands, tan in color, loose	0	
55				more fine sands	0	
60		ML		SANDY SILT, very fine sands, medium brown, soft, damp	0	
65		GM		SANDY SILT with GRAVEL, sub angular gravel, medium brown, dense, dry	0	
70				gravel becomes more dense, some cobble	0	
75				SILTY SAND with GRAVEL, less gravel moddled with clay, moist, slight odor	0	
80				cobble layer	0	
85		SM		SILTY SAND mottled with SILTY CLAY, dark brown, slight odor SILTY SAND, poorly graded fine sands, medium brown, moist	0	
90		GM		SILTY SAND with gravel, medium brown, dense, slight odor	0	▼
95		SW		SAND, well graded, loose, saturated, no odor	0	
100						

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LOG OF BORING B4

(Page 1 of 1)

1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-14940
Unocal PO# CC603-Q68

Date Completed : 11/20/03
Location : North of the former water retention basin
Method : HSA
Drilled By : S & G Drilling Company
Logged By : J. Inch
GPS Location : 34.9372N 120.4652W

Depth in Feet	Samples	USCS	GRAPHIC	DESCRIPTION	PID	Water Level
0				oil sand and tar		
5		SM		SILTY SAND, medium grained sands, beige	9.2	
				sand becomes grey and has slight odor		
10		CL		SILTY CLAY, medium brown, slightly plastic, soft, moist, no odor	0	
15		SM		SILTY SAND, poorly graded fine sands, light brown, loose, moist	0	
20					0	
25				well graded sands, some gravel, dry, medium density	0	
30				poorly graded fine sands, light brown, loose,	0	
35				medium brown	0	
40					0	
45		ML		CLAYEY SILT, medium brown, slightly plastic, dense, damp	0	
50					0	
55		SM		SILTY SAND with some gravel, poorly graded fine sands, light brown, loose, dry	0	
60				more dense, well graded sands, moist	0	
65					0	
70					0	
75		GC		SILTY SAND with gravel and clay, medium brown, very dense, dry	0	
80				cobble layer	0	
85		SM		SILTY SAND, very fine sands, soft, moist, slight odor	0	
90		GC		SILTY SAND with gravel and clay, medium brown, dense, slight odor	0	
95		GM		SANDY SILT with gravel, well graded sands, loose, wet, slight odor	4	▼
100				saturated, no odor	0	

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LOG OF BORING B5

(Page 1 of 1)

1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-14940
Unocal PO# CC603-Q68

Date Completed	: 11/21/03	GPS Location	: 34.9368N 120.4653W
Location	: 1 foot Northwest of SB20		
Method	: HSA		
Drilled By	: S & G Drilling Company		
Logged By	: J. Inch		

Depth in Feet	Samples	USCS	GRAPHIC	DESCRIPTION	PID	Water Level
0				dark gray, oil sand and tar at surface, extends to 6 inches below grade		
5						
10				Refer to Boring Log SB20 for lithologic description to 87 foot depth		
15				Refer to Geotechnical Report from PTS Labratories for Physical Properties Data including: moisture content, density, porosity and total organic carbon		
20						
25						
30					0	
35						
40						
45						
50					0	
55						
60						
65					0	
70						
75						
80					0	
85						
90		GM		SANDY SILT with gravel, well graded sands, loose, wet, strong odor saturated, no odor		▼
95						
100						

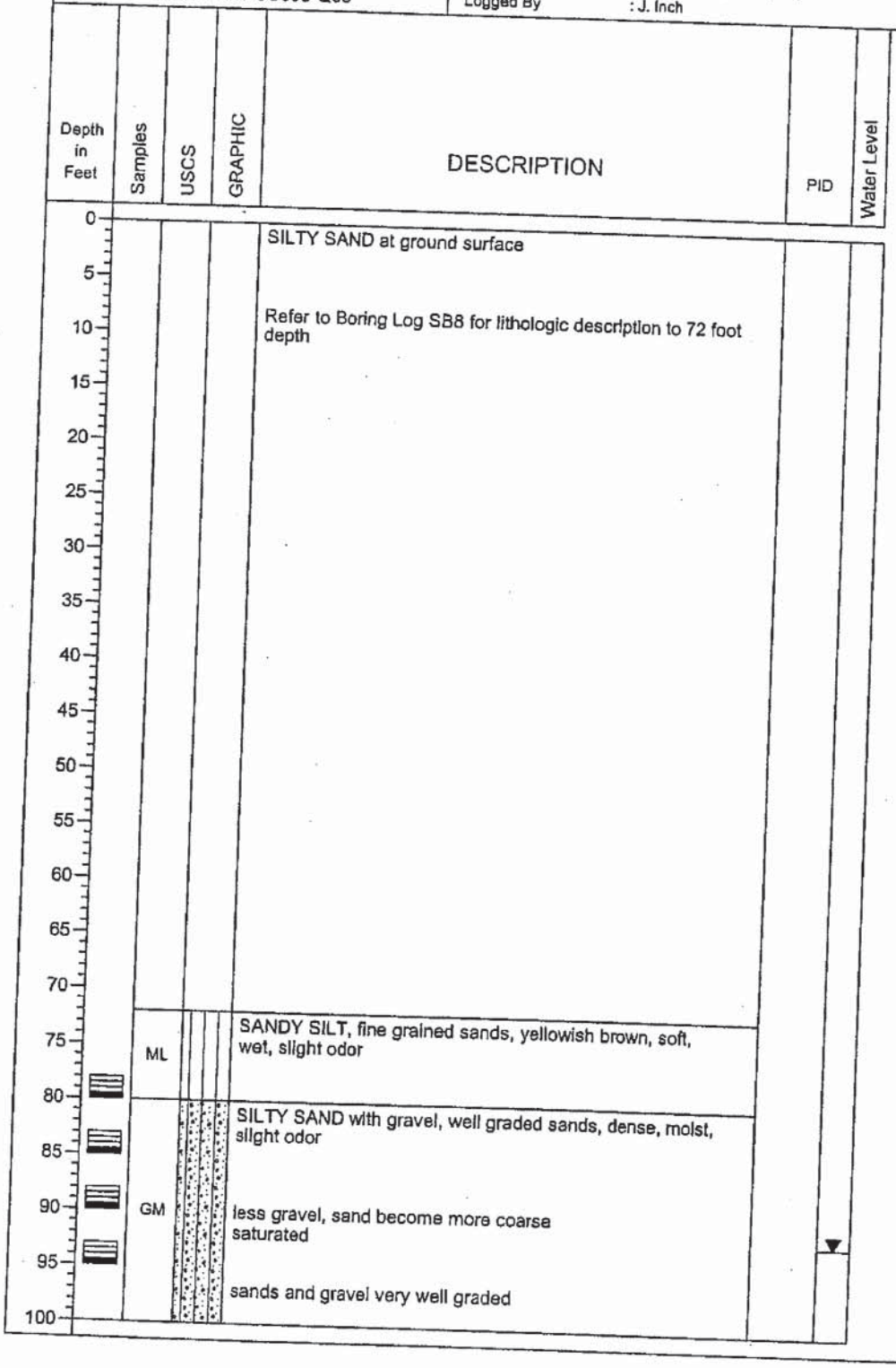
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LOG OF BORING B6

1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-14940
Unocal PO# CC603-Q68

Date Completed	: 11/21/03 and 11/22/03	GPS Location	: 34.9364N 120.4652W
Location	: 1 foot Northwest of SB8		
Method	: HSA		
Drilled By	: S & G Drilling Company		
Logged By	: J. Inch		



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LOG OF BORING B7

1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-14940
Unocal PO# CC603-Q68

Date Completed : 11/22/03
Location : 20 feet south of SB17
Method : HSA
Drilled By : S & G Drilling Company
Logged By : J. Inch

GPS Location : 34.9370N 120.4647W

Depth in Feet	Samples	USCS	GRAPHIC	DESCRIPTION	PID	Water Level
0				SILTY SAND at ground surface		
5				Refer to Boring Log SB17 for lithologic description to 72 foot depth		
10						
15						
20						
25						
30						
35						
40						
45						
50						
55						
60						
65						
70						
75		ML		SANDY SILT, fine grained sands, light brown, dense, wet, slight odor		
80				SILTY SAND with gravel, medium brown, well graded sands, dense, moist, strong odor		▼
85				saturated, sheen on auger tip		
90		GM		less gravel, sand become more coarse		
95				sands and gravel very well graded		
100						

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LOG OF BORING 1550-SB32(B)

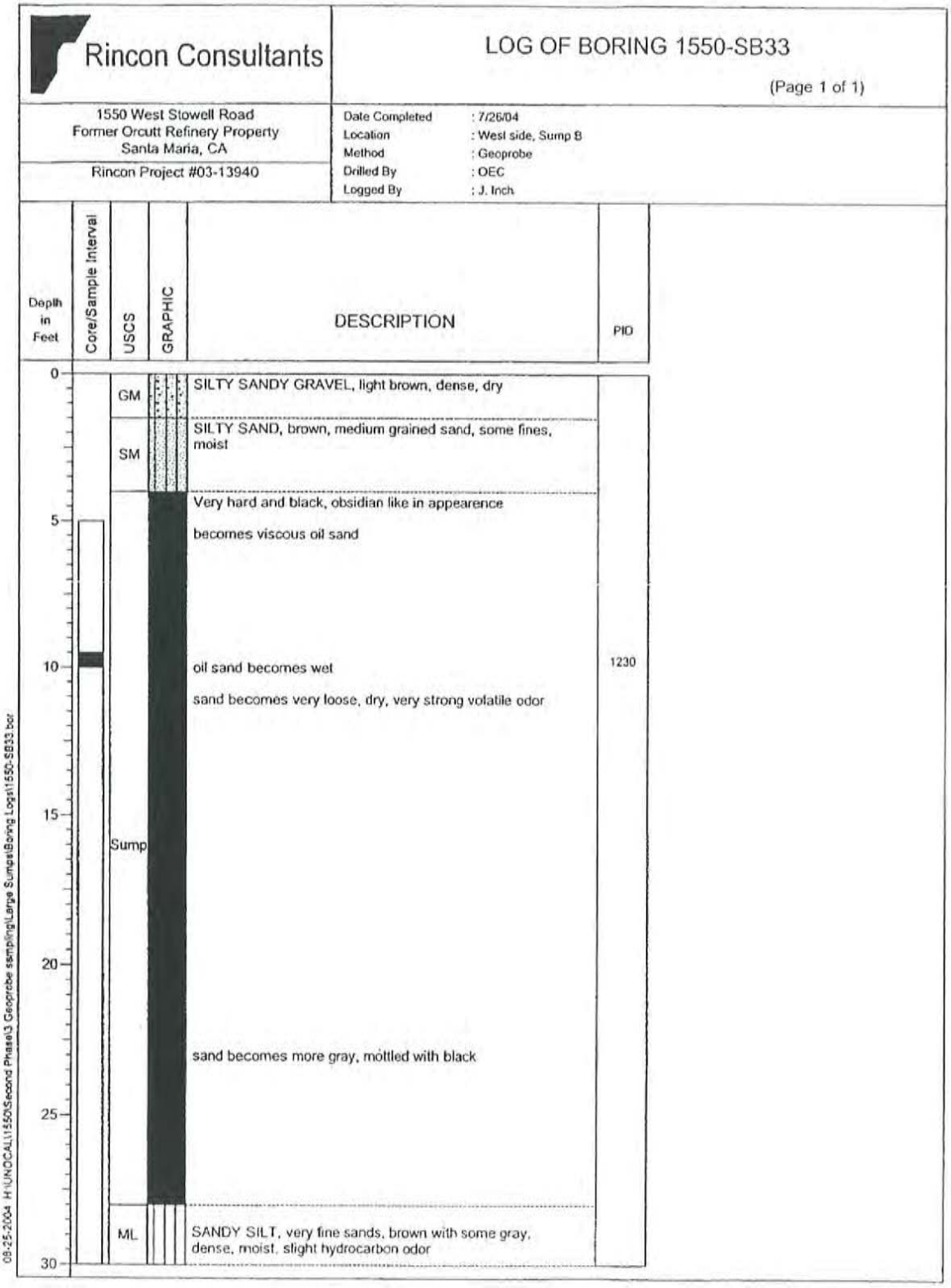
1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-13940

Date Completed	: 7/26/04
Location	: West side, Sump B
Method	: Geoprobe
Drilled By	: OEC
Logged By	: J. Inch

Depth in Feet	Core/Sample Interval	USCS	GRAPHIC	DESCRIPTION	PID
0		GM		SILTY SANDY GRAVEL, light brown, dense, dry	
		SM		SILTY SAND, brown, medium grained sand, some fines, moist	
		Sump		SAND, well graded, grey, dense, slightly moist, strong odor	
5				SANDY SILT, coarse, brown, dense, dry, no odor	
				Becomes more coarse, less fines	
10		SM			
15					
20					
25					
30					

06-25-2004 H:\UNOCAL\1550\Second Phase\3 Geoprobe sampling\Large Sumps\Boring Logs\1550-SB32B.bor


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LOG OF BORING 1550-SB33
(Page 1 of 1)
1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA
Rincon Project #03-13940
Date Completed : 7/26/04
Location : West side, Sump B
Method : Geoprobe
Drilled By : OEC
Logged By : J. Inch
Depth in Feet
Core/Sample Interval
USCS
GRAPHIC
DESCRIPTION
PID
0
5
10
15
20
25
30
GM
SILTY SANDY GRAVEL, light brown, dense, dry
SM
SILTY SAND, brown, medium grained sand, some fines, moist
Very hard and black, obsidian like in appearence
becomes viscous oil sand
oil sand becomes wet
1230
sand becomes very loose, dry, very strong volatile odor
Sump
sand becomes more gray, mottled with black
ML
SANDY SILT, very fine sands, brown with some gray, dense, moist, slight hydrocarbon odor
08-25-2004 H:\UNOCAL\1550\Second Phase\3 Geoprobe sampling\Large Sump\set\Boring Logs\1550-SB33.bor

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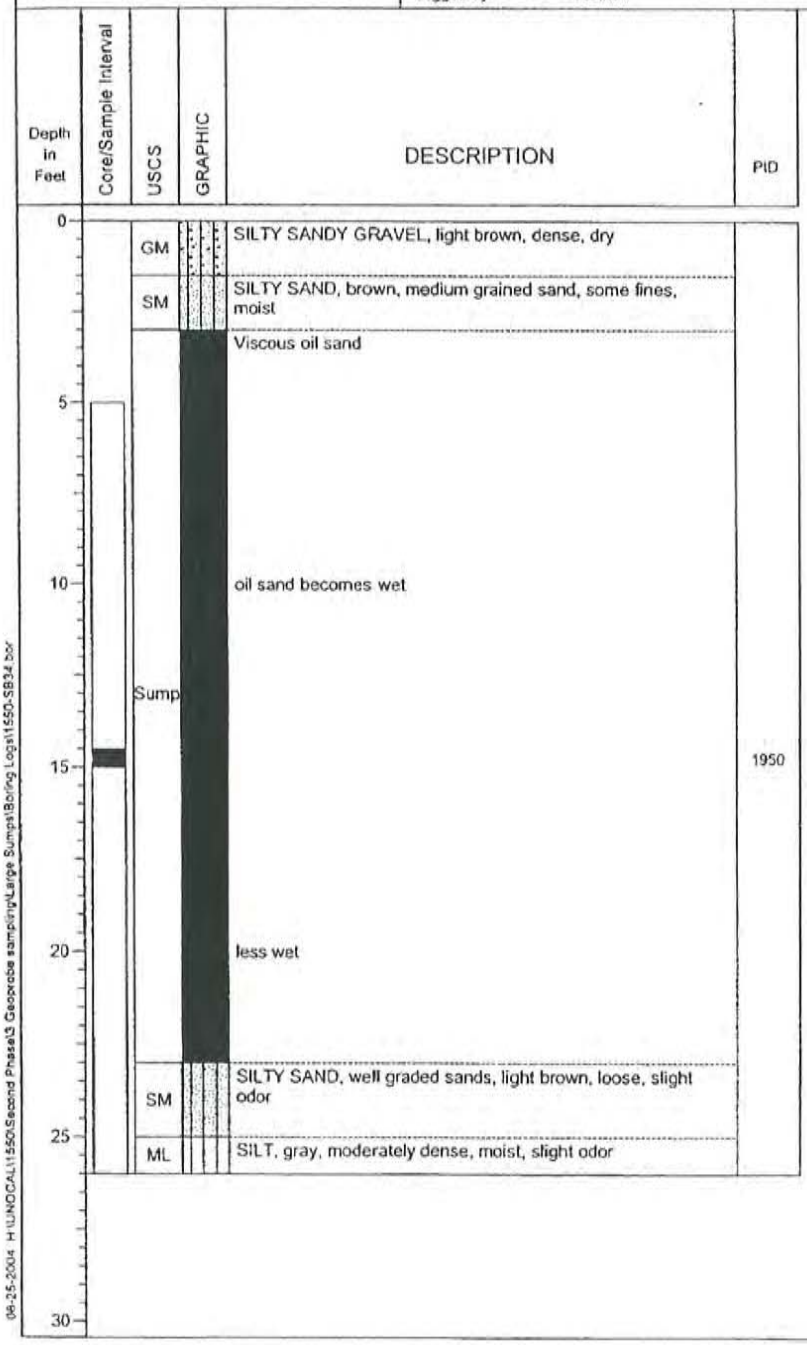
LOG OF BORING 1550-SB34

(Page 1 of 1)

1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

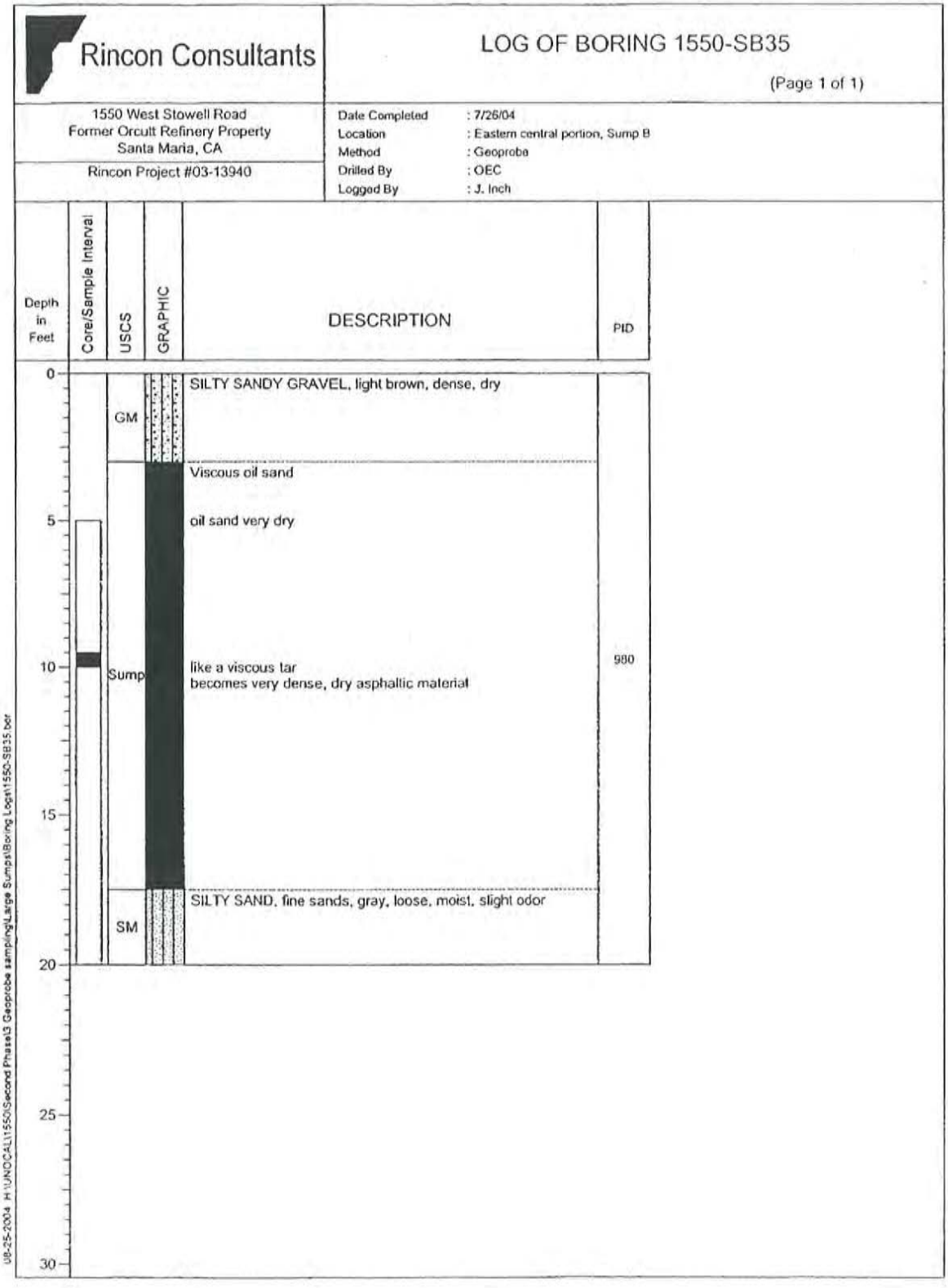
Rincon Project #03-13940

Date Completed	: 7/26/04
Location	: Central portion, Sump B
Method	: Geoprobe
Drilled By	: OEC
Logged By	: J. Inch



06-25-2004 H:\UNOCAL\1550\Second Phase\3 Geoprobe sampling\Large Sumps\Boring Logs\1550-SB34.bor

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LOG OF BORING 1550-SB35
(Page 1 of 1)
1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA
Rincon Project #03-13940
Date Completed : 7/26/04
Location : Eastern central portion, Sump B
Method : Geoprobe
Drilled By : OEC
Logged By : J. Inch
Depth in Feet
Core/Sample Interval
USCS
GRAPHIC
DESCRIPTION
PID
0
5
10
15
20
25
30
GM
Sump
SM
SILTY SANDY GRAVEL, light brown, dense, dry
Viscous oil sand
oil sand very dry
like a viscous tar
becomes very dense, dry asphaltic material
980
SILTY SAND, fine sands, gray, loose, moist, slight odor
08-25-2004 H:\UNOCAL\1550\Second Phase\3 Geoprobe sampling\Large Sumps\Boring Logs\1550-SB35.bor

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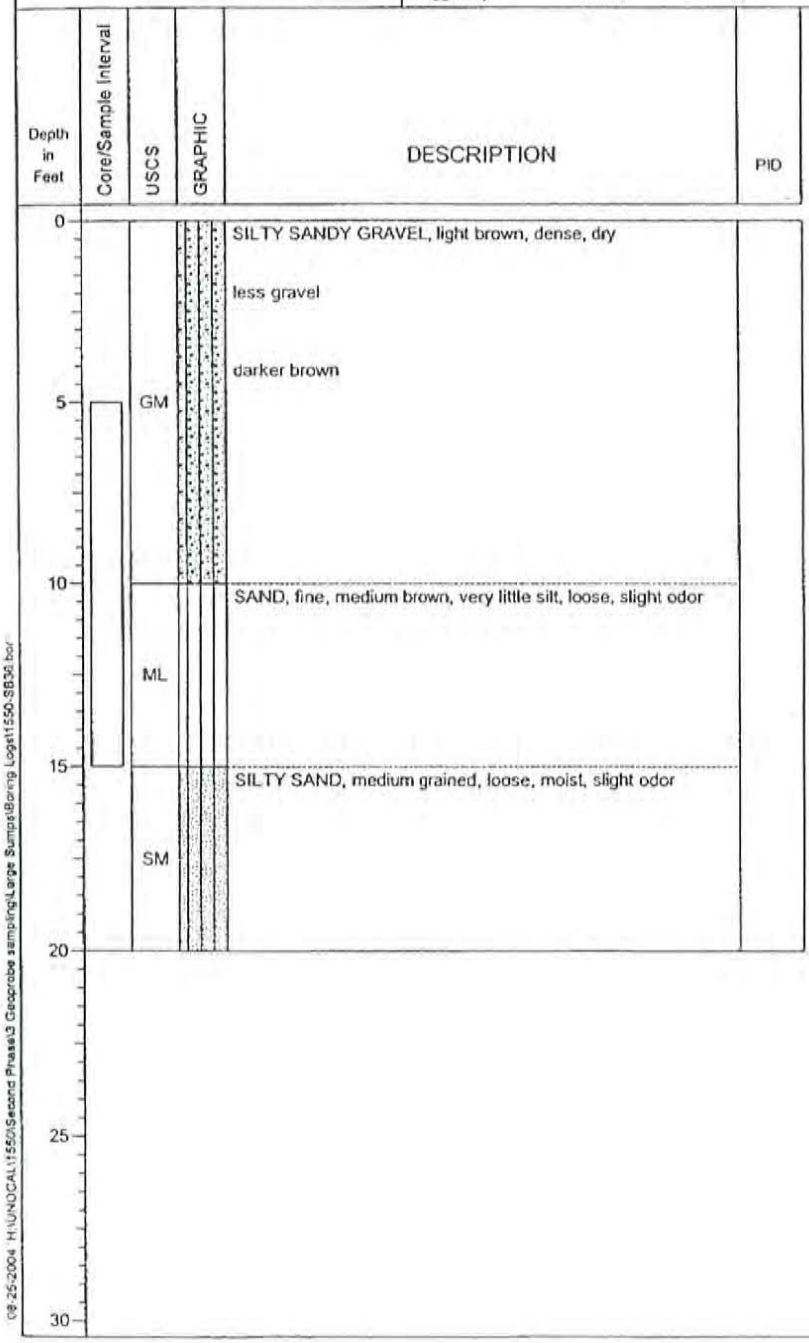
LOG OF BORING 1550-SB36

(Page 1 of 1)

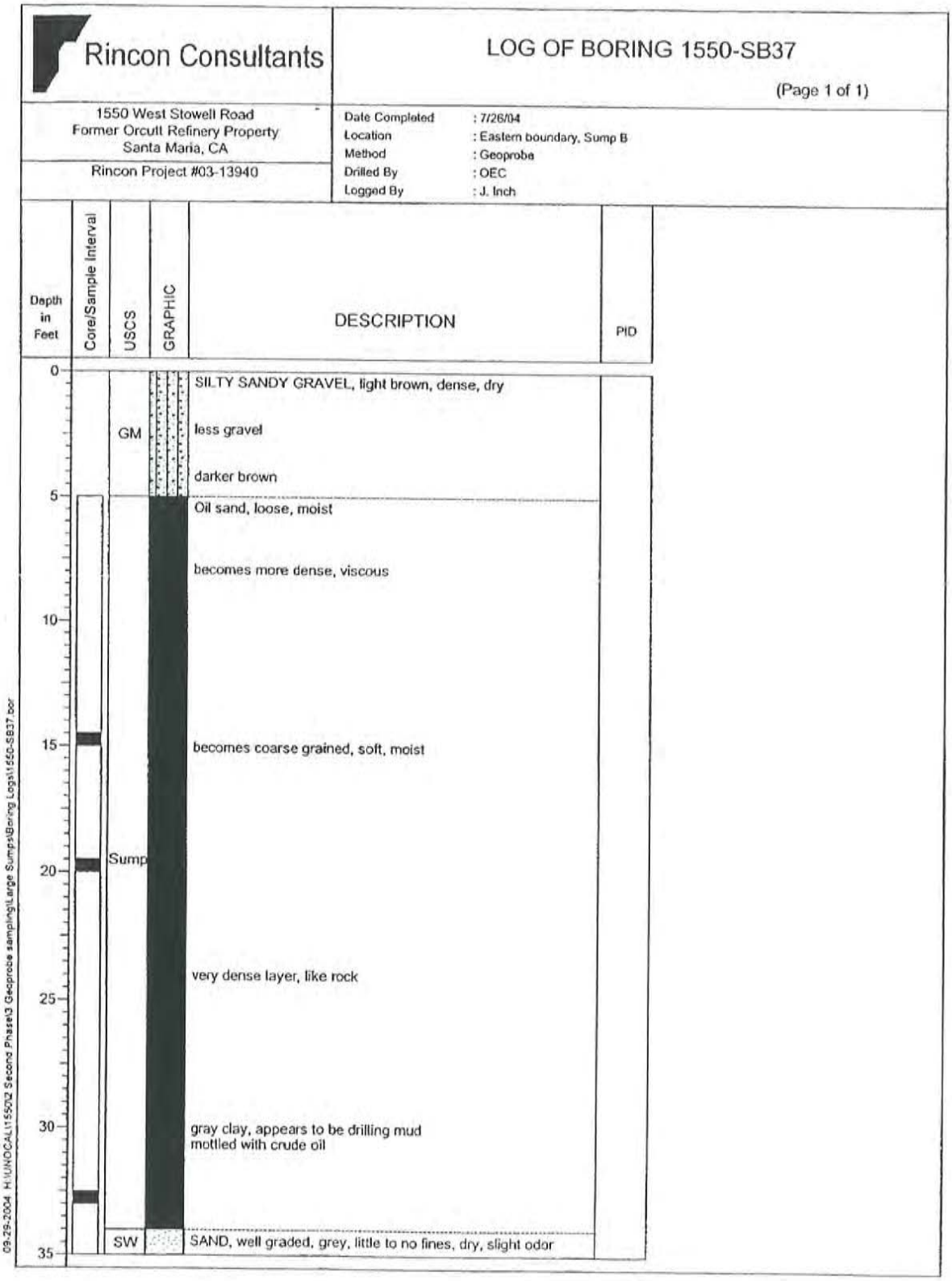
1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

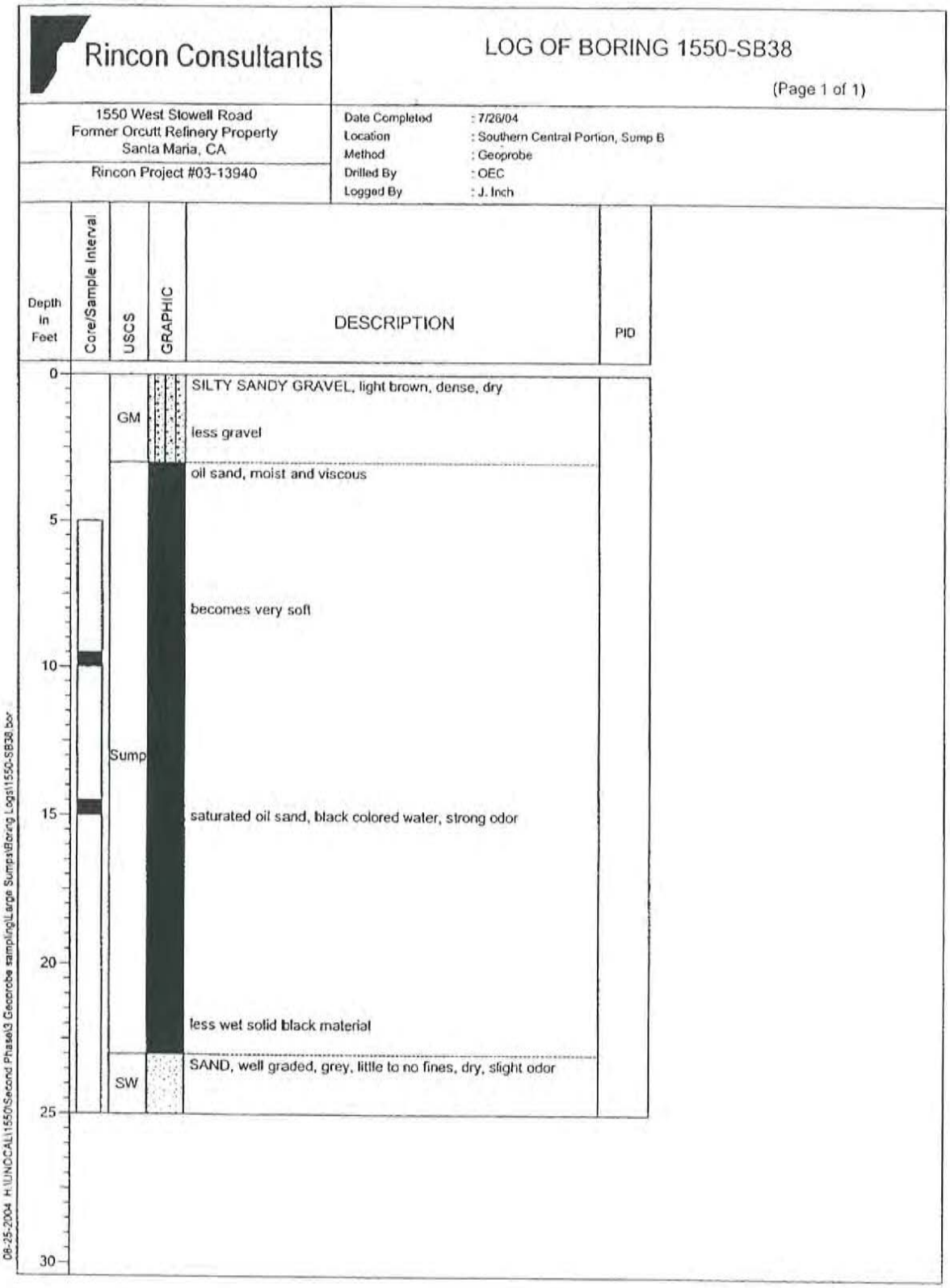
Rincon Project #03-13940

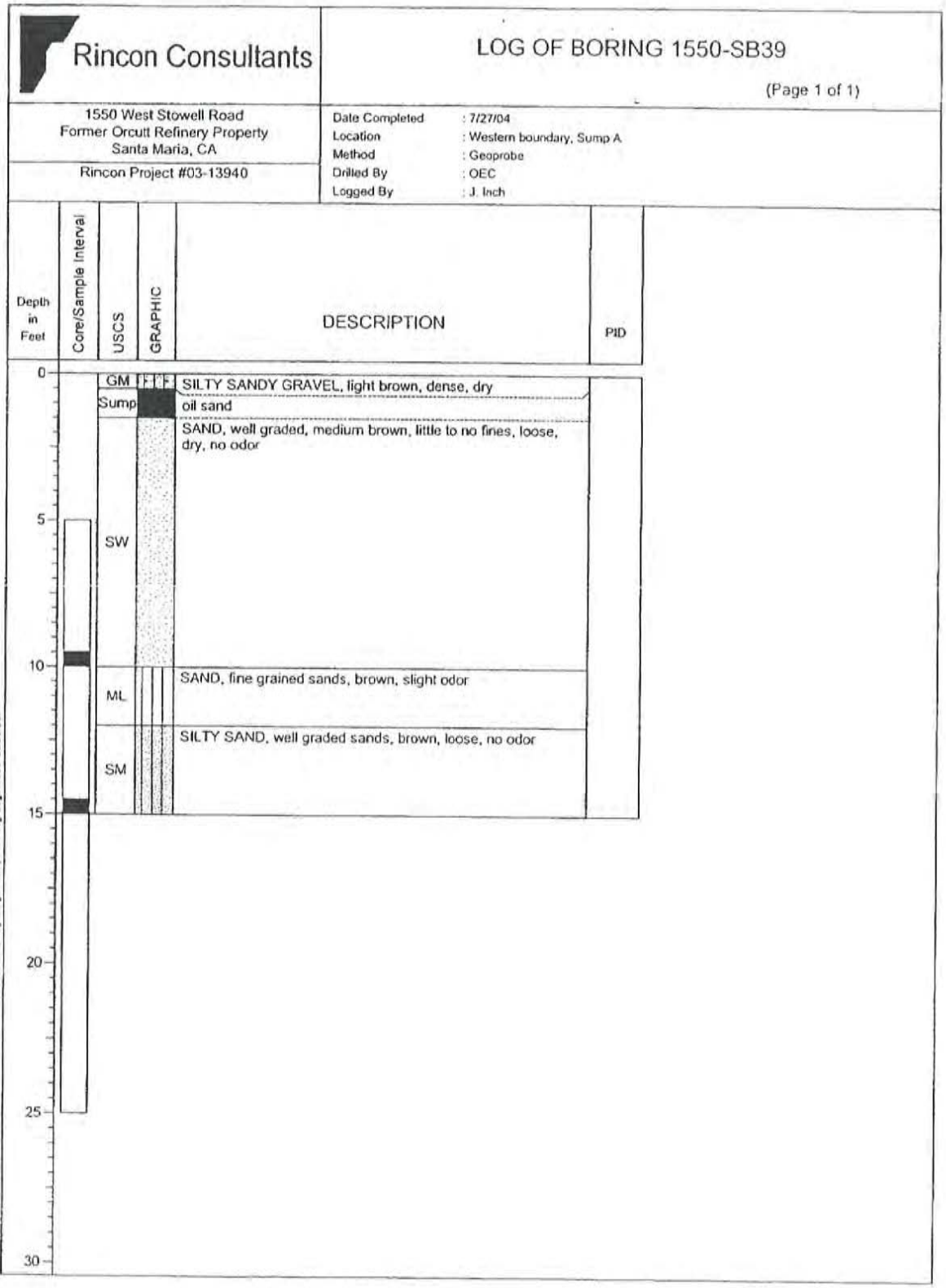
Date Completed	: 7/26/04
Location	: Eastern boundary, Sump B
Method	: Geoprobe
Drilled By	: OEC
Logged By	: J. Inch



(9/25/2004 H:\UNOCAL\1550\Second Phase\3 Geoprobe sampling\Large Sumps\Boring Logs\1550-SB36.bor


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LOG OF BORING 1550-SB37
(Page 1 of 1)
1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA
Rincon Project #03-13940
Date Completed : 7/26/04
Location : Eastern boundary, Sump B
Method : Geoprobe
Drilled By : OEC
Logged By : J. Inch
Depth in Feet
Core/Sample Interval
USCS
GRAPHIC
DESCRIPTION
PID
0
5
10
15
20
25
30
35
GM
Sump
SW
SILTY SANDY GRAVEL, light brown, dense, dry
less gravel
darker brown
Oil sand, loose, moist
becomes more dense, viscous
becomes coarse grained, soft, moist
very dense layer, like rock
gray clay, appears to be drilling mud
mottled with crude oil
SAND, well graded, grey, little to no fines, dry, slight odor
09-29-2004 H:\UNOCAL\155002 Second Phase\3 Geoprobe sampling\Large Sumps\Boring Logs\1550-SB37.bor


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LOG OF BORING 1550-SB38
(Page 1 of 1)
1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA
Rincon Project #03-13940
Date Completed : 7/26/04
Location : Southern Central Portion, Sump B
Method : Geoprobe
Drilled By : OEC
Logged By : J. Inch
Depth in Feet
Core/Sample Interval
USCS
GRAPHIC
DESCRIPTION
PID
0
5
10
15
20
25
30
GM
Sump
SW
SILTY SANDY GRAVEL, light brown, dense, dry
less gravel
oil sand, moist and viscous
becomes very soft
saturated oil sand, black colored water, strong odor
less wet solid black material
SAND, well graded, grey, little to no fines, dry, slight odor
06-25-2004 H:\UNOCAL\1550\Second Phase\3 Geoprobe sampling\Large Sumps\Boring Logs\1550-SB38.bor


Rincon Consultants
LOG OF BORING 1550-SB39
(Page 1 of 1)
1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA
Rincon Project #03-13940
Date Completed : 7/27/04
Location : Western boundary, Sump A
Method : Geoprobe
Drilled By : OEC
Logged By : J. Inch
Depth in Feet
Core/Sample Interval
USCS
GRAPHIC
DESCRIPTION
PID
0
5
10
15
20
25
30
GM
SILTY SANDY GRAVEL, light brown, dense, dry
Sump
oil sand
SW
SAND, well graded, medium brown, little to no fines, loose, dry, no odor
ML
SAND, fine grained sands, brown, slight odor
SM
SILTY SAND, well graded sands, brown, loose, no odor
08-25-2004 H:\UNOCAL\1550rs\Second Phase\3 Geoprobe sampling\Large Sumps\Boring Logs\1550-SB39.bor

Rincon Consultants

LOG OF BORING 1550-SB40

1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-13940

Date Completed	: 7/27/04
Location	: Central portion, Sump A
Method	: Geoprobe
Drilled By	: OEC
Logged By	: J. Inch

Depth in Feet	Core/Sample Interval	USCS	GRAPHIC	DESCRIPTION	PID
0		GM		SILTY SANDY GRAVEL, light brown, dense, dry	
5		Sump		oil sand with gravel viscous oily material	
10				concrete encountered refusal	
15					
20					
25					
30					

08-25-2004 H:\UNOCAL\1550\Second Phase\3 Geoprobe sampling\Large Sumps\Boring Logs\1550-SB40.bor

Rincon Consultants

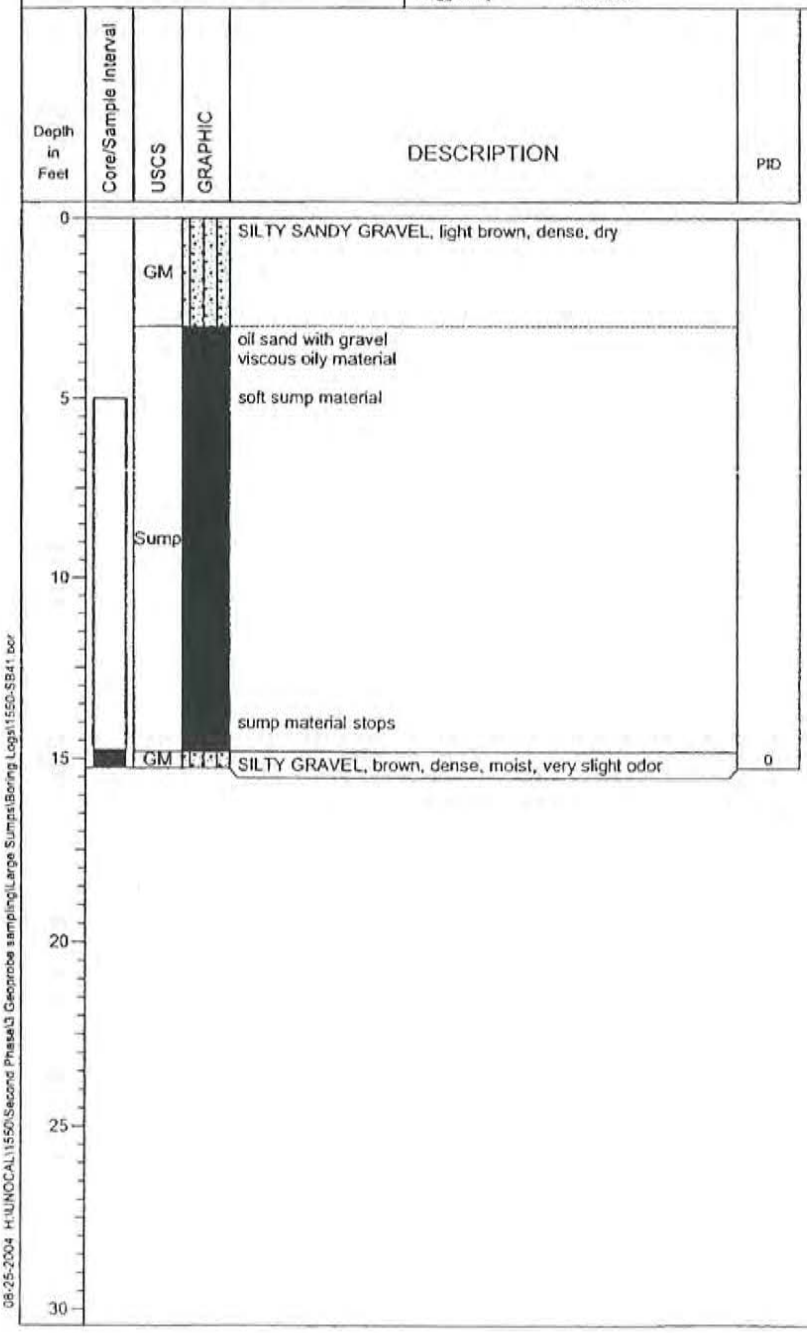
LOG OF BORING 1550-SB41

(Page 1 of 1)

1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-13940

Date Completed	: 7/27/04
Location	: Adjacent to SB40, Sump A
Method	: Geoprobe
Drilled By	: OEC
Logged By	: J. Inch



08-25-2004 H:\UNOCAL\1550\Second Phase\3 Geoprobe sampling\Large Sumps\Boring Logs\1550-SB41.bor

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LOG OF BORING 1550-SB42

(Page 1 of 1)

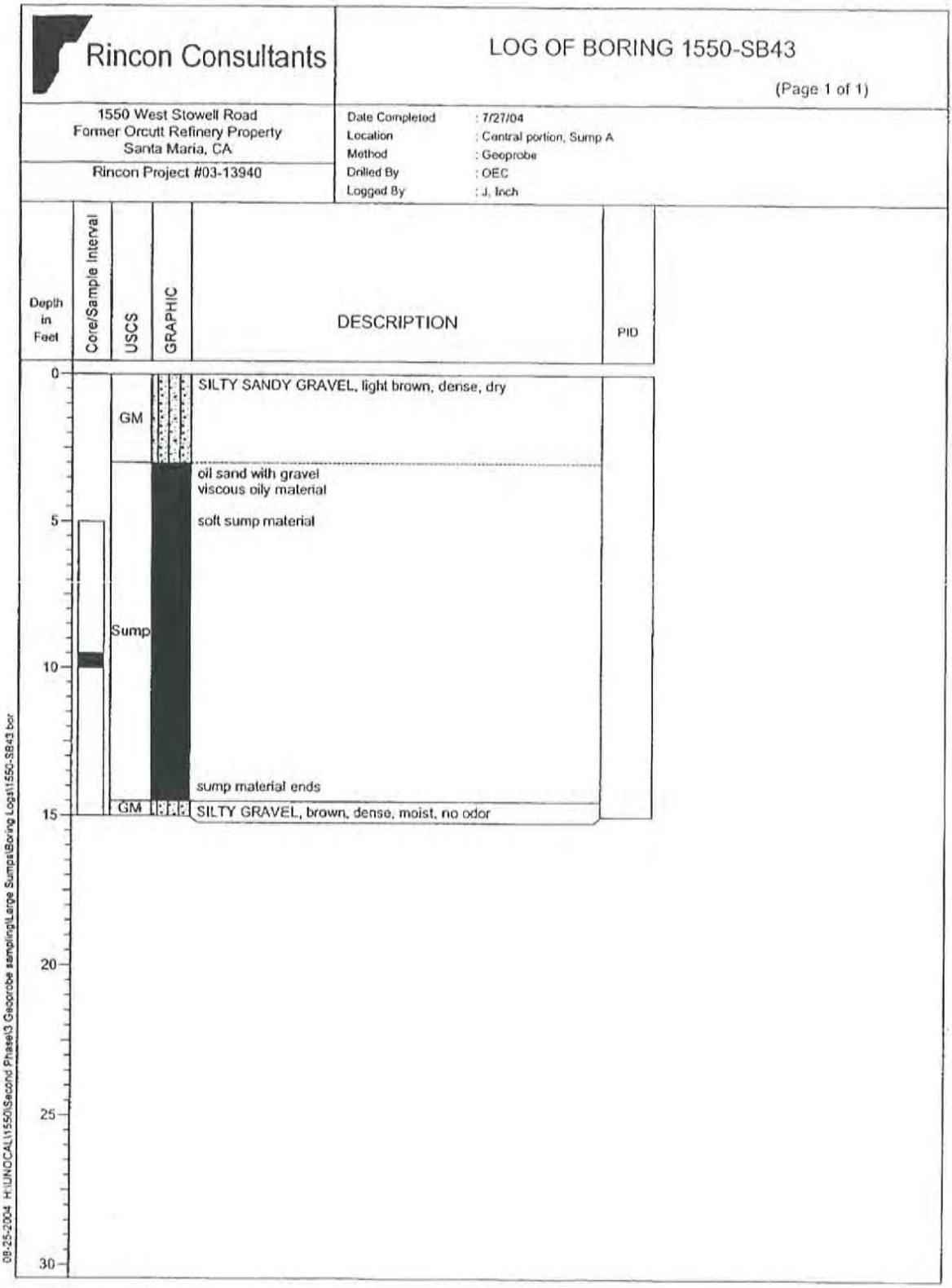
1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-13940

Date Completed	: 7/27/04
Location	: Western boundary, Sump A
Method	: Geoprobe
Drilled By	: OEC
Logged By	: J. Inch

Depth in Feet	Core/Sample Interval	USCS	GRAPHIC	DESCRIPTION	PID
0		GM		SILTY SANDY GRAVEL, light brown, dense, dry	
		Sump		oil sand	
				SAND, well graded, medium brown, little to no fines, loose, dry, no odor	
5		SW			
10					
15					
20					
25					
30					

08-25-2004 H:\UNOCAL\1550\Second Phase\3 Geoprobe sampling\Large Sumps\Boring Logs\1550-SB42.bor


Rincon Consultants
LOG OF BORING 1550-SB43
(Page 1 of 1)
1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA
Rincon Project #03-13940
Date Completed : 7/27/04
Location : Central portion, Sump A
Method : Geoprobe
Drilled By : OEC
Logged By : J. Inch
Depth in Feet
Core/Sample Interval
USCS
GRAPHIC
DESCRIPTION
PID
0
5
10
15
20
25
30
GM
SILTY SANDY GRAVEL, light brown, dense, dry
oil sand with gravel
viscous oily material
soft sump material
Sump
sump material ends
GM
SILTY GRAVEL, brown, dense, moist, no odor
09-25-2004 H:\UNOCAL\1550\Second Phase\3 Geoprobe sampling\Large Sumps\Boring Logs\1550-SB43.bor

Rincon Consultants

LOG OF BORING 1550-SB44

(Page 1 of 1)

1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-13940

Date Completed : 7/27/04
Location : Eastern portion, Sump A
Method : Geoprobe
Drilled By : OEC
Logged By : J. Inch

Depth in Feet	Core/Sample Interval	USCS	GRAPHIC	DESCRIPTION	PID
0		GM		SILTY SANDY GRAVEL, light brown, dense, dry	
		Sump		SILTY SAND with chunks of asphalt and rock, heavy oil odor concrete encountered	
5				refusal	
10					
15					
20					
25					
30					

08-25-2004 H:\UNOCAL\1550\Second Phase\3 Geoprobe sampling\Large Sumps\Boring Logs\1550-SB44.bor

U 00839

Rincon Consultants

LOG OF BORING 1550-SB45

(Page 1 of 1)

1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-13940

Date Completed	: 7/27/04
Location	: Eastern portion, Sump A
Method	: Geoprobe
Drilled By	: OEC
Logged By	: J. Inch

Depth in Feet	Core/Sample Interval	USCS	GRAPHIC	DESCRIPTION	PID
0		GM		SILTY SANDY GRAVEL, light brown, dense, dry	
5		Sump		SILTY SAND with chunks of asphalt and rock, heavy oil odor appears to be mixed fill material some concrete sand and silt mixed in	
10				becomes oily and viscous	
15					
20		SP		SAND, poorly graded, medium grained sands, moist, slight odor	
25					
30					

09-29-2004 H:\UNOCAL\1550\2 Second Phase\3 Geoprobe sampling\Large Sumps\Boring Logs\1550-SB45.bor

U 00840

Rincon Consultants

LOG OF BORING 1550-SB46

1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-13940

Date Completed	: 7/27/04
Location	: Eastern boundary, Sump A
Method	: Geoprobe
Drilled By	: OEC
Logged By	: J. Inch

Depth in Feet	Core/Sample Interval	USCS	GRAPHIC	DESCRIPTION	PID
0		GM		SILTY SANDY GRAVEL, light brown, dense, dry	
5		Sump		SILTY SAND with chunks of asphalt and rock, heavy oil odor same fill seen in the previous boring no viscous sump material encountered	
10		SP		SAND, poorly graded, medium grained sands, moist, no odor	
15					
20					
25					
30					

06-25-2004 H:\UNOCAL\1550\Second Phase\3 Geoprobe sampling\Large Sumps\Boring Logs\1550-SB46.bor

Rincon Consultants

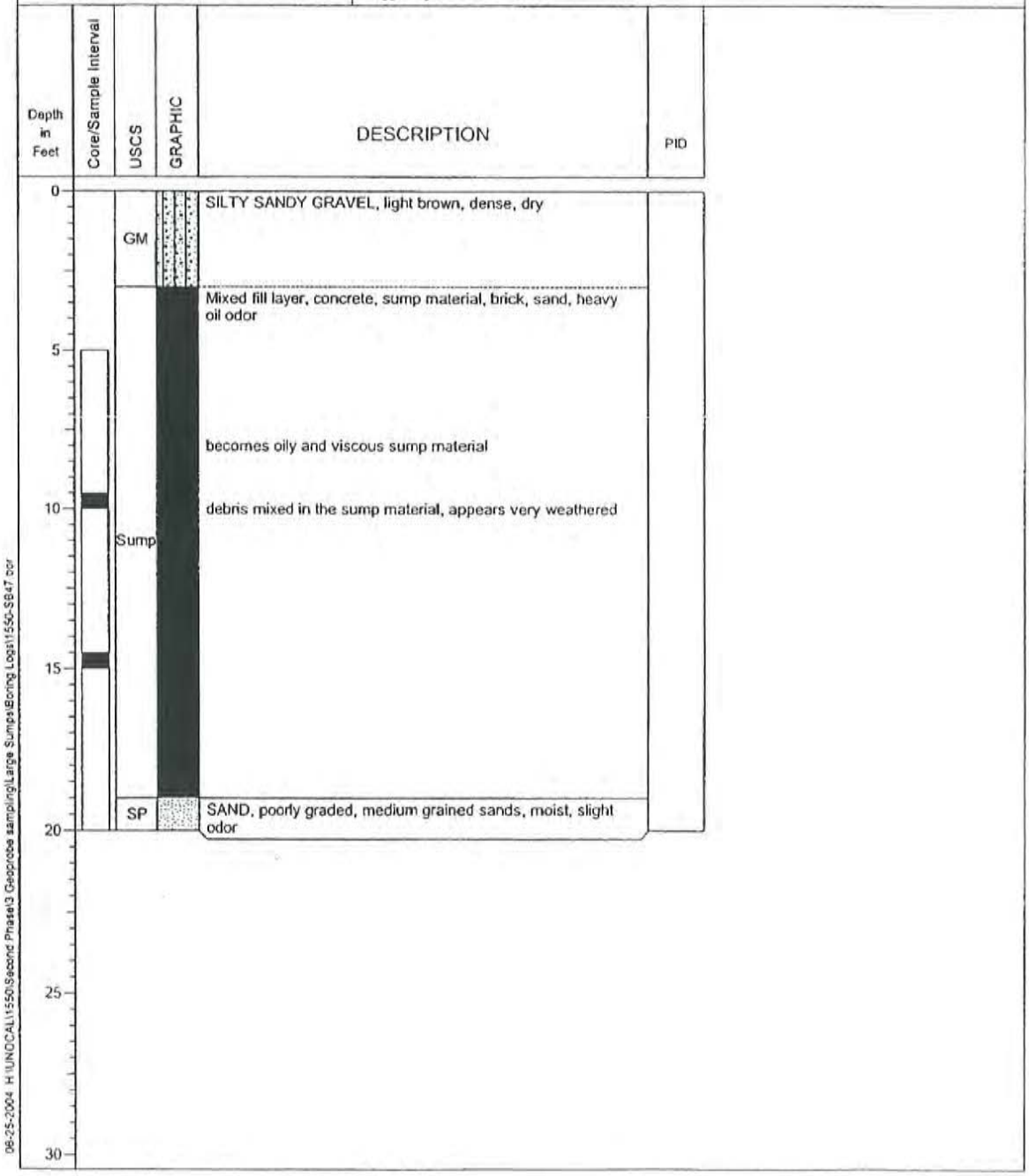
LOG OF BORING 1550-SB47

(Page 1 of 1)

1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

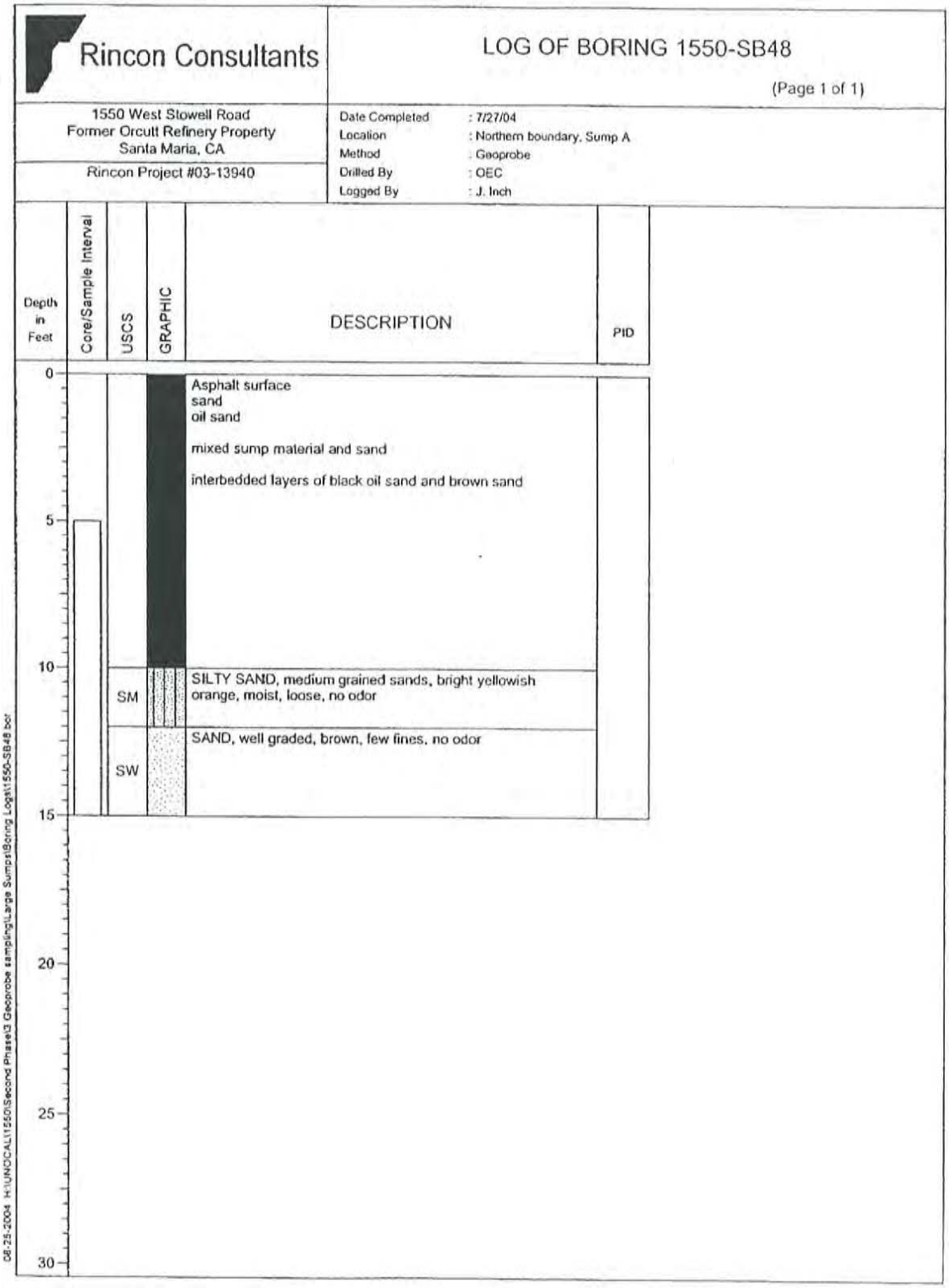
Rincon Project #03-13940

Date Completed	: 7/27/04
Location	: Eastern boundary, Sump A
Method	: Geoprobe
Drilled By	: OEC
Logged By	: J. Inch



06-25-2004 H:\UNOCAL\1550\Second Phase\3 Geoprobe sampling\Large Sumps\Boring Logs\1550-SB47.cor

U 00842


Rincon Consultants
LOG OF BORING 1550-SB48
(Page 1 of 1)
1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA
Rincon Project #03-13940
Date Completed : 7/27/04
Location : Northern boundary, Sump A
Method : Geoprobe
Drilled By : OEC
Logged By : J. Inch
Depth in Feet
Core/Sample Interval
USCS
GRAPHIC
DESCRIPTION
PID
0
5
10
15
20
25
30
Asphalt surface
sand
oil sand
mixed sump material and sand
interbedded layers of black oil sand and brown sand
SM
SILTY SAND, medium grained sands, bright yellowish orange, moist, loose, no odor
SW
SAND, well graded, brown, few fines, no odor
08-25-2004 H:\UNOCAL\1550\Second Phase\3 Geoprobe sampling\Large Sumps\Boring Logs\1550-SB48.bor

Rincon Consultants

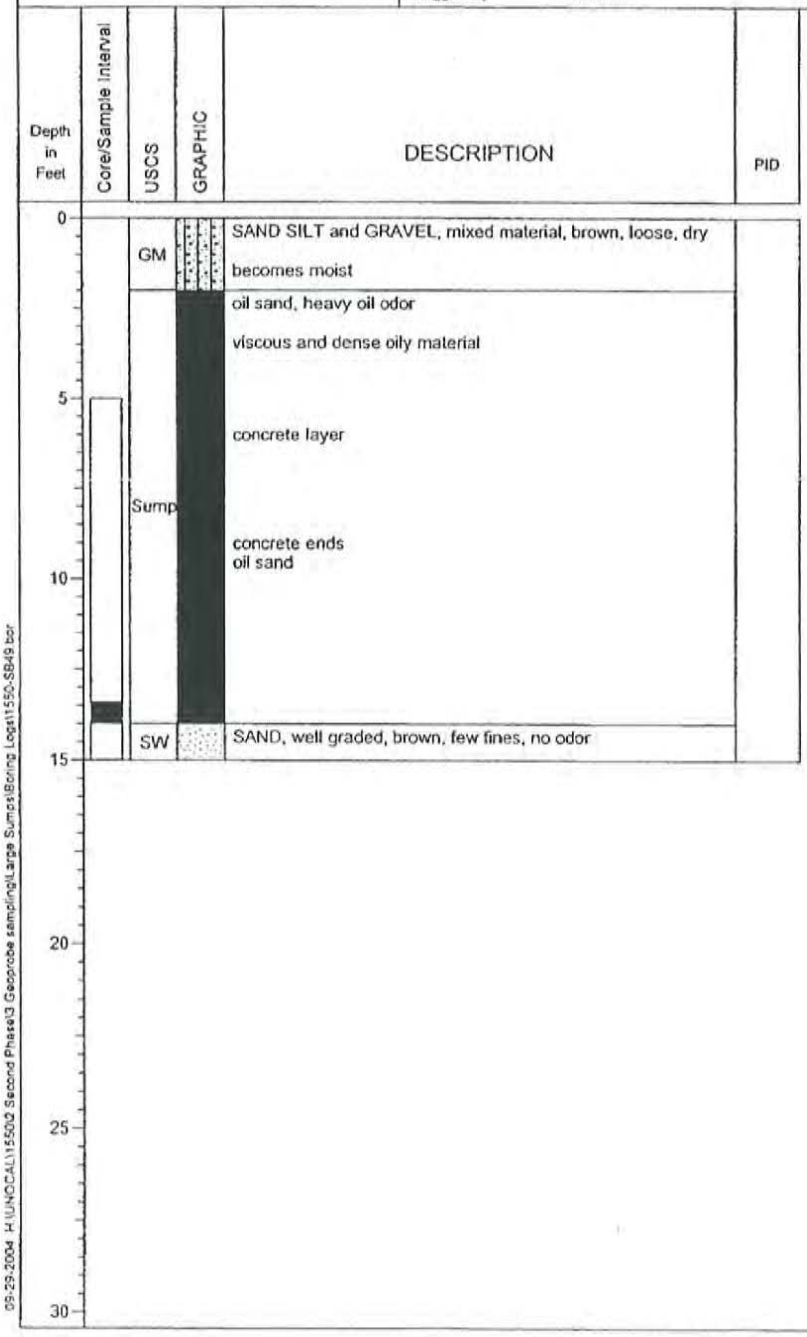
LOG OF BORING 1550-SB49

(Page 1 of 1)

1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-13940

Date Completed : 7/27/04
Location : Northern central portion, Sump A
Method : Geoprobe
Drilled By : OEC
Logged By : J. Inch



05-29-2004 H:\UNOCAL\1550\2 Second Phase\3 Geoprobe sampling\Large Sumps\Boring Logs\1550-SB49.bor

Rincon Consultants

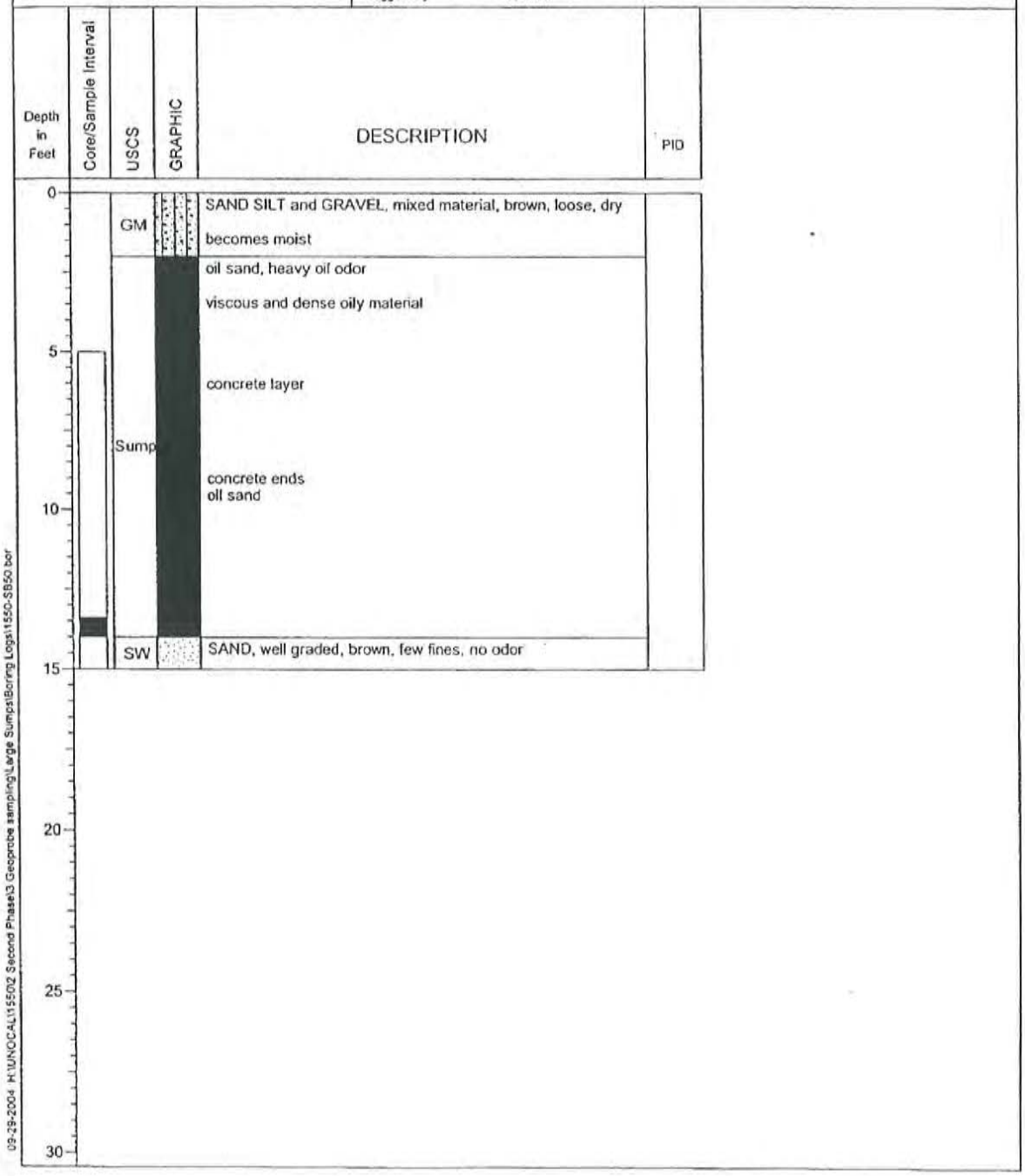
LOG OF BORING 1550-SB50

(Page 1 of 1)

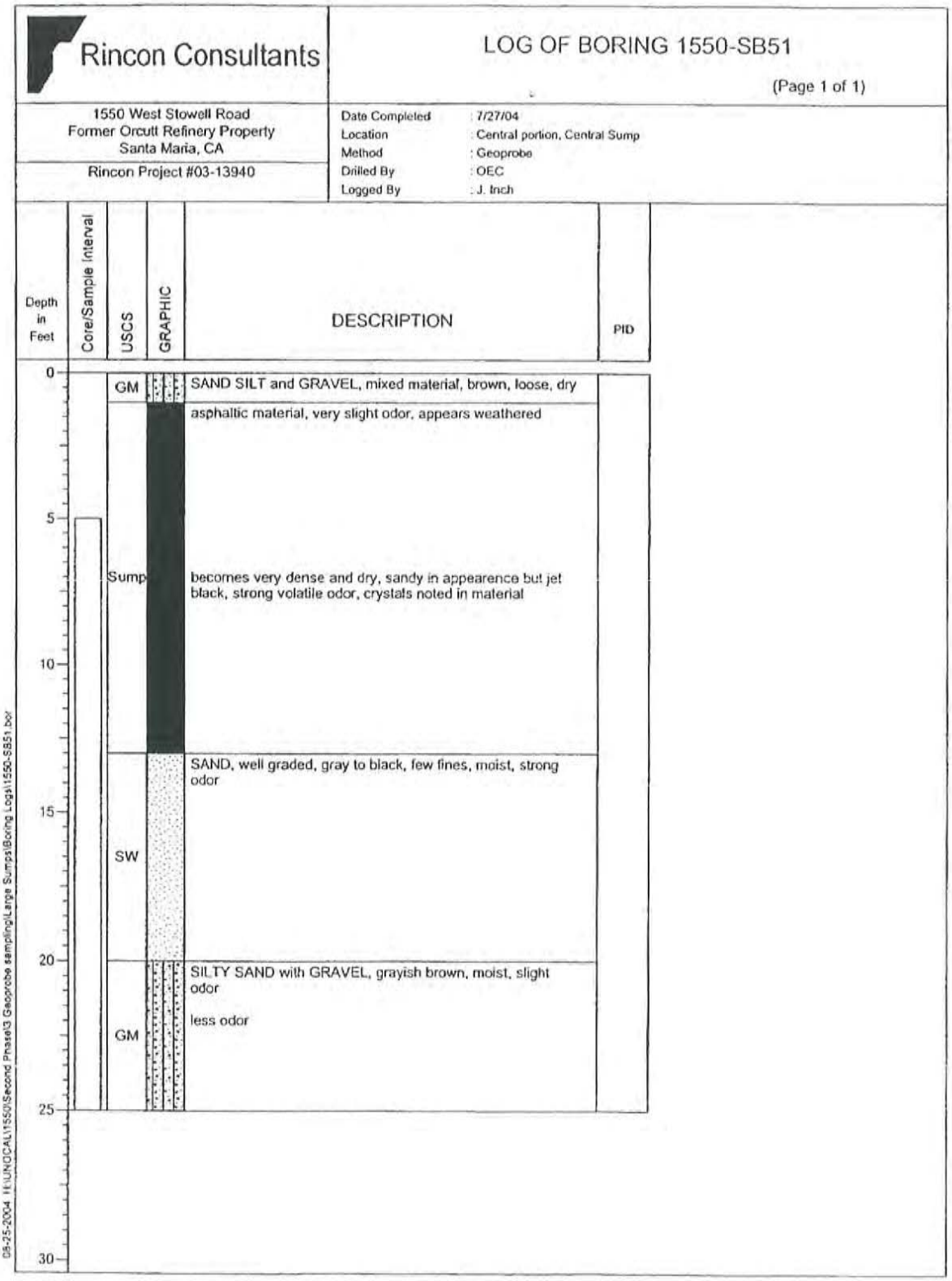
1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

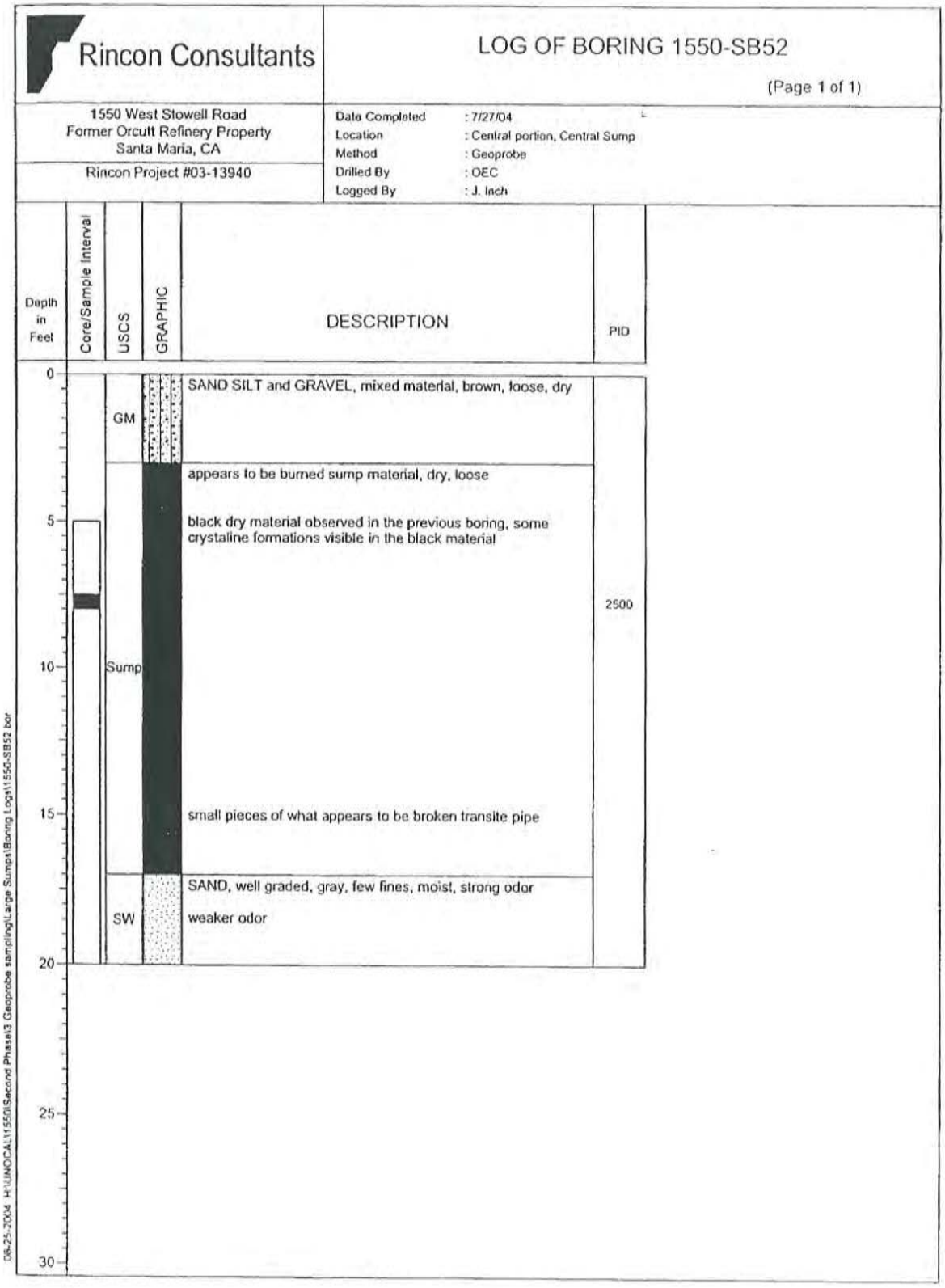
Rincon Project #03-13940

Date Completed	: 7/27/04
Location	: Northern central portion, Sump A
Method	: Geoprobe
Drilled By	: OEC
Logged By	: J. Inch



03-29-2004 H:\UNOCAL\155002 Second Phase\3 Geoprobe sampling\Large Sumps\Boring Logs\1550-SB50.bor


Rincon Consultants
LOG OF BORING 1550-SB51
(Page 1 of 1)
1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA
Rincon Project #03-13940
Date Completed : 7/27/04
Location : Central portion, Central Sump
Method : Geoprobe
Drilled By : OEC
Logged By : J. Inch
Depth in Feet
Core/Sample Interval
USCS
GRAPHIC
DESCRIPTION
PID
0
5
10
15
20
25
30
GM
SAND SILT and GRAVEL, mixed material, brown, loose, dry
asphaltic material, very slight odor, appears weathered
Sump
becomes very dense and dry, sandy in appearence but jet black, strong volatile odor, crystals noted in material
SW
SAND, well graded, gray to black, few fines, moist, strong odor
GM
SILTY SAND with GRAVEL, grayish brown, moist, slight odor
less odor
05-25-2004 H:\UNOCAL\1550\Second Phase\3 Geoprobe sampling\Large Sumps\Boring Logs\1550-SB51.bor


Rincon Consultants
LOG OF BORING 1550-SB52
(Page 1 of 1)
1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA
Rincon Project #03-13940
Date Completed : 7/27/04
Location : Central portion, Central Sump
Method : Geoprobe
Drilled By : OEC
Logged By : J. Inch
Depth in Feet
Core/Sample Interval
USCS
GRAPHIC
DESCRIPTION
PID
0
5
10
15
20
25
30
GM
Sump
SW
SAND SILT and GRAVEL, mixed material, brown, loose, dry
appears to be burned sump material, dry, loose
black dry material observed in the previous boring, some crystaline formations visible in the black material
2500
small pieces of what appears to be broken transite pipe
SAND, well graded, gray, few fines, moist, strong odor
weaker odor
06-25-2004 H:\UNOCAL\1550\Second Phase\3 Geoprobe sampling\Large Sumps\Boring Logs\1550-SB52.bor

Rincon Consultants

LOG OF BORING 1550-SB53

(Page 1 of 1)

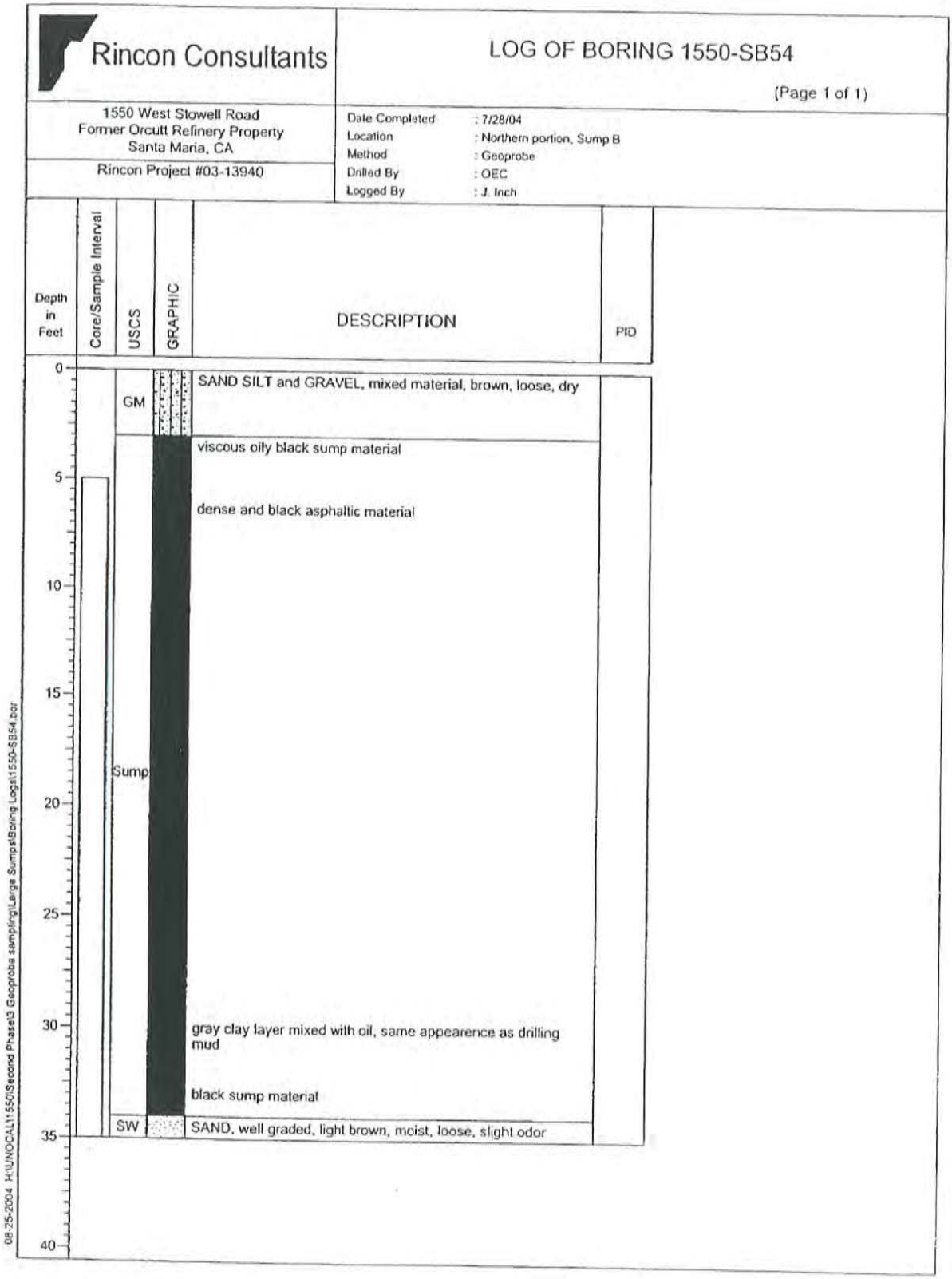
1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-13940

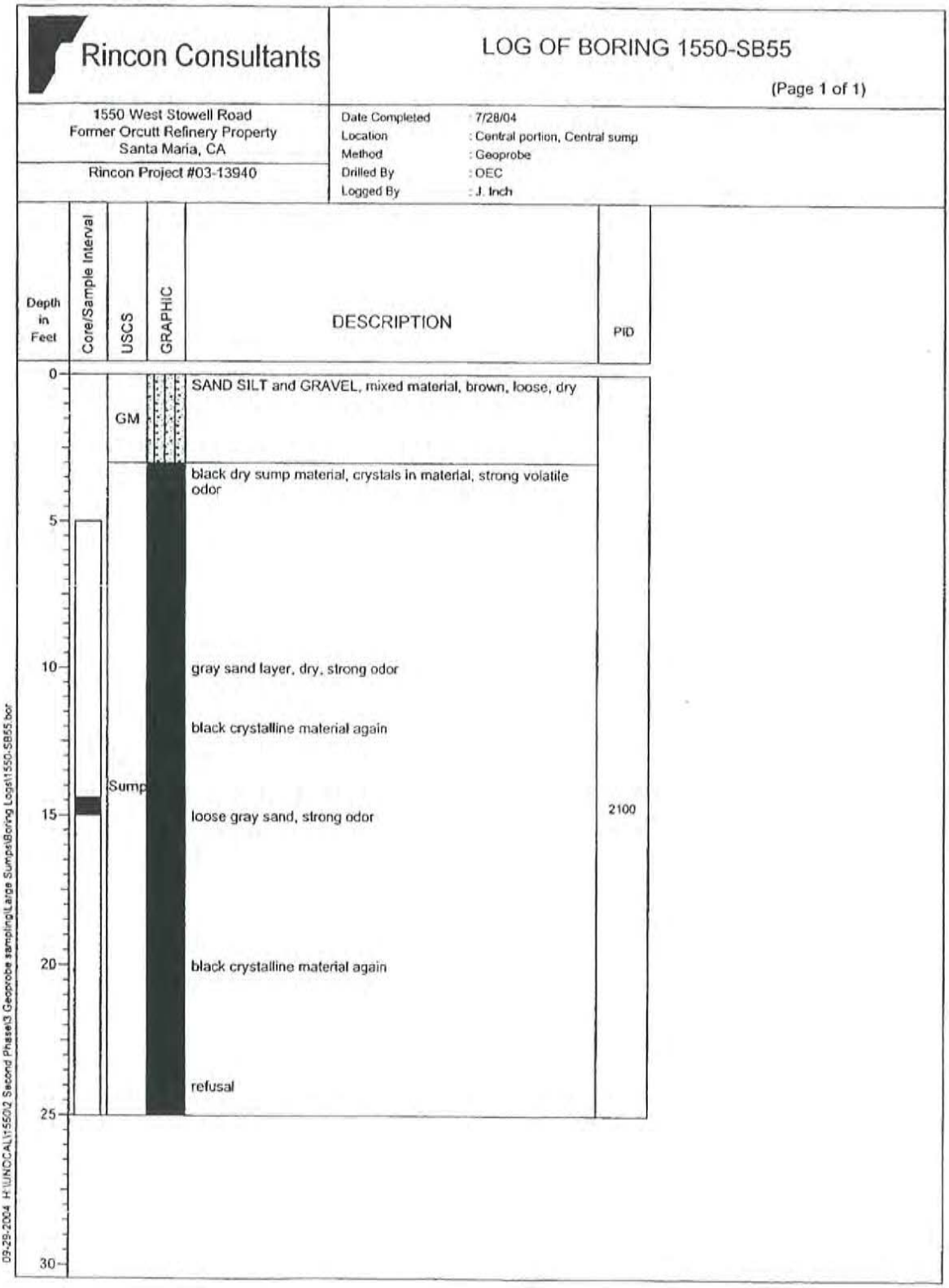
Date Completed	: 7/27/04
Location	: Southern portion, Central Sump
Method	: Geoprobe
Drilled By	: OEC
Logged By	: J. Inch

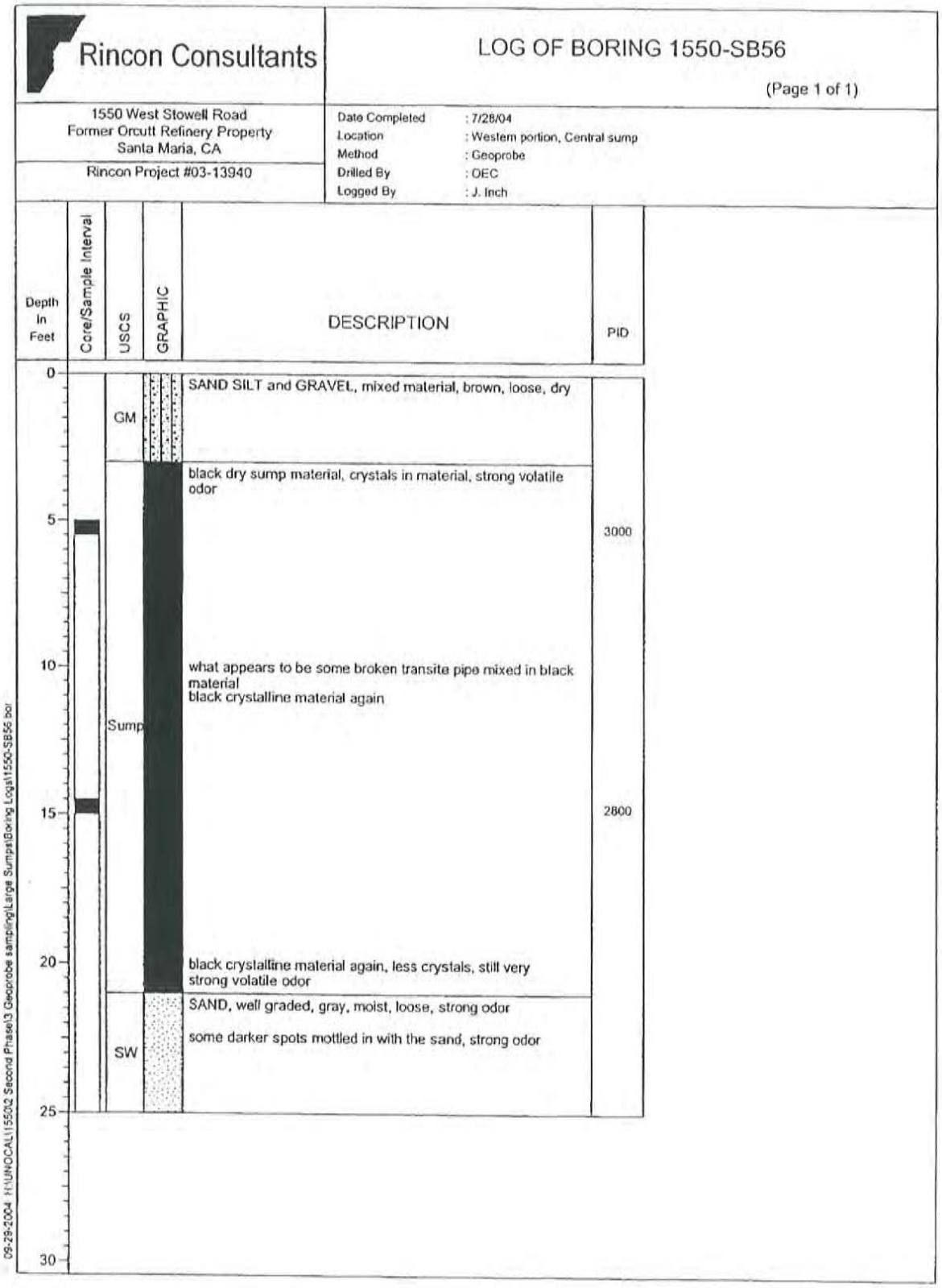
Depth in Feet	Core/Sample Interval	USCS	GRAPHIC	DESCRIPTION	PID
0		GM		SAND SILT and GRAVEL, mixed material, brown, loose, dry	
		Sump		viscous oily black sump material	
5				extremely dense black dry sandy material, strong volatile odor, crystals	
10				refusal	
15					
20					
25					
30					

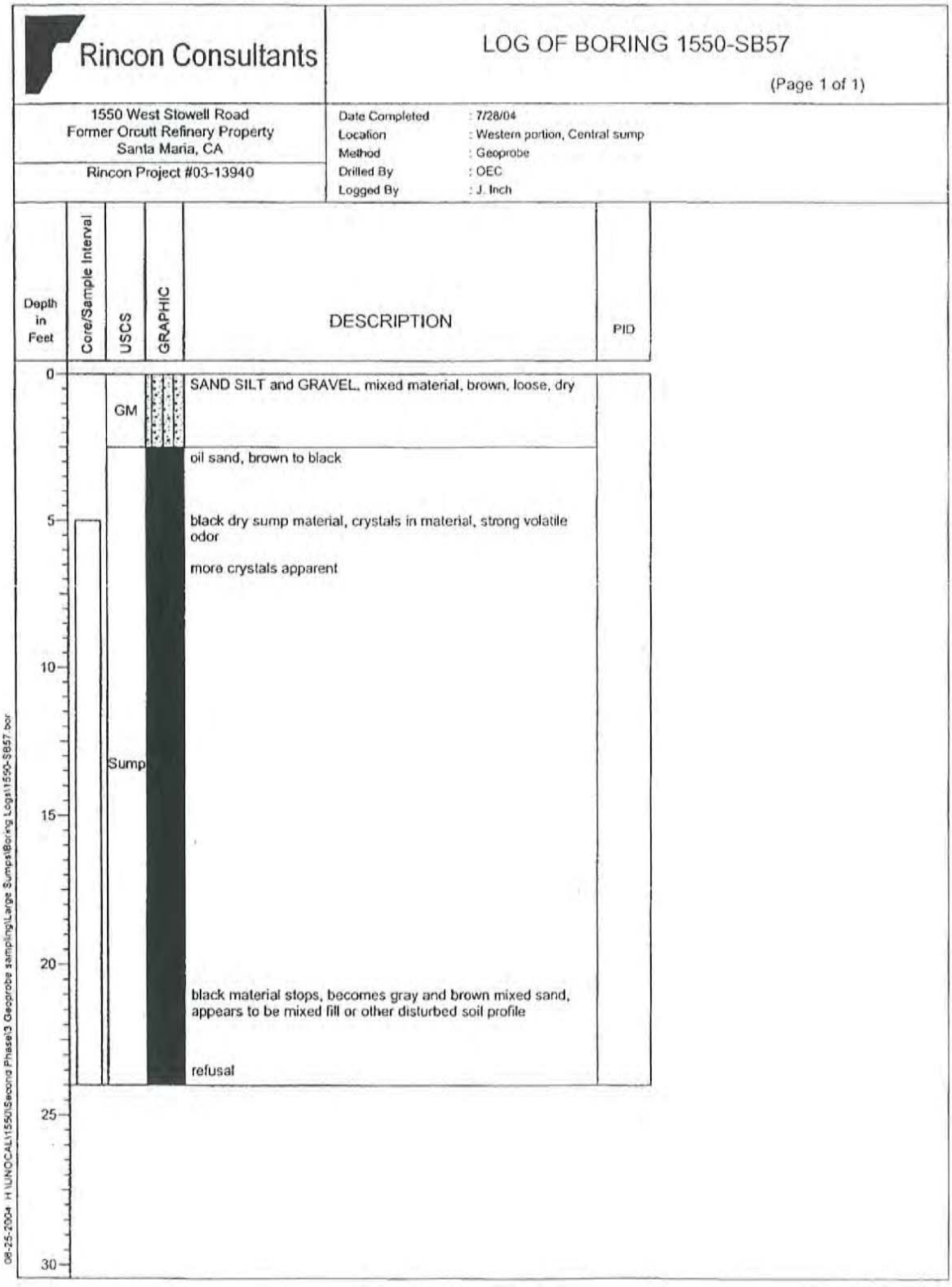
08-25-2004 H:\UNOCAL\1550\Second Phase\3 Geoprobe sampling\Large Sumps\Boring Logs\1550-SB53.bor


Rincon Consultants
LOG OF BORING 1550-SB54
(Page 1 of 1)
1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA
Rincon Project #03-13940
Date Completed : 7/28/04
Location : Northern portion, Sump B
Method : Geoprobe
Drilled By : OEC
Logged By : J. Inch
Depth in Feet
Core/Sample Interval
USCS
GRAPHIC
DESCRIPTION
PID
0
5
10
15
20
25
30
35
40
GM
Sump
SW
SAND SILT and GRAVEL, mixed material, brown, loose, dry
viscous oily black sump material
dense and black asphaltic material
gray clay layer mixed with oil, same appearence as drilling mud
black sump material
SAND, well graded, light brown, moist, loose, slight odor
08-25-2004 H:\UNOCAL\1550\Second Phase\3 Geoprobe sampling\Large Sumps\Boring Logs\1550-SB54.bor

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Rincon Consultants
LOG OF BORING 1550-SB55
(Page 1 of 1)
1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA
Rincon Project #03-13940
Date Completed : 7/28/04
Location : Central portion, Central sump
Method : Geoprobe
Drilled By : OEC
Logged By : J. Inch
Depth in Feet
Core/Sample Interval
USCS
GRAPHIC
DESCRIPTION
PID
0
5
10
15
20
25
30
GM
Sump
SAND SILT and GRAVEL, mixed material, brown, loose, dry
black dry sump material, crystals in material, strong volatile odor
gray sand layer, dry, strong odor
black crystalline material again
loose gray sand, strong odor
black crystalline material again
refusal
2100
09-29-2004 H:\UNOCAL\1550\2 Second Phase\3 Geoprobe sampling\Large Sumps\Boring Logs\1550-SB55.bor


Rincon Consultants
LOG OF BORING 1550-SB56
(Page 1 of 1)
1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA
Rincon Project #03-13940
Date Completed : 7/28/04
Location : Western portion, Central sump
Method : Geoprobe
Drilled By : OEC
Logged By : J. Inch
Depth In Feet
Core/Sample Interval
USCS
GRAPHIC
DESCRIPTION
PID
0
5
10
15
20
25
30
GM
Sump
SW
SAND SILT and GRAVEL, mixed material, brown, loose, dry
black dry sump material, crystals in material, strong volatile odor
3000
what appears to be some broken transite pipe mixed in black material
black crystalline material again
2800
black crystalline material again, less crystals, still very strong volatile odor
SAND, well graded, gray, moist, loose, strong odor
some darker spots mottled in with the sand, strong odor
09-29-2004 H:\UNOCAL\155302 Second Phase\3 Geoprobe sampling\Large Sumps\Boring Logs\1550-SB56.bor


Rincon Consultants
LOG OF BORING 1550-SB57
(Page 1 of 1)
1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA
Rincon Project #03-13940
Date Completed : 7/28/04
Location : Western portion, Central sump
Method : Geoprobe
Drilled By : OEC
Logged By : J. Inch
Depth in Feet
Core/Sample Interval
USCS
GRAPHIC
DESCRIPTION
PID
0
5
10
15
20
25
30
GM
Sump
SAND SILT and GRAVEL, mixed material, brown, loose, dry
oil sand, brown to black
black dry sump material, crystals in material, strong volatile odor
more crystals apparent
black material stops, becomes gray and brown mixed sand, appears to be mixed fill or other disturbed soil profile
refusal
08-25-2004 H:\UNOCAL\1550\Second Phase\3 Geoprobe sampling\Large Sumps\Boring Logs\1550-SB57.bor

Rincon Consultants

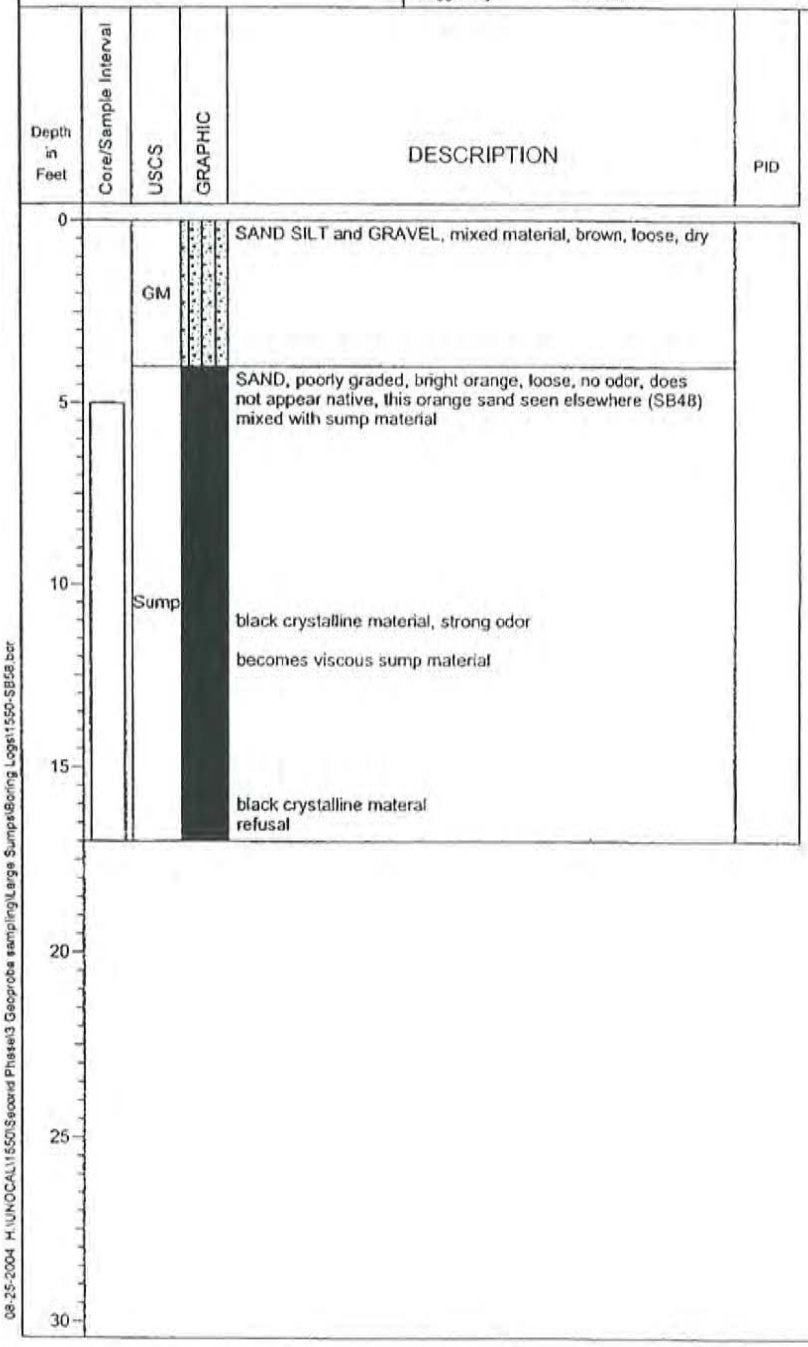
LOG OF BORING 1550-SB58

(Page 1 of 1)

1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-13940

Date Completed : 7/28/04
Location : Western boundary, Central sump
Method : Geoprobe
Drilled By : OEC
Logged By : J. Inch



08-25-2004 H:\UNOCAL\1550\Second Phase\3 Geoprobe sampling\Large Sumps\Boring Logs\1550-SB58.bor

Rincon Consultants

LOG OF BORING 1550-SB59

(Page 1 of 1)

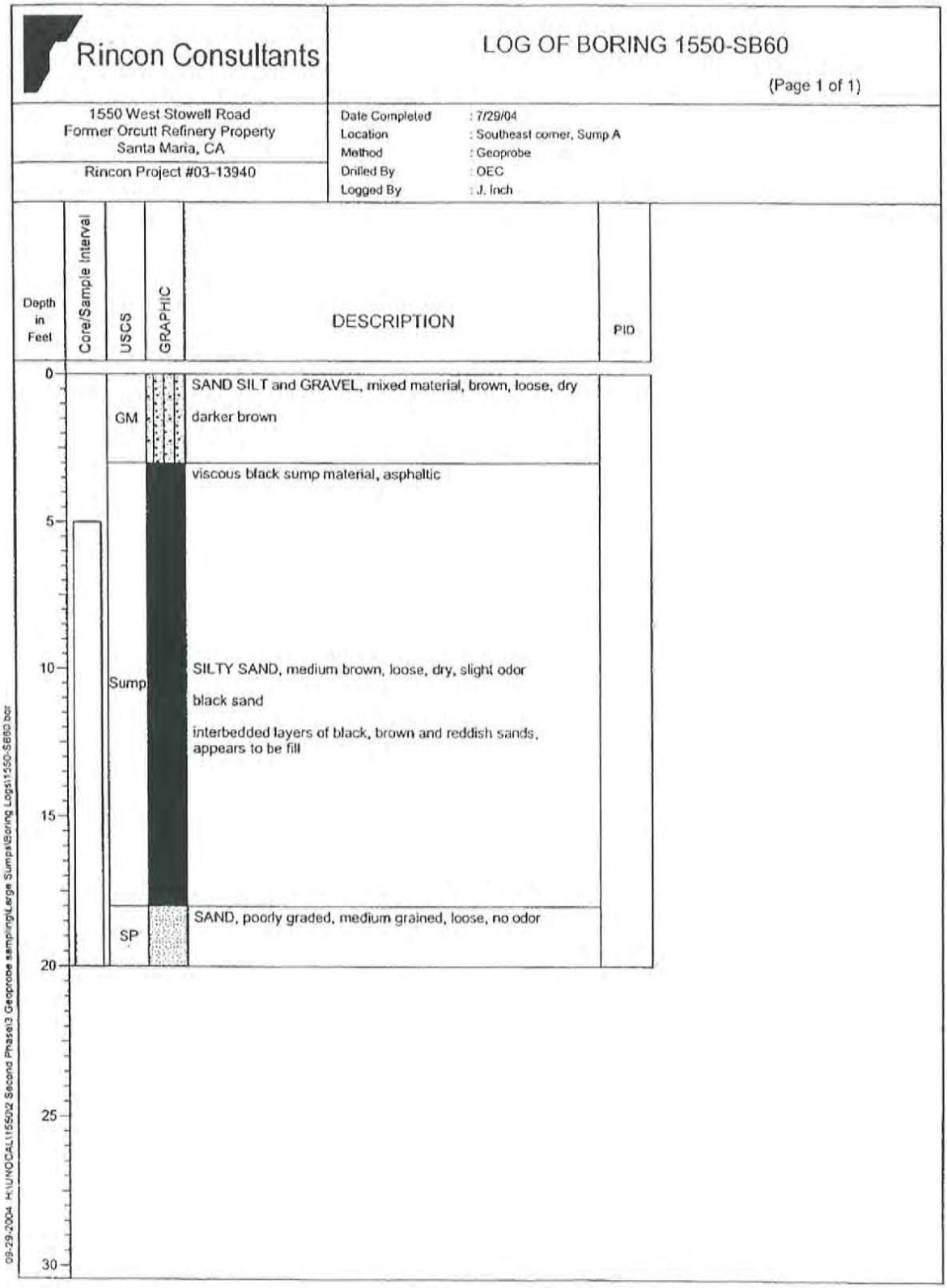
1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-13940

Date Completed : 7/29/04
Location : Northern portion, Central sump
Method : Geoprobe
Drilled By : OEC
Logged By : J. Inch

Depth in Feet	Core/Sample Interval	USCS	GRAPHIC	DESCRIPTION	PID
0		GM		SAND SILT and GRAVEL, mixed material, brown, loose, dry	
				darker brown	
5		Sump		black crystalline material, strong odor	
				white with crystals very dense less crystals	
10					
15					
20				SILTY SAND, gray, mixed with sump material, moist, strong odor	
				mixed fill and sump material	
25					
		CL		CLAY, light brown to yellow, dense, plastic, strong petroleum odor	
30					

09-29-2004 H:\UNOCAL\1550\2 Second Phase\3 Geoprobe sampling\Large Sumps\Boring Logs\1550-SB59.bor


Rincon Consultants
LOG OF BORING 1550-SB60
(Page 1 of 1)
1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA
Rincon Project #03-13940
Date Completed : 7/29/04
Location : Southeast corner, Sump A
Method : Geoprobe
Drilled By : OEC
Logged By : J. Inch
Depth in Feet
Core/Sample Interval
USCS
GRAPHIC
DESCRIPTION
PID
0
5
10
15
20
25
30
GM
SAND SILT and GRAVEL, mixed material, brown, loose, dry
darker brown
viscous black sump material, asphaltic
Sump
SILTY SAND, medium brown, loose, dry, slight odor
black sand
interbedded layers of black, brown and reddish sands, appears to be fill
SP
SAND, poorly graded, medium grained, loose, no odor
09-29-2004 H:\UNOCAL\155002 Second Phase\3 Geoprobe sampling\Large Sumps\Boring Logs\1550-SB60.bor

Rincon Consultants

LOG OF BORING 1550-SB61

1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-13940

Date Completed	: 7/29/04
Location	: Northeast boundary, Sump C
Method	: Geoprobe
Drilled By	: OEC
Logged By	: J. Inch

Depth in Feet	Core/Sample Interval	USCS	GRAPHIC	DESCRIPTION	PID
0		GM		SAND SILT and GRAVEL, mixed material, brown, loose, dry	
5		SW		SAND and GRAVEL, rounded pea gravel, well graded, light brown, dense, moist, no odor	
10		SP		SAND, poorly graded, medium grained, loose, moist, no odor	
15					
20					
25					
30					

09-29-2004 H:\UNOCAL\1550\2 Second Phase\3 Geoprobe sampling\Large Sumps\Boring Logs\1550-SB61.bor

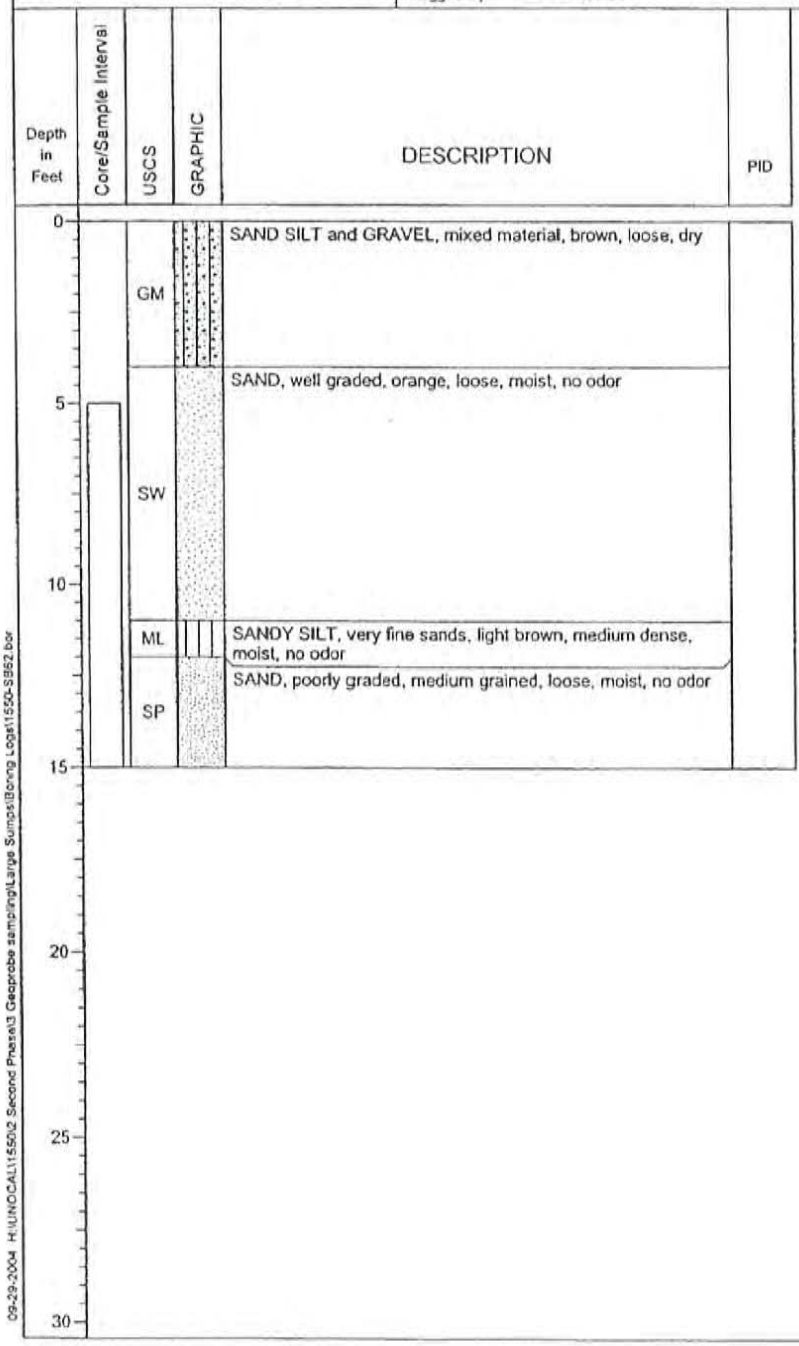
Rincon Consultants

LOG OF BORING 1550-SB62

1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-13940

Date Completed	: 7/29/04
Location	: Northeast boundary, Sump C
Method	: Geoprobe
Drilled By	: OEC
Logged By	: J. Inch



09-29-2004 H:\UNOCAL\1550\2 Second Phase\3 Geoprobe sampling\Large Sumps\Boring Logs\1550-SB62.bor

Rincon Consultants

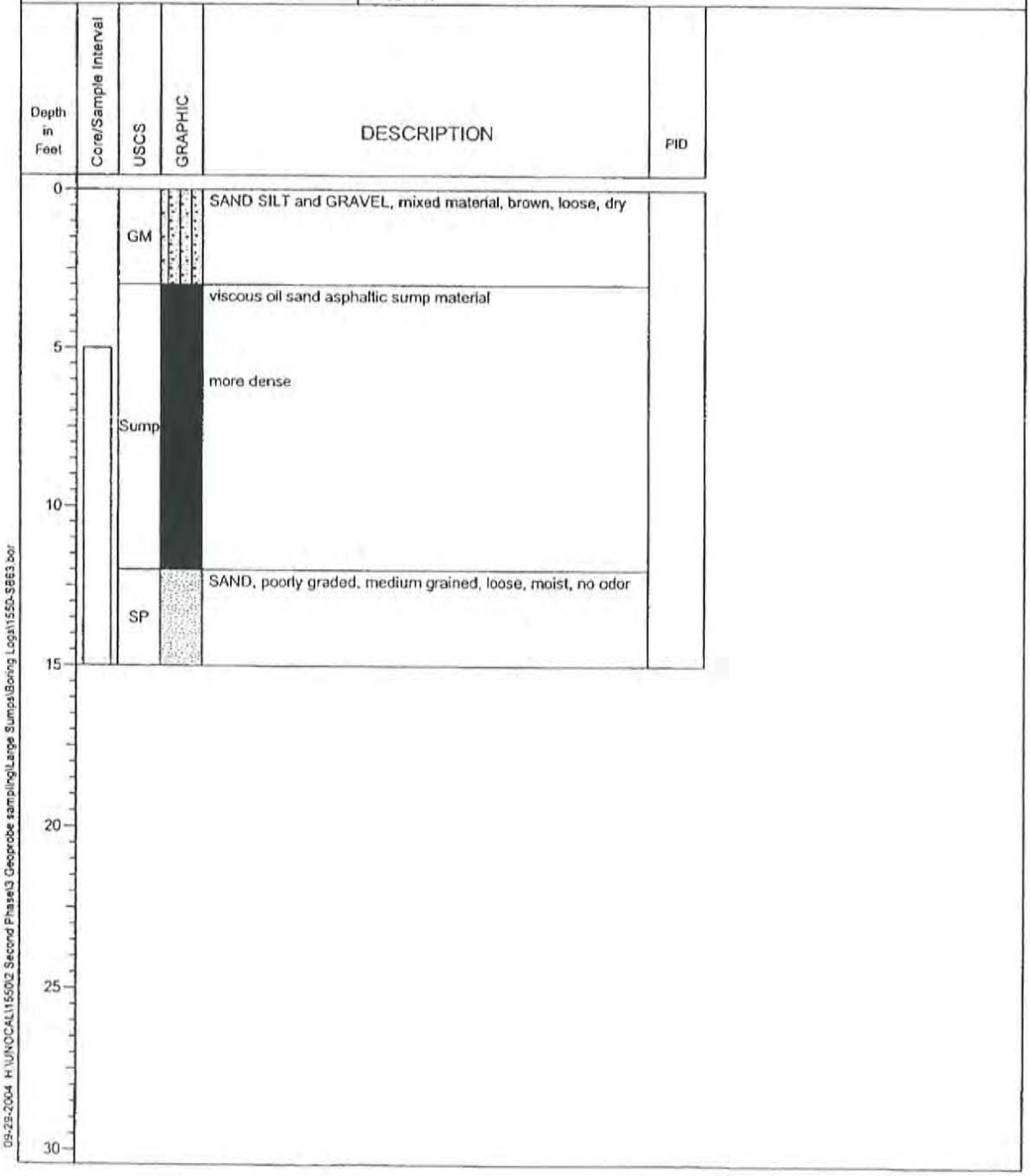
LOG OF BORING 1550-SB63

(Page 1 of 1)

1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-13940

Date Completed	: 7/29/04
Location	: Northeast Portion, Sump C
Method	: Geoprobe
Drilled By	: OEC
Logged By	: J. Inch



09-29-2004 H:\UNOCAL\155092 Second Phase\3 Geoprobe sampling\Large Sumps\Boring Logs\1550-SB63.bor

Rincon Consultants

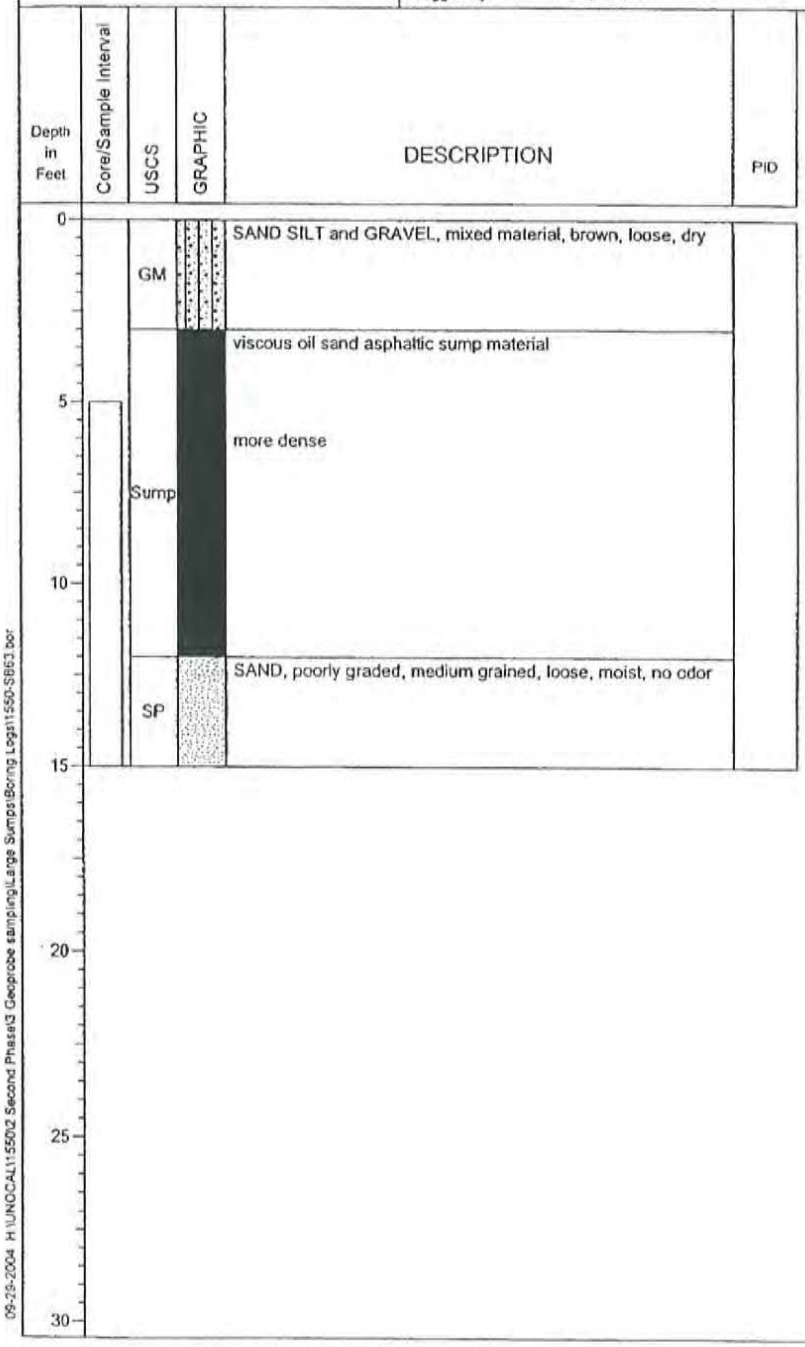
LOG OF BORING 1550-SB64

(Page 1 of 1)

1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-13940

Date Completed	: 7/29/04
Location	: Northeast Portion, Sump C
Method	: Geoprobe
Drilled By	: OEC
Logged By	: J. Inch



09-29-2004 H:\UNOCAL\155002 Second Phase\3 Geoprobe sampling\Large Sumps\Boring Logs\1550-SB63.bor

Rincon Consultants

LOG OF BORING 1550-SB65

(Page 1 of 1)

1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-13940

Date Completed	: 7/29/04
Location	: Eastern boundary, Central sump
Method	: Geoprobe
Drilled By	: OEC
Logged By	: J. Inch

Depth in Feet	Core/Sample Interval	USCS	GRAPHIC	DESCRIPTION	PID
0		GM		SAND SILT and GRAVEL, mixed material, brown, loose, dry	
		Sump		viscous oil sand asphaltic sump material mixed with brown silty sand black viscous layer SILTY SAND, brown, dry, slight odor mixed black and brown sand	
5		SW		SAND, well graded, some pea gravel, dense, moist, no odor	
10					
15					
20					
25					
30					

06-25-2004 H:\UNOCAL\1550\Second Phase\3 Geoprobe sampling\Large Sumps\Boring Logs\1550-SB65.bor

Rincon Consultants

LOG OF BORING 1550-SB66

1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-13940

Date Completed	: 7/29/04
Location	: Northeastern boundary, Sump A
Method	: Geoprobe
Drilled By	: OEC
Logged By	: J. Inch

Depth in Feet	Core/Sample Interval	USCS	GRAPHIC	DESCRIPTION	PID
0		GM		SAND SILT and GRAVEL, mixed material with some weathered asphalt, light brown, loose, dry	
5		SW		SAND, well graded, some layers with gravel, loose, light brown, dry, no odor	
10		SW		SAND, well graded, some pea gravel, dense, moist, no odor	
		ML		SANDY SILT, brown, very fine sands, damp, no odor	
15		SP		SAND, poorly graded, light brown, loose, slightly moist, no odor	
20					
25					
30					

08-25-2004 H:\UNOCAL\1550\Second Phase\3 Geoprobe sampling\Large Sump\Boring Logs\1550-SB66.bor

Rincon Consultants

LOG OF BORING 1550-SB67

1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-13940

Date Completed	: 7/29/04
Location	: Southeast boundary, Sump A
Method	: Geoprobe
Drilled By	: OEC
Logged By	: J. Inch

Depth in Feet	Core/Sample Interval	USCS	GRAPHIC	DESCRIPTION	PID
0		GM		SAND SILT and GRAVEL, mixed material, light brown, loose, dry	
				black asphaltic sump material	
5		Sump		sump material mixed with medium grained sand, interbedded layers of sump and sandy soil	
10					
		ML		SANDY SILT, very fine grained sands, light brown, damp, roots visible in soil, no odor	
15					
20					
25					
30					

08-25-2004 H:\UNOCAL\1550\Second Phase\3 Geoprobe sampling\Large Sumps\Boring Logs\1550-SB67.bor

Rincon Consultants

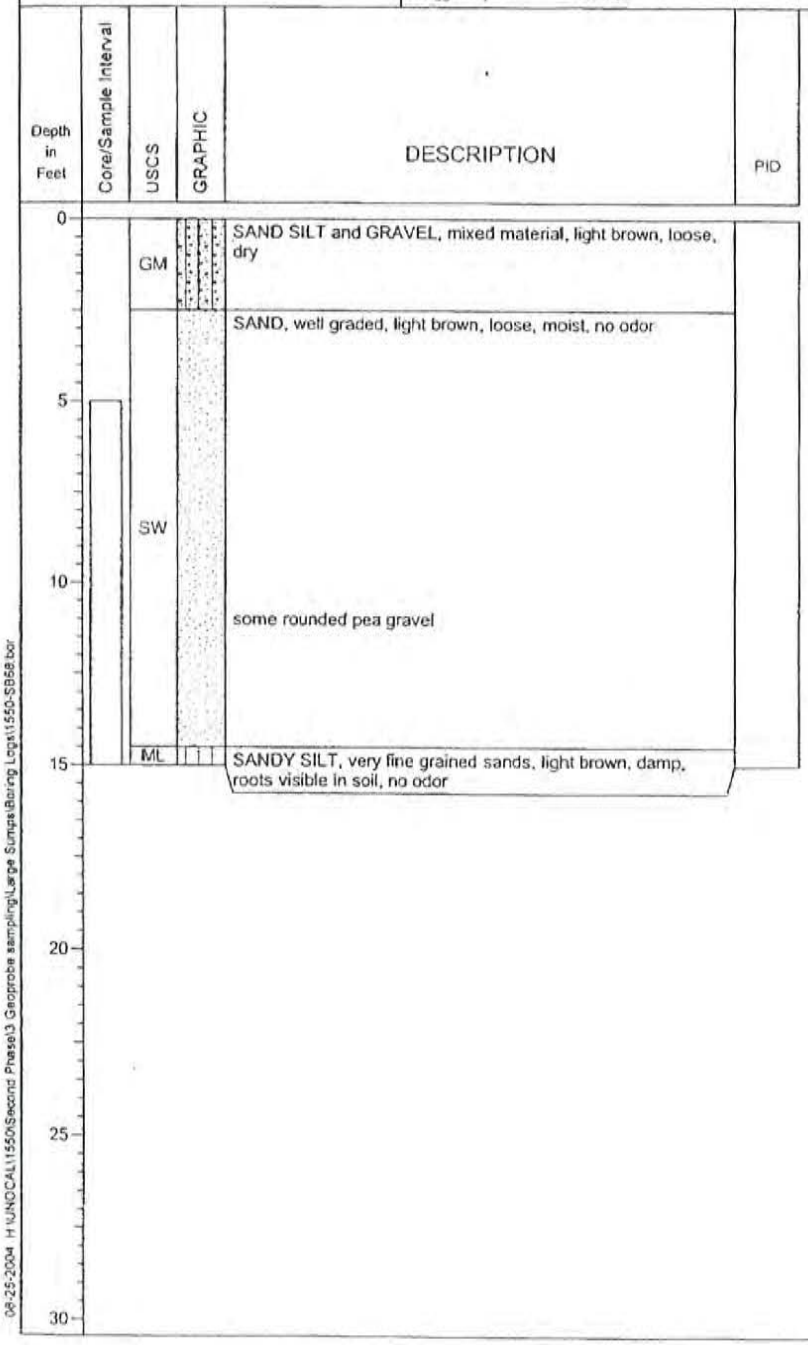
LOG OF BORING 1550-SB68

(Page 1 of 1)

1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

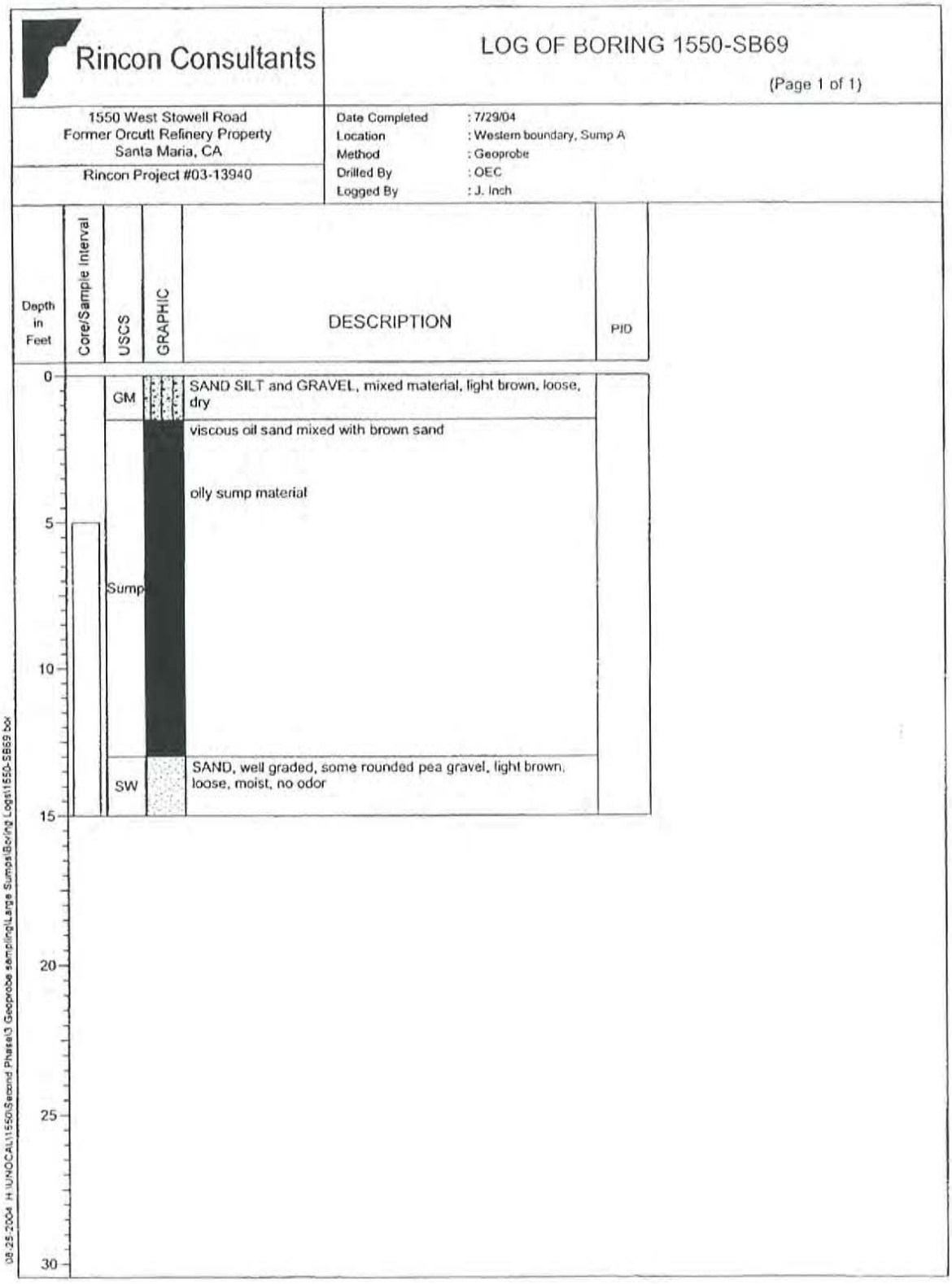
Rincon Project #03-13940

Date Completed	: 7/29/04
Location	: Southeast boundary, Sump A
Method	: Geoprobe
Drilled By	: OEC
Logged By	: J. Inch



08-25-2004 H:\UNOCAL\1550\Second Phase\3 Geoprobe sampling\Large Sumps\Boring Logs\1550-SB68.bor

U 00863


Rincon Consultants
LOG OF BORING 1550-SB69
(Page 1 of 1)
1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA
Rincon Project #03-13940
Date Completed : 7/29/04
Location : Western boundary, Sump A
Method : Geoprobe
Drilled By : OEC
Logged By : J. Inch
Depth in Feet
Core/Sample Interval
USCS
GRAPHIC
DESCRIPTION
PID
0
5
10
15
20
25
30
GM
SAND SILT and GRAVEL, mixed material, light brown, loose, dry
viscous oil sand mixed with brown sand
oily sump material
Sump
SW
SAND, well graded, some rounded pea gravel, light brown, loose, moist, no odor
08-25-2004 H:\UNOCAL\1550\Second Phase\3 Geoprobe sampling\Large Sumps\Boring Logs\1550-SB69.bor

Rincon Consultants

LOG OF BORING 1550-SB70

(Page 1 of 1)

1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-13940

Date Completed	: 7/29/04
Location	: Northwestern boundary, Sump A
Method	: Geoprobe
Drilled By	: OEC
Logged By	: J. Inch

Depth in Feet	Core/Sample Interval	USCS	GRAPHIC	DESCRIPTION	PID
0		GM		SAND SILT and GRAVEL, mixed material, light brown, loose, dry	
		Sump		oil sand mixed with brown sand, heavy oil odor, loose	
5		SW		SAND, well graded, brown, loose, no odor, dry	
10		SP		SAND, poorly graded, dark brown, moist, no odor	
15					
20					
25					
30					

08-25-2004 H:\UNOCAL\1550\Second Phase\3 Geoprobe sampling\Large Sumps\Boring Logs\1550-SB70.bor

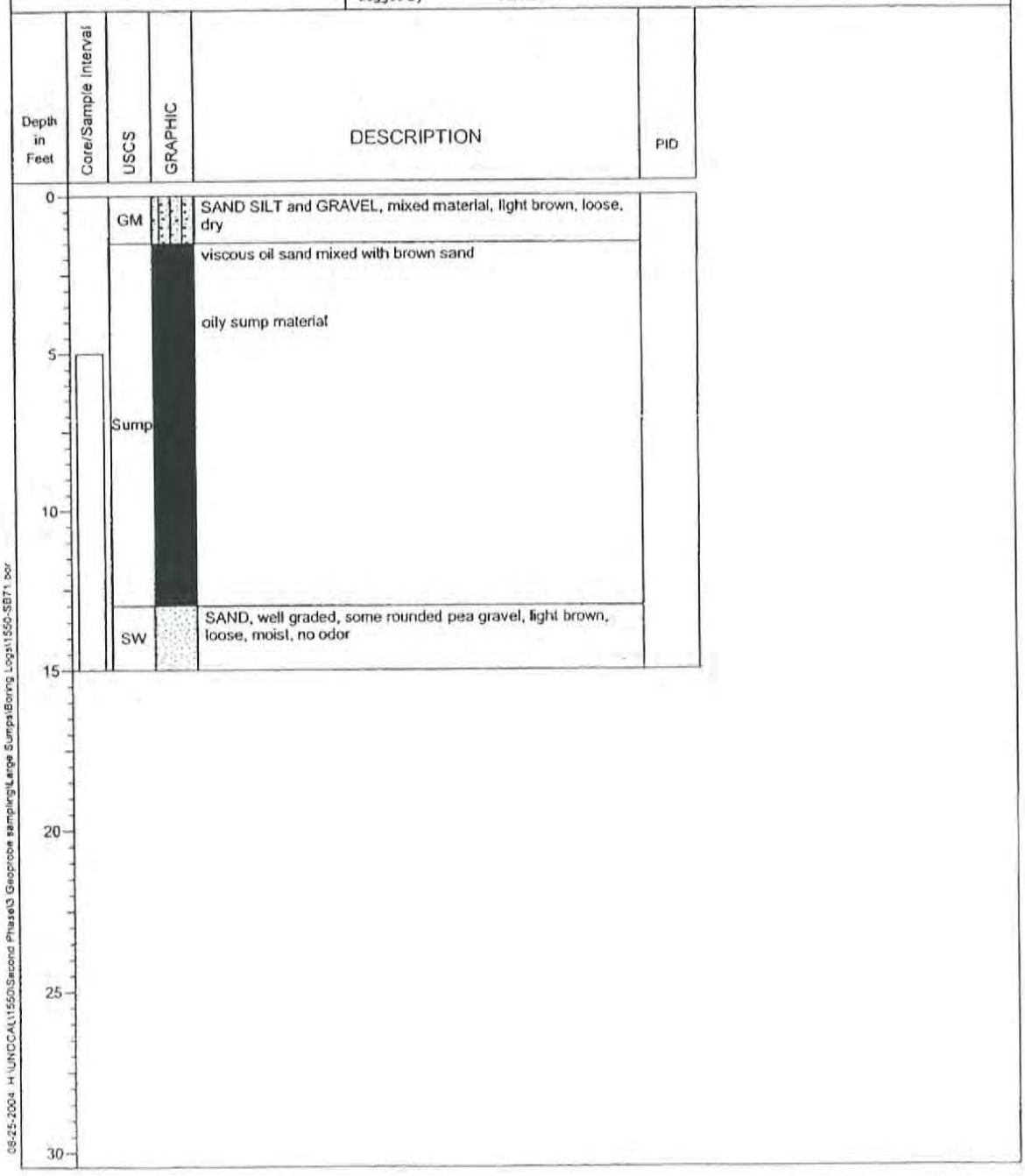
Rincon Consultants

LOG OF BORING 1550-SB71

1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-13940

Date Completed	: 7/29/04
Location	: Southwestern boundary, Sump A
Method	: Geoprobe
Drilled By	: OEC
Logged By	: J. Inch



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Rincon Consultants

LOG OF BORING 1550-SB72

(Page 1 of 1)

1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-13940

Date Completed	: 7/29/04
Location	: Southwestern boundary, Sump A
Method	: Geoprobe
Drilled By	: OEC
Logged By	: J. Inch

Depth in Feet	Core/Sample Interval	USCS	GRAPHIC	DESCRIPTION	PID
0		GM		SAND SILT and GRAVEL, mixed material, light brown, loose, dry	
5		Sump		dark brown sand mixed with lighter sand, slight heavy oil odor to dark brown sand, disturbed soil profile, not black oily sump material	
10		SW		SAND, well graded, coarse grained, light brown, loose, moist, no odor	
15					
20					
25					
30					

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Rincon Consultants

LOG OF BORING 1550-SB73

(Page 1 of 1)

1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-13940

Date Completed : 7/30/04
Location : Southwestern boundary, Sump A
Method : Geoprobe
Drilled By : OEC
Logged By : J. Inch

Depth in Feet	Core/Sample Interval	USCS	GRAPHIC	DESCRIPTION	PID
0		GM		SAND SILT and GRAVEL, mixed material, some chunks of asphalt, light brown, loose, dry	
5		SW		SAND, well graded, fine to medium grained sands, brown, loose, moist, no odor more coarse sand, some rounded pea gravel	
10		GC		GRAVEL SAND and CLAY, slightly plastic, orange brown clay more sand larger gravel and clay	
15		SP		SAND, poorly graded, medium grained, light brown, loose, moist, no odor	
20					
25					
30					

08-25-2004 H:\UNOCAL\1550\Second Phase\3 Geoprobe sampling\Large Sumps\Boring Logs\1550-SB73.bor

Rincon Consultants

LOG OF BORING 1550-SB74

(Page 1 of 1)

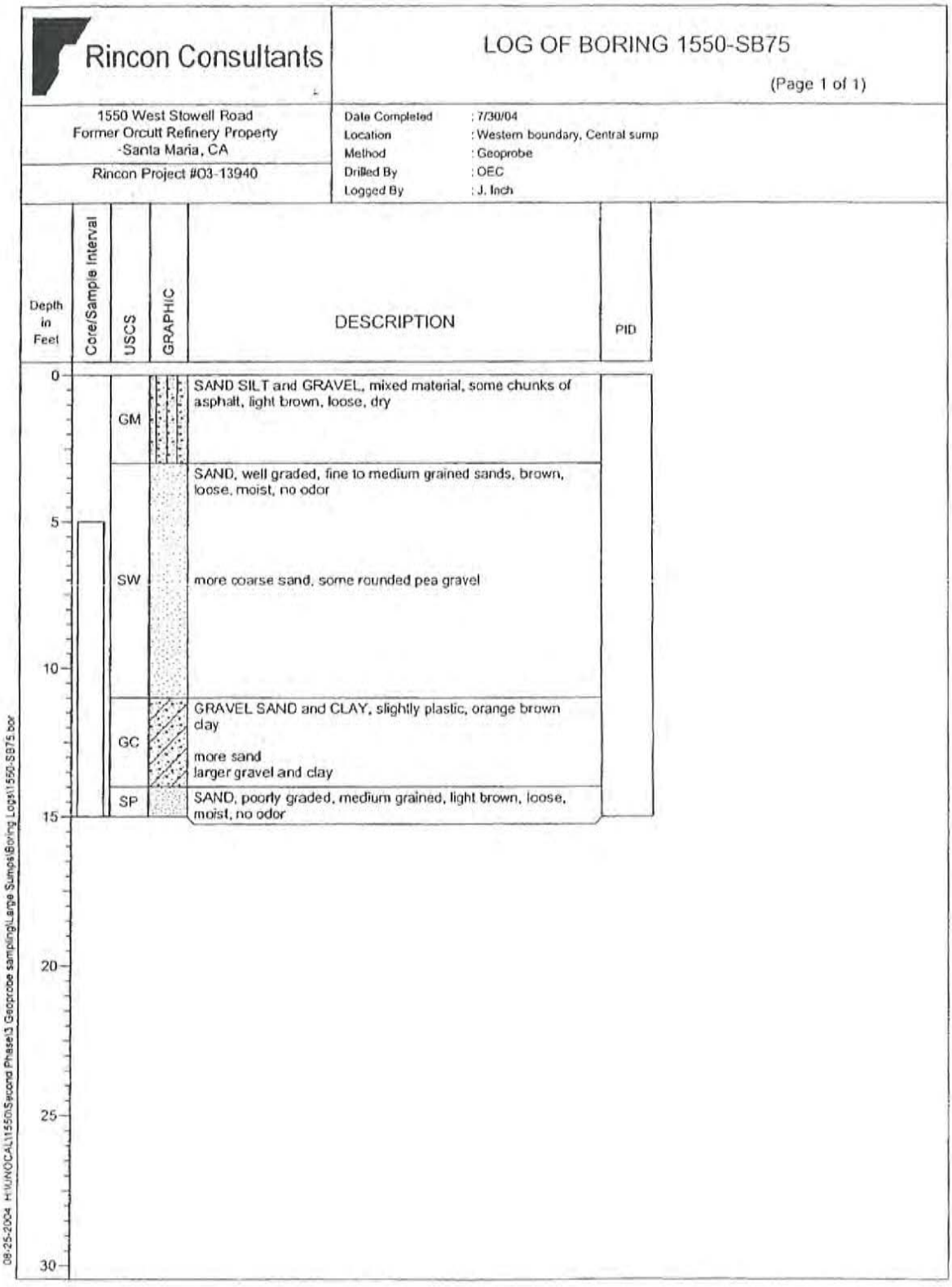
1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-13940

Date Completed	: 7/30/04
Location	: Western boundary, Central sump
Method	: Geoprobe
Drilled By	: OEC
Logged By	: J. Inch

Depth in Feet	Core/Sample Interval	USCS	GRAPHIC	DESCRIPTION	PID
0		GM		SAND SILT and GRAVEL, mixed material, some chunks of asphalt, light brown, loose, dry	
5		Sump		SANDY SILT, very fine sand, light brown, moist, no odor some dark brown soil, heavy oil odor disturbed soil profile becomes bright yellow (as in SB48), moist, loose, no odor, appears to be fill	
10					
15				becomes more bright orange yellow, well graded, fine to coarse, moist, no odor, appears to be fill	
20		ML		SANDY SILT, brown, dense, moist, no odor	
		SP		SAND, poorly graded, medium grained, light brown, loose, moist, no odor	
25					
30					

09-29-2004 H:\UNOCAL\1550\2 Second Phase\3 Geoprobe sampling\Large Sumps\Boring Logs\1550-SB74.bor


Rincon Consultants
LOG OF BORING 1550-SB75
(Page 1 of 1)
1550 West Stowell Road
Former Orcutt Refinery Property
-Santa Maria, CA
Rincon Project #03-13940
Date Completed : 7/30/04
Location : Western boundary, Central sump
Method : Geoprobe
Drilled By : OEC
Logged By : J. Inch
Depth in Feet
Core/Sample Interval
USCS
GRAPHIC
DESCRIPTION
PID
0
5
10
15
20
25
30
GM
SAND SILT and GRAVEL, mixed material, some chunks of asphalt, light brown, loose, dry
SW
SAND, well graded, fine to medium grained sands, brown, loose, moist, no odor
more coarse sand, some rounded pea gravel
GC
GRAVEL SAND and CLAY, slightly plastic, orange brown clay
more sand
larger gravel and clay
SP
SAND, poorly graded, medium grained, light brown, loose, moist, no odor
08-25-2004 H:\WNOCAL\11550\Second Phase\3 Geoprobe sampling\Large Sumps\Boring Logs\1550-SB75.bor

Rincon Consultants

LOG OF BORING 1550-SB76

(Page 1 of 1)

1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-13940

Date Completed	: 7/30/04
Location	: Western boundary, Central sump
Method	: Geoprobe
Drilled By	: OEC
Logged By	: J. Inch

Depth in Feet	Core/Sample Interval	USCS	GRAPHIC	DESCRIPTION	PID
0		GM		SAND SILT and GRAVEL, mixed material, some chunks of asphalt, light brown, loose, dry	
5		SW		SAND, well graded, fine to medium grained sands, reddish orange, loose, moist, no odor may be sump boundary, but sand appears native, and does not have an odor	
10				some gravel becomes light brown with thin bands of reddish orange soil, appears oxidized bands stop and soil becomes brown	
15					
20					
25					
30					

08-25-2004 H:\UNOCAL\1550\Second Phase\3 Geoprobe sampling\Large Sumps\Boring Logs\1550-SB76.bor

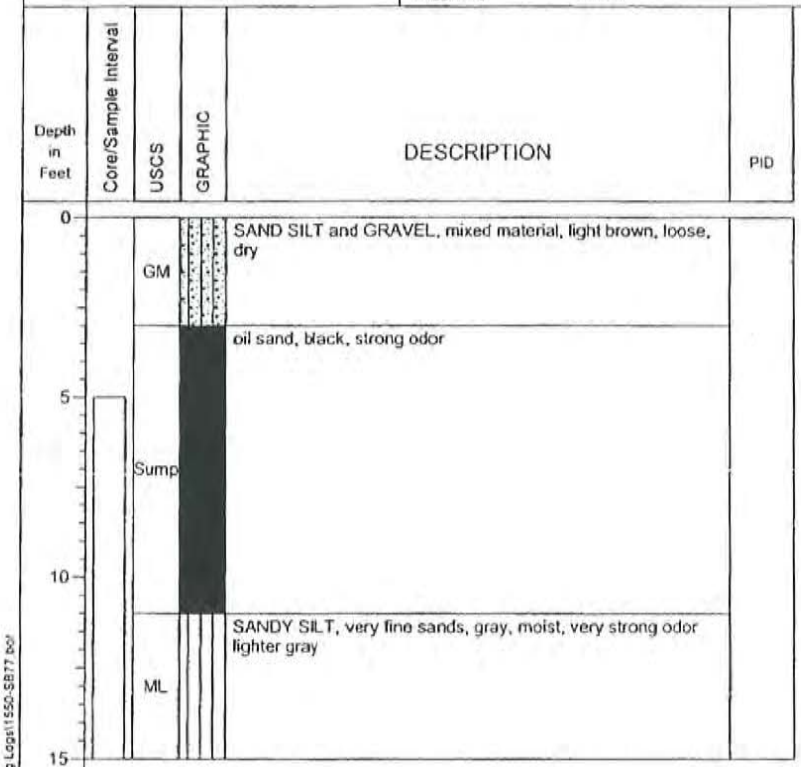
Rincon Consultants

LOG OF BORING 1550-SB77

1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-13940

Date Completed	: 7/30/04
Location	: Northwestern boundary, Sump B
Method	: Geoprobe
Drilled By	: OEC
Logged By	: J. Isch



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Rincon Consultants

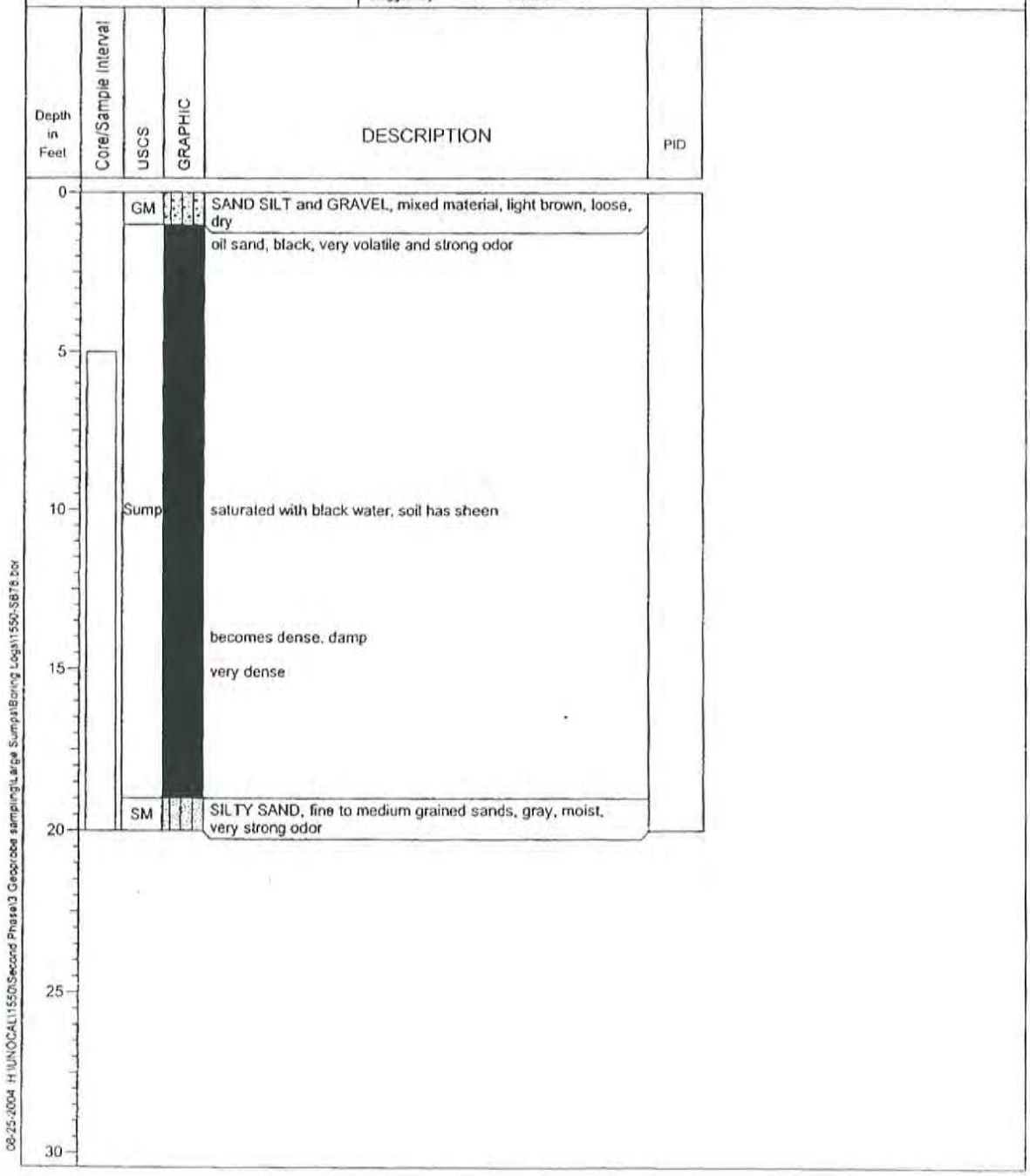
LOG OF BORING 1550-SB78

(Page 1 of 1)

1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-13940

Date Completed	: 7/30/04
Location	: Southern portion, Sump B
Method	: Geoprobe
Drilled By	: OEC
Logged By	: J. Inch



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Rincon Consultants

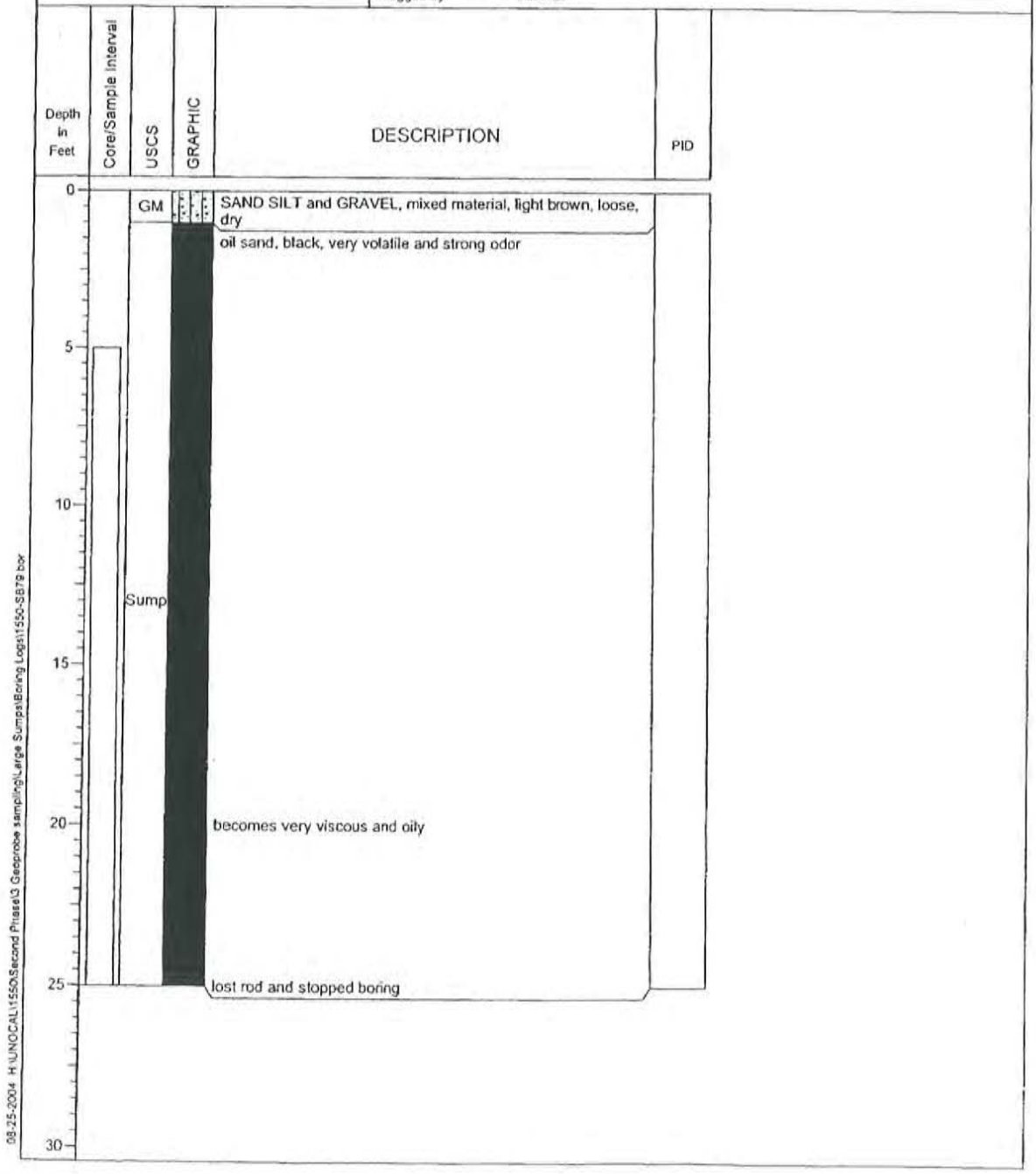
LOG OF BORING 1550-SB79

(Page 1 of 1)

1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-13940

Date Completed	: 7/30/04
Location	: Southern portion, Sump B
Method	: Geoprobe
Drilled By	: OEC
Logged By	: J. Inch



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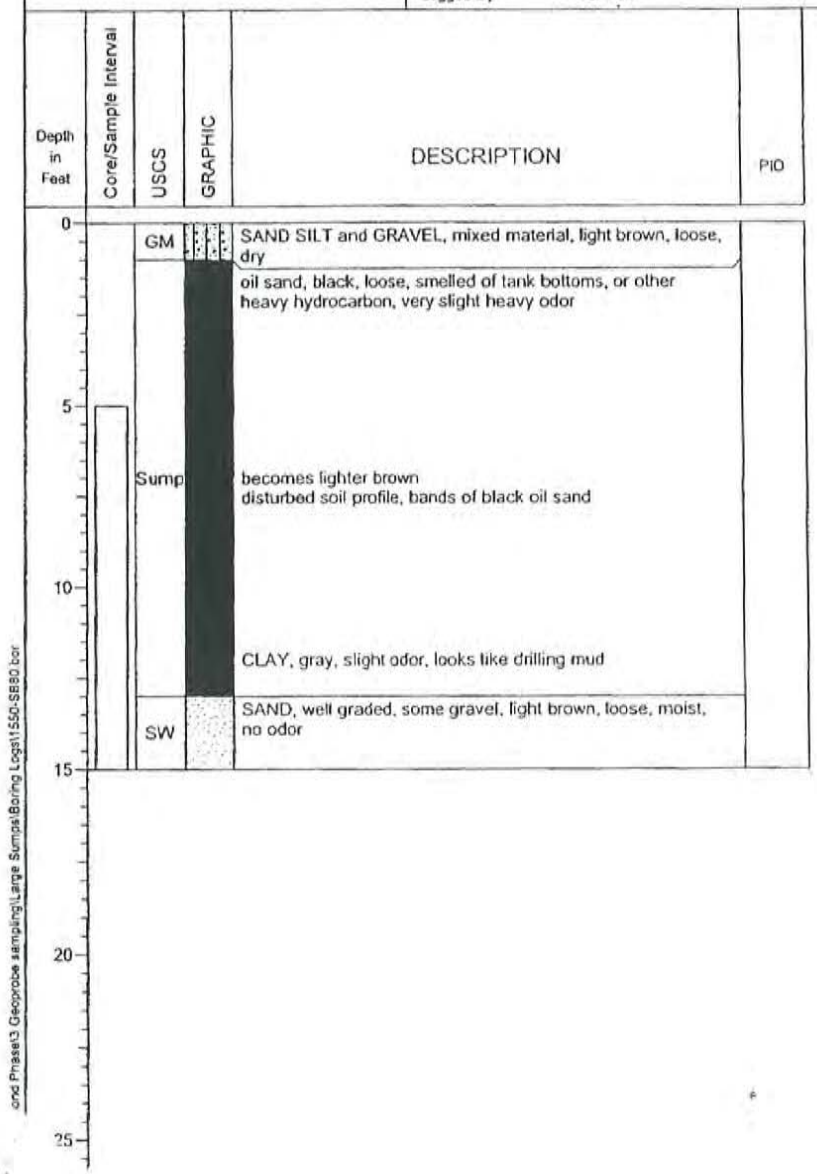
LOG OF BORING 1550-SB80

(Page 1 of 1)

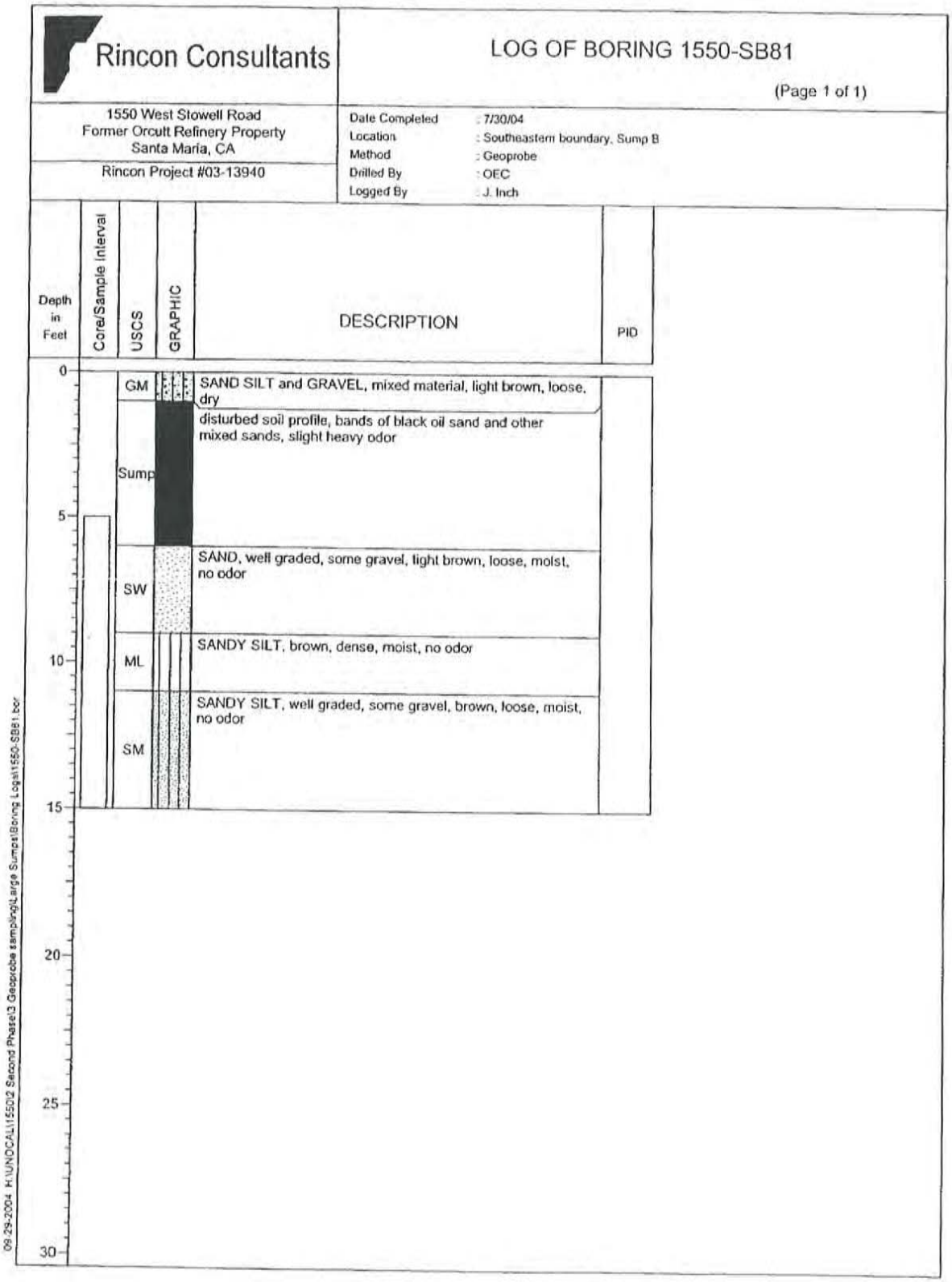
1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

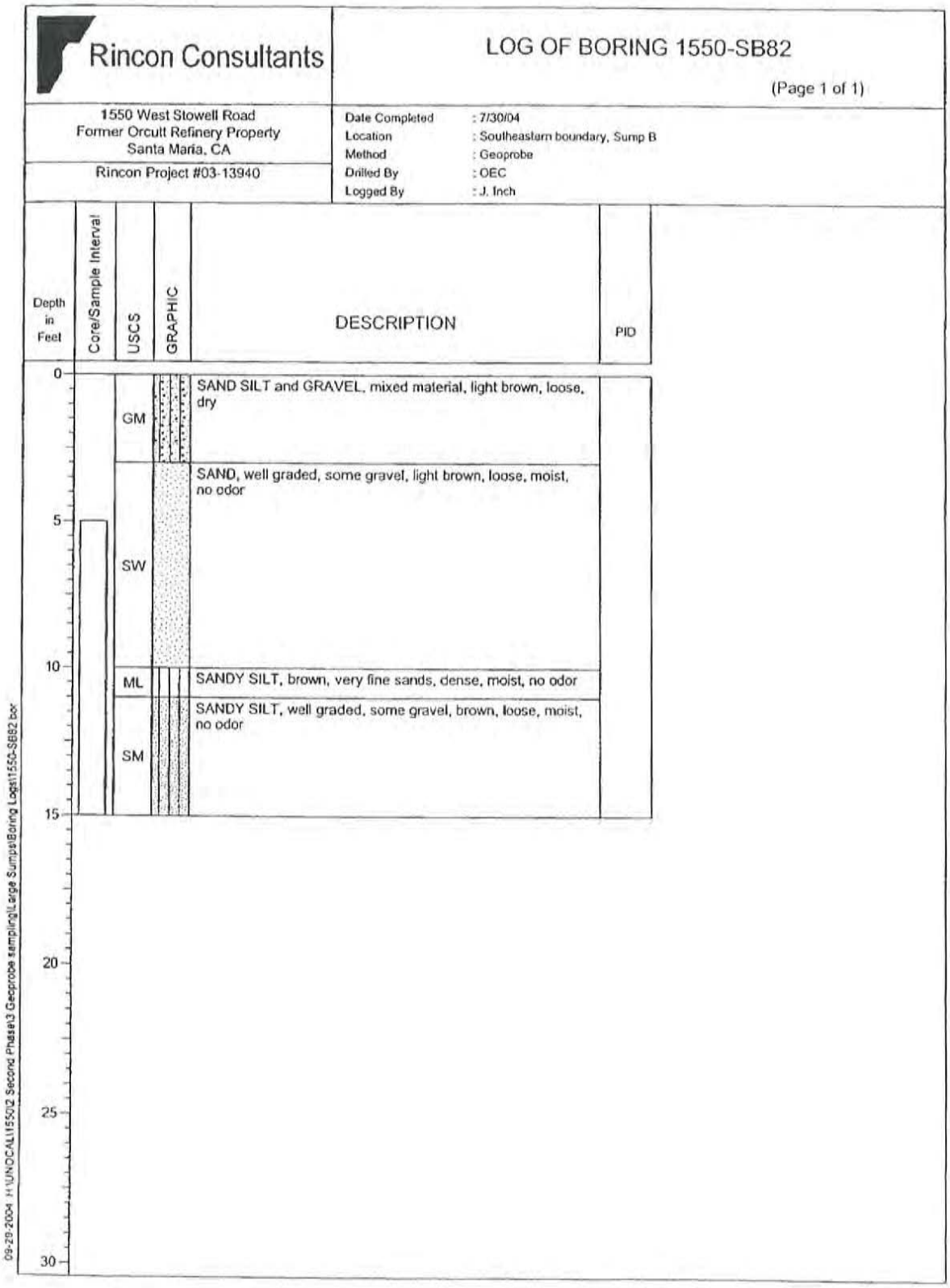
Rincon Project #03-13940

Date Completed	: 7/30/04
Location	: Southern boundary, Sump B
Method	: Geoprobe
Drilled By	: OEC
Logged By	: J. Inch



ord Phase3 Geoprobe sampling\Large Sumps\Boring Logs\1550-SB80.bor


Rincon Consultants
LOG OF BORING 1550-SB81
(Page 1 of 1)
1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA
Rincon Project #03-13940
Date Completed : 7/30/04
Location : Southeastern boundary, Sump B
Method : Geoprobe
Drilled By : OEC
Logged By : J. Inch
Depth in Feet
Core/Sample Interval
USCS
GRAPHIC
DESCRIPTION
PID
0
5
10
15
20
25
30
GM
SAND SILT and GRAVEL, mixed material, light brown, loose, dry
disturbed soil profile, bands of black oil sand and other mixed sands, slight heavy odor
Sump
SW
SAND, well graded, some gravel, light brown, loose, moist, no odor
ML
SANDY SILT, brown, dense, moist, no odor
SM
SANDY SILT, well graded, some gravel, brown, loose, moist, no odor
09-29-2004 H:\UNOCAL\1550\2 Second Phase\3 Geoprobe sampling\Large Sumps\Boring Logs\1550-SB81.bor


Rincon Consultants
LOG OF BORING 1550-SB82
(Page 1 of 1)
1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA
Rincon Project #03-13940
Date Completed : 7/30/04
Location : Southeastern boundary, Sump B
Method : Geoprobe
Drilled By : OEC
Logged By : J. Inch
Depth in Feet
Core/Sample Interval
USCS
GRAPHIC
DESCRIPTION
PID
0
5
10
15
20
25
30
GM
SAND SILT and GRAVEL, mixed material, light brown, loose, dry
SW
SAND, well graded, some gravel, light brown, loose, moist, no odor
ML
SANDY SILT, brown, very fine sands, dense, moist, no odor
SM
SANDY SILT, well graded, some gravel, brown, loose, moist, no odor
09-29-2004 H:\UNOCAL\1550\2 Second Phase\3 Geoprobe sampling\Large Sumps\Boring Logs\1550-SB82.bor

Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QA-SB1

Dates Drilled: 11-17-08	Total Depth Drilled: 25 feet	Logged By: Bonnie Williams
Drilling Contractor: OEC Drilling	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Hand auger upper 5 feet)
2		2100	5800	4100	FOR-1550QA-SB1-1-2.0	80		Silty sand (SM), brown (10 YR 4/3), trace asphalt-like gravel, <1" diameter, dry, appears loose, no odor or staining. One large gravel, 2" diameter, white (10 YR 8/1). Matrix darkens to very dark grayish brown (10 YR 3/2), 10% well graded gravel
								Petroleum impregnated sand, black (10 YR 2/1), pliable, strong odor
4								Increase in friability, no longer sticky, moderate odor, very dark grayish brown (10 YR 3/2), dry to slightly moist, appears loose
		<2.1	<2.6	<6.9	FOR-1550QA-SB1-2-5.0	8.0		Poorly graded sand (SP), light yellowish brown (10 YR 6/4), moist, subangular, fine to medium grained, appears loose, no odor or staining
6								
								Yellowish brown (10 YR 5/4), one large gravel, rounded, white (10 YR 8/1)
8								
10		<2.1	<2.6	<6.9	FOR-1550QA-SB1-3-10.0	3.0		No gravel
12								
14		<2.1	<2.6	<6.9	FOR-1550QA-SB1-4-15.0	0.0		Increase in grain size to medium with 15% well graded gravel, rounded to subangular, one large gravel, 1" diameter, no odor or staining, appears medium dense
16								
18								2" nodule of silty clay within SP matrix
								Trace gravel, grain size fine to medium
20		<2.1	<2.6	<6.9	FOR-1550QA-SB1-5-20.0	3.0		Grain size medium, 15% gravel
								Fine to medium grained, one nodule of silty clay in matrix
22								
24		<2.1	<2.6	<6.9	FOR-1550QA-SB1-6-25.0	0.0		
26								Boring FOR-1550QA-SB1 terminated at 25 feet bgs at 13:55 on November 17, 2008. Backfilled with bentonite chips.

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

URS
2625 S. Miller Street, Suite 104
Santa Maria, CA 93455
805-349-7000

Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QA-SB2

Dates Drilled: 11-17-08	Total Depth Drilled: 30 feet	Logged By: Bonnie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0					FOR-1550QA-SB2-1-0.5	0.0		(Hand auger upper 5 feet) Silty sand (SM), brown (10 YR 4/3), dry, appears loose, no odor or staining. FOR-1550QA-SB2-1-0.5 collected but not submitted for analysis
2					FOR-1550QA-SB2-2-2.0	25		At 0.5 ft bgs, 3 large gravels (asphaltic), 1" diameter, black (10 YR 2/1), pliable, moderate odor. Matrix dark grayish brown (10 YR 4/2), moderate odor. Soft petroleum impregnated sand intermixed with silty sand, increasing to 75% soft oil sand at 1.5 ft bgs. 100% soft oil sand at 2 ft bgs, strong odor
4		2400	17000	11000	FOR-1550QA-SB2-3-3.5	120		
6								
8					FOR-1550QA-SB2-4-8.5	10		3" layer of large, subangular gravel, white (10 YR 8/1), 1" diameter. Soft oil sand as above
10		<2.1	<2.6	<6.9	FOR-1550QA-SB2-5-10.0	0.0		Poorly graded sand (SP), yellowish brown (10 YR 5/4), moist, medium to coarse grained, subangular, appears loose, no odor or staining
12								
14		<2.1	<2.6	<6.9	FOR-1550QA-SB2-6-15.0	0.0		Silty clay (CL), yellowish brown, (10 YR 5/4), moist, <15% sand/gravel, medium plasticity, medium consistency, no odor or staining
16								
18								Poorly graded sand (SP), light yellowish brown (10 YR 6/4), moist, appears medium dense, no odor or staining
20		<2.1	5.5J	<6.9	FOR-1550QA-SB2-7-20.0	0.0		Silty clay (CL), yellowish brown, (10 YR 5/4), moist, <15% sand/gravel, medium plasticity, medium consistency, no odor or staining. Poorly graded sand with gravel (SP), light yellowish brown (10 YR 6/4), moist, appears medium dense, no odor or staining
22								Increase in grain size to medium, 15% gravel
24		<2.1	5.9J	<6.9	FOR-1550QA-SB2-8-25.0	0.0		Decrease in grain size to fine, trace gravel, no odor or staining
26								
28								
30		<2.1	<2.6	<6.9	FOR-1550QA-SB2-9-30.0	0.0		Medium grained sand with 20% gravel, subangular, moist, appears medium dense, no odor or staining. Boring FOR-1550QB-SB2 terminated at 30 feet bgs at 12:00 on November 17, 2008. Backfilled with bentonite chips.

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

URS
2625 S. Miller Street, Suite 104
Santa Maria, CA 93455
805-349-7000

Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QA-SB3

Dates Drilled: 11-17-08	Total Depth Drilled: 30 feet	Logged By: Natalie Williams
Drilling Contractor: S & G Drilling	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Hand auger upper 5 feet) Poorly graded gravel with sand (GP), grayish brown, slightly moist, fine to medium grained, appears medium dense, gravel clasts up to 2.5 cm diameter
2								Silty sand (SM) with trace gravel, black, slightly moist, medium to fine grained, appears very dense (asphaltic), gravel clasts up to 1.5 cm diameter
4								Petroleum impregnated soil, soft, appears medium dense
		640	11000	16000	FOR-1550QA-SB3-1-5.0	0.0		Poor recovery between 5 and 8 feet bgs
6								
8								
10		1900	78	240	FOR-1550QA-SB3-2-10.0	0.0		Silty sand (SM) with trace gravel, slightly moist, medium to fine grained, appears medium dense, gravel clasts up to 1.5 cm diameter
12								
14		<2.1	11	12J	FOR-1550QA-SB3-3-15.0	0.0		
16								
18								
20		<2.1	<2.6	<6.9	FOR-1550QA-SB3-4-20.0	0.0		Clay (CL), medium brown, slightly moist, low plasticity, appears medium consistency Silty sand (SM) with trace gravel, yellowish brown, slightly moist, fine to medium grained, appears medium dense, gravel clasts subrounded, 0.5 cm maximum diameter, ~15% fines
22								
24		<2.1	5.0J	<6.9	FOR-1550QA-SB3-5-25.0	0.0		
26								
28								
30		<2.1	3.8J	<6.9	FOR-1550QA-SB3-6-30.0	0.0		Boring FOR-1550QA-SB3 terminated at 30 feet bgs at 14:55 on November 17, 2008. Backfilled with bentonite chips.

Explanation

Sand (SP), Silt, Silty Sand (SM), Clayey Silt, Clayey Sand (SC), Silty Clayey Sand, Red Rock, Roadbase, Bentonite Chips

Sand (SW), Clay, Sandy Silt (ML), Silty Clay, Sandy Clay, Organic Silt, Gravel, Petroleum Impacted

URS
2625 S. Miller Street, Suite 104
Santa Maria, CA 93455
805-349-7000

Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QA-SB4

Dates Drilled: 11-17-08	Total Depth Drilled: 20 feet	Logged By: Bonnie Williams
Drilling Contractor: OEC Drilling	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Hand auger upper 5 feet) Well graded gravel with sand (GW), dark grayish brown (10 YR 4/2), dry, appears medium dense, gravel subangular (roadbase)
2								Silty sand (SM), dark yellowish brown (10 YR 4/4), moist, fine to medium grained, subangular, appears medium dense. One large concrete aggregate had to be broken up in order to continue Yellowish brown (10 YR 5/4) Dark yellowish brown (10 YR 4/4) Yellowish brown (10 YR 5/4)
4								Trace well graded gravel, one large 3" diameter
		<2.1	<2.6	<6.9	FOR-1550QA-SB4-1-5.0	0.0		
6								Poorly graded sand (SP), yellowish brown (10 YR 5/4), moist, fine to medium grained, trace well graded gravel, appears medium dense, no odor or staining No gravel
8								
		<2.1	<2.6	<6.9	FOR-1550QA-SB4-2-10.0	0.0		
10								
12								One large gravel, white (10 YR 8/1), subangular, 1" diameter, no odor or staining
14								
		<2.1	<2.6	<6.9	FOR-1550QA-SB4-3-15.0	0.0		
								2" nodule of silty clay within SP matrix Grain size medium
16								Grain size fine to medium, Trace well graded gravel, angular, within matrix
18								
		<2.1	<2.6	<6.9	FOR-1550QA-SB4-4-20.0	0.0		
20								Boring FOR-1550QA-SB4 terminated at 20 feet bgs at 14:50 on November 17, 2008. Backfilled with bentonite chips.

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

URS
2625 S. Miller Street, Suite 104
Santa Maria, CA 93455
805-349-7000

Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QA-SB5

Dates Drilled: 11-17-08	Total Depth Drilled: 20 feet	Logged By: Natalie Williams
Drilling Contractor: S & G Drilling	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Hand auger upper 5 feet) Poorly graded gravel with sand (GP), grayish brown, slightly moist, fine to medium grained, appears medium dense, gravel clasts up to 2 cm diameter
2								Silty sand (SM), yellowish brown, slightly moist, fine to medium grained, appears medium dense, ~15% fines, homogeneous
4	■	<2.1	<2.6	<6.9	FOR-1550QA-SB5-1-5.0	0.0		
6								
8								
10	■	<2.1	<2.6	<6.9	FOR-1550QA-SB5-2-10.0	0.0		
12								Medium to coarse grained, ~10% fines
14	■	<2.1	4.0J	<6.9	FOR-1550QA-SB5-3-15.0	0.0		
16								
18								
20	■	<2.1	<2.6	<6.9	FOR-1550QA-SB5-4-20.0	0.0		Boring FOR-1550QA-SB5 terminated at 20 feet bgs at 11:55 on November 17, 2008. Backfilled with bentonite chips. Did not encouter visually impacted material.

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QA-SB6

Dates Drilled: 11-18-08	Total Depth Drilled: 20 feet	Logged By: Bonnie Williams
Drilling Contractor: OEC Drilling	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Hand auger upper 5 feet) Well graded gravel with sand (GW), dark yellowish brown (10 YR 4/6), moist, appears medium dense, gravel subangular (roadbase)
2								Silty sand (SM), yellowish brown (10 YR 5/4), moist, fine to medium grained, subangular, appears loose. One large cobble, 3" diameter
4	■	<2.1	<2.6	<6.9	FOR-1550QA-SB6-1-5.0	0.0		Trace well graded gravel, angular, 1/2" to 1" diameter
6								Poorly graded sand (SP), yellowish brown (10 YR 5/4), moist, fine to medium grained, subangular, appears medium dense
8								
10	■	<2.1	<2.6	<6.9	FOR-1550QA-SB6-2-10.0	0.0		
12								Trace gravel, <1" diameter
14	■	<2.1	4.0J	<6.9	FOR-1550QA-SB6-3-15.0	0.0		Increase in grain size to medium with 20% poorly graded fine gravel One 1" nodule silty clay in matrix
16								Trace well graded gravel, 1/4" to 1" diameter, three 1/2" nodules silty clay within matrix
18								Fine to medium grained sand, no gravel
20	■	<2.1	<2.6	<6.9	FOR-1550QA-SB6-4-20.0	0.0		Boring FOR-1550QA-SB6 terminated at 20 feet bgs at 08:10 on November 18, 2008. Backfilled with bentonite chips.

Explanation

Sand (SP) · Silt · Silty Sand (SM) · Clayey Silt · Clayey Sand (SC) · Silty Clayey Sand · Red Rock · Roadbase · Bentonite Chips

Sand (SW) · Clay · Sandy Silt (ML) · Silty Clay · Sandy Clay · Organic Silt · Gravel · Petroleum Impacted

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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QA-SB7

Dates Drilled: 11-17-08	Total Depth Drilled: 20 feet	Logged By: Natalie Williams
Drilling Contractor: S & G Drilling	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Hand auger upper 5 feet) Poorly graded gravel with sand (GP), grayish brown, slightly moist, fine to medium grained sand, appears medium dense, gravel clasts maximum 2.5 cm diameter
2								Silty sand with trace gravel (SM), yellowish brown, slightly moist, medium grained, ~15% fines, appears medium dense, gravel clasts 1.5 cm diameter maximum
4								
4	■	<2.1	<2.6	17J	FOR-1550QA-SB7-1-5.0	0.0		
6								
8								
10	■	<2.1	<2.6	<6.9	FOR-1550QA-SB7-2-10.0	0.0		
12								
14								
14	■	<2.1	<2.6	<6.9	FOR-1550QA-SB7-3-15.0	0.0		
16								
18								
20	■	<2.1	<2.6	<6.9	FOR-1550QA-SB7-4-20.0	0.0		Boring FOR-1550QA-SB7 terminated at 20 feet bgs at 11:05 on November 17, 2008. Backfilled with bentonite chips. Did not encouter visually impacted material.

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QA-SB8

Dates Drilled: 11-17-08	Total Depth Drilled: 20 feet	Logged By: Natalie Williams
Drilling Contractor: S & G Drilling	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Hand auger upper 5 feet) Poorly graded gravel (GP) with sand, grayish brown, slightly moist, fine to medium grained, appears medium dense, gravel clasts up to 2.5 cm diameter
2								Silty sand (SM) with trace gravel, yellowish brown, slightly moist, medium grained, appears medium dense, ~10% fines, gravel 3 cm maximum diameter
4	■	<2.1	<2.6	<6.9	FOR-1550QA-SB8-1-5.0	0.0		
6								Fine to medium grained sand, maximum diameter of gravel clasts ~0.5 cm
8								
10	■	<2.1	2.9J	<6.9	FOR-1550QA-SB8-2-10.0	0.0		
12								
14	■	<2.1	3.5J	<6.9	FOR-1550QA-SB8-3-15.0	0.0		Medium to coarse sand
16								
18								
20	■	<2.1	<2.6	<6.9	FOR-1550QA-SB8-4-20.0	0.0		Boring FOR-1550QA-SB8 terminated at 20 feet bgs at 13:20 on November 17, 2008. Backfilled with bentonite chips. Did not encouter visually impacted material.

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QA-SB9

Dates Drilled: 11-18-08	Total Depth Drilled: 20 feet	Logged By: Natalie Williams
Drilling Contractor: S & G Drilling	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Hand auger upper 5 feet) Silty sand with trace gravel (SM), yellowish brown, slightly moist, medium to fine grained, appears medium dense, ~15% fines, gravel up to 2 cm diameter
4	■	<2.1	<2.6	<6.9	FOR-1550QA-SB9-1-5.0	0.0		
10	■	<2.1	4.7J	<6.9	FOR-1550QA-SB9-2-10.0	0.0		Fewer gravel clasts, up to 1 cm diameter
14	■	<2.1	3.8J	<6.9	FOR-1550QA-SB9-3-15.0	0.0		Gravel up to 2.5 cm diameter, sand medium grained
20	■	<2.1	<2.6	<6.9	FOR-1550QA-SB9-4-20.0	0.0		Clay (CL), brown, slightly moist, appears medium stiff, low plasticity Boring FOR-1550QA-SB9 terminated at 20 feet bgs at 08:10 on November 18, 2008. Backfilled with bentonite chips. Did not encounter visually impacted material.

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QA-SB10

Dates Drilled: 11-18-08	Total Depth Drilled: 25 feet	Logged By: Natalie Williams
Drilling Contractor: S&G Drilling	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Hand augered upper 5 feet) Poorly graded gravel with sand (GP), grayish brown, slightly moist, fine to medium grained, appears medium dense, gravel is subangular, maximum 2 cm in diameter, ~20% fines
2								Silty sand with trace gravel (SM), black, slightly moist, faint hydrocarbon odor, appears to be impregnated with oil, fine to medium, appears medium dense, gravel clasts up to 0.5 cm in diameter, approx. 15% fines, ~3% gravel At ~2 feet bgs: Color becomes dark brown At ~2.5 feet bgs: Color becomes black
4					FOR-1550QA-SB10-1-3.5	0.0		
4		<2.1	<2.6	<6.9	FOR-1550QA-SB10-2-5.0	0.0		Silty sand with trace gravel (SM), yellowish brown, slightly moist, fine ti medium, appears medium dense, gravel clasts up to 0.5 cm in diameter, ~15% fines, ~3% gravel, no odor
6								
8								Medium grained
10		<2.1	2.8J	<6.9	FOR-1550QA-SB10-3-10.0	0.0		
12								Fine to medium grained with fewer gravel clasts, ~1% gravel
14		<2.1	5.2J	<6.9	FOR-1550QA-SB10-4-15.0	0.0		
16								
18								
20		<2.1	<2.6	<6.9	FOR-1550QA-SB10-5-20.0	0.0		
20								Clay (CL), brown, slightly moist, appears medium stiff, low plasticity
22								Silty sand with trace gravel (SM), yellowish brown, slightly moist, fine to medium grained, appears medium dense, approx. 15% fines, gravel is sub-rounded and up to 0.5 cm in diameter, approx. 2% gravel
24		<2.1	<2.6	<6.9	FOR-1550QA-SB10-6-25.0	0.0		
26								Boring FOR-1550QA-SB10 terminated at 25 feet bgs at 10:05 on November 18, 2008 and backfilled with bentonite chips

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QA-SB11

Dates Drilled: 11-18-08	Total Depth Drilled: 20 feet	Logged By: Natalie Williams
Drilling Contractor: S&G Drilling	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Hand augered upper 5 feet) Silty sand (SM) with trace gravel, yellowish brown, slightly moist, fine to medium grained, appears medium dense, gravel subangular, maximum 2 cm in diameter
2								Poorly graded gravel with sand (GP), grayish brown, slightly moist, appears medium dense, gravel subangular, sand fine to medium
4								Silty sand with trace gravel (SM), yellowish brown, slightly moist, appears medium dense, gravel clasts up to 1.5 cm diameter, approx. 15% fines, approx. 5% gravel
4	■	<2.1	<2.6	<6.9	FOR-1550QA-SB11-1-5.0	0.0		
6								Fewer coarse grains, ~20% fines
8								
10	■	<2.1	<2.6	<6.9	FOR-1550QA-SB11-2-10.0	0.0		Fewer gravels, ~1%
12								
14	■	<2.1	<2.6	<6.9	FOR-1550QA-SB11-3-15.0	0.0		
16								
18								
20	■	<2.1	<2.6	<6.9	FOR-1550QA-SB11-4-20.0	0.0		Boring FOR-1550QA-SB11 terminated at depth of 20 feet bgs at 8:55 on November 18, 2008 and backfilled with bentonite chips. Did not encounter visually impacted material.

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QA-SB12

Dates Drilled: 11-19-08	Total Depth Drilled: 30 feet	Logged By: Natalie Williams
Drilling Contractor: S&G Drilling	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								Silty sand (SM), yellowish brown (10YR 3/4), moist, loose, trace well graded fine gravels
2								1/8" layer of black (10YR 2/1), petroleum impregnated asphaltic sand, 15% well graded black clasts (1/2" to 1"), no odor Matrix not stained, clasts brittle to crumbly
								One large gravel (2")
4								
		<2.1	28	140	FOR-1550QA-SB12-5.0	0.0		One large hard black clast (2") (asphaltic)
6								
		<2.1	340	1100	FOR-1550QA-SB12-8.0	0.0		Trace coarse gravels, subrounded, well graded (1/2" to 1") Matrix stained brown (10YR 4/3), to dark brown (10YR 3/3), slight odor Abrupt color change to yellowish brown (10YR 5/6)
8								
		<2.1	4.3J	<6.9	FOR-1550QA-SB12-10.0	0.0		Poorly graded sand (SP), fine to medium grained, light yellowish brown (10YR 6/4), moist, appears medium dense
10								
12								Grades to medium grained sand, trace well graded fine subangular gravels One 1" gravel
								Fine to medium grained, no gravel
14								
		<2.1	3.0J	<6.9	FOR-1550QA-SB12-15.0	0.0		
16								
18								Silty sand (SM), dark yellowish brown (10YR 4/4), fine to medium grained, trace angular well graded gravels (1/4" to 1")
								Well graded sand (SW), light yellowish brown (10YR 6/4), fine to coarse grained, moist, dense, trace subangular well graded gravel
20		<2.1	<2.6	<6.9	FOR-1550QA-SB12-20.0	0.0		Silty clay (CL), yellowish brown (10YR 5/4), slightly moist, medium consistency, medium plasticity
22								Silty sand (SM), yellowish brown (10YR 5/4), moist, appears medium dense, trace subrounded to subangular gravels
								Poorly graded sand (SP), light yellowish brown (10YR 6/4), fine to medium grained, appears medium dense, moist, trace well graded subangular fine gravels One large gravel (1")
24								
		<2.1	2.7J	<6.9	FOR-1550QA-SB12-25.0	0.0		
26								
28								Silty sand (SM), yellowish brown (10YR 5/4), moist, appears medium dense, trace subrounded to subangular gravels
								Poorly graded sand (SP), light yellowish brown (10YR 6/4), fine to medium grained, appears medium dense, moist, trace well graded subangular fine gravels 2" layer of well graded, subrounded, fine gravels
30		<2.1	<2.6	<6.9	FOR-1550QA-SB12-30.0	0.0		Bottom of boring at 30 ft bgs

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QA-SB13

Dates Drilled: 11-18-08	Total Depth Drilled: 20 feet	Logged By: Bonnie Williams
Drilling Contractor: OEC Drilling	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Core through concrete and hand auger to 5 ft bgs) Concrete pad
2								Silty sand (SM), mottled yellowish brown (10 YR 5/4) and dark brown (10 YR 3/3), moist, fine to medium grained, trace fine gravel, bits of decomposed wood, appears loose. Dark yellowish brown (10 YR 4/4), no gravel, no wood Yellowish brown (10 YR 5/6) One asphalt-like gravel, brittle, 1/2" diameter
4								
		<2.1	<2.6	<6.9	FOR-1550QA-SB13-1-5.0	0.0		10 % well graded fine gravel, one 1" diameter subangular gravel
6								
8								Poorly graded sand (SP), yellowish brown (10 YR 5/4), moist, medium subangular grains, trace coarse subangular to angular gravel, appears medium dense
		<2.1	<2.6	<6.9	FOR-1550QA-SB13-2-10.0	0.0		
10								
12								One 2" nodule of silty clay, yellowish brown (10 YR 5/4), in matrix. Increase in grain size to medium to coarse, 10% well graded fine gravel, trace coarse
14								Three nodules of silty clay in matrix
		<2.1	<2.6	<6.9	FOR-1550QA-SB13-3-15.0	0.0		
16								Silty sand (SM), yellowish brown (10 YR 5/4), 10% well graded fine gravel, interbedded with nodules of silty clay, moist, appears dense
18								
20		<2.1	3.0J	<6.9	FOR-1550QA-SB13-4-20.0	0.0		Silty clay (CL), yellowish brown (10 YR 5/4), moist, medium plasticity, medium consistency Poorly graded sand (SP), light yellowish brown (10 YR 6/4), moist, fine to medium grained, appears loose Silty clay (CL), yellowish brown (10 YR 5/4), moist, medium plasticity, medium consistency
22								Boring FOR-1550QA-SB13 terminated at 20 feet bgs at 09:20 on November 18, 2008. Backfilled with bentonite chips.

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QA-SB14

Dates Drilled: 11-18-08	Total Depth Drilled: 21 feet	Logged By: Bonnie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								Concrete
					FOR-1550QA-SB14-1-1	0.1		Silty sand (SM), yellowish brown (10YR 5/4), fine to medium grained, loose, moist
2								Large pieces of black (10YR 2/1), petroleum impregnated sand in matrix, some hard, some pliable, slight odor at 1 ft bgs Color change to dark yellowish brown (10YR 4/4), at 1.5 ft bgs
								Trace fine gravel, poorly graded, subangular to subrounded, yellowish brown (10YR 5/4) Little well graded gravels, fine to coarse
4		<2.1	<2.6	<6.9	FOR-1550QA-SB14-2-5	0.0		
6								Poorly graded sand (SP), medium grained, yellowish brown (10YR 5/4), little well graded coarse and subrounded gravels, moist, appears medium dense
8								
10		<2.1	<2.6	<6.9	FOR-1550QA-SB14-3-10	0.0		Grain size increases to medium to coarse, trace coarse gravels (2")
12								Blob of silty clay (CL), yellowish brown (10YR 5/4), medium plasticity, medium consistency, moist, appears dense
14								Silty clay (CL), yellowish brown (10YR 5/4), medium plasticity, medium consistency, moist, appears dense
		<2.1	<2.6	<6.9	FOR-1550QA-SB14-4-15	0.0		Well graded coarse subangular gravels in 3" layer
16								Poorly graded sand (SP), light yellowish brown (10YR 6/4), fine to medium grained, trace fine poorly graded gravels
								Silty sand (SM), yellowish brown (10YR 5/4), fine to medium grained, trace well graded coarse gravels, subrounded to subangular
18								Poorly graded sand (SP), light yellowish brown (10YR 6/4), fine to medium grained, trace fine poorly graded gravels
20		<2.1	<2.6	<6.9	FOR-1550QA-SB14-5-20	0.0		
		<2.1	<2.6	<6.9	FOR-1550QA-SB14-6-21	0.0		
22								Bottom of boring at 21 ft bgs

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QA-SB15

Dates Drilled: 11-18-08	Total Depth Drilled: 20 feet	Logged By: Bonnie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								Concrete
								Silty sand (SM), dark yellowish brown (10YR 4/4), moist, loose, trace decayed wood pieces One large asphalt-like piece, partly brittle, partly pliableat 1 ft bgs, black (10YR 2/1),
2								Yellowish brown (10YR 5/4), no wood, trace fine gravel, decrease in silt content to 15%
								Dark yellowish brown (10YR 4/4)
4								Yellowish brown (10YR 5/4)
		<2.1	<2.6	<6.9	FOR-1550QA-SB15-1-5	0.0		
6								
								Poorly graded sand (SP), fine to medium grained, moist, appears medium dense, yellowish brown (10YR 5/4), trace fine gravels
8								Light yellowish brown (10YR 6/4)
		<2.1	3.0J	<6.9	FOR-1550QA-SB15-2-10	0.0		
10								
								1" layer of well graded coarse gravels, 1/2" to 1" in diameter, subrounded One 2" blab of silty clay, yellowish brown (10YR 5/4), medium plasticity, appears dense, slightly moist
12								
								Silty clay (CL), yellowish brown (10YR 5/4), medium plasticity, appears dense, moist, trace fine well graded gravels 1" layer of well graded coarse gravels, subangular 1/2" to 1" in diameter
14		<2.1	<2.6	<6.9	FOR-1550QA-SB15-3-15	0.0		Well graded sand (SW), yellowish brown (10YR 5/4), trace silt, moist, appears medium dense, fine to coarse grained, subangular
								2" layer of silty clay (CL), yellowish brown (10YR 5/4), medium plasticity, appears dense, moist, trace fine well graded gravels, fine to medium grained
16								Poorly graded sand (SP), yellowish brown (10YR 5/4), trace silt, moist, appears medium dense, trace well graded fine gravel
18								Well graded sand (SW), fine to coarse grained, yellowish brown (10YR 5/4), moist, appears dense, trace well graded fine gravels
		<2.1	<2.6	<6.9	FOR-1550QA-SB15-4-20	0.0		
20								Bottom of boring at 20 ft bgs

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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805-349-7000

Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QA-SB16

Dates Drilled: 11-18-08	Total Depth Drilled: 20 feet	Logged By: Bonnie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								Concrete
					FOR-1550QA-SB16-1-1	0.0		Silty sand (SM), dark yellowish brown (10YR 4/6), fine to medium grained, mottled with black (10YR 2/1), no odor, iron oxidation present at 1.5 bgs. No more mottling
					FOR-1550QA-SB16-2-1.5	0.0		
2								Yellowish red (5YR 4/6), iron oxidation mottling
								Brown (10YR 4/3), no iron oxidation
								Trace well graded subrounded coarse gravels
4								Dark yellowish brown (10YR 4/4)
		<2.1	<2.6	<6.9	FOR-1550QA-SB16-3-5	0.0		
								Poorly graded sand (SP), light yellowish brown (10YR 6/4), medium grained, trace well graded fine subangular gravels
6								
8								Grain size medium to coarse, gravels well graded, fine to coarse, subrounded to subangular
		<2.1	<2.6	<6.9	FOR-1550QA-SB16-4-10	0.0		
10								Yellowish brown (10YR 5/4), fine to medium grained sand
12								Coarse gravels, subrounded (1")
								Silty clay (CL), yellowish brown (10YR 5/4), moist, medium consistency, medium plasticity
								Well graded sand (SW), yellowish brown (10YR 5/4), medium to coarse gravel with well graded fine gravels
14								Poorly graded sand (SP), yellowish brown (10YR 5/4), fine to medium grained, moist, appears medium dense, trace fine gravel
		<2.1	2.8J	<6.9	FOR-1550QA-SB16-5-15	0.0		
								Silty clay (CL), yellowish brown (10YR 5/4), moist, medium consistency, medium plasticity
16								Well graded sand (SW), yellowish brown (10YR 5/4), medium to coarse gravel with well graded fine gravels
18								Poorly graded sand (SP), yellowish brown (10YR 5/4), fine to medium grained, moist, appears medium dense, trace fine gravel
		<2.1	<2.6	<6.9	FOR-1550QA-SB16-6-20	0.0		
20								Bottom of boring at 20 ft bgs

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QA-SB/TP17

Dates Drilled: 12-4-08	Total Depth Drilled: 25 feet	Logged By: Natalie Williams
Drilling Contractor: S&G Drilling	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated, see trench log FOR-1550QA-SB/TP17) Silty sand (SM), very dark grayish brown (10YR 3/2), trace gravel, subangular, 1/2" to 3/4", medium to fine grained, appears medium dense, organics growing on surface
2		16	<2.6	<6.9	FOR-1550QA-SB/TP17-1-3	0.0		
4								
6								Silty sand (SM), yellowish brown (10YR 5/6), slightly moist, fine to medium grained, appears medium dense, grains subrounded, ~1% subrounded gravel up to 1 cm in diameter, ~15% fines
8								Well graded sand with silt (SW), yellowish brown (10YR 5/6), slightly moist, appears medium dense, ~5% subrounded gravel up to 2 cm in diameter, grains subrounded
10		<2.1	<2.6	<6.9	FOR-1550QA-SB/TP17-2-10.0	0.0		~1% gravel up to 1 cm in diameter
12								Silty sand (SM), yellowish brown (10YR 5/6), slightly moist, fine grained, appears medium dense, grains subrounded, homogeneous, ~15% fines
14		<2.1	<2.6	<6.9	FOR-1550QA-SB/TP17-3-15.0	0.0		
16								Well graded sand (SW), yellowish brown (10YR 5/6), slightly moist, appears medium dense, ~3% subrounded gravel up to 1 cm in diameter, subrounded grains
18								Silt with sand (ML), dark yellowish brown (10YR 4/6), slightly moist, appears medium stiff, non-plastic, scattered nodules of lean clay up to 1 cm in diameter Silty sand (SM), yellowish brown (10YR 5/6), slightly moist, fine grained, appears medium dense At ~18.5 feet bgs becomes fine to medium grained, subrounded grains, ~15% fines
20		<2.1	<2.6	<6.9	FOR-1550QA-SB/TP17-4-20.0	0.0		
22								
24		<2.1	<2.6	<6.9	FOR-1550QA-SB/TP17-5-25.0	0.0		Lean clay with sand (CL), dark yellowish brown (10YR 4/4), slightly moist, appears medium stiff, low plasticity, ~20% fine to medium grained sand, subrounded grains
26								Boring FOR-1550QA-SB/TP17 terminated at 25 feet bgs at 14:50 on December 4, 2008 and backfilled with bentonite chips

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QA-SB/TP18

Dates Drilled: 12-5-08	Total Depth Drilled: 15 feet	Logged By: Natalie Williams
Drilling Contractor: S&G Drilling	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated; see trench log FOR-1550QA-SB/TP18) Gravelly sand (GW), very dark grayish brown (10YR 3/2), wet, subangular .25" to 1.25" sand, medium grained, appears dense, no odor (roadbase)
2								Silty sand (SM), brownish yellow (10YR 6/6), damp, medium grained, appears medium dense, no odor (fill)
4		<2.1	<2.6	<6.9	FOR-1550QA-SB/TP18-1-5	0.0		
6								Silty sand (SM), dark yellowish brown (10YR 3/4), slightly moist, fine grained, appears medium dense At ~5.25 feet bgs: Yellowish brown (10YR 5/6) (native) At ~5.5 feet bgs: Fine to medium grained, ~20% fines, ~1% subrounded gravel up to 2 cm in diameter
8								~15% fines
10		<2.1	<2.6	<6.9	FOR-1550QA-SB/TP18-2-10.0	0.0		
12								Sandy lean clay (CL), dark yellowish brown (10YR 4/4), slightly moist, appears medium stiff, low plasticity ~1% subrounded gravel up to 1.5 cm diameter
14		<2.1	<2.6	<6.9	FOR-1550QA-SB/TP18-3-15.0	0.0		
16								Boring FOR-1550QA-SB/TP18 terminated at 15 feet bgs at 10:55 on December 5, 2008 and backfilled with bentonite chips

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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Santa Maria, CA 93455
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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QA-SB/TP19

Dates Drilled: 12-5-08	Total Depth Drilled: 15 feet	Logged By: Natalie Williams
Drilling Contractor: S&G Drilling	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	
Comments: Privileged and Confidential Attorney - Client Communication		

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated; see trench log FOR-1550QA-SB/TP19) Well graded gravelly sand (GW), grayish brown, damp, subangular gravel between 0.5 and 1.5 sm in diameter, medium grained, appears dense, no odor (roadbase)
								Silty sand (SM), yellowish brown (10YR 5/4), damp, medium grained, appears medium dense, trace gravel, subangular, no odor (fill)
4		<2.1	<2.6	<6.9	FOR-1550QA-SB/TP19-1-5	0.0		
6								Silty sand with trace gravel (SM), dark yellowish brown (10YR 3/4), slightly moist, fine grained, appears medium dense, ~1% subrounded gravel up to 1.5 cm diameter At ~5.2 feet bgs: Yellowish brown (10YR 5/6) (native) At ~5.5 feet bgs: Fine to medium grained, ~20% fines
8								~15% fines
10		<2.1	<2.6	<6.9	FOR-1550QA-SB/TP19-2-10.0	0.0		
12								Sandy lean clay (CL), dark yellowish brown (10YR 4/4), slightly moist, appears medium stiff, low plasticity ~3% trace gravel up to 2.5 cm in diameter
14		<2.1	<2.6	<6.9	FOR-1550QA-SB/TP19-3-15.0	0.0		Lean clay (CL); dark yellowish brown (10YR 4/4), slightly moist, appears medium stiff, medium plasticity
16								Boring FOR-1550QA-SB/TP19 terminated at 15 feet bgs at 10:20 on December 5, 2008 and backfilled with bentonite chips

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QA-SB/TP20

Dates Drilled: 12-5-08	Total Depth Drilled: 15 feet	Logged By: Natalie Williams
Drilling Contractor: S&G Drilling	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated; see trench log FOR-1550QA-SB/TP20) Well graded gravelly sand (GW), grayish brown, damp, subangular gravel, appears dense, no odor (roadbase)
								Silty sand (SM), yellowish brown (10YR 4/6), damp, medium grained, appears medium dense, trace gravel, subangular, no odor (fill)
4		<2.1	<2.6	<6.9	FOR-1550QA-SB/TP20-1-5	0.0		
								Silty sand with trace gravel (SM), dark yellowish brown (10YR 3/4), slightly moist, fine grained, appears medium dense, ~1% subrounded gravel up to 1 cm diameter At ~5.25 feet bgs becomes yellowish brown (10YR 5/6) ~15% fines (native)
8								
10		<2.1	4.1J	<6.9	FOR-1550QA-SB/TP20-2-10.0	0.0		Gravel up to 2 cm in diameter
12								Scattered nodules of clay up to ~1 cm in diameter
14		<2.1	<2.6	<6.9	FOR-1550QA-SB/TP20-3-15.0	0.0		Silt with sand (ML), dark yellowish brown (10YR 4/6), slightly moist, appears medium stiff, non plastic, very fine grained
16								Boring FOR-1550QA-SB/TP20 terminated at 15 feet bgs at 9:55 on December 5, 2008 and backfilled with bentonite chips

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QA-SB/TP21

Dates Drilled: 12-5-08	Total Depth Drilled: 15 feet	Logged By: Natalie Williams
Drilling Contractor: S&G Drilling	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated; see trench log FOR-1550QA-SB/TP21) Well graded gravelly sand (GW), very dark grayish brown (10YR 3/2), wet, subangular gravel between 0.5 and 1.5 cm diameter, appears medium dense, no odor (roadbase)
2								Silty sand (SM), dark yellowish brown (10YR 4/4), moist, medium grained, appears medium dense, trace gravel 1/2" to 3/4" in diameter, no odor (fill)
4								
4		<2.1	<2.6	<6.9	FOR-1550QA-SB/TP21-1-5	0.0		Dark yellowish brown (10YR 4/6), fine grained At ~5.25 feet bgs becomes yellowish brown (10YR 5/6), ~1% subrounded gravel up to 1 cm in diameter (native)
6								
8								
8								Gravel up to 2.5 cm in diameter, fine to medium grained sand, ~15% fines, subrounded grains
10		<2.1	<2.6	<6.9	FOR-1550QA-SB/TP21-2-10.0	0.0		
12								
12								Silt with sand (ML), dark yellowish brown (10YR 4/6), slightly moist, appears medium stiff, non-plastic, very fine grained
14								Silty sand (SM), yellowish brown (10YR 5/6), slightly moist, fine grained, appears medium dense At ~13.75 ft bgs cecomes fine to medium grained, ~1% subrounded gravel up to 1 cm in diameter, ~15% fines
14		<2.1	<2.6	<6.9	FOR-1550QA-SB/TP21-3-15.0	0.0		
16								Boring FOR-1550QA-SB/TP21 terminated at 15 feet bgs at 8:55 on December 5, 2008 and backfilled with bentonite chips

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QA-SB/TP22

Dates Drilled: 12-4-08	Total Depth Drilled: 25 feet	Logged By: Natalie Williams
Drilling Contractor: S&G Drilling	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0					FOR-1550QA-SB/TP22-1-0.5	0.0		(Upper 5 feet previously excavated; see trench log FOR-1550QA-SB/TP22) Silty sand (SM), yellowish brown (10YR 5/6), oil impregnated sand clasts on surface, moist, medium grained, appears medium dense, trace gravel, no odor (fill)
2								Silty sand (SM), brownish yellow (10YR 6/6), moist, medium grained, appears medium dense, no odor (fill)
4		<2.1	<2.6	<6.9	FOR-1550QA-SB/TP22-2-5	0.0		Yellowish brown (10YR 5/6), slightly moist, fine grained, grains subrounded
6								
8								
10		<2.1	<2.6	<6.9	FOR-1550QA-SB/TP22-3-10.0	0.0		Fine to medium grained sand, ~15% fines
12								Well graded sand (SW), yellowish brown (10YR 5/6), slightly moist, appears medium dense, ~3% subrounded gravel up to 1 cm in diameter
14		<2.1	<2.6	<6.9	FOR-1550QA-SB/TP22-4-15.0	0.0		Lean clay with sand (CL), dark yellowish brown (10YR 4/6), slightly moist, appears medium stiff, non-plastic
16								Silty sand (SM), yellowish brown (10YR 5/6), slightly moist, fine grained, appears medium dense
18								Fine to medium grained, ~15% fines, ~1% trace subrounded gravel up to 1 cm in diameter
20		<2.1	<2.6	<6.9	FOR-1550QA-SB/TP22-5-20.0	0.0		Fine grained sand, no gravel
22								
24		<2.1	<2.6	<6.9	FOR-1550QA-SB/TP22-6-25.0	0.0		Silt with sand (ML), dark yellowish brown (10YR 4/6), slightly moist, appears medium stiff, non-plastic
26								Boring FOR-1550QA-SB/TP22 terminated at 25 feet bgs at 13:35 on December 4, 2008 and backfilled with bentonite chips

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QA-SB23

Dates Drilled: 11-18-08	Total Depth Drilled: 30 feet	Logged By: Natalie Williams
Drilling Contractor: S&G Drilling	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(0-10 feet bgs previously excavated; see trench log FOR-1550QA-TP13) Poorly graded gravel with sand (GP), grayish brown, slightly moist, appears medium dense, gravel is maximum 2.5 cm diameter
2					FOR-1550QA-TP13-1-3	0.0		Silty sand with trace gravel (SM), dark brown, slightly moist, scattered clasts of oil impregnated soil, appears medium dense, fine to medium grained
4								Calving in sides of trench
6					FOR-1550QA-TP13-3-6	0.0		
8								Silty sand (SM); black; very moist; fine grained; appears medium dense; slight hydrocarbon odor
10					FOR-1550QA-TP13-2-10	0.0		Fine to medium grained sand
12		610	5.1J	56	FOR-1550QA-SB23-1-12.0	0.0		
14								Silty sand (SM); yellowish brown; slightly moist; fine to medium grained; appears medium dense; ~20% fines
16		<2.1	3.2J	<6.9	FOR-1550QA-SB23-2-15.0	0.0		Trace gravel (~1%), up to 1 cm in diameter, subrounded, ~15% fines
18								
20		<2.1	4.5J	<6.9	FOR-1550QA-SB23-3-20.0	0.0		Homogeneous sand with no gravel
22								
24								
26		<2.1	2.7J	<6.9	FOR-1550QA-SB23-4-25.0	0.0		
28								Well-graded sand with gravel (SW); yellowish-brown; slightly moist; appears medium dense; approx. 10% gravel clasts up to 1 cm in diameter.
30		<2.1	<2.6	<6.9	FOR-1550QA-SB23-5-30.0	0.0		Silty sand with trace gravel (SM); yellowish brown; slightly moist; fine to medium grained; appears medium dense; gravel subrounded; ~1% gravel
								Boring for FOR-1550QA-SB23 terminated at 30 feet bgs at 11:50 on November 18, 2008 due to refusal - boring caved in to surface

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QA-SB/TP24

Dates Drilled: 12-03-08	Total Depth Drilled: 25 feet	Logged By: Natalie Williams
Drilling Contractor: S&G Drilling	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated; see trench log FOR-1550QA-SB/TP24) Well graded gravelly sand (GW), gray to grayish brown, dry to moist, gravel is subangular (1/4" to 3/4"), sand is medium grained to very coarse grained, appears dense, no odor (road base)
2		<2.1	<2.6	<6.9	FOR-1550QA-SB/TP24-1-2.0	0.0		Silty sand (SM), dark brown, moist, sand is fine grained, trace gravels, wood debris, brick fragments, no odor (fill)
4								Silty sand (SM), yellowish brown, moist, sand is fine to medium grained, appears medium dense, no odor (appears to be undisturbed native)
		<2.1	<2.6	<6.9	FOR-1550QA-SB/TP24-2-5.0	0.0		~1% subrounded gravel up to 1 cm diameter, sand subrounded
6								Well graded sand (SW), yellowish brown, (10YR 5/6), slightly moist, appears medium dense, ~1% subrounded gravel up to 1 cm diameter
8								Silty sand with trace gravel (SM), yellowish brown, (10YR 5/6), slightly moist, fine grained, appears medium dense, ~1% subrounded gravel up to 1 cm diameter, sand subrounded
10		<2.1	<2.6	<6.9	FOR-1550QA-SB/TP24-3-10.0	0.0		Well graded sand (SW), yellowish brown, (10YR 5/6), slightly moist, appears medium dense, ~5% subrounded gravel up to ~1.5 cm diameter
12								
14								Gravel up to 3 cm diameter
		<2.1	<2.6	<6.9	FOR-1550QA-SB/TP24-4-15.0	0.0		~1% gravel up to 1 cm diameter
16								
18								Lean clay with sand and trace gravel (CL), dark yellowish brown, (10YR 4/4), slightly moist, appears medium stiff, low plasticity, sand fine to medium grained, ~3% subrounded gravel up to 1.5 cm diameter
20		<2.1	<2.6	<6.9	FOR-1550QA-SB/TP24-5-20.0	0.0		Silty sand (SM), yellowish brown, (10YR 5/6), slightly moist, fine grained, appears medium dense, grains well rounded
22								Fine to medium grained, grains subrounded
24								Well graded sand (SW), yellowish brown, (10YR 5/6), slightly moist, appears medium dense, ~1% gravel up to 1 cm diameter
		<2.1	<2.6	<6.9	FOR-1550QA-SB/TP24-6-25.0	0.0		Sand with silt (ML), dark yellowish brown, (10YR 4/6), slightly moist, appears medium stiff, non-plastic, very fine grained
26								Boring FOR-1550QA-SB/TP24 terminated at 25 feet bgs at 13:40 on December 3, 2008 and backfilled with bentonite chips

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QA-SB/TP25

Date Drilled: 12/09/08	Total Depth Drilled: 15 feet	Logged By: Bonnie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated; see trench log FOR-1550QA-SB/TP25) Well graded gravelly sand (GW), grayish brown, dry, subangluar gravel 0.25" to 0.75" in diameter, medium grained, appears medium dense, no odor (roadbase)
2								Silty sand (SM), dark brown, damp, sand is fine grained, trace gravels, appears dense, no odor (fill)
4		<2.1	<2.6	<6.9	FOR-1550QA-SB25-1-5.0	0.0		Silty sand (SM), yellowish brown, damp, sand is fine to medium grained, appears medium dense, no odor (native)
6								Poorly graded sand (SP), yellowish brown (10YR 5/4), fine to medium grained, rounded to subrounded, trace silt, moist, appears loose
8								Well graded sand (SW), very pale brown (10YR 7/3), fine to coarse grained, rounded to subangular, 15% well graded gravel, fine to coarse, rounded to subrounded, appears dense, moist
10		<2.1	<2.6	<6.9	FOR-1550QA-SB25-2-10.0	0.0		Poorly graded sand (SP), light yellowish brown (10YR 6/4), fine grained, rounded, appears medium dense, moist
12								Well graded sand (SW), very pale brown (10YR 7/3), fine to coarse grained, rounded to subangular, 15% well graded gravel, fine to coarse, rounded to subrounded, trace very coarse gravel up to 1" diameter, appears dense, moist
								Poorly graded sand (SP), light yellowish brown (10YR 6/4), fine grained, trace fine gravel, rounded, one coarse gravel (3/4" diameter) appears medium dense, moist
								Well graded sand (SW), very pale brown (10YR 7/3), fine to coarse grained, rounded to subangular, 15% well graded gravel, fine to coarse, rounded to subrounded, trace very coarse gravel up to 1" diameter, appears dense, moist
14								Poorly graded sand (SP), light yellowish brown (10YR 6/4), fine to medium grained, rounded, trace fine gravel, rounded, appears dense, moist
		<2.1	7.3J	<6.9	FOR-1550QA-SB25-3-15.0	0.0		Well graded sand (SW), very pale brown (10YR 7/3), fine to coarse grained, rounded to subangular, 15% well graded gravel, fine to coarse, rounded to subrounded, trace very coarse gravel up to 1" diameter, appears dense, moist
16								End of Boring at 15 ft bgs

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

URS
2625 S. Miller Street, Suite 104
Santa Maria, CA 93455
805-349-7000

Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QA-SB/TP26

Dates Drilled: 12-03-08	Total Depth Drilled: 25 feet	Logged By: Natalie Williams
Drilling Contractor: S&G Drilling	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated; see trench log FOR-1550QA-SB/TP26) Well graded gravelly sand (GW), gray to grayish brown, dry to moist, gravel is subangular (1/4" to 3/4"), sand is medium grained to very coarse grained, appears dense, no odor (road base)
2		<2.1	<2.6	<6.9	FOR-1550QA-SB/TP26-1-2.0	0.0		Silty sand (SM), dark brown, moist, sand is fine grained with fine, trace gravels, wood debris, brick fragments, appears dense, no odor (fill)
4		<2.1	<2.6	<6.9	FOR-1550QA-SB/TP26-2-5.0	0.0		Silty sand (SM), yellowish brown, moist, sand is fine to medium grained, appears medium dense, no odor (appears to be native) ~1% trace gravel up to 1.5 cm diameter
6								
8								Fine grained
10		<2.1	<2.6	<6.9	FOR-1550QA-SB/TP26-3-10.0	0.0		Well graded sand (SW), yellowish brown (10YR 5/6), slightly moist, appears medium dense, ~5% gravel up to 2 cm diameter, gravel is subrounded
12								Silty sand (SM), yellowish brown (10YR 5/6), slightly moist, fine grained, appears medium dense
14		<2.1	3.8J	<6.9	FOR-1550QA-SB/TP26-4-15.0	0.0		
16								
18								Well graded sand with clay (SW-SC), yellowish brown (10YR 5/6), slightly moist, appears medium dense, ~10% subrounded gravel up to 2 cm diameter, ~10% fines, low plasticity, appears medium stiff
20		<2.1	<2.6	<6.9	FOR-1550QA-SB/TP26-5-20.0	0.0		Silt with sand (ML), dark yellowish brown (10YR 4/6), slightly moist, appears medium stiff, non-plastic
22								Silty sand (SM), yellowish brown (10YR 5/6), slightly moist, fine grained, appears medium dense
24		<2.1	2.9J	<6.9	FOR-1550QA-SB/TP26-6-25.0	0.0		Boring FOR-1550QA-SB/TP26 terminated at 25 feet bgs at 10:55 on December 3, 2008 and backfilled with bentonite chips
26								

Explanation

Sand (SP), Silt, Silty Sand (SM), Clayey Silt, Clayey Sand (SC), Silty Clayey Sand, Red Rock, Roadbase, Bentonite Chips

Sand (SW), Clay, Sandy Silt (ML), Silty Clay, Sandy Clay, Organic Silt, Gravel, Petroleum Impacted

URS
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Santa Maria, CA 93455
805-349-7000

Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QA-SB/TP27

Dates Drilled: 11-19-08	Total Depth Drilled: 25 feet	Logged By: Natalie Williams
Drilling Contractor: S&G Drilling	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated; see trench log FOR-1550QA-SB/TP27) Silty sand with trace gravel (SM), yellowish brown, slightly moist, medium grained, appears medium dense, gravel clasts up to ~2.5 cm diameter
4	■	<2.1	<2.6	<6.9	FOR-1550QA-SB/TP27-1-5			
6								Silty sand (SM), yellowish brown, slightly moist, fine to medium-grained, appears medium dense, ~20% fines
10	■	<2.1	4.2J	<6.9	FOR-1550QA-SB/TP27-2-10.0	0.0		~1% trace gravel, subrounded gravel clasts up to 1 cm in diameter
14	■	<2.1	4.0J	<6.9	FOR-1550QA-SB/TP27-3-15.0	0.0		
18								Coarser sand, ~15% fines
20	■	<2.1	<2.6	<6.9	FOR-1550QA-SB/TP27-4-20.0	0.0		~3% gravel up to 2 cm in diameter
24	■	<2.1	3.2J	<6.9	FOR-1550QA-SB/TP27-5-25.0	0.0		
26								Boring FOR-1550QA-SB/TP27 terminated at 25 feet bgs at 8:25 on November 19, 2008 and backfilled with bentonite chips

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QA-SB/TP28

Dates Drilled: 11-18-08	Total Depth Drilled: 20 feet	Logged By: Natalie Williams
Drilling Contractor: S&G Drilling	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated; see trench log FOR-1550QA-SB/TP28) Silty sand with trace gravel (SM), yellowish brown, slightly moist, medium grained, appears medium dense, gravel clasts subangular, scattered concrete clasts up to 20 cm in diameter
4	■	<2.1	<2.6	27J	FOR-1550QA-SB/TP28-1-5	0.0		
6								Silty sand with trace gravel (SM), yellowish brown, slightly moist, fine to medium-grained, appears medium dense, ~15% fines, gravel is subangular and up to 2 cm in diameter, ~1% gravel
10	■	<2.1	3.0	<6.9	FOR-1550QA-SB/TP28-2-10.0	0.0		~2% gravel, ~10% fines
14	■	<2.1	<2.6	<6.9	FOR-1550QA-SB/TP28-3-15.0	0.0		
20	■	<2.1	<2.6	<6.9	FOR-1550QA-SB/TP28-4-20.0	0.0		Clay (CL), brown, slightly moist, appears stiff, low plasticity Boring FOR-1550QA-SB/TP28 terminated at 20 feet bgs at 15:00 on November 18, 2008 and backfilled with bentonite chips

Explanation

Sand (SP), Silt, Silty Sand (SM), Clayey Silt, Clayey Sand (SC), Silty Clayey Sand, Red Rock, Roadbase, Bentonite Chips

Sand (SW), Clay, Sandy Silt (ML), Silty Clay, Sandy Clay, Organic Silt, Gravel, Petroleum Impacted

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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QA-TP/SB29

Dates Drilled: 11-18-08	Total Depth Drilled: 20 feet	Logged By: Natalie Williams
Drilling Contractor: S&G Drilling	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated; see trench log FOR-1550QA-TP/SB29) Silty sand with trace gravel (SM), yellowish brown, slightly moist, appears medium dense, gravel up to 2 cm in diameter
4	■	<2.1	<2.6	6.9	FOR-1550QA-TP/SB29-1-5	0.0		Fine to medium grained, gravel subrounded, up to 1cm in diameter, ~15 % fines
10	■	<2.1	<2.6	<6.9	FOR-1550QA-TP/SB29-2-10	0.0		Clay (CL), dark yellowish brown, slightly moist, low plasticity, appears medium stiff
14	■	<2.1	<2.6	<6.9	FOR-1550QA-TP/SB29-3-15	0.0		Silty sand with trace gravel (SM), yellowish brown, slightly moist, fine to medium grained, appears to be medium dense, gravel up to 0.5 cm in diameter, ~3% gravel, ~15% fines
18								Sand becomes more coarse
20	■	<2.1	<2.6	<6.9	FOR-1550QA-TP/SB29-4-20	0.0		Boring for FOR-1550QA-TP/SB29 terminated at 20 feet bgs at 14:15 on November 18, 2008 and backfilled with bentonite chips

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QA-SB/TP30

Dates Drilled: 12-03-08	Total Depth Drilled: 20 feet	Logged By: Natalie Williams
Drilling Contractor: S&G Drilling	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated; see trench log FOR-1550QA-SB/TP30) Silty sand (SM), yellowish brown, trace gravel near surface, slightly moist after 1.5 feet, appears medium dense, gravel no greater than 2 cm in diameter
4	■	<2.1	<2.6	<6.9	FOR-1550QA-SB/TP30-1-5.0	0.0		
6								Silty sand with trace gravel (SM); yellowish brown (10YR 5/6); slightly moist; fine to medium grained; appears medium dense; ~1% trace subrounded gravel up to 1.5 cm diameter; ~15% fines; sand grains subrounded
10	■	<2.1	4.5J	<6.9	FOR-1550QA-SB/TP30-2-10.0	0.0		Well graded sand (SW); yellowish brown (10YR 5/6); slightly moist; appears medium dense; ~1% gravel up to 2 cm diameter; gravel is subangular
14	■	<2.1	10	<6.9	FOR-1550QA-SB/TP30-3-15.0	0.0		Silty sand (SM); yellowish brown (10YR 5/6); slightly moist; fine grained; appears medium dense
16								Lean clay with sand (CL); dark yellowish brown (10YR 4/6); slightly moist; appears medium stiff; low plasticity
18								Silty sand (SM); yellowish brown (10YR 5/6); slightly moist; fine grained; appears medium dense; grains are subrounded ~18.5 feet becomes fine to medium grained; ~15% fines
20	■	<2.1	<2.6	<6.9	FOR-1550QA-SB/TP30-4-20.0	0.0		Boring FOR-1550QA-SB/TP30 terminated at 20 feet bgs at 8:45 on December 3, 2008 and backfilled with bentonite chips

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QA-SB/TP31

Dates Drilled: 11-19-08	Total Depth Drilled: 25 feet	Logged By: Natalie Williams
Drilling Contractor: S&G Drilling	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated; see trench log FOR-1550QA-SB/TP31) Silty sand with trace gravel (SM), yellowish brown, slightly moist, medium grained, appears medium dense, large concrete clasts at the surface, some oil impregnated clasts scattered throughout
4		<2.1	<2.6	<6.9	FOR-1550QA-SB/TP31-1-5	0.0		
6								Silty sand with trace gravel (SM), dark yellowish brown, slightly moist, fine to medium-grained, appears medium dense, <1% gravel, gravel clasts up to 1 cm in diameter, ~15% fines, homogeneous sand
8								~3% gravel
10		<2.1	2.6J	<6.9	FOR-1550QA-SB/TP31-2-10.0	0.0		Gravel up to 2 cm in diameter
14		<2.1	2.6J	<6.9	FOR-1550QA-SB/TP31-3-15.0	0.0		~1% gravel up to 1 cm in diameter
20		<2.1	3.6J	<6.9	FOR-1550QA-SB/TP31-4-20.0	0.0		Fine grained sand
24		<2.1	<2.6	<6.9	FOR-1550QA-SB/TP31-5-25.0	0.0		
26								Boring FOR-1550QA-SB/TP31 terminated at 25 feet bgs at 10:30 on November 19, 2008 and backfilled with bentonite chips

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QA-SB/TP32

Dates Drilled: 12-05-08	Total Depth Drilled: 20 feet	Logged By: Natalie Williams
Drilling Contractor: S&G Drilling	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated; see trench log FOR-1550QA-SB/TP30) Silty sand with trace gravel (SM), grayish brown, slightly moist, appears medium dense, gravel is maximum 2 cm in diameter; ~15% fines
2								Poorly graded gravel with sand (GP); grayish brown; slightly moist; appears medium dense; gravel is maximum 3.5 cm in diameter
4								Silty sand (SM); yellowish brown; slightly moist; medium grained; appears medium dense; scattered clasts of oil impregnated soil
		<2.1	<2.6	<6.9	FOR-1550QA-SB/TP32-1-5.0	0.0		
6								Silt with sand (ML); dark yellowish brown (10YR 3/4); slightly moist; appears medium stiff; non plastic @ ~5.25 feet bgs: Dark yellowish brown (10YR 4/6); ~1% subrounded gravel up to 1 cm in diameter
8								No gravel
								Scattered very dark brown (10YR 1/2) nodules
		<2.1	<2.6	<6.9	FOR-1550QA-SB/TP32-2-10.0	0.0		
10								Silty sand with trace gravel (SM); yellowish brown (10YR 5/6); slightly moist; fine grained; appears medium dense; ~1% subrounded gravel up to 1 cm diameter; ~20% fines
12								Fine to medium grained; ~15% fines
								Gravel up to 2 cm diameter
14								
		<2.1	<2.6	<6.9	FOR-1550QA-SB/TP32-3-15.0	0.0		
16								Fine grained; ~1% gravel up to 1 cm diameter
18								
20		<2.1	<2.6	<6.9	FOR-1550QA-SB/TP32-4-20.0	0.0		Boring FOR-1550QA-SB/TP32 terminated at 20 feet bgs at 14:35 on December 5, 2008 and backfilled with bentonite chips

Explanation

Sand (SP); Silt; Silty Sand (SM); Clayey Silt; Clayey Sand (SC); Silty Clayey Sand; Red Rock; Roadbase; Bentonite Chips

Sand (SW); Clay; Sandy Silt (ML); Silty Clay; Sandy Clay; Organic Silt; Gravel; Petroleum Impacted

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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QA-SB/TP33

Dates Drilled: 12-3-08	Total Depth Drilled: 25 feet	Logged By: Natalie Williams
Drilling Contractor: S&G Drilling	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								
								(Upper 5 feet previously excavated; see trench log FOR-1550QA-SB/TP33) Well graded gravelly sand (GW), grayish brown, dry, subangular gravel 1/4" to 3/4" in diameter, medium grained, loose, no odor (roadbase)
2								Intact oil impregnated sand /oil impregnated sand clasts, dry, brittle
								Silty sand (SM), dark brown, moist, fine grained, appears medium dense, trace gravel, no odor (fill)
4								
		<2.1	<2.6	<6.9	FOR-1550QA-SB/TP33-2-5	0.0		Silty sand (SM), yellowish brown, moist, sand is fine grained, appears medium dense, no odor (native) Slightly moist, fine grained, homogeneous, well rounded grains At ~5.5 ft bgs: Fine to medium grained, ~15% fines, ~3% trace subrounded gravel up to 2 cm diameter
6								
								Well graded sand (SW), yellowish brown (10YR 5/6), slightly moist, appears medium dense, ~5% gravel up to 2 cm diameter, gravel is subrounded
8								
10		<2.1	<2.6	<6.9	FOR-1550QA-SB/TP33-3-10.0	0.0		
								Silty sand (SM), yellowish brown (10YR 5/6), slightly moist, fine grained, appears medium dense, grains subrounded
12								Fine to medium grained
								Well graded sand (SW), yellowish brown (10YR 5/6), slightly moist, appears medium dense, ~3% trace subrounded gravel up to 1 cm diameter
14		<2.1	<2.6	<6.9	FOR-1550QA-SB/TP33-4-15.0	0.0		Silty sand (SM), yellowish brown (10YR 5/6), slightly moist, fine grained, appears medium dense At ~13.75 feet bgs becomes scattered nodules of clay up to 1.5 cm diameter
16								Well graded sand (SW), yellowish brown (10YR 5/6), slightly moist, appears medium dense, ~3% subrounded gravel up to 1 cm diameter
18								
								~15% subrounded gravel up to 2.5 cm diameter
20		<2.1	4.0J	<6.9	FOR-1550QA-SB/TP33-5-20.0	0.0		
								Silty sand with trace gravel (SM), yellowish brown (10YR 5/6), slightly moist, fine to medium grained, appears medium dense, ~1% subrounded gravel up to 1 cm diameter At ~22.5 feet bgs becomes several nodules of clay up to 1 cm diameter
22								
24								
		<2.1	<2.6	<6.9	FOR-1550QA-SB/TP33-6-25.0	0.0		
								Boring FOR-1550QA-SB/TP33 terminated at 25 feet bgs at 12:00 on December 3, 2008 and backfilled with bentonite chips
26								

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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Santa Maria, CA 93455
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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QA-SB/TP34

Dates Drilled: 12-3-08	Total Depth Drilled: 25 feet	Logged By: Natalie Williams
Drilling Contractor: S&G Drilling	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated; see trench log FOR-1550QA-SB/TP34) Well graded gravelly sand (GW), gray to grayish brown, dry, subangular gravel 1/4" to 3/4" in diameter, medium grained, appears medium dense, no odor (roadbase)
2								Intact oil impregnated sand, dry, brittle
								Silty sand (SM), light gray, moist, fine to medium grained, appears medium dense, trace gravel, no odor (fill)
4								Silty sand (SM), yellowish brown, moist, sand is fine to medium grained, appears medium dense, no odor, trace gravel, oil impregnated clasts scattered within (fill)
								Silt with sand (ML), yellowish brown (10YR 5/6), slightly moist, appears medium stiff, non-plastic, very fine grained
6								Silty sand with trace gravel (SM), yellowish brown (10YR 5/6), slightly moist, fine grained, ~1% trace subrounded gravel up to 1 cm diameter, subrounded grains
8								Fine to medium grained sand
	3.4J	530	740		FOR-1550QA-SB/TP34-1-1.5	0.0		
	<2.1	<2.6	<6.9		FOR-1550QA-SB/TP34-2-5	0.0		
10	<2.1	<2.6	<6.9		FOR-1550QA-SB/TP34-3-10.0	0.0		
12								Well graded sand (SW), yellowish brown (10YR 5/6), slightly moist, appears medium dense, ~6% subrounded gravel up to 2 cm diameter, grains subrounded
14								Silty sand (SM), yellowish brown (10YR 5/6), slightly moist, fine to medium grained, appears medium dense, grains subrounded
	<2.1	<2.6	<6.9		FOR-1550QA-SB/TP34-4-15.0	0.0		
16								~!% trace subrounded gravel up to 1 cm in diameter
18								Well graded sand (SW), yellowish brown (10YR 5/6), slightly moist, appears medium dense, ~1% subangular gravel up to 1.5 cm diameter, grains subrounded
20	<2.1	<2.6	<6.9		FOR-1550QA-SB/TP34-5-20.0	0.0		
								Silty sand with trace gravel (SM), yellowish brown (10YR 5/6), slightly moist, fine to medium grained, appears medium dense, ~3% gravel up to 2 cm in diameter, gravel subrounded, sand grains subrounded
22								
24								Silty sand with trace gravel (SM), very dark grayish brown (10YR 3/2), slightly moist, fine to medium grained, appears medium dense, ~3% subrounded gravel up to 2 cm in diameter, sand grains subrounded, moderate hydrocarbon odor
	<2.1	41	79		FOR-1550QA-SB/TP34-6-25.0	0.0		
26								Boring FOR-1550QA-SB/TP34 terminated due to refusal at 25 feet bgs at 14:45 on December 3, 2008 and backfilled with bentonite chips

Explanation

Sand (SP), Silt, Silty Sand (SM), Clayey Silt, Clayey Sand (SC), Silty Clayey Sand, Red Rock, Roadbase, Bentonite Chips

Sand (SW), Clay, Sandy Silt (ML), Silty Clay, Sandy Clay, Organic Silt, Gravel, Petroleum Impacted

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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QA-SB/TP35

Dates Drilled: 12-3-08	Total Depth Drilled: 25 feet	Logged By: Natalie Williams
Drilling Contractor: S&G Drilling	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated; see trench log FOR-1550QA-SB/TP35) Well graded gravelly sand (GW), grayish brown, dry, subangular gravel, medium grained, appears medium dense, no odor (roadbase)
2								Silty sand (SM), gray, damp, medium grained, appears medium dense, trace gravel up to 0.75" diameter, no odor (fill)
4	■	<2.1	<2.6	<6.9	FOR-1550QA-SB/TP35-1-5	0.0		Silty sand (SM), yellowish brown, damp, sand is fine to medium grained, appears medium dense, no odor (native) ~5% subrounded gravel up to 3.5 cm in diameter, sand grains subrounded
6								
8								
10	■	<2.1	<2.6	<6.9	FOR-1550QA-SB/TP35-2-10.0	0.0		Fine grained, no trace gravel
12								Fine to medium grained
14	■	<2.1	<2.6	<6.9	FOR-1550QA-SB/TP35-3-15.0	0.0		Well graded sand (SW), yellowish brown (10YR 5/6), slightly moist, appears medium dense, ~3% subrounded trace gravel up to 1 cm diameter, grains subrounded
16								
18								
20	■	<2.1	<2.6	<6.9	FOR-1550QA-SB/TP35-4-20.0	0.0		Sandy lean clay (CL), dark yellowish brown (10YR 4/6), slightly moist, appears medium stiff, low plasticity, grains subrounded
								Silt with sand (ML), dark yellowish brown (10YR 4/6), slightly moist, appears medium stiff, non-plastic, very fine grained
22								Silty sand (SM), yellowish brown (10YR 5/6), slightly moist, fine grained, appears medium dense, grains subrounded
24	■	<2.1	<2.6	<6.9	FOR-1550QA-SB/TP35-5-25.0	0.0		
26								Boring FOR-1550QA-SB/TP35 terminated at 25 feet bgs at 9:45 on December 3, 2008 and backfilled with bentonite chips

Explanation

Sand (SP) · Silt · Silty Sand (SM) · Clayey Silt · Clayey Sand (SC) · Silty Clayey Sand · Red Rock · Roadbase · Bentonite Chips

Sand (SW) · Clay · Sandy Silt (ML) · Silty Clay · Sandy Clay · Organic Silt · Gravel · Petroleum Impacted

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805-349-7000

Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QA-SB/TP36

Dates Drilled: 12-5-08	Total Depth Drilled: 15 feet	Logged By: Natalie Williams
Drilling Contractor: S&G Drilling	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated; see trench log FOR-1550QA-SB/TP36) Poorly graded gravelly sand (GP), grayish brown, subangular gravel between 0.25" and 0.5" in diameter, dry, medium grained, appears medium dense, no odor (roadbase)
2								Silty sand (SM), yellowish brown, damp, medium grained, appears medium dense, trace gravel, no odor (fill)
4		<2.1	370	2400	FOR-1550QA-SB/TP36-1-4.0	0.0		Silty sand (SM), yellowish brown, damp, appears medium dense, medium grained, oil impacted clasts, wet, flexible
		<2.1	<2.6	<6.9	FOR-1550QA-SB/TP36-2-5.0	0.0		
6								Silty sand with trace gravel (SM), yellowish brown (10YR 5/6), slightly moist, fine to medium grained, appears medium dense, ~1% subangular gravel up to 1 cm diameter, ~15% fines (native)
8								Well graded sand with silt (SW), yellowish brown (10YR 5/6), slightly moist, appears medium dense, ~3% subrounded gravel up to 1 cm diameter, grains subrounded
10		<2.1	<2.6	<6.9	FOR-1550QA-SB/TP36-3-10.0	0.0		Silty sand (SM), yellowish brown (10YR 5/6), slightly moist, fine grained, appears medium dense, grains subrounded Becomes ~1% subrounded gravel up to 1.5 cm diameter
12								Fine to medium grained sand, ~15% fines
14								Scattered nodules of clay up to ~1.5 cm diameter
		<2.1	<2.6	<6.9	FOR-1550QA-SB/TP36-4-15.0	0.0		
16								Boring FOR-1550QA-SB/TP36 terminated at 15 feet bgs at 8:25 on December 5, 2008 and backfilled with bentonite chips

Explanation

Sand (SP), Silt, Silty Sand (SM), Clayey Silt, Clayey Sand (SC), Silty Clayey Sand, Red Rock, Roadbase, Bentonite Chips

Sand (SW), Clay, Sandy Silt (ML), Silty Clay, Sandy Clay, Organic Silt, Gravel, Petroleum Impacted

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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QA-SB37

Dates Drilled: 12-01-08	Total Depth Drilled: 30 feet	Logged By: Natalie Williams
Drilling Contractor: S&G Drilling	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								Silty sand with trace gravel (SM), dark brown (10YR 3/3), slightly moist, fine to medium grained, appears medium dense, slight hydrocarbon odor ~1%gravel up to 2 cm in diameter (fill) Wood fragments at 2.0 ft bgs
2								
4								Black (10YR 1/1) Dark brown (10YR 3/3)
		1900	5700	6700	FOR-1550QA-SB37-1-5.0	0.0		Dark yellowish brown (10YR 3/6)
6								Silt with sand (ML), dark yellowish brown (10YR 4/6), appears medium stiff, non-plastic, very fine grained sand
								Silty sand with trace gravel (SM), yellowish brown (10YR 5/6), slightly moist, fine to medium grained sand, ~1% subrounded gravel up to 1 cm in diameter, ~15% fines (native)
8								
10		<2.1	5.2J	<6.9	FOR-1550QA-SB37-2-10.0	0.0		Homogeneous fine grained sand without trace gravel
12								
14		<2.1	<2.6	<6.9	FOR-1550QA-SB37-3-15.0	0.0		
16								Well graded sand (SW), yellowish brown (10YR 5/6), slightly moist, appears medium dense, ~3% trace subrounded gravel up to 1 cm in diameter, sand grains are subrounded
18								
20		3900	<2.6	<6.9	FOR-1550QA-SB37-4-20.0	0.0		~1% gravel
22								
24								Silt with sand (ML), yellowish brown (10YR 5/4), slightly moist, appears medium stiff, non-plastic, very fine grained
		<2.1	<2.6	<6.9	FOR-1550QA-SB37-5-25.0	0.0		
26								Silty sand with trace gravel (SM), yellowish brown (10YR 5/3), slightly moist, fine grained, appears medium dense, ~1% subrounded trace gravel up to 1 cm in diameter
28								Fine to medium grained
30		<2.1	<2.6	<6.9	FOR-1550QA-SB37-6-30.0	0.0		Boring FOR-1550QA-SB37 terminated at 30 feet bgs at 11:55 on December 1, 2008 and backfilled with bentonite chips
32								

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QA-SB/TP38

Dates Drilled: 12-9-08	Total Depth Drilled: 15 feet	Logged By: Bonnie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated; see trench log FOR-1550QA-SB/TP38) Well graded gravelly sand (GW), very dark grayish brown (10YR 3/2), moist, medium grained, gravel subangular, 1/2" to 3/4" diameter, appears dense, no odor (roadbase)
2		25	4800	39000	FOR-1550QA-SB/TP38-1-2.0	0.0		Silty sand (SM), dark brown (10YR 3/3), moist, medium grained, appears medium dense, trace gravel, 1/4" to 3/4" diameter, no odor (fill)
4		<2.1	<2.6	<6.9	FOR-1550QA-SB/TP38-2-5.0	0.0		Silty sand (SM), brownish yellow (10YR 6/6), moist, medium grained, appears medium dense, no odor (native)
6								Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine to medium grained, rounded to subangular, appears medium dense
8								Well graded sand (SW), very pale brown (10YR 7/4), moist, fine to coarse grained, rounded to subangular, 10% well graded gravel, fine to coarse, rounded to subrounded, appears dense
10		<2.1	9.6J	<6.9	FOR-1550QA-SB/TP38-3-10.0	0.0		Poor recovery from 10 to 11 feet bgs
12								Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine to medium grained, rounded to subrounded, trace well graded gravel, fine to coarse, rounded to subrounded, appears dense
14		68	<2.6	<6.9	FOR-1550QA-SB/TP38-4-15.0	0.0		Boring FOR-1550QA-SB/TP38 terminated at 15 feet bgs at 10:10 on December 9, 2008. Backfilled with bentonite chips.
16								

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QA-SB/TP39

Dates Drilled: 12-9-08	Total Depth Drilled: 15 feet	Logged By: Natalie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated; see trench log FOR-1550QA-SB/TP39) Well graded gravelly sand (GW), very dark grayish brown (10YR 3/2), moist, subangular gravel 1/2" to 3/4" diameter, medium grained, appears dense, no odor (roadbase)
								Silty sand (SM) dark brown (10YR 3/3), moist, medium grained, appears medium dense, trace gravel, 1/4" to 1/2" diameter, no odor (fill)
2								Silty sand (SM), brownish yellow (10YR 6/6), moist, medium to fine grained, appears medium dense, no odor (native)
4								
		<2.1	<2.6	<6.9	FOR-1550QA-SB/TP39-1-5.0	0.0		
								Silty sand (SM); yellowish brown (10YR 5/6); slightly moist; fine grained; ~15% fines; subrounded grains; appears medium dense
6								
								Fine to medium grained
8								Well graded sand (SW); yellowish brown (10YR 5/6); slightly moist; appears medium dense; ~5% subangular gravel up to 2.5 cm diameter
		<2.1	6.9J	<6.9	FOR-1550QA-SB/TP39-2-10.0	0.0		
10								
								Cobble ~6 cm in length at ~11.0 feet bgs ~1% gravel up to 1 cm diameter
12								
								Lean clay with sand (CL); dark yellowish brown (10YR 4/4); slightly moist; appears medium stiff; low plasticity; ~15% fine to medium grained subrounded sand
14								Silty sand (SM); yellowish brown (10YR 5/6); slightly moist; fine grained; ~20% fines; grains subrounded; appears medium dense
		<2.1	<2.6	<6.9	FOR-1550QA-SB/TP39-3-15.0	0.0		
								Boring FOR-1550QA-SB/TP39 terminated at 15 feet bgs at 10:40 on December 9, 2008 and backfilled with bentonite chips
16								

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QA-SB/TP40

Dates Drilled: 12-9-08	Total Depth Drilled: 15 feet	Logged By: Natalie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated; see trench log FOR-1550QA-SB/TP40) Silty sand (SM), dark brown (10YR 3/3), damp, medium grained, appears medium dense to dense, some gravel .25" to 1.0" diameter, no odor (roadbase)
2								Silty sand (SM), yellowish brown (10YR 5/6), moist, medium to fine grained, appears medium dense, trace gravel 1/4" to 1/2" diameter, no odor (fill)
4	■	<2.1	<2.6	<6.9	FOR-1550QA-SB/TP40-1-5.0	0.0		
6								Silty sand with trace gravel (SM); yellowish brown (10YR 5/6); slightly moist; fine grained; ~15% fines; appears medium dense; ~1% subrounded gravel up to ~ 1 cm diameter (native)
8								Fine to medium grained sand
10	■	<2.1	3.6J	<6.9	FOR-1550QA-SB/TP40-2-10.0	0.0		~5% gravel between ~9.0 and 9.5 feet bgs Fine grained sand with no gravel
12								~1% subrounded gravel up to 1.5 cm diameter
14	■	<2.1	5.8J	<6.9	FOR-1550QA-SB/TP40-3-15.0	0.0		Silt with sand (ML); dark yellowish brown (10YR 4/6); slightly moist; appears medium stiff; non plastic; very fine grained
16								Boring FOR-1550QA-SB/TP40 terminated at 15 feet bgs at 9:50 on December 9, 2008 and backfilled with bentonite chips

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QA-SB/TP41

Dates Drilled: 12-9-08	Total Depth Drilled: 15 feet	Logged By: Natalie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated; see trench log FOR-1550QA-SB/TP41) Silty sand (SM), dark brown (10YR 3/3), damp, with gravel, appears medium dense to dense, medium grained, no odor (roadbase/fill)
2								Silty sand (SM), brownish yellow (10YR 6/6), moist, medium grained, appears medium dense, trace gravel 1/4" to 1/2" in diameter, no odor (fill)
4	■	<2.1	<2.6	<6.9	FOR-1550QA-SB/TP41-1-5.0	0.0		
6								Silty sand (SM); yelowish brown (10YR 5/6); slightly moist; fine to medium grained; appears medium dense; ~15% fines; subrounded grains (native)
8								~3% subrounded gravel up to 1 cm diameter ~1% gravel
10	■	<2.1	<2.6	<6.9	FOR-1550QA-SB/TP41-2-10.0	0.0		Fine grained; scattered nodules of clay up to 1 cm diameter betweem ~10.5 and ~10.75 feet bgs
12								Fine to medium grained
14	■	<2.1	<2.6	<6.9	FOR-1550QA-SB/TP41-3-15.0	0.0		Lean clay with sand (CL); dark yellowish brown (10YR 4/4); slightly moist; appears medium-stiff; low plasticity; ~15% fine sand
16								Boring FOR-1550QA-SB/TP41 terminated at 15 feet bgs at 9:00 on December 9, 2008 and backfilled with bentonite chips

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QA-SB/TP42

Dates Drilled: 12-9-08	Total Depth Drilled: 15 feet	Logged By: Bonnie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated; see trench log FOR-1550QA-SB/TP42) Silty sand (SM), dark brown (10YR 3/3), moist, medium grained, appears medium dense, some gravel 0.5" to 1.0" diameter, no odor (roadbase)
2								Silty sand (SM), brownish yellow (10YR 6/6), moist, medium grained, appears medium dense, trace gravel, .25" to 1.5" diameter, no odor (fill)
4		<2.1	<2.6	<6.9	FOR-1550QA-SB/TP42-1-5.0	0.0		
6								Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine to medium grained, rounded to subangular, trace silt, appears medium dense
8								Well graded sand (SW), very pale brown (10YR 7/3), moist, fine to coarse grained, rounded to subangular, 25% well graded gravel, fine to very coarse, subrounded, appears dense
								Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine to medium grained, rounded to subangular, trace fine gravel, rounded, appears medium dense
10		<2.1	4.6J	<6.9	FOR-1550QA-SB/TP42-2-10.0	0.0		One very coarse gravel, 1.5" diameter
12								
								Well graded sand (SW), very pale brown (10YR 7/3), moist, fine to coarse grained, rounded to subangular, appears dense
14								Silty clay (CL), yellowish brown (10YR 5/4), moist, medium plasticity, appears stiff
		<2.1	4.0J	<6.9	FOR-1550QA-SB/TP42-3-15.0	0.0		Well graded sand (SW), very pale brown (10YR 7/3), moist, fine to coarse grained, rounded to subangular, 25% well graded gravel, fine to coarse, subrounded to rounded, appears dense
								Silt with very fine sand (ML), moist, yellowish brown (10YR 5/4), non plastic, appears stiff
16								Boring FOR-1550QA-SB/TP42 terminated at 15 feet bgs at 09:30 on December 9, 2008. Backfilled with bentonite chips

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QA-SB/TP43

Dates Drilled: 12-5-08	Total Depth Drilled: 15 feet	Logged By: Natalie Williams
Drilling Contractor: S&G Drilling	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated; see trench log FOR-1550QA-SB/TP43) Silty sand (SM), dark yellowish brown (10YR 3/6), moist, medium grained, appears medium dense, trace gravel 1/4" to 1/2" diameter, no odor (fill)
2								Silty sand (SM), brownish yellow (10YR 6/6), moist, fine grained, appears medium dense to loose, no odor (native)
4								Silty sand (SM), dark yellowish brown (10YR 4/6), slightly moist, fine grained, appears medium dense, ~20% fines At ~5.2 ft bgs becomes yellowish brown (10YR 5/6)
		<2.1	<2.6	<6.9	FOR-1550QA-SB/TP43-1-5	0.0		
6								
8								Fine to medium grained
10		<2.1	6.5J	<6.9	FOR-1550QA-SB/TP43-2-10.0	0.0		
12								Silt with sand (ML), yellowish brown (10YR 5/6), slightly moist, appears medium stiff, non-plastic, very fine grained
14								~1% subrounded gravel up to 1 cm in diameter
		<2.1	<2.6	<6.9	FOR-1550QA-SB/TP43-3-15.0	0.0		
16								Boring FOR-1550QA-SB/TP43 terminated at 15 feet bgs at 11:30 on December 5, 2008 and backfilled with bentonite chips

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QA-SB/TP44

Dates Drilled: 12-5-08	Total Depth Drilled: 15 feet	Logged By: Natalie Williams
Drilling Contractor: S&G Drilling	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated; see trench log FOR-1550QA-SB/TP44) Poorly graded gravelly sand (GP), very dark grayish brown (10YR 3/2), moist, gravel angular to subangular up to 3/4" diameter, medium grained, appears dense, no odor (roadbase)
								Poorly graded gravelly sand (GP), dark yellowish brown (10YR 3/6), moist, subangular granite, 1.25 inch diameter, medium grained, appears dense, no odor (fill)
2								Silty sand (SM), dark yellowish brown (10YR 3/6), moist, medium grained, appears medium dense, trace gravel 1/4" to 3/4" in diameter, no odor (fill)
								Silty sand (SM), brownish yellow (10YR 6/6), moist, fine grained, appears medium dense, trace gravel (fill or potential native)
4								
		<2.1	<2.6	<6.9	FOR-1550QA-SB/TP44-1-5	0.0		
								Yellowish brown (10YR 5/6); slightly moist; ~20% fines; homogeneous; grains subrounded
6								
								~15% fines
8								
		<2.1	<2.6	<6.9	FOR-1550QA-SB/TP44-2-10.0	0.0		
10								Fine to medium grained
12								~5% subrounded gravel up to 2.5 cm in diameter
								Fine grained sand
14								Fine to medium grained sand
		<2.1	<2.6	<6.9	FOR-1550QA-SB/TP44-3-15.0	0.0		
								Boring FOR-1550QA-SB/TP44 terminated at 15 feet bgs at 12:55 on December 5, 2008 and backfilled with bentonite chips
16								

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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805-349-7000

Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QA-SB/TP45

Dates Drilled: 12-5-08	Total Depth Drilled: 15 feet	Logged By: Natalie Williams
Drilling Contractor: S&G Drilling	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated; see trench log FOR-1550QA-SB/TP45) Silty Sand (SM); dark yellowish brown (10YR 3/4); moist, medium grained, appears dense; no odor (fill) At 5 inches bgs: Yellowish brown (10YR 5/6)
4		<2.1	<2.6	<6.9	FOR-1550QA-SB/TP45-1-5	0.0		
6								Silty sand (SM); dark yellowish brown (10YR 3/4); slightly moist; fine grained; appears medium dense; ~20% fines; grains subrounded @ ~ 5.2 feet bgs becomes yellowish brown (10YR 5/6) ~15% fines; homogeneous
10		<2.1	<2.6	<6.9	FOR-1550QA-SB/TP45-2-10.0	0.0		
12								Fine to medium grained sand
14								Single cobble ~4 cm in length; subrounded
14		<2.1	<2.6	<6.9	FOR-1550QA-SB/TP45-3-15.0	0.0		
16								Boring FOR-1550QA-SB/TP45 terminated at 15 feet bgs at 13:35 on December 5, 2008 and backfilled with bentonite chips

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP1

Dates Drilled: 11-21-08	Total Depth Drilled: 25 feet	Logged By: Natalie Williams
Drilling Contractor: S&G Drilling	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated; see trench log FOR-1550QB-SB/TP1) Well graded gravelly sand (GW), coarse gravel, gray, loose, dry, subangular, horizontal stratification (roadbase)
2		<2.1	400	910	FOR-1550QB-SB/TP1-2-2.5	0.0		Oil sand (semi-intact), dry, brittle
								Silty sand (SM), yellowish brown, medium grained, appears medium dense, damp, horizontal stratification (fill)
4		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP1-1-5	0.0		
6								Slightly moist, fine to medium grained, no horizontal stratification, ~15% fines
8								
10		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP1-3-10.0	0.0		Silt with sand (ML), dark yellowish brown (10YR 4/6), slightly moist, appears medium stiff, non-plastic, very fine grained
12								Silty sand (SM), yellowish brown (10YR 5/6), slightly moist, fine to medium grained, appears medium dense, ~15% fines
								Silt with sand (ML), dark yellowish brown (10YR 4/6), slightly moist, appears medium stiff, non-plastic
14		<2.1	<2.6	17J	FOR-1550QB-SB/TP1-4-15.0	0.0		Well graded sand (SW), yellowish brown (10YR 5/6), slightly moist, appears medium dense, ~ 1% gravel up to 2 cm in diameter, gravel is subrounded
16								
18								
20		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP1-5-20.0	0.0		Silt with sand (ML), dark yellowish brown (10YR 4/6), slightly moist, appears medium stiff, non-plastic, very fine grained
22								Silty sand (SM), yellowish brown (10YR 5/6), slightly moist, appears medium dense, fine to medium grained, ~ 15% fines
24		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP1-6-25.0	0.0		Boring FOR-1550QB-SB/TP1 terminated at 25 feet bgs at 9:50 on Novevember 21, 2008 and backfilled with bentonite chips
26								

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP2

Dates Drilled: 11-20-08	Total Depth Drilled: 25 feet	Logged By: Natalie Williams
Drilling Contractor: S&G Drilling	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated; see trenchlog FOR-1550QB-SB/TP2) Silty sand (SM), yellowish brown, trace gravel, appears medium dense, medium grained, damp
2								Fine grained, no trace gravel
4								
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP2-1-5	0.0		Fine to medium grained, ~15% fines
6								
8								
		<2.1	4.0J	<6.9	FOR-1550QB-SB/TP2-2-10.0	0.0		
10								Fine grained homogeneous sand
								Fine to medium grained sand
12								Trace gravel up to 1 cm in diameter, gravel is subrounded
14								
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP2-3-15.0	0.0		
16								Well graded sand with silt (SW), yellowish brown, slightly moist, appears medium dense, ~3% gravel, gravel is subangular and up to 1.5 cm in diameter
18								Clay (CL), dark yellowish brown, slightly moist, appears medium stiff, low plasticity
								Silty sand (SM), yellowish brown, slightly moist, fine grained, homogeneous, appears medium dense
20		<2.1	5.2J	<6.9	FOR-1550QB-SB/TP2-4-20.0	0.0		
								Fine to medium grained sand
22								
24								
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP2-5-25.0	0.0		
26								Boring FOR-1550QB-SB/TP2 terminated at 25 feet bgs at 8:45 on Novevember 20, 2008 and backfilled with bentonite chips

Explanation

Sand (SP), Silt, Silty Sand (SM), Clayey Silt, Clayey Sand (SC), Silty Clayey Sand, Red Rock, Roadbase, Bentonite Chips

Sand (SW), Clay, Sandy Silt (ML), Silty Clay, Sandy Clay, Organic Silt, Gravel, Petroleum Impacted

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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP3

Dates Drilled: 11-20-08	Total Depth Drilled: 20 feet	Logged By: Natalie Williams
Drilling Contractor: S&G Drilling	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated; see trenchlog FOR-1550QB-SB/TP3) Well graded gravelly sand (GW), grayish brown, dry, subangular, sand is medium grained, appears medium dense, no odor (roadbase)
2								Silty sand (SM), yellowish brown, medium grained, appears medium dense, damp, trace gravel
4		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP3-1-5.0	0.0		
6								Well graded sand with silt (SW), yellowish brown, slightly moist, appears medium dense, ~3% gravel is up to 2 cm in diameter, gravel is subrounded
8								~5% gravel
10		<2.1	4.5J	<6.9	FOR-1550QB-SB/TP3-2-10.0	0.0		Clay (CL), dark yellowish brown, slightly moist, low plasticity, appears medium stiff Silty sand with trace gravel (SM), yellowish brown, slightly moist, fine to medium grained, appears medium dense, ~15% fines, gravel is subrounded, ~1% gravel
12								
14		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP3-3-15.0	0.0		
16								~2% gravel up to 2.5 cm in diameter
18								Clay (CL), dark yellowish brown, slightly moist, appears medium stiff, low plasticity
20		<2.1	32	10J	FOR-1550QB-SB/TP3-4-20.0	0.0		Silty sand (SM), yellowish brown, slightly moist, fine to medium grained, appears medium dense Boring FOR-1550QB-SB/TP3 terminated at 20 feet bgs at 9:35 on November 20, 2008 and backfilled with bentonite chips

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP4

Dates Drilled: 11-20-08	Total Depth Drilled: 20 feet	Logged By: Natalie Williams
Drilling Contractor: S&G Drilling	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated; see trenchlog FOR-1550QB-SB/TP4) Silty sand (SM); yellowish brown; medium grained; slightly moist; trace gravel near surface; appears medium dense; scattered oil impregnated clasts near surface
4		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP4-1-5.0	0.0		
6								Silty sand (SM); yellowish brown; slightly moist; fine grained; homogeneous; appears medium dense
								Clay (CL); dark yellowish brown; slightly moist; appears medium stiff; low plasticity
8								Silty sand (SM); yellowish brown; slightly moist; fine grained; homogeneous; appears medium dense
10		<2.1	9.6J	<6.9	FOR-1550QB-SB/TP4-2-10.0	0.0		
12								Fine to medium grained sand; ~15% fines
14		<2.1	3.1J	<6.9	FOR-1550QB-SB/TP4-3-15.0	0.0		
16								Clay (CL); dark yellowish brown; slightly moist; appears medium stiff; low plasticity
								Silty sand with trace gravels (SM); yellowish brown; slightly moist; fine to medium grained; ~15 fines; ~1% gravel is subrounded; gravel up to 2.5 cm in diameter
18								
20		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP4-4-20.0	0.0		Boring FOR-1550QB-SB/TP4 terminated at 20 feet bgs at 10:40 on November 20, 2008 and backfilled with bentonite chips

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP5

Dates Drilled: 11-20-08	Total Depth Drilled: 20 feet	Logged By: Natalie Williams
Drilling Contractor: S&G Drilling	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated; see trench log FOR-1550QB-SB/TP5) Silty sand (SM); yellowish brown; trace gravel near the surface; medium grained ; appears medium dense; damp
4	■	<2.1	<2.6	<6.9	FOR-1550QB-SB/TP5-1-5.0	0.0		Fine to medium grained; ~15% fines
8								Clay (CL); dark yellowish brown; slightly moist; appears medium-stiff; low plasticity
10	■	<2.1	7.9J	<6.9	FOR-1550QB-SB/TP5-2-10.0	0.0		Silty sand (SM); yellowish brown; slightly moist; fine to medium-grained; appears medium-dense; ~15% fines
12								1% trace gravel; gravel is subrounded up to 2 cm in diameter
14	■	<2.1	6.5J	<6.9	FOR-1550QB-SB/TP5-3-15.0	0.0		
16								Fine-grained homogeneous sand; no trace gravel
18								Medium to fine-grained sand
20	■	<2.1	2.9J	<6.9	FOR-1550QB-SB/TP5-4-20.0	0.0		Boring FOR-1550QB-SB/TP5 terminated at 20 feet bgs at 11:55 on November 20, 2008 and backfilled with bentonite chips

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP6

Dates Drilled: 11-20-08	Total Depth Drilled: 25 feet	Logged By: Natalie Williams
Drilling Contractor: S&G Drilling	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated; see trenchlog FOR-1550QB-SB/TP6) Silty sand (SM); yellowish-brown; trace gravel; medium grained; appears medium dense; damp
2								PVC pipe (broken), cement, and stained clasts in top 2 feet
4								
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP6-1-5.0	0.0		Fine to medium grained; ~15% fines
6								
8								Fine-grained homogeneous sand
								Clay (CL); dark yellowish-brown; slightly moist; appears medium-stiff; low plasticity
10		<2.1	5.9J	<6.9	FOR-1550QB-SB/TP6-2-10.0	0.0		Silty sand (SM); yellowish-brown; slightly moist; fine grained; homogeneous; appears medium dense
12								Fine to medium-grained sand; ~15% fines
								Clay (CL); dark yellowish-brown; slightly moist; appears medium stiff; low plasticity
14		<2.1	6.5J	<6.9	FOR-1550QB-SB/TP6-3-15.0	0.0		Silty sand (SM); yellowish-brown; slightly moist; fine-grained; homogeneous; appears medium-dense
16								Well-graded sand with silt (SW); yellowish-brown; slighty moist; appears medium-dense; ~5% gravel is subangular; gravel up to 3 cm in diameter
18								
20		<2.1	3.3J	<6.9	FOR-1550QB-SB/TP6-4-20.0	0.0		
								Clay (CL); dark yellowish-brown; slightly moist; appears medium-stiff; low plasticity
22								Silty sand (SM); yellowish-brown; slightly moist; appears medium-dense; fine-grained;~25% fines
24		<2.1	4.8J	<6.9	FOR-1550QB-SB/TP6-5-25.0	0.0		
26								Boring FOR-1550QB-SB/TP6 terminated at 25 feet bgs at 13:45 on November 20, 2008 and backfilled with bentonite chips

Explanation

Sand (SP); Silt; Silty Sand (SM); Clayey Silt; Clayey Sand (SC); Silty Clayey Sand; Red Rock; Roadbase; Bentonite Chips

Sand (SW); Clay; Sandy Silt (ML); Silty Clay; Sandy Clay; Organic Silt; Gravel; Petroleum Impacted

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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP7

Dates Drilled: 11-21-08	Total Depth Drilled: 20 feet	Logged By: Natalie Williams
Drilling Contractor: S&G Drilling	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated; see trench log FOR-1550QB-SB/TP7) Silty sand (SM); yellowish brown; medium grained; trace gravel in first 6", slightly moist, appears medium dense
4		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP7-1-5.0	0.0		Fine to medium grained; ~15% fines
8								Becomes 1% trace gravel up to 1 cm in diameter; gravel is subrounded
10		<2.1	7.9J	<6.9	FOR-1550QB-SB/TP7-2-10.0	0.0		Becomes fine grained sand
14								Silt with sand (ML); dark yellowish brown (10YR 4/6); slightly moist; appears medium stiff; non plastic, very fine grained
14		<2.1	2.7J	<6.9	FOR-1550QB-SB/TP7-3-15.0	0.0		Silty sand (SM); yellowish brown (10YR 5/6); slightly moist; fine to medium grained; appears medium dense;~15%fines
16								Well graded sand (SW); yellowish brown (10YR 5/6); slightly moist; appears medium dense; ~3% gravel is subangular; gravel up to 1 cm in diameter
20		<2.1	5.1J	<6.9	FOR-1550QB-SB/TP7-4-20.0	0.0		Boring FOR-1550QB-SB/TP7 terminated at 20 feet bgs at 11:00 on November 21, 2008 and backfilled with bentonite chips

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP8

Dates Drilled: 11-19-08	Total Depth Drilled: 20 feet	Logged By: Natalie Williams
Drilling Contractor: S&G Drilling	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated; see trench log FOR-1550QB-SB/TP8) Silty sand (SM); trace gravel at first 1.5 ft; yellowish brown; medium grained; appears medium dense
4	■	<2.1	<2.6	<6.9	FOR-1550QB-SB/TP8-1-5.0	0.0		
6								Silty sand with trace gravel (SM); yellowish-brown; slightly moist; fine to medium grained; appears medium dense; gravel is up to 1 cm in diameter; ~1% gravel
8								Homogeneous fine sand; less gravel
10	■	<2.1	<2.6	<6.9	FOR-1550QB-SB/TP8-2-10.0	0.0		
12								Fine to medium-grained sand; ~1% gravel
14	■	<2.1	3.2J	<6.9	FOR-1550QB-SB/TP8-3-15.0	0.0		Well-graded sand with silt (SW); yellowish-brown; slightly moist; appears medium dense; gravel ~1 cm in diameter maximum; ~5% gravel
18								
20	■	<2.1	<2.6	<6.9	FOR-1550QB-SB/TP8-4-20.0	0.0		Silty sand (SM); yellowish-brown; slightly moist; appears medium dense; ~15% fines; homogeneous
								Boring FOR-1550QB-SB/TP8 terminated at 20 feet bgs at 13:05 on November 19, 2008 and backfilled with bentonite chips

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP9

Dates Drilled: 11-19-08	Total Depth Drilled: 20 feet	Logged By: Natalie Williams
Drilling Contractor: S&G Drilling	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated; see trench log FOR-1550QB-SB/TP9) Silty sand (SM); trace gravel at the surface to 1.5 ft; yellowish brown color; damp at 2 ft; medium grained; appears medium dense
4		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP9-1-5.0	0.0		Fine to medium grained
8								Clay (CL), dark yellowish brown, slightly moist, low plasticity, appears medium stiff
10		<2.1	6.1J	<6.9	FOR-1550QB-SB/TP9-2-10.0	0.0		Silty sand with trace gravel (SM), yellowish brown, slightly moist, fine grained, homogeneous, appears medium dense, gravel clasts up to 1.5 cm in diameter, gravel clasts subrounded, ~1% gravel
14		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP9-3-15.0	0.0		Fine to medium grained sand
16								Well graded sand with silt (SW), yellowish brown, slightly moist, appears medium dense, ~ 1% gravel up to 1cm in diameter
20		<2.1	4.2J	<6.9	FOR-1550QB-SB/TP9-4-20.0	0.0		Boring FOR-1550QB-SB/TP9 terminated at 20 feet bgs at 13:50 on November 19, 2008 and backfilled with bentonite chips

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP10

Dates Drilled: 11-19-08	Total Depth Drilled: 20 feet	Logged By: Natalie Williams
Drilling Contractor: S&G Drilling	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated; see trench log FOR-1550QB-SB/TP10) Well graded gravelly sand (GW), grayish brown, dry; gravel is subangular; sand loose; appears medium dense; no odor (Roadbase)
2								Silty sand (SM); yellowish-brown; slightly moist; medium grained; appears medium dense; trace gravel, scattered cement clasts (Fill)
								No gravel, no cement clasts
4		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP10-1-5	0.0		
								~ 1% gravel is 1 cm maximum diameter, fine to medium grained
6								
8								
								Clay (CL), dark yellowish brown, slightly moist, low plasticity, appears medium stiff
10		<2.1	6.9J	<6.9	FOR-1550QB-SB/TP10-2-10	0.0		Well graded sand with silt (SW), yellowish brown, slightly moist, appears to be medium dense, gravel up to 1 cm in diameter, ~3% gravel
12								Silty sand (SM), yellowish brown, slightly moist, fine grained, homogeneous, appears medium dense
14		<2.1	6.7J	<6.9	FOR-1550QB-SB/TP10-3-15	0.0		Well graded sand with silt (SW), yellowish brown, slightly moist, appears medium dense, ~1% gravel up to 1.5 cm in diameter
16								Silty sand with trace gravel (SM), yellowish brown, slightly moist, appears medium dense,~ 1% gravel up to 2 cm in diameter
18								Fine to medium grained sand
20		<2.1	6.2J	<6.9	FOR-1550QB-SB/TP10-4-20	0.0		Boring for FOR-1550QB-SB/TP10 terminated at 20 feet bgs at 14:45 on November 19, 2008 and backfilled with bentonite chips

Explanation

Sand (SP), Silt, Silty Sand (SM), Clayey Silt, Clayey Sand (SC), Silty Clayey Sand, Red Rock, Roadbase, Bentonite Chips

Sand (SW), Clay, Sandy Silt (ML), Silty Clay, Sandy Clay, Organic Silt, Gravel, Petroleum Impacted

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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP11

Dates Drilled: 11-21-08	Total Depth Drilled: 20 feet	Logged By: Natalie Williams
Drilling Contractor: S&G Drilling	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated; see trench log FOR-1550QB-SB/TP11) Well graded gravelly sand (GW), grayish brown, dry, subangular, appears dense, medium grained, no odor (roadbase)
2								Silty sand (SM), yellowish brown, moist, medium grained, appears medium dense, trace gravel, subangular 1/2" to 3/4", intact oil impregnated sand, non plastic, dry, brittle (fill)
		<2.1	94	200	FOR-1550QB-SB/TP11-2-3.0	0.0		
4								Silty sand (SM), yellowish brown, appears medium dense, medium grained, moist
		<2.1	14	80	FOR-1550QB-SB/TP11-1-5.0	0.0		Slightly moist; fine to medium grained; ~15% fines
6								
8								Trace subangular gravel up to 1 cm in diameter
10		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP11-3-10.0	0.0		~10% fines
12								
14								Silt with sand (ML); dark yellowish brown (10YR 4/6); slightly moist; appears medium stiff; non plastic; very fine grained
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP11-4-15.0	0.0		Silty sand (SM); yellowish brown (10YR 5/6); slightly moist; fine grained; appears medium dense
16								Silt with sand (ML); dark yellowish brown (10YR 4/6); slightly moist; appears medium stiff; very fine grained
								Silty sand (SM); yellowish brown (10YR 5/6); slightly moist; appears medium dense; fine to medium grained
18								Clay (CL); dark yellowish brown (10YR 4/4); slightly moist; appears medium stiff; low plasticity
								Well graded sand; yellowish brown (10YR 5/6); slightly moist; appears medium dense; ~1% gravel subrounded up to 1cm in diameter
20		<2.1	8.9J	<6.9	FOR-1550QB-SB/TP11-5-20.0	0.0		Boring FOR-1550QB-SB/TP11 terminated at 20 feet bgs at 8:55 on Novevember 21, 2008 due to cave-in

Explanation

Sand (SP); Silt; Silty Sand (SM); Clayey Silt; Clayey Sand (SC); Silty Clayey Sand; Red Rock; Roadbase; Bentonite Chips

Sand (SW); Clay; Sandy Silt (ML); Silty Clay; Sandy Clay; Organic Silt; Gravel; Petroleum Impacted

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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP12

Dates Drilled: 11-24-08	Total Depth Drilled: 25 feet	Logged By: Natalie Williams
Drilling Contractor: S&G Drilling	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated; see trench log FOR-1550QB-SB/TP12) Well graded gravelly sand (GW), greyish, dry, subangular, medium grained, appears medium dense (roadbase)
2								Silty sand (SM), yellowish brown, medium grained, appears medium dense, damp, trace gravel, oil impregnated clasts found on east end (fill)
4								Silty sand (SM), light brown, medium grained, appears medium dense, damp, no odor (possibly native)
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP12-1-5.0	0.0		Silty sand (SM), yellowish brown (10YR 5/6), slightly moist, fine to medium grained, appears medium dense
6								
8								Clay (CL), dark yellowish brown (10YR 4/4), slightly moist, appears medium stiff, low plasticity
								Silt with sand (ML), dark yellowish brown (10YR 4/6), slightly moist, appears medium stiff, non-plastic, very fine grained
10		<2.1	13	<6.9	FOR-1550QB-SB/TP12-2-10.0	0.0		
								Silty sand with trace gravel (SM), yellowish brown (10YR 5/6), slightly moist, fine to medium grained, appears medium dense, ~15% fines, ~1% subrounded gravel up to 1 cm in diameter
12								
14								
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP12-3-15.0	0.0		Fine grained, no trace gravel
16								
18								Fine to medium grained
								Clay (CL), dark yellowish brown (10YR 4/4), slightly moist, appears medium stiff, medium plasticity
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP12-4-20.0	0.0		
20								Silty sand (SM), yellowish brown (10YR 5/6), slightly moist, fine grained, appears medium dense
22								Fine to medium grained
24								
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP12-5-25.0	0.0		Boring FOR-1550QB-SB/TP12 terminated at 25 feet bgs at 9:20 on Novevember 24, 2008 and backfilled with bentonite chips
26								

Explanation

Sand (SP) · Silt · Silty Sand (SM) · Clayey Silt · Clayey Sand (SC) · Silty Clayey Sand · Red Rock · Roadbase · Bentonite Chips

Sand (SW) · Clay · Sandy Silt (ML) · Silty Clay · Sandy Clay · Organic Silt · Gravel · Petroleum Impacted

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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP13

Dates Drilled: 11-24-08	Total Depth Drilled: 25 feet	Logged By: Natalie Williams
Drilling Contractor: S&G Drilling	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated; see trench log FOR-1550QB-SB/TP13) Well graded gravelly sand (GW), grayish, subangular, sand medium grained, appears dense, no odor (roadbase)
2								A/C concrete asphalt slab
								Silty sand (SM), appears medium dense, medium grained, grayish black
4								Silty sand (SM), yellowish brown, medium grained, appears medium dense
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP13-1-5.0	0.0		
6								Fine grained
								Fine to medium grained, ~15% fines
8								Clay (CL), dark yellowish brown (10YR 4/4), slightly moist, appears medium stiff, low plasticity
								Silty sand (SM), yellowish brown (10YR 5/6), slightly moist, fine to medium grained, appears medium dense, ~15% fines
10		<2.1	4.4J	<6.9	FOR-1550QB-SB/TP13-2-10.0	0.0		
								~1% gravel up to 2.5 cm in diameter, gravel is subrounded
12								
								Fine grained, no gravel
14								
		<2.1	2.7J	<6.9	FOR-1550QB-SB/TP13-3-15.0	0.0		
								Fine to medium grained, ~3% gravel up to 3 cm in diameter, gravel is subrounded
16								
18								Clay (CL), dark yellowish brown (10YR 4/4), slightly moist, fine to medium grained, appears medium dense, ~15% fines, homogeneous
								Silty sand (SM), yellowish brown (10YR 5/6), slightly moist, fine to medium grained, appears medium dense, ~15% fines, homogeneous
20		<2.1	4.3J	<6.9	FOR-1550QB-SB/TP13-4-20.0	0.0		
22								
24								
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP13-5-25.0	0.0		
								Boring FOR-1550QB-SB/TP13 terminated at 25 feet bgs at 8:15 on Novevember 24, 2008 and backfilled with bentonite chips
26								

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP14

Dates Drilled: 11-21-08	Total Depth Drilled: 25 feet	Logged By: Natalie Williams
Drilling Contractor: S&G Drilling	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 ft previously excavated; see trench log FOR-1550QB-SB/TP14) Well graded gravelly sand (GW), grayish brown, gravel is subangular, sand loose, appears medium dense, medium grained (roadbase)
2								Silty sand (SM), asphalt/concrete (AC) first foot; (SM): medium grained, appears medium dense, damp (fill)
4								Silty sand (SM), yellowish brown, appears medium dense, medium grain, damp, scattered oil impregnated clasts (fill)
		<2.1	100	800	FOR-1550QB-SB/TP14-1-5.0	0.0		
6								Clay (CL); dark yellowish brown (10YR 4/4); slightly moist; appears medium stiff; low plasticity
8								Silty sand with trace gravel (SM); yellowish brown (10YR 5/6); slightly moist; fine to medium grained sand; appears medium dense; ~3% gravel up to 2 cm in diameter; gravel is subrounded
								Fine-grained sand; ~1% gravel
10		<2.1	J	<6.9	FOR-1550QB-SB/TP14-2-10.0	0.0		Silt with sand (ML); dark yellowish brown (10YR 4/6); slightly moist; appears medium stiff; non plastic; very fine grained
12								Silty sand with trace gravel (SM); yellowish brown (10YR 5/6); slightly moist; fine to medium grained sand; appears medium dense; ~3% gravel up to 1 cm in diameter; gravel subrounded; ~20% fines
14		<2.1	2.7J	<6.9	FOR-1550QB-SB/TP14-3-15.0	0.0		~15% fines
16								
18								Clay (CL); dark yellowish brown (10YR 4/4); slightly moist; appears medium stiff; low plasticity
20		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP14-4-20.0	0.0		Silt with sand (ML); dark yellowish brown (10YR 4/6); slightly moist; appears medium stiff; non plastic; very fine grained
22								
24		<2.1	3.6J	<6.9	FOR-1550QB-SB/TP14-5-25.0	0.0		Boring FOR-1550QB-SB/TP14 terminated at 25 ft bgs at 11:50 on November 21, 2008 and backfilled with cuttings
26								

Explanation

Sand (SP); Silt; Silty Sand (SM); Clayey Silt; Clayey Sand (SC); Silty Clayey Sand; Red Rock; Roadbase; Bentonite Chips

Sand (SW); Clay; Sandy Silt (ML); Silty Clay; Sandy Clay; Organic Silt; Gravel; Petroleum Impacted

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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP15

Date Drilled: 11-21-08	Total Depth Drilled: 25 feet	Logged By: Natalie Williams
Drilling Contractor: S&G Drilling	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								
		<2.1	5700	30000	FOR-1550QB-SB/TP15-2-1.0	0.0		(Upper 5 ft previously excavated; see trench log FOR-1550QB-SB/TP15) Well graded gravelly sand (GW), grayish brown, dry, gravel is subangular, sand is medium grained, appears medium dense, no odor (roadbase)
2								Intact oil impregnated sand, dry, brittle
								Silty sand (SM), yellowish brown, appears medium dense, medium grained, oil impregnated clasts located throughout layer
4		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP15-1-5.0	0.0		
6								Silt with sand (ML); dark yellowish brown (10YR 4/6); slightly moist; appears medium stiff; non plastic; very fine grained
								Silty sand with trace gravel (SM); yellowish brown (10YR 5/6); slightly moist; fine to medium grained; appears medium dense; ~15% fines; ~3% gravel up to 3cm in diameter; gravel is subrounded
8								Clay (CL); dark yellowish brown (10YR 4/4); slightly moist; appears medium stiff; low plasticity
10		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP15-3-10.0	0.0		Well graded sand (SW); yellowish brown (10YR 5/6); slightly moist; appears medium dense; gravel up to 1 cm in diameter
								Silty sand (SM); yellowish brown (10YR 5/6); slightly moist; fine grained sand; appears medium dense
12								Fine to medium grained sand
14								Clay (CL) dark yellowish brown (10YR 4/4); slightly moist; appears medium stiff; low plasticity
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP15-4-15.0	0.0		Well graded sand (SW); yellowish brown (10YR 5/6); slightly moist; appears medium dense; gravel up to 1cm diameter
16								Silty sand (SM); yellowish brown (10YR 5/6); slightly moist; fine to medium grained; appears medium dense
18								Clay (CL); dark yellowish brown; slightly moist; appears medium stiff; low plasticity
		<2.1	2.9J	<6.9	FOR-1550QB-SB/TP15-5-20.0	0.0		Silty sand (SM); yellowish brown (10YR 5/6); slightly moist; fine to medium grained; appears medium dense
20								Silt with sand (ML); dark yellowish brown (10YR 4/6); slightly moist; appears medium stiff; non plastic; very fine grained
22								
24		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP15-6-25.0	0.0		
26								Boring FOR-1550QB-SB/TP15 terminated at 25 ft bgs at 13:15 on November 21, 2008 and backfilled with bentonite chips

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP16

Dates Drilled: 12-01-08	Total Depth Drilled: 25 feet	Logged By: Natalie Williams
Drilling Contractor: S&G Drilling	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 ft previously excavated; see trench log FOR-1550QB-SB/TP16) Well graded gravelly sand (GW), grayish brown, dry, gravel is subangular, sand is medium grained, appears dense, brick and trash debris scattered throughout (roadbase)
2								Silty sand (SM) yellowish brown, moist, medium grained, appears medium dense, trace gravel 1/2" to 3/4" in diameter, no odor (fill)
4	■	<2.1	<2.6	<6.9	FOR-1550QB-SB/TP16-2-3.5	0.0		
	■	<2.1	<2.6	<6.9	FOR-1550QB-SB/TP16-1-5.0	0.0		Silty sand (SM), brownish yellow, moist, medium grained, appears medium dense, no odor (fill, possible native)
6								Silty sand (SM), yellowish brown (10YR 5/6), slightly moist, fine to medium grained, appears medium dense, ~15% fines
8								Lean clay with sand (CL), dark yellowish brown (10YR 4/4), slightly moist, appears medium stiff, low plasticity, appears very fine grained
10	■	3.5J	<2.6	<6.9	FOR-1550QB-SB/TP16-3-10.0	0.0		Silty sand (SM), yellowish brown (10YR 5/6), slightly moist, fine to medium grained, appears medium dense, ~15% fines
12								~1% trace gravel up to 1.5 cm in diameter, gravel is subangular
14								Well graded sand (SW), yellowish brown (10YR 5/6), slightly moist, appears medium dense, ~1% trace gravel up to 1 cm in diameter, gravel subangular
	■	<2.1	<2.6	<6.9	FOR-1550QB-SB/TP16-4-15.0	0.0		~1% clay nodules up to 1 cm in diameter
16								Silty sand with trace gravel (SM), yellowish brown (10YR 5/6), fine to medium grained, appears medium dense, ~1% subangular, gravel up to 1 cm in diameter, ~15% fines
18								
20	■	<2.1	<2.6	<6.9	FOR-1550QB-SB/TP16-5-20.0	0.0		No gravel
22								
24	■	<2.1	3.0J	<6.9	FOR-1550QB-SB/TP16-6-25.0	0.0		
26								Boring FOR-1550QB-SB/TP16 terminated at 25 ft bgs at 8:50 on November 21, 2008 and backfilled with bentonite chips

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP17

Date Drilled: 11-24-08	Total Depth Drilled: 25 feet	Logged By: Natalie Williams
Drilling Contractor: S&G Drilling	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated; see trench log FOR-1550QB-SB/TP17) Well graded gravelly sand (GW), grayish, dry, subangular, medium grained, appears dense, no odor (roadbase)
2								
								Silty sand (SM), gray, medium grained, appears medium dense, gravel 3/4" in diameter
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP17-2-3.5	0.0		
4								Silty sand (SM), yellowish brown, medium grained, appears medium dense, trace oil impregnated sand clasts
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP17-1-5.0	0.0		
6								Silty sand (SM), yellowish brown (10YR 5/6), slightly moist, fine grained, appears medium dense
								Fine to medium grained~15% fines, subrounded grains
8								Lean clay with sand (CL), dark yellowish brown (10YR 4/4), slightly moist, appears medium stiff, low plasticity
10		4.3J	<2.6	<6.9	FOR-1550QB-SB/TP17-3-10.0	0.0		Silty sand with gravel (SM), yellowish brown (10YR 5/6), slightly moist, fine grained, ~1% subrounded gravel up to 1 cm in diameter
12								Fine to medium grained, ~3% gravel up to 1.5 cm in diameter, ~15% fines
14								Well graded sand (SW), yellowish brown (10YR 5/6), slightly moist, appears medium dense, ~5% subrounded gravel up to 2.5 cm in diameter, subrounded sand grains
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP17-4-15.0	0.0		
16								~1% gravel up to 1.5 cm in diameter
18								~3% gravel
20		<2.1	4.5J	<6.9	FOR-1550QB-SB/TP17-5-20.0	0.0		Silty sand with gravel (SM), yellowish brown (10YR 5/6), slightly moist, fine grained, appears medium dense, ~1% gravel up to 1.5 cm in diameter, gravel is subrounded, sand grains subrounded
22								Fine to medium grained, ~15% fines
24		<2.1	6.0J	<6.9	FOR-1550QB-SB/TP17-6-25.0	0.0		Boring FOR-1550QB-SB/TP17 terminated at 25 feet bgs at 14:50 on Novevember 24, 2008 and backfilled with bentonite chips
26								

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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805-349-7000

Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP18

Dates Drilled: 12-01-08	Total Depth Drilled: 25 feet	Logged By: Natalie Williams
Drilling Contractor: S&G Drilling	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 ft previously excavated; see trench log FOR-1550QB-SB/TP18) Well graded gravelly sand (GW), grayish brown, dry, gravel is subangular, sand is medium grained, appears dense, (roadbase)
2								Silty sand (SM), yellowish brown, medium grained, appears medium dense, slightly moist, trace gravels subangular 1/2" to 3/4", no odor (fill)
4	■	<2.1	5.2J	12J	FOR-1550QB-SB/TP18-2-4	0.0		
	■	<2.1	5.9J	59	FOR-1550QB-SB/TP18-1-5	0.0		Silty sand (SM), brownish yellow, moist, medium grained, appears medium dense, trace gravels subangular 1/2" to 3/4" in diameter, no odor (fill)
6								Silty sand with trace gravel (SM), yellowish brown (10YR 5/6), slightly moist, fine to medium grained, appears dense, ~1% subrounded trace gravel up to 1 cm in diameter, ~20% fines
8								~15% fines
								Lean clay (CL), dark yellowish brown (10YR 4/4), slightly moist, appears medium stiff, medium plasticity
10	■	<2.1	<2.6	<6.9	FOR-1550QB-SB/TP18-3-10.0	0.0		Silty sand (SM), yellowish brown (10YR 5/6), slightly moist, fine grained, homogeneous, appears medium dense
12								
14								Fine to medium grained with ~1% trace subrounded gravel up to 2 cm in diameter
	■	<2.1	<2.6	<6.9	FOR-1550QB-SB/TP18-4-15.0	0.0		
16								Well graded sand (SW), yellowish brown (10YR 5/6), slightly moist, appears medium dense, ~5% subrounded gravel up to 2 cm in diameter
18								Silty sand (SM), yellowish brown (10YR 5/6), slightly moist, fine grained, appears medium dense, homogeneous
20	■	<2.1	<2.6	<6.9	FOR-1550QB-SB/TP18-5-20.0	0.0		Fine to medium grained
22								
24								Silt with sand (ML), dark yellowish brown (10YR 4/6), slightly moist, appears medium stiff, non-plastic, very fine grained sand
	■	<2.1	3.2J	<6.9	FOR-1550QB-SB/TP18-6-25.0	0.0		
26								Boring FOR-1550QB-SB/TP18 terminated at 25 ft bgs at 9:50 on December 1, 2008 and backfilled with bentonite chips

Explanation

Sand (SP), Silt, Silty Sand (SM), Clayey Silt, Clayey Sand (SC), Silty Clayey Sand, Red Rock, Roadbase, Bentonite Chips

Sand (SW), Clay, Sandy Silt (ML), Silty Clay, Sandy Clay, Organic Silt, Gravel, Petroleum Impacted

URS
2625 S. Miller Street, Suite 104
Santa Maria, CA 93455
805-349-7000

Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP19

Dates Drilled: 11-25-08	Total Depth Drilled: 25 feet	Logged By: Natalie Williams
Drilling Contractor: S&G Drilling	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 ft previously excavated; see trench log FOR-1550QB-SB/TP19) Well graded gravelly sand (GW), grayish, dry, gravel is subangular, sand is medium grained, appears dense (roadbase)
2								Silty sand (SM), yellowish brown, appears medium dense, medium grained, no odor, trace gravel, oil impregnated sand clasts
		<2.1	340	12000	FOR-1550QB-SB/TP19-2-3.5	0.0		
4								Silty sand (SM), yellowish brown, medium grained, appears medium dense, damp, no odor (possibly native)
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP19-1-5	0.0		
6								Fine to medium grained, ~15% fines
8								Lean clay with silt (CL), dark yellowish brown (10YR 4/4), slightly moist, appears medium stiff, low plasticity
10		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP19-3-10.0	0.0		Silt with sand (ML), dark yellowish brown (10YR 4/6), slightly moist, very fine grained, appears medium stiff, non-plastic
12								Silty sand with trace gravel (SM), yellowish brown (10YR 5/6), slightly moist, fine grained, appears medium dense, ~1% subrounded gravel up to 1 cm in diameter
								Fine to medium grained sand
14								Well graded sand (SW), yellowish brown (10YR 5/6), slightly moist, appears medium dense, ~3% subrounded gravel up to 1 cm in diameter
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP19-4-15.0	0.0		
16								Silty sand with trace gravel (SM), yellowish brown (10YR 5/6), slightly moist, fine to medium grained, ~15% fines, appears medium dense
18								
20		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP19-5-20.0	0.0		Fine grained
22								Fine to medium grained, ~1% subrounded trace gravel up to 1 cm in diameter
24								Silt with sand (ML), dark yellowish brown (10YR 4/6), slightly moist, appears medium stiff, non-plastic, very fine grained
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP19-6-25.0	0.0		
26								Boring FOR-1550QB-SB/TP19 terminated at 25 ft bgs at 10:05 on November 25, 2008 and backfilled with bentonite chips

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP20

Dates Drilled: 11-25-08	Total Depth Drilled: 25 feet	Logged By: Natalie Williams
Drilling Contractor: S&G Drilling	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP20-3-1	0.0		(Upper 5 ft previously excavated; see trench log FOR-1550QB-SB/TP20) Well graded gravelly sand (GW), light brownish gray, gravel is subangular, sand is medium grained, appears dense, no odor (roadbase)
2								Intact oil impregnated sand, dry, brittle
		<2.1	66	1100	FOR-1550QB-SB/TP20-2-3	0.0		Silty sand (SM), yellowish brown, medium grained, appears medium dense, dry, trace gravel (fill)
4								Silty sand (SM), yellowish brown, medium grained, appears medium dense, damp (fill)
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP20-1-5	0.0		Fine grained
6								
								Fine to medium grained with 1% trace subrounded gravel up to 1 cm diameter
8								
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP20-4-10.0	0.0		Lean clay (CL), dark yellowish brown (10YR 4/4), slightly moist, appears medium stiff, low plasticity
10								Silty sand with trace gravel (SM), yellowish brown (10YR 5/6), slightly moist, fine to medium grained, appears medium dense, ~1% subrounded gravel up to 2.5 cm in diameter, ~15% fines
12								
14		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP20-5-15.0	0.0		Gravel up to 1 cm in diameter
16								
18								~20% fines
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP20-6-20.0	0.0		No gravel
20								
22								
24								Silt with sand (ML), dark yellowish brown (10YR 4/6), slightly moist, very fine grained, appears medium stiff, non-plastic
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP20-7-25.0	0.0		
26								Boring FOR-1550QB-SB/TP20 terminated at 25 ft bgs at 11:25 on November 25, 2008 and backfilled with bentonite chips

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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805-349-7000

Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP21

Dates Drilled: 11-24-08	Total Depth Drilled: 25 feet	Logged By: Natalie Williams
Drilling Contractor: S&G Drilling	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated; see trenchlog FOR-1550QB-SB/TP21) Well graded gravelly sand (GW); grayish-brown;dry; gravel is subangular; sand is medium grained; appears medium dense; no odor (roadbase)
2								Silty sand (SM); top layer AC/concrete, medium grained sand, appears medium dense; damp; trace gravel (fill)
4								Silty sand (SM); yellowish-brown; damp; medium grained; appears medium dense (potential native material)
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP21-1-5.0	0.0		Fine grained, homogeneous
6								
8								Lean clay (CL), dark yellowish brown (10YR 4/4), slightly moist, appears medium stiff, low plasticity
10		<2.1	4.3J	<6.9	FOR-1550QB-SB/TP21-2-10.0	0.0		Silty sand (SM); yellowish-brown (10YR 5/6); slightly moist; fine-grained; homogeneous; appears medium-dense
12								Fine to medium-grained; ~15% fines; sand grains subrounded
14								~1% gravel up to 1 cm in diameter; gravel subrounded
		<2.1	3.1J	<6.9	FOR-1550QB-SB/TP21-3-15.0	0.0		Well graded sand (SW); yellowish-brown (10YR 5/6); slightly moist; appears medium dense; ~5% gravel up to 2 cm in diameter; gravel is subrounded
16								
18								Gravel up to 2.5 cm in diameter
20		<2.1	5.8J	<6.9	FOR-1550QB-SB/TP21-4-20.0	0.0		Silt with sand (ML); dark yellowish brown (10YR 4/6); slightly moist; appears medium stiff; non-plastic
22								Silty sand with trace gravel (SM), yellowish brown (10YR 5/6), slightly moist, fine to medium grained, appears medium dense; ~15% fines; ~1% subrounded gravel up to 1 cm in diameter
24								
		<2.1	4.1J	<6.9	FOR-1550QB-SB/TP21-5-25.0	0.0		Boring FOR-1550QB-SB/TP21 terminated at 25 feet bgs at 13:45 on November 24, 2008 and backfilled with bentonite chips
26								

Explanation

Sand (SP); Silt; Silty Sand (SM); Clayey Silt; Clayey Sand (SC); Silty Clayey Sand; Red Rock; Roadbase; Bentonite Chips

Sand (SW); Clay; Sandy Silt (ML); Silty Clay; Sandy Clay; Organic Silt; Gravel; Petroleum Impacted

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Santa Maria, CA 93455
805-349-7000

Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP22

Date Drilled: 11-24-08	Total Depth Drilled: 25 feet	Logged By: Natalie Williams
Drilling Contractor: S&G Drilling	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								
		<2.1	470	3100	FOR-1550QB-SB/TP22-2-1.0	0.0		(Upper 5 feet previously excavated; see trench log FOR-1550QB-SB/TP22) Well graded gravelly sand (GW); grayish; sub-angular; sand medium grained; appears dense; no odor (roadbase)
2								Intact oil impregnated sand
								Silty sand (SM); yellowish-brown; medium grained; appears medium dense, damp (fill)
4		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP22-1-5.0	0.0		Fine to medium-grained; ~15% fines
6								
8								Well-graded sand (SW); yellowish-brown (10YR 5/6); slightly moist; appears medium-dense; grains subrounded; ~3% subrounded gravel up to 2 cm in diameter
10		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP22-3-10.0	0.0		Silt with sand (ML); dark yellowish-brown (10YR 4/6); slightly moist; appears medium-stiff; non-plastic
12								Silty sand (SM); yellowish-brown (10YR 5/6); slightly moist; fine-grained; homogeneous; appears medium-dense
14		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP22-4-15.0	0.0		Fine to medium-grained with ~1% trace gravel up to 3 cm in diameter; sand grains subrounded; ~15% fines
16								No gravel; ~10% fines
18								
20		<2.1	2.6J	<6.9	FOR-1550QB-SB/TP22-5-20.0	0.0		Fine-grained homogeneous sand
22								
24		<2.1	5.2J	<6.9	FOR-1550QB-SB/TP22-6-25.0	0.0		Boring FOR-1550QB/TP22 terminated at 25 feet bgs at 11:45 on November 24, 2008 and backfilled with bentonite chips
26								

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP23

Dates Drilled: 11-24-08	Total Depth Drilled: 25 feet	Logged By: Natalie Williams
Drilling Contractor: S&G Drilling	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated; see trench log FOR-1550QB-SB/TP23) A/C concrete
2								Well graded gravelly sand (GW), grayish brown, medium grained, appears dense, dry, subangular (roadbase)
4								Silty sand (SM), yellowish brown, medium grained, appears medium dense, damp, subangular, no odor, trace gravel 0.5" to 1.5" in diameter, trace organic (fill) At ~3 ft bgs: No organics
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP23-1-5.0	0.0		Silty sand, yellowish brown, medium grained, appears medium dense, damp, no odor (native) Fine to medium grained, ~15% fines
6								
8								Lean clay with sand (CL), dark yellowish brown (10YR 4/4), slightly moist, appears medium stiff, low plasticity
		3.6J	<2.6	<6.9	FOR-1550QB-SB/TP23-2-10.0	0.0		Silt with sand (ML), dark yellowish brown (10YR 4/6), slightly moist, appears medium stiff, non plastic
10								Silty sand with trace gravel (SM), yellowish brown (10YR 5/6), slightly moist, fine to medium grained, appears medium dense, ~1% subrounded gravel up to 1 cm in diameter, ~15% fines
12								
14								
		3.2J	<2.6	<6.9	FOR-1550QB-SB/TP23-3-15.0	0.0		
16								Fine grained, homogeneous
18								Lean clay (CL), dark yellowish brown (10YR 4/4), slightly moist, appears medium stiff, low plasticity
		<2.1	3.2J	<6.9	FOR-1550QB-SB/TP23-4-20.0	0.0		Silty sand (SM), yellowish brown (10YR 5/6), slightly moist, fine to medium grained, appears medium dense
20								
								Fine grained homogeneous sand with trace gravel up to 2 cm in diameter, gravel is subrounded, ~1% gravel
22								
24								
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP23-5-25.0	0.0		Boring for FOR-1550QB-SB/TP23 terminated at 25 feet bgs at 10:25 on November 24, 2008 and backfilled with bentonite chips
26								

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

URS
2625 S. Miller Street, Suite 104
Santa Maria, CA 93455
805-349-7000

Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP24

Dates Drilled: 11-25-08	Total Depth Drilled: 25 feet	Logged By: Natalie Williams
Drilling Contractor: S&G Drilling	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 ft previously excavated; see trench log FOR-1550QB-SB/TP24) Well graded gravelly sand (GW), grayish, dry, gravel is subangular, sand is medium grained, appears dense (roadbase)
2								Silty sand (SM), yellowish brown, medium grained, appears medium dense, moist, no odor, trace gravel 1/2" to 3/4" in diameter
4	■	<2.1	<2.6	<6.9	FOR-1550QB-SB/TP24-1-5	0.0		Slightly moist, fine grained
6								Fine to medium grained sand
8								Lean clay (CL), dark yellowish brown (10YR 4/4), slightly moist, appears medium stiff, low plasticity
10	■	<2.1	7.6J	<6.9	FOR-1550QB-SB/TP24-2-10.0	0.0		Silty sand (SM), yellowish brown (10YR 5/6), slightly moist, fine grained, appears medium dense
12								Fine to medium grained sand
14	■	<2.1	<2.6	<6.9	FOR-1550QB-SB/TP24-3-15.0	0.0		Well graded sand (SW), yellowish brown (10YR 5/6), slightly moist, appears medium dense, ~1% gravel up to 1 cm in diameter, gravel is subrounded
16								Silty sand (SM), yellowish brown (10YR 5/6), slightly moist, fine to medium grained, appears medium dense, ~20% fines
18								~15% fines
20	■	<2.1	6.4J	<6.9	FOR-1550QB-SB/TP24-4-20.0	0.0		Well graded sand (SW), yellowish brown (10YR 5/6), slightly moist, appears medium dense
22								Clay with silt (CL), dark yellowish brown (10YR 4/4), slightly moist, appears medium stiff, low plasticity
24	■	<2.1	5.8J	<6.9	FOR-1550QB-SB/TP24-5-25.0	0.0		Silt with sand (ML), dark yellowish brown (10YR 4/6), slightly moist, appears medium stiff, low plasticity, very fine grained
26								Boring FOR-1550QB-SB/TP24 terminated at 25 ft bgs at 8:40 on November 25, 2008 and backfilled with bentonite chips

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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2625 S. Miller Street, Suite 104
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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP25

Dates Drilled: 11-21-08	Total Depth Drilled: 25 feet	Logged By: Natalie Williams
Drilling Contractor: S&G Drilling	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated; see trench log FOR-1550QB/TP25) Well graded gravelly sand (GW); grayish brown; dry; gravel is subangular; sand is medium grained; appears medium dense. No odor (roadbase)
2								Silty sand (SM); greyish in color; medium grained; appears medium dense; damp; with gravel and asphalt concrete (AC) at surface of layer (Fill)
4								Silty sand (SM), yellowish-brown; trace gravel; medium grained; appears medium dense (Natural Material)
4	■	<2.1	<2.6	<6.9	FOR-1550QB-SB/TP25-1-5.0	0.0		
6								Sand with silt (ML); dark yellowish-brown (10YR 4/6); slightly moist; appears medium stiff; non-plastic; very fine grained
8								Well graded sand (SW); yellowish-brown (10YR 5/6); slightly moist; appears medium dense
								Clay (CL); dark yellowish-brown (10YR 4/4); slightly moist; appears medium stiff; low plasticity
10	■	<2.1	<2.6	<6.9	FOR-1550QB-SB/TP25-2-10.0	0.0		Silty sand with trace gravel (SM), yellowish brown (10YR 5/6), slightly moist, fine grained; appears medium dense; ~1% gravel up to 1 cm in diameter; gravel is subrounded
12								Sand with silt (ML); dark yellowish-brown (10YR 4/6); slightly moist; appears medium stiff; non-plastic; very fine-grained
14								Silty sand (SM); yellowish-brown (10YR 5/6); slightly moist; fine to medium-grained; appears medium dense
14	■	<2.1	<2.6	<6.9	FOR-1550QB-SB/TP25-3-15.0	0.0		Well-graded sand (SW); yellowish-brown (10YR 5/6); slightly moist; appears medium dense; ~5% gravel up to 2.5cm in diameter; gravel is subrounded
16								
18								~1% gravel
								Clay (CL); dark yellowish-brown (10YR 4/4); slightly moist; appears medium stiff; low plasticity
20	■	<2.1	<2.6	<6.9	FOR-1550QB-SB/TP25-4-20.0	0.0		Sand with silt (ML); dark yellowish brown (10YR 4/6); slightly moist; appears medium-stiff; non-plastic; very fine-grained; homogeneous
22								
24								
24	■	<2.1	7.2J	14J	FOR-1550QB-SB/TP25-5-25.0	0.0		
26								Boring FOR-1550QB-SB/TP25 terminated at 25 feet bgs at 14:05 on November 21, 2008 and backfilled with bentonite chips

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

URS
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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP26

Dates Drilled: 11-19-08	Total Depth Drilled: 25 feet	Logged By: Natalie Williams
Drilling Contractor: S&G Drilling	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated; see trench log FOR-1550QB/TP26) Silty sand with trace gravel (SM), yellowish brown, slightly moist, appears medium dense, gravel is maximum 2 cm in diameter, scattered clasts of oil impregnated soil
4		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP26-1-5	0.0		
6								Silty sand with trace gravel (SM), yellowish brown, slightly moist, fine to medium grained, appears medium dense, gravel is subangular and up to 1 cm in diameter, ~15% fines, ~3% gravel
10		<2.1	3.2J	<6.9	FOR-1550QB-SB/TP26-2-10.0	0.0		~1% gravel
12								Coarser grained
14		<2.1	3.2J	<6.9	FOR-1550QB-SB/TP26-3-15.0	0.0		
16								~5% gravel, clasts of gravel up to 2 cm in diameter consisting of shale are greyish white to pale brown in color
20		<2.1	3.6J	<6.9	FOR-1550QB-SB/TP26-4-20.0	0.0		Fewer gravel, ~1% gravel, ~10% fines
24		<2.1	3.7J	<6.9	FOR-1550QB-SB/TP26-5-25.0	0.0		Boring FOR-1550QB-SB/TP26 terminated at 25 feet bgs at 9:20 on November 19, 2008 and backfilled with bentonite chips
26								

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

URS
2625 S. Miller Street, Suite 104
Santa Maria, CA 93455
805-349-7000

Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP27

Dates Drilled: 11-19-08	Total Depth Drilled: 25 feet	Logged By: Natalie Williams
Drilling Contractor: S&G Drilling	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated; see trench log FOR-1550QB-SB/TP27) Silty sand with trace gravels (SM); yellowish brown; slightly moist; medium grained sand; appears medium dense; large concrete clasts at surface
2								Silty sand (SM), medium grained, damp, appears medium dense, scattered stained clasts
4		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP27-1-5.0	0.0		
6								Silty sand (SM), dark yellowish brown, slightly moist, fine to medium grained, appears medium dense, ~15% fines
8								Yellowish brown
10		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP27-2-10.0	0.0		1% trace gravel, gravel is subrounded and up to 1 cm in diameter
12								
14		<2.1	4.2J	<6.9	FOR-1550QB-SB/TP27-3-15.0	0.0		No trace gravel
16								Fine grained , homegeneous sand
18								
20		<2.1	3.4J	<6.9	FOR-1550QB-SB/TP27-4-20.0	0.0		
22								Well graded sand with trace gravel (SW), yellowish brown, slightly moist, appears medium dense, gravel up to 1 cm in diameter
24								Silty sand (SM), yellowish brown, slightly moist, fine to medium grained, appears medium dense
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP27-5-25.0	0.0		
26								Boring for FOR-1550QB-SB/TP27 terminated at 25 feet bgs at 11:35 on November 19, 2008 and backfilled with bentonite chips

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB28

Dates Drilled: 11/20/08	Total Depth Drilled: 20 feet	Logged By: Bonnie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								Silty sand (SM), dark yellowish brown (10YR 4/4), slightly moist, loose
2								Yellowish brown (10YR 5/4) moist
4								Poorly graded sand (SP), yellowish brown (10YR 5/4), fine grained, moist, appears medium dense Light yellowish brown (10YR 6/4)
		<2.1	<2.6	<6.9	FOR-1550QB-SB28-1-5.0	0.0		Medium grained
6								Medium grained
8								Medium grained, trace fine well graded subangular gravel
								1/2" layer of well graded coarse subrounded gravels above very fine silty sand (ML), yellowish brown (10YR 5/4), non-plastic, medium consistency
		<2.1	3.6J	<6.9	FOR-1550QB-SB28-2-10.0	0.0		Silty sand (SM), yellowish brown (10YR 5/4), fine grained, appears medium dense, moist
10								
12								Poorly graded sand (SP), yellowish brown (10YR 5/4), fine to medium grained, subangular, appears medium dense, moist, trace well graded fine subrounded gravels
14								Well graded sand (SW), yellowish brown (10YR 5/4), fine to coarse grained, moist, appears medium dense, 15% well graded fine subrounded to subangular gravels
		<2.1	4.0J	<6.9	FOR-1550QB-SB28-3-15.0	0.0		
16								Trace coarse subrounded gravels
18								Poorly graded sand (SP), yellowish brown (10YR 5/4), fine to medium grained, appears medium dense, moist, trace well graded fine subrounded gravel
		<2.1	<2.6	<6.9	FOR-1550QB-SB28-4-20.0	0.0		
20								End of Boring at 20 ft bgs

Explanation

Sand (SP), Silt, Silty Sand (SM), Clayey Silt, Clayey Sand (SC), Silty Clayey Sand, Red Rock, Roadbase, Bentonite Chips

Sand (SW), Clay, Sandy Silt (ML), Silty Clay, Sandy Clay, Organic Silt, Gravel, Petroleum Impacted

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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB29

Dates Drilled: 11/20/08	Total Depth Drilled: 20 feet	Logged By: Bonnie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								Silty Sand (SM), pale brown (10YR 6/3), dry, loose, trace well graded gravels subrounded to subangular
								At 0.5 ft, moist, yellowish brown (10YR 5/4)
2								Poorly graded sand (SP), yellowish brown (10YR 5/4), moist, appears medium dense, fine to medium grained, subangular
								One large white (10YR 8/1) Rock (non-native), Feldspathoid, 10" deep, unknown width
4								Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, appears medium dense, fine to medium grained, subangular
		<2.1	<2.6	<6.9	FOR-1550QB-SB29-1-5.0	0.0		
6								
8								Well graded sand (SW), fine to coarse grained, light yellowish brown (10YR 6/4), subrounded to subangular, moist, appears med. dense, 25% well graded subrounded to subangular fine gravels
		<2.1	2.7J	<6.9	FOR-1550QB-SB29-2-10.0	0.0		Poorly graded sand (SP), light yellowish brown (10YR 6/4), fine to medium grained, subangular, moist, appears medium dense, trace fine well graded subangular gravel
10								
								Yellowish brown (10YR 5/4)
12								Light yellowish brown (10YR 6/4)
14								Silty Clay (CL), yellowish brown (10YR 5/4), moist, medium consistency, medium plasticity
		<2.1	<2.6	<6.9	FOR-1550QB-SB29-3-15.0	0.0		Poorly graded sand (SP), light yellowish brown (10YR 5/4), fine grained, subangular, moist, appears medium dense
								Trace fine well graded subrounded gravel
16								15% well graded subrounded to subangular fine to coarse gravel
								Well graded sand (SW), light yellowish brown (10YR 6/4), fine to coarse subangular to subrounded, well graded fine subrounded gravel; One nodule (1") Silty clay (CL)
18								Poorly graded sand (SP), light yellowish brown (10YR 6/4), fine to coarse subangular to subrounded, well graded fine subrounded gravel; One nodule (1") Silty clay (CL)
								Well graded sand (SW), light yellowish brown (10YR 6/4), fine to coarse subangular to subrounded, well graded fine subrounded gravel
20		<2.1	<2.6	<6.9	FOR-1550QB-SB29-4-20.0	0.0		End of Boring at 20 ft bgs

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB30

Dates Drilled: 11-19-08	Total Depth Drilled: 20 feet	Logged By: Natalie Williams
Drilling Contractor: S&G Drilling	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								Silty sand (SM), brown (10YR 4/3), dry, loose, 15% rocks, angular, well-graded (1/2" to 3")
								Angular rocks at 1.5 ft bgs
2								Yellowish brown (10YR 5/6), trace well graded fine subangular gravels
4								Slightly moist
		<2.1	<2.6	<6.9	FOR-1550QB-SB30-1-5.0	0.0		Light yellowish brown (10YR 6/4)
6								
								Poorly graded sand (SP), fine to medium grained, subangular, trace fine angular to rounded gravels (1/4" to 1"), moist, appears medium dense
8								75% well graded angular gravels in 2" layer
		<2.1	<2.6	<6.9	FOR-1550QB-SB30-2-10.0	0.0		Very fine silty sand (ML), yellowish brown (10YR 5/4), medium to stiff, low plasticity, moist
10								Poorly graded sand (SP), yellowish brown (10YR 5/4), trace silt, fine to medium grained, subangular, moist, appears dense
12								Light yellowish brown (10YR 6/4)
								Yellowish brown (10YR 5/4), fine grained
14								Fine to medium grained
		<2.1	<2.6	<6.9	FOR-1550QB-SB30-3-15.0	0.0		
16								
								Well graded sand (SW), light yellowish brown (10YR 6/4), fine to coarse grained, subangular subrounded,moist, appears medium dense, trace fine well graded gravels, subangular
18								One large gravel, subrounded (1")
								Poorly graded sand (SP), yellowish brown (10YR 5/4), fine to to medium grained, moist, appears dense
		<2.1	<2.6	<6.9	FOR-1550QB-SB30-4-20.0	0.0		
20								Bottom of boring at 20 ft bgs

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB31

Dates Drilled: 11-19-08	Total Depth Drilled: 25 feet	Logged By: Natalie Williams
Drilling Contractor: S&G Drilling	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0					FOR-1550QB-SB31-1-0.5	0.0		Road base, silty sand (SM), brown (10YR 4/3), dry, loose, fine grained
								Intact layer of hard black clasts, petroleum impregnated (asphaltic - some vitrified)
								75% rocks angular (1-2"), 25% SM as above
2								At 1 ft, abrupt change to silty sand (SM), dark yellowish brown (10YR 4/4), no gravels, moist, loose
4								
		<2.1	<2.6	<6.9	FOR-1550QB-SB31-2-5.0	0.0		Silty sand as above
6								
8								
		<2.1	<2.6	<6.9	FOR-1550QB-SB31-3-10.0	0.0		
10								Silty sand (SM), yellowish brown (10YR 5/4), moist, appears medium dense, trace well graded subangular fine gravels (1/8" to 3/4")
12								
								Poorly graded sand (SP), light yellowish brown (10YR 5/4), fine grained, moist, appears dense
14								Blob of silty clay (CL), yellowish brown (10YR 5/4), medium plasticity, medium consistency (1")
		<2.1	5.4J	<6.9	FOR-1550QB-SB31-4-15.0	0.0		Matrix color change to yellowish brown (10YR 5/4)
16								
								Well graded sand (SW), yellowish brown (10YR 5/4), fine to coarse grained, subangular to subrounded, moist, appears dense, trace wll graded fine gravels, subangular
18								
								Poorly graded sand (SP), yellowish brown (10YR 5/4), as above, trace well graded fine subangular gravels
20		<2.1	<2.6	<6.9	FOR-1550QB-SB31-5-20.5	0.0		
								Bottom of boring at 20.5 feet bgs

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB32

Dates Drilled: 11-19-08	Total Depth Drilled: 21.5 feet	Logged By: Natalie Williams
Drilling Contractor: S&G Drilling	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0					FOR-1550QB-SB32-1-0.75	0.0		Silty sand (SM), fine to medium grained, dry, loose, brown (10YR 5/3), 15% well graded (asphaltic) petroleum impregnated clast, hard, some vitrified, 1" section of 1.5 diameter steel pipes corroded
					FOR-1550QB-SB32-2-1.25	0.0		@ 0.5 ft bgs: 3" layer of asphalt-like clasts, No cemented clasts. (Boring caving - added water to stabilize)
2								@ 1.0 ft bgs: yellowish brown (10YR 5/4), sand moderately cemented in subrounded platy clasts, brittle
								Poorly graded sand (SP), fine grained, yellowish brown (10YR 5/4), dry, loose, trace coarse gravel (1/2" to 1"), moist, (due to depth, not water added to stabilize)
4		<2.1	<2.6	<6.9	FOR-1550QB-SB32-3-5.0	0.0		
6								Increase in grain size to medium, subangular, trace well graded subangular fine gravel
8								
		<2.1	4.3J	7.5J	FOR-1550QB-SB32-4-10.0	0.0		Very fine silty sand (ML), yellowish brown (10YR 5/4), non-plastic, slightly moist, medium consistency
10								Poorly graded sand (SP), light yellowish brown (10YR 6/4), fine to medium grained, appears medium dense, moist, subangular
12								
14		<2.1	<2.6	<6.9	FOR-1550QB-SB32-5-15.0	0.0		
16								Increase in grain size to medium to coarse
								Fine to medium grained
18								Medium to coarse grained
20								
		<2.1	<2.6	<6.9	FOR-1550QB-SB32-6-21.5	0.0		
22								Bottom of boring at 21.5 ft bgs

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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Santa Maria, CA 93455
805-349-7000

Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB33

Dates Drilled: 11/20/08	Total Depth Drilled: 15 feet	Logged By: Bonnie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								Silty Sand (SM); Brown (10YR 5/3); fine-grained, dry, loose; 25% coarse rocks, angular, well graded, 3 petroleum impragnated hard clasts (1" to 2") (asphaltic), Many fine roots.
								6" layer of angular rocks
2								Silty Sand (SM); yellowish brown (10YR 5/4), dry to slightly moist, fine to medium grained No rocks at 1 ft bgs
4		<2.1	<2.6	<6.9	FOR-1550QB-SB33-1-5.0	0.0		
6								Poorly graded sand (SP), fine to med. grained, light yellowish brown (10YR 6/4); subangular to subrounded; trace well graded fine subangular gravel, slightly moist; appears med. dense
8								Well graded sand (SW), fine to coarse grained light yellowish brown (10YR 6/4), subangular to subrounded, trace well graded coarse gravels, angular to subangular (1/4" to 1")
								Silty Clay (CL), yellowish brown (10YR 5/4), medium plasticity, med. consistency, slightly moist
10		<2.1	3.7J	<6.9	FOR-1550QB-SB33-2-10.0	0.0		Poorly graded sand (SP), fine to med. grained light yellowish-brown, appears med. dense, slightly moist, trace subrounded to subangular gravel
12								Very Fine Silty Sand (ML), yellowish brown (10YR 5/4), moist, medium consistency
14		<2.1	<2.6	<6.9	FOR-1550QB-SB33-3-15.0	0.0		
16								Refusal at 15 ft due to caving sand Boring performed 4 ft West of proposed location due to difficult surroundings for Geoprobe

Explanation

Sand (SP), Silt, Silty Sand (SM), Clayey Silt, Clayey Sand (SC), Silty Clayey Sand, Red Rock, Roadbase, Bentonite Chips

Sand (SW), Clay, Sandy Silt (ML), Silty Clay, Sandy Clay, Organic Silt, Gravel, Petroleum Impacted

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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP34

Dates Drilled: 11-24-08	Total Depth Drilled: 25 feet	Logged By: Bonnie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 7.5 feet previously excavated; see trench log FOR-1550QB/TP34. Boring offset from center of trench by 3 feet to the south due to presence of concrete pad of unknown depth encountered at 5 feet bgs) Poorly graded gravelly sand (GP), gray, gravel subangular, sand medium grained, appears medium dense, organic material present throughout, no odor (roadbase)
2								Silty sand (SM), yellowish brown, slightly moist, medium grained, appears medium dense, some oil impregnated clasts, brick and metal debris, no odor (fill)
4								
		<2.1	190	440	FOR-1550QB-SB/TP34-1-5.0	0.0		
6								
		<2.1	7.3J	45J	FOR-1550QB-SB/TP34-2-7.5	0.0		
8								Silty sand (SM), very dark grayish brown (10YR 3/2), moist, fine to medium grained, trace well graded subangular fine gravel, petroleum stained, appears dense
								Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine to medium grained, 20% well graded fine subrounded to subangular gravel, appears medium dense
10								
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP34-3-10.0	0.0		
12								Fine grained sand, no gravel
14								
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP34-4-15.0	0.0		
16								
18								Well graded sand (SW), very pale brown (10YR 7/4), moist, fine to coarse sand, rounded to angular, 20% well graded gravel, fine to coarse, subrounded to angular, up to 1" diameter
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP34-5-20.0	0.0		
20								Refusal at 20 ft due to caving sand. Boring FOR-1550QB-SB/TP34 terminated at 20 ft bgs at 10:55 on November 24, 2008.

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP35

Dates Drilled: 11-24-08	Total Depth Drilled: 25 feet	Logged By: Bonnie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								
		<2.1	1900	16000	FOR-1550QB-SB/TP35-1-1.0	0.0		(Upper 5 feet previously excavated; see trenchlog FOR-1550QB-SB/TP35) Poorly graded gravel with sand (GP), grayish brown, gravel subangular, 0.5" diameter, sand medium grained, appears medium dense, no odor, organic material (roadbase)
2								Silty sand (SM), light brown, dry to slightly moist, medium grained, appears medium dense, impregnated oil sand clasts throughout, dry and brittle, trace gravel, metal, cement, and brick debris, no odor (fill)
4								Intact oil impregnated sand, slight odor
		<2.1	530	1600	FOR-1550QB-SB/TP35-2-5.0	0.0		
6								Poorly recovery - Slough from 5 to 7 ft bgs
8								Poorly Graded Sand (SP), light yellowish brown (10YR 6/4), moist, fine grained, appears medium dense
10		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP35-3-10.0	0.0		Well graded sand (SW), light yellowish brown (10YR 6/4), moist, fine to coarse grained sand, subrounded to subangular, trace well graded fine to coarse gravel, rounded to subangular, appears medium dense
12								Very fine silty sand (ML), yellowish brown (10YR 5/4), moist, non plastic, medium consistency
14		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP35-4-15.0	0.0		Poorly graded sand (SP), very pale brown (10YR 7/3), moist, fine grained, appears medium dense, trace well graded fine gravels, subrounded to subangular
16								
18								Well graded sand (SW), very pale brown (10YR 7/4), moist, fine to coarse sand, rounded to angular, appears dense, trace well graded gravel, coarse to fine, subrounded to subangular
20		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP35-5-20.0	0.0		
22								Silty clay (CL), yellowish brown (10YR 5/4), moist, medium plasticity, medium consistency
24								Poorly graded sand (SP), yellowish brown (10YR 5/4), moist, fine grained, appears medium dense, 20% well graded fine to coarse gravels, subrounded to subangular, 0.25" to 1" diameter
		<2.1	2.9J	<6.9	FOR-1550QB-SB/TP35-6-25.0	0.0		
26								Boring FOR-1550QB-SB/TP35 terminated at 25 ft bgs at 12:40 on November 24, 2008. Backfilled with bentonite chips.

Explanation

Sand (SP), Silt, Silty Sand (SM), Clayey Silt, Clayey Sand (SC), Silty Clayey Sand, Red Rock, Roadbase, Bentonite Chips

Sand (SW), Clay, Sandy Silt (ML), Silty Clay, Sandy Clay, Organic Silt, Gravel, Petroleum Impacted

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2625 S. Miller Street, Suite 104
Santa Maria, CA 93455
805-349-7000

Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP36

Dates Drilled: 11-24-08	Total Depth Drilled: 25 feet	Logged By: Bonnie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated; see trenchlog FOR-1550QB-SB/TP36) Well graded gravel with sand (GW), grayish brown, dry, gravel subangular, 0.25" to 0.75" diameter, sand medium grained, appears medium dense, no odor (roadbase)
2		<2.1	2600	17000	FOR-1550QB-SB/TP36-2-2.0	0.0		Silty sand (SM), yellowish brown, slightly moist, medium grained, appears medium dense, trace gravel, impregnated oil sand clasts throughout
4		<2.1	<2.6	23J	FOR-1550QB-SB/TP36-1-5.0	0.0		
6								Silty sand (SM), brown (10YR 4/3), dry, fine to medium grained, appears medium dense
8								Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine grained, appears medium dense Well graded sand (SW), light yellowish brown (10YR 6/4), moist, fine to coarse sand, trace fine gravel, appears dense
10		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP36-3-10.0	0.0		Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine grained, appears medium dense Well graded sand (SW), light yellowish brown (10YR 6/4), moist, fine to coarse sand, trace fine gravel, appears dense
12								Well graded gravel (GW), mixed with well graded sand (SW), light yellowish brown (10YR 6/4), moist, fine to coarse sand, gravel fine to coarse, appears dense
14		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP36-4-15.0	0.0		Well graded sand (SW), light yellowish brown (10YR 6/4), moist, fine to coarse sand, appears dense Poorly graded sand (SP), very pale brown (10YR 7/3), moist, fine to medium grained, trace fine well graded subangular gravel, appears medium dense Fine grained, no gravel at 13 feet bgs
16								
18								Well graded sand (SW), very pale brown (10YR 7/3), moist, fine to coarse grained, rounded to angular, trace fine well graded gravel, appears dense
20		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP36-5-20.0	0.0		
22								Poorly graded sand (SP), very pale brown (10YR 7/3), moist, fine grained, appears medium dense Silty clay (CL), yellowish brown (10YR 5/4), moist, medium plasticity, medium consistency
24		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP36-6-25.0	0.0		Well graded gravel (GW), mixed with well graded sand (SW), light yellowish brown (10YR 6/4), moist, fine to coarse sand, gravel fine to coarse, appears dense Poorly graded sand (SP), very pale brown (10YR 7/3), moist, fine grained, appears medium dense
26								Boring FOR-1550QB-SB/TP36 terminated at 25 feet bgs at 13:30 on November 24, 3008. Backfilled with bentonite chips.

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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805-349-7000

Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP37

Dates Drilled: 11-24-08	Total Depth Drilled: 25 feet	Logged By: Bonnie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated; see trenchlog FOR-1550QB-SB/TP37. Boring offset from center of trench by 6 feet to the west due to presence of concrete pad of unknown depth encountered at 5 feet bgs)
2		<2.1	5100	94000	FOR-1550QB-SB/TP37-1-2.5	0.0		Poorly graded gravelly sand (GP), gray, gravel subangular, 0.5" diameter, sand medium grained, appears medium dense, slight odor, organic material (roadbase)
4		810	23000	16000	FOR-1550QB-SB/TP37-2-5.0	0.0		Silty sand (SM), yellowish brown, slightly moist, medium grained, appears medium dense, strong odor, oil impregnated sand clasts throughout, some dry and brittle, some flexible and semi-liquid, wood, brick, pipe, and concrete debris throughout (fill)
6								Silty sand (SM), yellowish brown (10YR 5/4), moist, fine to medium grained, appears medium dense
8								Well graded gravel (GW), rounded to subangular, mixed with concrete clasts
10		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP37-3-10.0	0.0		Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, trace silt, appears medium dense
12								Well graded sand (SW), very pale brown (10YR 7/3), moist, fine to coarse grained, rounded to angular, 20% well graded fine gravel, subrounded to subangular, trace coarse subangular gravel up to 1" diameter
14		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP37-4-15.0	0.0		Poorly graded sand (SP), yellowish brown (10YR 5/4), moist, fine to medium grained, appears medium dense
16								Silty clay (CL), yellowish brown (10YR 5/4), moist, medium plasticity, medium consistency
18								Poorly graded sand (SP), yellowish brown (10YR 5/4), moist, fine to medium grained, appears medium dense
20		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP37-5-20.0	0.0		Very fine silty sand (ML), yellowish brown (10YR 5/4), moist, non plastic, medium to stiff consistency
22								Poorly graded sand (SP), yellowish brown (10YR 5/4), moist, fine grained, appears medium dense
24		<2.1	4.1J	<6.9	FOR-1550QB-SB/TP37-6-25.0	0.0		Well graded sand (SW), very pale brown (10YR 7/4), moist, fine to coarse grained, rounded to angular, 20% well graded gravel, fine to coarse, subrounded to angular
26								Poorly graded sand (SP), yellowish brown (10YR 5/4), moist, fine to medium grained, appears medium dense
								Well graded sand (SW), very pale brown (10YR 7/4), moist, fine to coarse grained, rounded to angular, 20% well graded gravel, fine to coarse, subrounded to angular
								Poorly graded sand (SP), yellowish brown (10YR 5/4), moist, fine grained, appears medium dense
								Boring FOR-1550QB-SB/TP37 terminated at 25 feet bgs at 09:55 on November 24, 2008. Backfilled with bentonite chips.

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP38

Dates Drilled: 11-24-08	Total Depth Drilled: 25 feet	Logged By: Bonnie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 6 feet previously excavated; see trenchlog FOR-1550QB-SB/TP38. Boring offset from center of trench by 4 feet to the northwest due to presence of concrete pad of unknown depth encountered at 5 feet bgs) Well graded gravel with sand (GW), grayish brown, dry, gravel subangular, 0.25" to 0.75" diameter, sand medium grained, appears medium dense, no odor (roadbase)
2								Intact oil impregnated sand, slightly moist, pliable, slight odor Silty sand (SM), dark yellowish brown, moist, medium grained, appears medium dense, trace gravel, metal and concrete debris throughout, some oil impregnated clasts (fill)
4		12	48000	33000	FOR-1550QB-SB/TP38-1-5	0.0		
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP38-2-6	0.0		Buried concrete slab
6								Silty sand (SM), light yellowish brown (10YR 6/4), moist, fine to medium grained, appears dense
8								Well graded sand (SW), very pale brown (10YR 7/3), moist, fine to coarse grained, rounded to angular, trace well graded gravel, fine to coarse, subrounded, appears dense
10		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP38-3-10.0	0.0		
12								Poorly graded sand (SP), pale brown (10YR 6/3), moist, fine grained, trace fine subrounded gravel, appears dense

Explanation

Sand (SP); Silt; Silty Sand (SM); Clayey Silt; Clayey Sand (SC); Silty Clayey Sand; Red Rock; Roadbase; Bentonite Chips

Sand (SW); Clay; Sandy Silt (ML); Silty Clay; Sandy Clay; Organic Silt; Gravel; Petroleum Impacted

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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP38

Dates Drilled: 11-24-08	Total Depth Drilled: 25 feet	Logged By: Bonnie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
14								Silty clay (CL), yellowish brown (10YR 5/4), moist, medium plasticity, medium to stiff consistency
								Silty sand (SM), light yellowish brown (10YR 6/4), moist, fine grained, appears medium dense
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP38-4-15.0	0.0		
16								
18								Well graded sand (SW), very pale brown (10YR 7/3), moist, fine to coarse grained, rounded to angular, trace well graded gravel, fine to coarse, subrounded, appears dense
								Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine to medium grained, 10% well graded fine gravel, subrounded, appears medium dense
20		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP38-5-20.0	0.0		
22								Well graded gravel (GW), fine, subrounded
								Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine to medium grained, 10% well graded fine gravel, subrounded, appears medium dense
								Well graded gravel (GW), fine, subrounded
								Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine to medium grained, 10% well graded fine gravel, subrounded, appears medium dense
24								Well graded gravel (GW), fine, subrounded
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP38-6-25.0	0.0		Well graded sand (SW), light yellowish brown (10YR 6/4), moist, fine to coarse grained, rounded to angular, trace well graded fine gravel, subangular to subrounded, appears dense
26								Boring FOR-1550QB-SB/TP38 terminated at 25 feet bgs at 14:35 on November 24, 2008. Backfilled with bentonite chips.

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP39

Dates Drilled: 11-24-08	Total Depth Drilled: 25 feet	Logged By: Bonnie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP39-1-0.5	0.0		(Upper 5 feet previously trenched; see FOR-1550QB-SB/TP39) Poorly graded gravelly sand (GP), gray, dry, gravel subangular, 1/4" diameter, sand medium grained, appears loose
2								Silty sand (SM), light brown, slightly moist, medium grained, appears dense, no odor, some oil impregnated clasts (fill)
4		<2.1	1200	2300	FOR-1550QB-SB/TP39-2-5.0	0.0		
6								Silty sand (SM), brown (10YR 5/3), dry, fine to medium grained, appears medium dense, trace angular to subangular well graded coarse gravel, one petroleum impregnated hard sand clast
8								Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine grained, subrounded to subangular, appears dense
10		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP39-3-10.0	0.0		Well graded sand (SW), very pale brown (10YR 7/3), moist, fine to coarse sand, rounded to angular, 20% well graded gravel, fine to coarse, up to 1" diameter, subangular to subrounded, appears dense Poor recovery
12								Well graded sand (SW), light yellowish brown (10YR 6/4), moist, fine to coarse sand, rounded to angular, trace well graded gravel, fine to coarse, up to 1" diameter, subangular to subrounded, appears dense
14		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP39-4-15.0	0.0		
16								Liner jammed up inside sampler. In attempting to get liner out, all soil from 15 to 20 ft bgs was lost. No sample could be collected.
18								
20								Refusal at 20 ft due to caving sand. Boring FOR-1550QB-SB/TP39 terminated at 20 ft bgs at 08:45 on November 24, 2008.

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP40

Dates Drilled: 11-21-08	Total Depth Drilled: 25 feet	Logged By: Bonnie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								
		130	4400	5800	FOR-1550QB-SB/TP40-1-1.0	0.0		(Upper 5 feet previously excavated, see trench log FOR-1550QB-SB/TP40) Well graded gravel with sand (GW), gray, dry, gravel subangular, 0.25" to 0.75" diameter, sand medium grained, appears loose, no odor (roadbase)
2								Intact oil impregnated sand, pliable, moderate odor
								Silty sand (SM), yellowish brown, moist, medium grained, appears medium dense, trace gravels, 0.25" to 0.5" diameter (fill)
4		<2.1	36000	7600	FOR-1550QB-SB/TP40-2-5.0	0.0		Silty sand (SM), yellowish brown (10YR 5/4), moist, fine to medium grained, appears loose to medium dense, trace well graded fine gravel, subangular to subrounded
6								
8								Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine grained, rounded to subangular, appears medium dense
10		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP40-3-10.0	0.0		
12								Fine to medium grained
								Very fine silty sand (ML), yellowish brown (10YR 5/4), moist, non plastic, medium to stiff consistency
14		<2.1	3.3J	<6.9	FOR-1550QB-SB/TP40-4-15.0	0.0		Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine to medium grained, subrounded to subangular, appears medium dense
16								Yellowish brown (10YR 5/4), fine grained
								Well graded sand (SW), light yellowish brown (10YR 6/4), moist, fine to coarse grained, subangular to subrounded, appears medium dense
18								Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine to medium grained, subrounded to subangular, appears medium dense
20		<2.1	2.7J	<6.9	FOR-1550QB-SB/TP40-5-20.0	0.0		
22								
24								Silty sand (SM), yellowish brown (10YR 5/4), moist, fine to medium grained, appears medium dense
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP40-6-25.0	0.0		Boring FOR-1550QB-SB/TP40 terminated at 25 ft bgs at 14:20 on November 21, 2008. Backfilled with bentonite chips.
26								

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP41

Date Drilled: 11-25-08	Total Depth Drilled: 25 feet	Logged By: Bonnie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated, see trench log FOR-1550QB-SB/TP41) Well graded gravel with sand (GW)
2		140	11000	33000	FOR-1550QB-SB/TP41-2-1.5	0.0		Intact oil impregnated sand, slight odor Silty sand (SM), dark brown, moist, medium grained, appears dense, no odor (native)
4		<2.1	2.6J	<6.9	FOR-1550QB-SB/TP41-1-5	0.0		
6								Silty sand (SM), yellowish brown (10YR 5/4), moist, fine grained, appears medium dense
8								Well graded sand (SW), pale brown (10YR 6/3), moist, fine to coarse grained, subrounded to angular, trace well graded gravel, fine to coarse, subrounded to angular, appears medium dense
10		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP41-3-10.0	0.0		
12								Silty clay (CL), yellowish brown (10YR 5/4), moist, medium plasticity, medium stiff
14		<2.1	4.7J	<6.9	FOR-1550QB-SB/TP41-4-15.0	0.0		Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine to medium grained, appears medium dense Fine grained
16								Well graded sand (SW), pale brown (10YR 6/3), moist, fine to coarse grained, subrounded to angular, trace well graded gravel, fine to coarse, subrounded to angular, appears medium dense
18								Poorly graded sand (SP), very pale brown (10YR 7/3), moist, fine to medium grained, trace fine gravel, subrounded, appears medium dense
20		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP41-5-20.0	0.0		Medium grained
22								Well graded sand (SW), pale brown (10YR 6/3), moist, fine to coarse sand, subrounded to subangular, 10% well graded gravel, fine to very coarse, up to 1" diameter, appears dense
24		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP41-6-25.0	0.0		
26								Boring FOR-1550QB-SB/TP41 terminated at 25 ft bgs at 08:40 on November 25, 2008 and backfilled with bentonite chips

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

URS
2625 S. Miller Street, Suite 104
Santa Maria, CA 93455
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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP42

Dates Drilled: 11/20/08	Total Depth Drilled: 25 feet	Logged By: Bonnie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated, see trench log FOR-1550QB-SB/TP42) Well graded gravel sand (GW); grayish brown; Dry; sub angular 1/4" to 3/4"; medium grained; appears medium dense; No odor (Roadbase) Bits of brick scattered throughout
2								Oil Impact; intact; dry; brittle
4								Silty sand (SM); yellowish-brown; moist; medium grained; appears medium dense; trace gravel (fill) @ 3 ft bgs: Silty sand (SM), yellowish brown, moist; medium grained; appears medium dense; no signs of gravel but could potentially have some (natural or fill)
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP42-2-5.0	0.0		
6								Poorly graded sand (SP), yellowish brown (10YR 5/4), fine grained, moist, appears medium dense
8								Fine to medium grained
10		<2.1	4.8J	17J	FOR-1550QB-SB/TP42-3-10.0	0.0		
12								Trace fine angular to subangular gravel
14		<2.1	3.1J	<6.9	FOR-1550QB-SB/TP42-4-15.0	0.0		Well graded sand (SW), yellowish brown (10YR 5/4), fine to coarse subangular to subrounded sand, 30% well graded coarse subangular to angular gravels
16								Poorly graded sand (SP), yellowish brown (10YR 5/4), fine to medium grained, moist, appears medium dense, trace silt, trace fine to coarse subrounded gravels
18								Well graded sand (SW), yellowish brown (10YR 5/4), fine to coarse grained, subangular, trace fine subangular gravel, appears medium dense, moist
20		<2.1	11	22J	FOR-1550QB-SB/TP42-5-20.0	0.0		Silty Clay (CL), mottled brown (10YR 5/3), dark gray (10YR 4/1), and yellowish red (5YR 4/6), medium plasticity, medium consistency, moist
22								Very fine silty sand (ML), yellowish brown (10YR 5/4), medium to stiff, slightly moist
24								Poorly graded sand (SP), yellowish brown (10YR 5/4), fine to medium grained, medium dense, moist
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP42-6-25.0	0.0		Silty clay (CL), yellowish brown (10 YR 5/4), medium plasticity, medium consistency, moist
26								Poorly graded sand (SP), light yellowish brown (10YR 6/4), fine grained, medium dense, moist
								Bottom of boring at 25 ft bgs

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

URS
2625 S. Miller Street, Suite 104
Santa Maria, CA 93455
805-349-7000

Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP43

Date Drilled: 11-21-08	Total Depth Drilled: 25 feet	Logged By: Bonnie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated, see trench log FOR-1550QB-SB/TP43) Well graded gravel with sand (GW), gray, dry, gravel subangular, 0.25" to 0.75", sand medium grained, appears loose, no odor (roadbase)
2		<2.1	300	860	FOR-1550QB-SB/TP43-1-2.0	0.0		Silty sand (SM), light yellowish brown, dry to slightly moist, medium grained, some oil impregnated sand clasts, brick debris throughout, appears medium dense, no odor (fill)
4								Silty sand (SM), dark brown, moist, medium grained, appears medium dense, trace gravel (fill)
		<2.1	1500	2100	FOR-1550QB-SB/TP43-2-5.0	0.0		
6								Poorly graded sand (SP), light yellowish brown (10YR 6/4), slightly moist, appears medium dense, fine grained, subangular
8								Fine to medium grained
10		<2.1	3.1J	<6.9	FOR-1550QB-SB/TP43-3-10.0	0.0		Fine grained
12								Well graded sand (SW) light yellowish brown (10YR 6/4), slightly moist, sand fine to coarse, subangular to subrounded, 10% well graded subrounded to subangular fine & coarse gravel, appears medium dense
14		<2.1	3.3J	<6.9	FOR-1550QB-SB/TP43-4-15.0	0.0		Poorly graded sand (SP), light yellowish brown (10YR 6/4), slightly moist, fine to medium grained, subangular, appears medium dense
16								
18								Well graded sand (SW) light yellowish brown (10YR 6/4), slightly moist, sand fine to coarse, subangular to subrounded, 10% well graded subrounded to subangular fine & coarse gravel, appears medium dense
								Silty Clay (CL), yellowish brown (10YR 5/4), moist, medium plasticity, medium consistency
20		<2.1	5.5J	<6.9	FOR-1550QB-SB/TP43-5-20.0	0.0		Poorly graded sand (SP), yellowish brown (10YR 5/4), moist, fine grained, subrounded, appears medium dense
22								Light yellowish brown (10 YR 6/4)
								Very fine silty sand (ML), yellowish brown (10YR 5/4), moist, non plastic, appears stiff
24								Silty Sand (SM), yellowish brown (10 YR 5/4), moist, fine to medium grained, trace fine subrounded gravel
		<2.1	3.2J	<6.9	FOR-1550QB-SB/TP43-6-25.0	0.0		Poorly graded sand (SP), light yellowish brown (10 YR 6/4), slightly moist, fine to medium grained, subangular to subrounded, appears medium dense
26								Boring FOR-1550QB-SB/TP43 terminated at 25 ft bgs at 08:20 on November 21, 2008. Backfilled with bentonite chips.

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP44

Date Drilled: 11-21-08	Total Depth Drilled: 25 feet	Logged By: Bonnie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0					FOR-1550QB-SB/TP44-1-0.5	0.0		(Upper 7.5 feet previously excavated, see trench log FOR-1550QB-SB/TP44) Well graded gravel with sand (GW), gray, dry, gravel subangular, 0.25" to 0.75" diameter, sand medium grained, appears medium dense (roadbase)
2								Intact petroleum impregnated sand, pliable, moderate odor
4		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP44-2-5.0	0.0		Silty sand (SM), yellowish brown, moist, medium grained, appears dense
6								
8		<2.1	<2.6	7.6J	FOR-1550QB-SB/TP44-3-7.5	0.0		Silty sand (SM), yellowish brown (10YR 5/4), moist, fine grained, appears medium dense
10		<2.1	2.8J	<6.9	FOR-1550QB-SB/TP44-4-10.0	0.0		Poorly graded sand (SP), yellowish brown (10YR 5/4), moist, fine grained, appears medium dense Well graded sand (SW), yellowish brown (10YR 5/4), moist, fine to coarse grained, subrounded to subangular, 10% well graded gravel, fine to coarse, subrounded to subangular, appears medium dense
12								Poorly graded sand (SP), very pale brown (10YR 7/3), moist, fine to medium grained, subangular, appears medium dense
14		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP44-5-15.0	0.0		15% well graded gravel, coarse, angular to subrounded
16								
18								Medium grained, no gravel
20		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP44-6-20.0	0.0		Well graded sand (SW), pale brown (10YR 6/3), moist, fine to coarse grained, subrounded to subangular, 10% well graded gravel, fine to coarse, subrounded to subangular, appears medium dense
22								Well graded coarse gravel, subrounded to subangular , 0.5" to 1" diameter Poorly graded sand (SP), yellowish brown (10YR 5/4), moist, fine to medium grained, trace nodules of silty clay (CL), 0.5" diameter at 23 ft bgs Fine grained sand, no clay nodules
24		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP44-7-25.0	0.0		Well graded sand (SW) with silty sand (SM), yellowish brown (10YR 5/6), moist, 10% silt, 15% gravel, subrounded to subangular, appears dense
26								Boring FOR-1550QB-SB/TP44 terminated at 25 ft bgs at 12:55 on November 21, 2008. Backfilled with bentonite chips.

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

URS
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Santa Maria, CA 93455
805-349-7000

Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP45

Date Drilled: 11-21-08	Total Depth Drilled: 25 feet	Logged By: Bonnie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								
								(Upper 5 feet previously excavated, see trench log FOR-1550QB-SB/TP45) Well graded gravel with sand (GW), grayish brown, dry, subangular gravel, 1/4" to 3/4" diameter, medium grained sand, appears medium dense, no odor (roadbase)
2								Silty sand (SM), dark brown, moist, medium grained, appears medium dense, trace gravel, debris/trash scattered on west side of trench (fill)
								Silty sand (SM), light yellowish brown, moist, medium grained, appears medium dense, trace gravel (fill)
4		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP45-2-5.0	0.0		Yellowish brown (10YR 5/4), fine to medium grained
6								Poorly graded sand (SP), yellowish brown (10YR 5/4), moist, fine grained, rounded to subrounded, appears dense
8								Fine to medium grained
10		<2.1	2.8J	<6.9	FOR-1550QB-SB/TP45-3-10.0	0.0		
12								Well graded sand (SW), very pale brown (10YR 7/3), slightly moist, fine to coarse grained, subrounded to subangular, 15% well graded gravel, angular to subrounded, fine to coarse, appears dense
								Poorly graded sand (SP), pale brown (10YR 6/3), slightly moist, fine grained, appears dense
14		<2.1	3.1J	<6.9	FOR-1550QB-SB/TP45-4-15.0	0.0		Fine to medium grained, trace fine subrounded to subangular gravel
16								
18								Well graded sand (SW), very pale brown (10YR 7/3), moist, fine to coarse grained, trace gravel, appears dense
20		<2.1	3.1J	<6.9	FOR-1550QB-SB/TP45-5-20.0	0.0		Poorly graded sand (SP), very pale brown (10YR 7/4), slightly moist, fine to medium grained, appears medium dense
22								Very fine silty sand (ML), yellowish brown (10YR 5/4), moist, non plastic, stiff
24								Silty clay (CL), yellowish brown (10YR 5/4), moist, medium plasticity, medium consistency
		<2.1	3.1J	<6.9	FOR-1550QB-SB/TP45-6-25.0	0.0		Poorly graded sand (SP), very pale brown (10YR 7/4), slightly moist, fine to medium grained, appears medium dense
26								Boring FOR-1550QB-SB/TP45 terminated at 25 ft bgs at 10:15 on November 21, 2008. Backfilled with bentonite chips.

Explanation

Sand (SP), Silt, Silty Sand (SM), Clayey Silt, Clayey Sand (SC), Silty Clayey Sand, Red Rock, Roadbase, Bentonite Chips

Sand (SW), Clay, Sandy Silt (ML), Silty Clay, Sandy Clay, Organic Silt, Gravel, Petroleum Impacted

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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP46

Date Drilled: 11-21-08	Total Depth Drilled: 25 feet	Logged By: Bonnie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated, see trench log FOR-1550QB-SB/TP46) Well graded gravel (GW), grayish brown, dry, subangular gravel, 1/4" to 3/4" diameter, medium grained sand, appears medium dense, no odor (roadbase)
		<2.1	63	390	FOR-1550QB-SB/TP46-1-1.5	0.0		Silty sand (SM), yellowish brown, moist, medium grained, appears medium dense, no odor, brick scattered throughout, some petroleum impregnated sand at 1.5 feet bgs (fill)
2								
4								Silty sand (SM), yellowish brown, moist, fine to medium grained, appears medium dense, no odor (native)
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP46-2-5	0.0		Dark yellowish brown (10YR 4/6), slightly moist, trace well graded gravel, fine to coarse, subrounded to angular
6								
								Poorly graded sand (SP), light yellowish brown (10YR 6/4), slightly moist, fine to medium grained, subangular, appears medium dense
8								Well graded sand (SW), light yellowish brown (10YR 6/4), slightly moist, fine to coarse grained, 15% fine gravel, subrounded to subangular, trace coarse gravel
		<2.1	2.7J	<6.9	FOR-1550QB-SB/TP46-3-10	0.0		
10								Poorly graded sand (SP), pale brown (10YR 6/3), slightly moist, fine to medium grained, subrounded to subangular, trace silt, trace fine gravel, subrounded, appears medium dense Light yellowish brown (10YR 6/4)
12								Well graded sand (SW), very pale brown (10YR 7/3), slightly moist, fine to coarse grained, subrounded to subangular, 20% well graded gravel, fine to coarse, subrounded to subangular, appears dense

Explanation

Sand (SP), Silt, Silty Sand (SM), Clayey Silt, Clayey Sand (SC), Silty Clayey Sand, Red Rock, Roadbase, Bentonite Chips

Sand (SW), Clay, Sandy Silt (ML), Silty Clay, Sandy Clay, Organic Silt, Gravel, Petroleum Impacted

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2625 S. Miller Street, Suite 104
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805-349-7000

Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP46

Date Drilled: 11-21-08	Total Depth Drilled: 25 feet	Logged By: Bonnie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
								Silty sand (SM), yellowish brown (10YR 5/4), moist, fine grained, appears dense
14								Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine to medium grained, subrounded to subangular, trace well graded gravel, subrounded, appears medium dense
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP46-4-15	0.0		
16								Silty sand (SM), yellowish brown (10YR 5/4), moist, fine grained, appears dense
								Poorly graded sand (SP), yellowish brown (10YR 5/4), moist, fine to medium grained, appears medium dense
18								Well graded sand (SW), light yellowish brown (10YR 6/4), slightly moist, fine to coarse grained, subrounded to subangular, 20% well graded gravel, fine to coarse, subrounded to subangular, appears dense
								Silty clay (CL), yellowish brown (10YR 5/4), moist, medium plasticity, medium consistency
								Poorly graded sand (SP), yellowish brown (10YR 5/4), moist, fine to medium grained, appears medium dense
20		<2.1	4.0J	<6.9	FOR-1550QB-SB/TP46-5-20	0.0		
								Silty sand (SM), yellowish brown (10YR 5/4), moist, fine to medium grained, appears medium dense, 15% well graded gravel, fine to coarse, rounded to subangular
22								Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine to medium grained, appears medium dense
								Silty clay (CL), yellowish brown (10YR 5/4), moist, medium plasticity, medium consistency
								Silty sand (SM), yellowish brown (10YR 5/4), moist, fine to medium grained, appears medium dense
24								Poorly graded sand (SP), yellowish brown (10YR 5/4), moist, fine to medium grained, appears medium dense
		<2.1	3.4J	<6.9	FOR-1550QB-SB/TP46-6-25	0.0		
								Boring FOR-1550QB-SB/TP 46 terminated at 25 ft bgs at 09:15 on November 21, 2008. Backfilled with bentonite chips.

Explanation

Sand (SP), Silt, Silty Sand (SM), Clayey Silt, Clayey Sand (SC), Silty Clayey Sand, Red Rock, Roadbase, Bentonite Chips

Sand (SW), Clay, Sandy Silt (ML), Silty Clay, Sandy Clay, Organic Silt, Gravel, Petroleum Impacted

URS
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805-349-7000

Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP47

Dates Drilled: 11-25-08	Total Depth Drilled: 20 feet	Logged By: Bonnie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 ft previously excavated; see trench log FOR-1550QB-SB/TP47) Asphaltic/Concrete (AC); black, dry, asphalt with 1/2 to 3/4 rounded/sub-rounded gravel, asphalt odor
2		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP47-1-2.0	0.0		Silty sand (SM), strong brown, moist, fine grained sand with fines with trace concrete debris and one large diameter concrete block (2'x3'), trace concrete debris is angular 1/8" to 1/2", appears medium dense, no odor (fill)
4		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP47-2-4.5	0.0		Silty sand (SM), yellowish-brown, moist, fine to medium grained sand, appears dense, no odor
6								Silty sand (SM), light yellowish-brown (10YR 6/4), fine to medium grained, one very coarse gravel (1"), appears medium dense, moist
8								Very fine silty sand (ML), yellowish brown (10YR 5/4), non-plastic, stiff, moist
10		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP47-3-10.0	0.0		Unknown, poor recovery from 10 to 11 ft bgs
12								Very fine silty sand (ML), yellowish brown (10YR 5/4), non-plastic, stiff, moist
14								Poorly graded sand (SP), very pale brown (10YR 7/3), fine to medium grained, trace fine gravel, subangular to rounded, appears dense, moist
16		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP47-4-15.0	0.0		Well graded sand (SW);, very pale brown (10YR 7/3), fine to coarse grained, rounded to subangular, trace well graded fine to coarse gravel, subangular to subrounded, moist, appears dense
18								Very fine silty sand (ML), light yellowish brown (10YR 6/4), medium to stiff, moist
20		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP47-5-20.0	0.0		Bottom of boring - Boring FOR-1550QB-SB/TP47 terminated at 20 ft bgs on November 25, 2008 and backfilled with bentonite chips

Explanation

Sand (SP); Silt; Silty Sand (SM); Clayey Silt; Clayey Sand (SC); Silty Clayey Sand; Red Rock; Roadbase; Bentonite Chips

Sand (SW); Clay; Sandy Silt (ML); Silty Clay; Sandy Clay; Organic Silt; Gravel; Petroleum Impacted

URS
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805-349-7000

Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP48

Date Drilled: 12-02-08	Total Depth Drilled: 20 feet	Logged By: Bonnie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated, see trench log FOR-1550QB-SB/TP48) Well graded gravel (GW) with well graded sand, gray, dry, gravel angular to subangular, sand is medium to very coarse grained, appears very dense, no odor (roadbase)
2		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP48-1-2.0	0.0		Silty sand (SM), strong brown, moist, medium grained sand, trace gravel, 1/8" to 1/2" diameter, angular, trace brick at 1 to 2 ft bgs, 1" diameter steel pipe, ~3 feet in length at 1 to 2 ft bgs, appears medium dense, no odor (fill)
4		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP48-2-5.0	0.0		Silty sand (SM), reddish brown, moist, fine to medium grained sand, with fines, appears dense, no odor
6								Poorly graded sand (SP), yellowish brown (10YR 5/4), moist, fine to medium grained, rounded to subangular, trace silt, appears medium dense
8								Well graded sand (SW), very pale brown (10YR 7/3), moist, fine to coarse grained, rounded to subangular, appears dense
								Silty clay (CL), yellowish brown (10YR 5/4), moist, medium plasticity, appears stiff
10		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP48-3-10.0	0.0		Silty sand (SM), yellowish brown (10YR 5/4), moist, fine grained, appears dense
								Silty clay (CL), yellowish brown (10YR 5/4), moist, medium plasticity, appears stiff
								Silty sand (SM), yellowish brown (10YR 5/4), moist, fine to medium grained, trace fine gravel, appears medium dense
12								Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine grained, appears medium dense Fine to medium grained
14		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP48-4-15.0	0.0		
16								
18								Well graded sand (SW), very pale brown (10YR 7/3), moist, fine to coarse grained, rounded to angular, appears medium dense
								Silt with very fine sand (ML), yeloowish brown (10YR 5/4), wet, non plastic, appears soft
20		<2.1	3.1J	<6.9	FOR-1550QB-SB/TP48-5-20.0	0.0		Poorly graded sand (SP), light yellowish brown (10YR 5/4), moist, fine grained, appears dense
								Boring FOR-1550QB-SB/TP48 terminated at 20 ft bgs at 13:10 on December 2, 2008. Backfilled with bentonite chips.

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

URS
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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP49

Date Drilled: 11-25-08	Total Depth Drilled: 20 feet	Logged By: Bonnie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 ft previously excavated; see trench log FOR-1550QB-SB/TP49) Well graded gravel (GW) with well graded sand, gray, dry, gravel subangular, medium grained sand, appears dense, no odor (roadbase)
								Silty sand (SM) light brown to brown, moist, medium grained, appears medium dense, trace gravel (fill)
4		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP49-1-5.0	0.0		
								Silty sand (SM), light yellowish brown (10YR 6/4), moist, fine to medium grained, appears medium dense
6								Well graded sand (SW), very pale brown (10YR 7/3), moist, fine to coarse grained, rounded to subangular, trace fine gravel, subrounded, appears dense
10		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP49-2-10.0	0.0		
								Unknown, poor recovery from 10 to 12 ft bgs
12								Silt with very fine sand (ML), yellowish brown (10YR 5/4), moist, non plastic, medium consistency
								Well graded gravel (GW), moist, fine to very coarse up to 1" diameter, subangular to rounded, appears very dense

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

URS
2625 S. Miller Street, Suite 104
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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP49

Date Drilled: 11-25-08	Total Depth Drilled: 20 feet	Logged By: Bonnie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
14								Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine grained, appears medium dense
								Silt with very fine sand (ML), yellowish brown (10YR 5/4), moist, non plastic, medium consistency
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP49-3-15.0	0.0		Well graded sand (SW), very pale brown (10YR 7/3), moist, fine to coarse grained, rounded to subangular, trace fine and very coarse gravel, subrounded, appears dense
								Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine grained, appears medium dense
								Unknown, poor recovery from 15 to 17 feet bgs
16								
								Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine grained, appears medium dense
18								
								Silty clay (CL), yellowish brown (10YR 5/4), moist, medium plasticity, soft to medium consistency
								Silty sand (SM), yellowish brown (10YR 5/4), moist, fine to medium grained, appears dense
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP49-4-20.0	0.0		Silt with very fine sand (ML), yellowish brown (10YR 5/4), moist, non plastic, medium consistency
20								Boring FOR-1550QB-SB/TP49 terminated at 20 ft bgs at 10:40 on November 25, 2008. Backfilled with bentonite chips.

Explanation

Sand (SP), Silt, Silty Sand (SM), Clayey Silt, Clayey Sand (SC), Silty Clayey Sand, Red Rock, Roadbase, Bentonite Chips

Sand (SW), Clay, Sandy Silt (ML), Silty Clay, Sandy Clay, Organic Silt, Gravel, Petroleum Impacted

URS
2625 S. Miller Street, Suite 104
Santa Maria, CA 93455
805-349-7000

Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP50

Date Drilled: 12-02-08	Total Depth Drilled: 20 feet	Logged By: Bonnie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated, see trench log FOR-1550QB-SB/TP50) Well graded gravel (GW) with well graded sand, gray, dry, gravel subangular, medium to fine grained sand, appears dense, no odor (roadbase)
					FOR-1550QB-SB/TP50-2-1.5	0.0		Silty sand (SM), dark brown, moist, medium grained, appears medium dense, trace gravel, no odor, trace petroleum impregnated clasts, bricks on eastern side (fill)
4								Light brown, fine to medium grained, appears medium dense, no odor
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP50-1-5.0	0.0		Poorly graded sand (SP), yellowish brown (10YR 5/4), moist, fine grained, rounded to subrounded, appears medium dense
6								Fine to medium grained
								10% fine to coarse gravel, well graded, subangular
8								
								Trace fine gravel
10		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP50-3-10.0	0.0		
12								Well graded sand (SW), very pale brown (10YR 7/3), moist, fine to coarse grained, rounded to subangular, trace fine gravel, appears medium dense
								Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine grained, appears medium dense
14								
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP50-4-15.0	0.0		Well graded sand (SW), very pale brown (10YR 7/3), moist, fine to coarse grained, rounded to subangular, trace fine gravel, appears medium dense
16								Silty sand (SM), yellowish brown (10YR 5/4), moist, fine to medium grained, trace fine gravel, appears medium dense
								Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine grained, appears medium dense
18								Well graded sand (SW), very pale brown (10YR 7/3), moist, 20% well graded gravel, fine to very coarse, subangular, appears dense
								Silty clay (CL), yellowish brown (10YR 5/4), moist, medium plasticity, appears stiff
20		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP50-5-20.0	0.0		Well graded sand (SW), very pale brown (10YR 7/3), moist, 20% well graded gravel, fine to very coarse, subangular, appears dense
								Boring FOR-1550QB-SB/TP50 terminated at 20 ft bgs at 13:55 on December 2, 2008. Backfilled with bentonite chips.
22								

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

URS
2625 S. Miller Street, Suite 104
Santa Maria, CA 93455
805-349-7000

Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP51

Date Drilled: 11-25-08	Total Depth Drilled: 20 feet	Logged By: Bonnie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0					FOR-1550QB-SB/TP51-1-0.5	0.0		(Upper 5 ft previously excavated; see trench log FOR-1550QB-SB/TP51) Well graded gravel with sand (GW), gray, dry, subangular, medium grained sand, appears medium dense, no odor, large petroleum impregnated clasts at surface
2								Silty sand (SM), dark brown, dry to moist, medium grained, appears medium dense, trace gravel, no odor (fill)
4								Silty sand (SM), light brown, moist, fine grained, appears medium dense, no odor
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP51-2-5.0	0.0		Silty sand (SM), very pale brown (10YR 7/3), moist, fine to medium grained, appears dense
6								Poorly graded sand (SP), pale brown (10YR 6/3), moist, fine to medium grained, appears dense
								Well graded sand (SW) with well graded coarse gravel, pale brown (10YR 6/3), moist, fine to coarse grained sand, subrounded to angular, gravel subangular, appears dense
8								Well graded gravels (GW), subangular, 1" to 1.5" diameter
								Well graded sand (SW) with well graded coarse gravel, pale brown (10YR 6/3), moist, fine to coarse grained sand, subrounded to angular, gravel subangular, appears dense
10		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP51-3-10.0	0.0		
12								Poorly graded sand (SP), very pale brown (10YR 7/3), moist, medium grained, rounded to subangular, trace fine rounded gravel, appears medium dense
								Silt with very fine sand (ML), yellowish brown (10YR 5/6), moist, nonplastic, appears medium to stiff
14								Poorly graded sand (SP), pale brown (10YR 6/3), moist, fine grained, appears dense
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP51-4-15.0	0.0		
16								
18								Well graded sand (SW), very pale brown (10YR 7/3), moist, fine to coarse grained, rounded to angular, 10% well graded gravel, fine to coarse, up to 1/2" diameter, subrounded to subangular, appears dense
20		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP51-5-20.0	0.0		Boring FOR-1550QB-SB/TP51 terminated at 20 ft bgs at 09:35 on November 25, 2008. Backfilled with bentonite chips.

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

URS
2625 S. Miller Street, Suite 104
Santa Maria, CA 93455
805-349-7000

Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP52

Date Drilled: 12-02-08	Total Depth Drilled: 25 feet	Logged By: Bonnie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated, see trench log FOR-1550QB-SB/TP52) Well graded gravel (GW) with well graded sand, gray, dry, gravel subangular, medium grained sand, appears dense, no odor (roadbase)
2		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP52-2-2	0.0		Silty sand (SM), light to dark brown, moist, medium grained, trace gravel, appears medium dense, no odor (fill)
4		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP52-1-5	0.0		
6								Poorly graded sand (SP), yellowish brown (10YR 5/4), moist, fine to medium grained, rounded to subangular, appears medium dense
8								
10		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP52-3-10.0	0.0		One large petroleum impregnated clast, very dark grayish brown (10YR 3/2), hard, slight odor (oil sand), matrix appears clean
12								
14		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP52-4-15.0	0.0		Medium grained
16								Silty sand (SM), yellowish brown (10YR 5/4), moist, fine to medium grained, appears medium dense
18								Well graded sand (SW), very pale brown (10YR 7/3), moist, fine to coarse grained, rounded to subangular, appears medium dense
								Silt with very fine sand (ML), yellowish brown (10YR 5/4), moist, nonplastic, appears soft
20		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP52-5-20.0	0.0		Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine grained, appears dense
22								Silty sand (SM), yellowish brown (10YR 5/4), moist, fine to medium grained, appears dense Fine grained Fine to medium grained, 10% fine gravel
24								Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, medium grained, trace fine gravel, appears dense Fine grained, no gravel
		18	<2.6	<6.9	FOR-1550QB-SB/TP52-6-25.0	0.0		
26								Boring FOR-1550QB-SB/TP52 terminated at 25 ft bgs at 11:40 on December 2, 2008. Backfilled with bentonite chips.

Explanation

Sand (SP), Silt, Silty Sand (SM), Clayey Silt, Clayey Sand (SC), Silty Clayey Sand, Red Rock, Roadbase, Bentonite Chips

Sand (SW), Clay, Sandy Silt (ML), Silty Clay, Sandy Clay, Organic Silt, Gravel, Petroleum Impacted

URS
2625 S. Miller Street, Suite 104
Santa Maria, CA 93455
805-349-7000

Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP53

Date Drilled: 12-2-08	Total Depth Drilled: 35 feet	Logged By: Bonnie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated, see trench log FOR-1550QB-SB/TP53) Well graded gravel with sand (GW), light brownish gray (10YR 6/2), gravel subangular, medium grained sand, appears dense, no odor (roadbase)
								Silty sand (SM), brownish yellow (10YR 6/6), slightly moist, medium grained, appears medium dense, no odor (fill)
2		<2.1	540	620	FOR-1550QB-SB/TP53-2-2	0.0		
4		<2.1	650	700	FOR-1550QB-SB/TP53-1-5	0.0		Silty sand (SM), yellowish brown (10YR 5/4), moist, fine to medium grained, rounded to subangular, appears loose to medium dense
6								
8		<2.1	3000	4800	FOR-1550QB-SB/TP53-3-7.5	0.7		Brown (10YR 4/3), soil appears saturated by unknown substance, slight to moderate odor
								Alternating striations of very dark brown (10YR 2/2), yellowish brown (10YR 5/6), and yellowish red (5YR 4/6), from 7.5 to 8 ft bgs and from 8.5 to 8.75 ft bgs
								Brown (7.5YR 5/4), slight odor
10		<2.1	1200	4000	FOR-1550QB-SB/TP53-4-10.0	0.0		
12								Well graded sand (SW), light brownish gray (10YR 6/2), moist, fine to coarse grained, subrounded to angular, appears dense, moderate odor, one very coarse gravel, 1.5" diameter, at 12 ft bgs

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

URS
2625 S. Miller Street, Suite 104
Santa Maria, CA 93455
805-349-7000

Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP53

Date Drilled: 12-2-08	Total Depth Drilled: 35 feet	Logged By: Bonnie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
12								Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine to medium grained, 2 very coarse gravels at 13 ft bgs, trace fine gravel, slight odor
					FOR-1550QB-SB/TP53-5-14.0	0.5		Silt (ML), mottled gray (7.5YR 6/1) and strong brown (7.5YR 4/6), slightly moist, nonplastic, soft to medium consistency, moderate odor
14								Poorly graded sand (SP), dark grayish brown (10YR 4/2), moist, fine to medium grained, trace fine gravel, strong odor. Abrupt color change to light yellowish brown (10YR 6/4) at 14 ft bgs, no odor
		<2.1	3.1J	26J	FOR-1550QB-SB/TP53-6-15.0	0.0		
16								
18								Well graded sand (SW), very pale brown (10YR 7/3), moist, fine to coarse grained, subrounded to subangular, appears medium dense, slight odor
								Silty clay (CL), yellowish brown (10YR 5/4), moist, medium plasticity, appears soft, slight odor
								Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine grained, appears medium dense, slight odor
20		<2.1	51	210	FOR-1550QB-SB/TP53-7-20.0	0.0		
22								Silty sand (SM), yellowish brown (10YR 5/4), moist, fine grained, trace fine gravel, subangular, appears medium dense, no odor
24								

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

URS
2625 S. Miller Street, Suite 104
Santa Maria, CA 93455
805-349-7000

Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP53

Date Drilled: 12-2-08	Total Depth Drilled: 35 feet	Logged By: Bonnie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
24								Poorly graded sand (SP), light yellowish brown (10YR 6/4), fine to medium grained, trace fine gravel, angular, appears medium dense, moist, no odor
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP53-8-25.0	0.0		
26								10% fine gravel
								Very coarse gravel, up to 1" diameter, angular Well graded sand (SW), very pale brown (10YR 7/3), moist, fine to coarse grained, subrounded to subangular, appears dense
28								
								Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine grained, appears dense
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP53-9-30.0	0.0		
30								
32								Well graded sand (SW), very pale brown (10YR 7/3), moist, fine to very coarse sand, subangular to subrounded, appears dense
								Silty clay (CL), yellowish brown (10YR 5/4), moist, medium plasticity, appears stiff
								Silt with very fine sand (ML), yellowish brown (10YR 5/4), moist, low plasticity, appears soft
								Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine grained, appears medium dense
34								Silty clay (CL), yellowish brown (10YR 5/4), moist, medium plasticity, appears stiff
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP53-10-35.0	0.0		Silt with very fine sand (ML), yellowish brown (10YR 5/4), moist, nonplastic, appears stiff
								Boring FOR-1550QB-SB/TP53 terminated at 35 ft bgs at 10:30 on December 2, 2008. Backfilled with bentonite chips.
36								

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

URS
2625 S. Miller Street, Suite 104
Santa Maria, CA 93455
805-349-7000

Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP54

Date Drilled: 12-1-08	Total Depth Drilled: 20 feet	Logged By: Bonnie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								
		5.1J	490	2000	FOR-1550QB-SB/TP54-2-1	0.0		(Upper 5 feet previously excavated, see trench log FOR-1550QB-SB/TP54) Well graded gravel with sand (GW), light brownish gray (10YR 6/2), dry, gravel subangular, medium grained sand, appears medium dense, no odor, asphaltic/concrete clasts (roadbase)
2								Silty sand (SM), dark brown (10YR 3/3), moist, medium grained, appears medium dense, trace gravel, petroleum impregnated clasts close to surface (fill)
4		<2.1	1000	980	FOR-1550QB-SB/TP54-1-5	0.0		Silty sand (SM), yellowish brown (10YR 5/6), moist, medium grained, appears medium dense, trace gravel Silty sand (SM), brown (10YR 4/3), moist, fine to medium grained, appears loose to medium dense, trace fine gravel
6								
8		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP54-3-8.5	0.0		Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine grained, appears loose to medium dense, striations of black (10YR 2/1) and very dark brown (10YR 2/2) within matrix from 8 to 8.5 ft bgs
10		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP54-4-10.0	0.0		
12								Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine grained, appears loose to medium dense, 15% well graded coarse gravel, subrounded
								Sandy silt (ML), yellowish brown (10YR 5/4), moist, slight plasticity, medium consistency
14								Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine to medium grained, appears medium dense
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP54-5-15.0	0.0		
16								

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

URS
2625 S. Miller Street, Suite 104
Santa Maria, CA 93455
805-349-7000

Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP54

Date Drilled: 12-1-08	Total Depth Drilled: 20 feet	Logged By: Bonnie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
16								
18								Silty clay (CL), yellowish brown (10YR 5/4), moist, medium plasticity, appears stiff
20		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP54-6-20.0	0.0		Poor recovery from 20-24 ft bgs
22								Silt with very fine sand (ML), light yellowish brown (10YR 6/4), moist, medium consistency, nonplastic
								Silty clay (CL), yellowish brown (10YR 5/4), moist, medium plasticity, appears stiff
								Silt with very fine sand (ML), light yellowish brown (10YR 6/4), moist, medium consistency, nonplastic
24		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP54-7-25.0	0.0		Silty sand (SM), yellowish brown (10YR 5/4), moist, fine to medium grained, trace fine gravel, appears medium dense
								Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine grained, appears dense
26								Silty clay (CL), yellowish brown (10YR 5/4), moist, medium plasticity, appears stiff
								Silty sand (SM), yellowish brown (10YR 5/4), moist, fine to medium grained, trace fine gravel, appears medium dense
28								Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine grained, appears dense
								Well graded sand (SW), very pale brown (10YR 7/3), moist, fine to coarse grained, 20% well graded fine gravel, subrounded to subangular, appears dense
30		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP54-8-30.0	0.0		Boring FOR-1550QB-SB/TP54 terminated at 30 ft bgs at 12:55 on December 1, 2008. Backfilled with bentonite chips.

Explanation

Sand (SP), Silt, Silty Sand (SM), Clayey Silt, Clayey Sand (SC), Silty Clayey Sand, Red Rock, Roadbase, Bentonite Chips

Sand (SW), Clay, Sandy Silt (ML), Silty Clay, Sandy Clay, Organic Silt, Gravel, Petroleum Impacted

URS
2625 S. Miller Street, Suite 104
Santa Maria, CA 93455
805-349-7000

Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP55

Date Drilled: 12-1-08	Total Depth Drilled: 25 feet	Logged By: Bonnie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated; see trench log FOR-1550QB-SB/TP55) Well graded gravel with sand (GW), gray, dry, gravel subangular, medium grained sand, appears dense, no odor (roadbase)
		<2.1	82	620	FOR-1550QB-SB/TP55-2-1.5	0.0		Silty sand (SM), light brown, dry to moist, medium grained, appears medium dense, scattered petroleum impregnated clasts, trace gravel (fill)
2								Silty sand (SM), dark brown, moist, fine to medium grained, appears medium dense
4		<21	<2.6	8.4J	FOR-1550QB-SB/TP55-1-5.0	0.0		
								Silty sand (SM), yellowish brown (10YR 5/4), moist, fine to medium grained, appears medium dense, slight odor, sheen?
6								
								Poorly graded sand (SP), pale brown (10YR 6/3), moist, fine to medium grained, subrounded to subangular, appears medium dense
8								
10		<2.1	4.9J	<6.9	FOR-1550QB-SB/TP55-3-10.0	0.0		
								Well graded sand (SW), pale brown (10YR 6/3), moist, fine to coarse grained, rounded to subangular, appears medium dense
12								

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

URS
2625 S. Miller Street, Suite 104
Santa Maria, CA 93455
805-349-7000

Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP55

Date Drilled: 12-1-08	Total Depth Drilled: 25 feet	Logged By: Bonnie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
14								Silty clay (CL), yellowish brown (10YR 5/4), moist, medium plasticity, appears medium to stiff, one large subrounded gravel, 1" diameter
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP55-4-15.0	0.0		Well graded sand (SW), pale brown (10YR 6/3), moist, fine to coarse grained, rounded to subangular, appears medium dense
16								Poorly graded sand (SP), pale brown (10YR 6/3), moist, fine to medium grained, subrounded to subangular, appears medium dense
								Silt (ML), yellowish brown (10YR 5/4), slightly moist, nonplastic, medium consistency
18								Well graded sand (SW), very pale brown (10YR 7/3), moist, fine to coarse, rounded to subangular, appears dense
								Silty clay (CL), yellowish brown (10YR 5/4), moist, medium plasticity, appears stiff
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP55-5-20.0	0.0		Soft to medium consistency
20								Unknown, poor recovery
22								Silt with very fine sand (ML), light yellowish brown (10YR 6/4), moist, nonplastic, medium consistency
								Silty clay (CL), yellowish brown (10YR 5/4), moist, medium plasticity, soft to medium consistency
								Silt with very fine sand (ML), yellowish brown (10YR 5/4), moist, nonplastic, appears stiff
24								Well graded sand with silt (SW/SM), yellowish brown (10YR 5/4), moist, fine to coarse sand, trace fine gravel, appears medium dense
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP55-6-25.0	0.0		Boring FOR-1550QB-SB/TP55 terminated at 25 feet bgs at 10:30 on December 1, 2008. Backfilled with bentonite chips.
26								

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

URS
2625 S. Miller Street, Suite 104
Santa Maria, CA 93455
805-349-7000

Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP56

Date Drilled: 12-1-08	Total Depth Drilled: 25 feet	Logged By: Bonnie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								
		<2.1	170000	94000	FOR-1550QB-SB/TP56-1-1	0.0		(Upper 5 feet previously excavated, see trench log FOR-1550QB-SB/TP56) Well graded gravel with sand (GW), light brownish gray (10YR 6/2), dry, gravel subangular, medium grained sand, appears dense, no odor (roadbase)
								Intact petroleum impregnated sand, black (10YR 2/1), appears dense, slight odor
								Silty sand (SM), yellowish brown (10YR 5/6), moist, medium grained, appears medium dense, no odor
2								
4		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP56-2-5	0.0		
								Silty sand (SM), light yellowish brown (10YR 6/4), moist, fine to medium grained, trace fine rounded gravel, appears dense
6								
								Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine to medium grained, rounded to subangular, appears dense
8								
								Well graded sand (SW), pale brown (10YR 6/3), moist, fine to coarse grained, subrounded to subangular, appears dense
10		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP56-3-10.0	0.0		
12								Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine grained, appears medium dense

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

URS
2625 S. Miller Street, Suite 104
Santa Maria, CA 93455
805-349-7000

Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP56

Date Drilled: 12-1-08	Total Depth Drilled: 25 feet	Logged By: Bonnie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
14								Well graded sand with gravel (SW), pale brown (10YR 6/3), moist, fine to coarse grained, subrounded to subangular, 30% very coarse gravel, subrounded to subangular, up to 2" diameter, appears dense
								Silty clay (CL), yellowish brown (10YR 5/4), moist, medium plasticity, medium consistency
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP56-4-15.0	0.0		Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine grained, appears medium dense
								Silty clay (CL), yellowish brown (10YR 5/4), moist, medium plasticity, medium consistency
16								Silt with very fine sand (ML), yellowish brown (10YR 5/4), moist, nonplastic, appears medium to stiff
								Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine grained, appears medium dense
18								Well graded sand (SW), very pale brown (10YR 7/3), moist, trace coarse rounded gravel, appears dense
								Silty clay (CL), yellowish brown (10YR 5/4), moist, medium plasticity, medium consistency
20		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP56-5-20.0	0.0		Silty sand (SM), yellowish brown (10YR 5/4), moist, fine grained, appears medium dense
								Poor recovery from 20 to 22 ft bgs
22								Silty sand (SM), very pale brown (10YR 7/3), moist, fine grained, appears medium dense Color change to yellowish brown (10YR 5/4), grades to fine to medium grained
24		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP56-6-25.0	0.0		Trace fine gravels, fine grained
								Boring FOR-1550QB-SB/TP56 at 25 ft bgs at 14:30 on December 1, 2008. Backfilled with bentonite chips.
26								

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

URS
2625 S. Miller Street, Suite 104
Santa Maria, CA 93455
805-349-7000

Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP57

Date Drilled: 12-2-08	Total Depth Drilled: 25 feet	Logged By: Bonnie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								
		<2.1	200	760	FOR-1550QB-SB/TP57-2-1	0.0		(Upper 5 feet previously excavated, see trench log FOR-1550QB-SB/TP57) Well graded gravel with sand (GW), light brownish gray (10YR 6/2), gravel subangular, medium grained sand, appears dense, no odor (roadbase)
								Intact petroleum impregnated sand, black (10YR 2/1), dry, brittle
								Silty sand (SM), yellowish brown (10YR 5/6), moist, medium grained, appears medium dense, trace gravel (fill)
2								
4		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP57-1-5	0.0		
								Silty sand (SM), yellowish brown (10YR 5/4), moist, fine to medium grained, angular to subrounded, appears medium dense 1" layer of rock (sedimentary)
6								
								Medium grained, trace coarse gravel, subangular
8								
								Trace fine gravel, subangular
								Well graded sand (SW), very pale brown (10YR 7/3), moist, fine to coarse grained, subrounded to angular, trace coarse gravel, subangular, appears dense, trace silt
10		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP57-3-10.0	0.0		
12								1" nodule of silty clay (CL) within matrix, yellowish brown (10YR 5/4), moist, medium plasticity, appears stiff

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

URS
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Santa Maria, CA 93455
805-349-7000

Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP57

Date Drilled: 12-2-08	Total Depth Drilled: 25 feet	Logged By: Bonnie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
14								10% coarse gravel, angular to subrounded, up to 1.5" diameter
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP57-4-15.0	0.0		Silty clay (CL), yellowish brown (10YR 5/4), moist, low plasticity, medium consistency
								Poor recovery
16								
								Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine to medium grained, subrounded to angular, appears dense
18								Well graded sand (SW), very pale brown (10YR 7/4), moist, fine to coarse grained, subrounded to angular, appears dense
								Silt (ML), yellowish brown (10YR 5/4), moist, low plasticity, appears stiff
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP57-5-20.0	0.0		Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine grained, appears medium dense
20								
22								Silt with very fine sand (ML), yellowish brown (10YR 5/4), moist, nonplastic, appears stiff
								Silty sand (SM), yellowish brown (10YR 5/4), moist, fine to medium grained, appears medium dense
								Silty clay (CL), yellowish brown (10YR 5/4), moist, low plasticity, medium consistency
24								Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine grained, appears medium dense
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP57-6-25.0	0.0		
								Boring FOR-1550QB-SB/TP57 terminated at 25 ft bgs at 08:05 on December 2, 2008. Backfilled with bentonite chips.
26								

Explanation

Sand (SP), Silt, Silty Sand (SM), Clayey Silt, Clayey Sand (SC), Silty Clayey Sand, Red Rock, Roadbase, Bentonite Chips

Sand (SW), Clay, Sandy Silt (ML), Silty Clay, Sandy Clay, Organic Silt, Gravel, Petroleum Impacted

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805-349-7000

Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP58

Date Drilled: 12-1-08	Total Depth Drilled: 20 feet	Logged By: Bonnie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated, see trench log FOR-1550QB-SB/TP58) Well graded gravel with sand (GW), gray, gravel subangular, medium grained sand, appears dense, no odor (roadbase)
2								Silty sand (SM), dark brown, moist, fine to medium grained, appears medium dense, trace gravel, no odor (fill)
4	■	<21	<2.6	9.4J	FOR-1550QB-SB/TP58-1-5	0.0		
6								Silty sand (SM), yellowish brown (10YR 5/4), moist, fine to medium grained, appears loose to medium dense
8								Poorly graded sand (SP), very pale brown (10YR 7/3), moist, fine to medium grained, rounded to subangular, trace well graded gravel, fine to coarse, subrounded, appears medium dense
10	■	<2.1	<2.6	<6.9	FOR-1550QB-SB/TP58-2-10.0	0.0		Silty sand (SM), light yellowish brown (10YR 6/4), moist, fine grained, appears medium dense Poorly graded sand (SP), very pale brown (10YR 7/3), moist, fine to medium grained, rounded to subangular, trace well graded gravel, fine to coarse, subrounded, appears medium dense
12								Well graded sand (SW), very pale brown (10YR 7/3), moist, fine to coarse sand, rounded to angular, 15% well graded gravel, fine to coarse, subrounded to subangular, appears medium dense
14	■	<2.1	<2.6	<6.9	FOR-1550QB-SB/TP58-3-15.0	0.0		Gravelly silt (ML), 30% very coarse gravel, well graded, subangular, grades to very fine sandy silt, no gravel Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine grained, appears dense
16								
18								Silty clay (CL), yellowish brown (10YR 5/4), moist, medium plasticity, appears medium to stiff Soft consistency Appears medium to stiff
20	■	<2.1	<2.6	<6.9	FOR-1550QB-SB/TP58-4-20.0	0.0		Silt with very fine sand (ML), light yellowish brown (10YR 6/4), moist, nonplastic, medium consistency Boring FOR-1550QB-SB/TP58 terminated at 20 feet bgs at 09:35 on December 1, 2008. Backfilled with bentonite chips.

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

URS
2625 S. Miller Street, Suite 104
Santa Maria, CA 93455
805-349-7000

Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP59

Date Drilled: 12-1-08	Total Depth Drilled: 25 feet	Logged By: Bonnie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0		27	13000	33000	FOR-1550QB-SB/TP59-1-0.5	0.0		(Upper 5 feet previously excavated, see trench log FOR-1550QB-SB/TP59) Well graded gravel with sand (GW), gray, dry, gravel subangular, medium grained sand, appears very dense, slight odor (roadbase)
2								Intact petroleum impregnated sand, black (10YR 2/1), pliable, moderate odor
								Silty sand (SM), light to dark brown, dry to slightly moist, medium grained, appears medium dense, trace gravel, no odor (fill)
4								Silty sand (SM), light brown, moist, fine grained, appears medium dense, no odor
		<2.1	<2.6	24J	FOR-1550QB-SB/TP59-2-5.0	0.0		
6								Silty sand (SM), yellowish brown (10YR 5/4), moist, fine to medium grained, appears medium dense
8								Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine grained, subangular to subrounded, appears medium dense
								Fine to medium grained
10		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP59-3-10.0	0.0		
12								Well graded sand (SW), very pale brown (10YR 7/3), moist, fine to coarse grained, rounded to angular, appears medium dense
14								25% very coarse gravel, subrounded to angular, 75% well graded sand
								Very fine sandy silt (ML), yellowish brown (10YR 5/4), moist, nonplastic, appears medium to stiff
16		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP59-4-15.0	0.0		Poorly graded sand (SP), very pale brown, (10YR 7/4), moist, fine to medium grained, rounded to subangular, appears medium dense
18								Well graded sand (SW), very pale brown (10YR 7/3), moist, fine to coarse grained, rounded to angular, appears medium dense
								Silty clay (CL), yellowish brown (10YR 5/4), moist, medium plasticity, appears stiff
20		<2.1	2.8J	<6.9	FOR-1550QB-SB/TP59-5-20.0	0.0		Consistency becomes moist
22								Silty sand (SM), yellowish brown (10YR 5/4), moist, fine to medium grained, appears medium dense
								Silt with very fine sand (ML), yellowish brown (10YR 5/4), moist, nonplastic, appears stiff
24								Well graded sand with silt (SW-SM), very pale brown (10YR 7/3), moist, fine to coarse grained, subrounded to subangular, appears dense
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP59-6-25.0	0.0		
26								Boring FOR-1550QB/TP59 terminated at 25 feet bgs at 08:35 on December 1, 2008. Backfilled with bentonite chips.

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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Santa Maria, CA 93455
805-349-7000

Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP60

Date Drilled: 12-2-08	Total Depth Drilled: 20 feet	Logged By: Bonnie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated, see trench log FOR-1550QB-SB/TP60) Well graded gravel with sand (GW), light brownish gray (10YR 6/2), gravel subangular, medium grained sand, appears dense, no odor (roadbase)
2								Silty sand (SM), dark yellowish brown (10YR 3/6), moist, medium grained, appears medium dense, trace gravel (fill)
4								Silty sand (SM), dark yellowish brown (10YR 4/6), moist, medium grained, appears medium dense (fill)
4	■	<2.1	<2.6	<6.9	FOR-1550QB-SB/TP60-1-5	0.0		Silty sand (SM), dark yellowish brown (10YR 4/4), moist, fine to medium grained, rounded to subangular, appears loose to medium dense
6								Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, medium grained, rounded to subangular, appears medium dense
8								Well graded gravel (GW), very coarse, up to 1.5" diameter
8								Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, medium grained, rounded to subangular, appears medium dense
10	■	<2.1	<2.6	<6.9	FOR-1550QB-SB/TP60-2-10.0	0.0		Well graded sand (SW), very pale brown (10YR 7/3), moist, fine to coarse grained, subrounded to subangular, 10% well graded gravel, fine to coarse, rounded to subangular, appears loose to medium dense
12								Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine grained, rounded, appears dense
12								10% well graded fine gravel, medium grained sand
14								Fine grained, trace silt
14	■	<2.1	<2.6	<6.9	FOR-1550QB-SB/TP60-3-15.0	0.0		
16								Silty sand (SM), light yellowish brown (10YR 5/4), moist, fine to medium grained, trace well graded fine gravel, rounded to subangular, appears medium dense
18								Well graded sand (SW), very pale brown (10YR 7/3), moist, fine to coarse grained, 20% well graded fine to coarse gravel, subangular to subrounded, appears medium dense
18								Very fine silty sand (ML), light yellowish brown (10YR 5/4), non-plastic, medium to stiff, moist
20								Silty sand (SM), very pale brown (10YR 7/4), moist, very fine sand, appears loose to medium dense
20	■	<2.1	<2.6	<6.9	FOR-1550QB-SB/TP60-4-20.0	0.0		Boring FOR-1550QB-SB/TP60 terminated at 20 ft bgs at 14:50 on December 2, 2008. Backfilled with bentonite chips.

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

URS
2625 S. Miller Street, Suite 104
Santa Maria, CA 93455
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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP61

Date Drilled: 12-3-08	Total Depth Drilled: 25 feet	Logged By: Bonnie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated, see trench log FOR-1550QB-SB/TP61) Well graded gravel with sand (GW), light brownish gray (10YR 6/2), dry, gravel subangular, medium grained sand, appears dense, no odor (roadbase)
2								Silty sand (SM), dark yellowish brown (10YR 3/6), medium grained, appears medium dense, trace gravel, slight odor (fill)
4	■	<2.1	<2.6	<6.9	FOR-1550QB-SB/TP61-1-5.0	0.0		Silty sand (SM), dark yellowish brown (10YR 4/4), medium grained, appears medium dense, no odor (fill)
6								Silty sand (SM), yellowish brown (10YR 5/4), moist, fine to medium grained, appears loose to medium dense, no odor (fill)
8								Well graded sand (SW), light yellowish brown (10YR 6/4), moist, fine to coarse grained, subrounded to subangular, trace medium to coarse gravel, subrounded, appears medium dense
10	■	<2.1	<2.6	<6.9	FOR-1550QB-SB/TP61-2-10.0	0.0		Trace fine gravel, no medium to coarse gravel
12								Poorly graded sand (SP), very pale brown (10YR 7/4), moist, fine grained, subrounded to subangular, appears medium dense
14	■	<2.1	<2.6	<6.9	FOR-1550QB-SB/TP61-3-15.0	0.0		
16								Silty sand (SM), light yellowish brown (10YR 6/4), moist, fine to medium grained, appears medium dense
18								Well graded sand (SW), very pale brown (10YR 7/3), moist, fine to coarse grained, subrounded to subangular, 30% well graded gravel, medium to coarse, subrounded, appears medium dense
20	■	<2.1	<2.6	<6.9	FOR-1550QB-SB/TP61-4-20.0	0.0		Silt with very fine sand (ML), yellowish brown (10YR 5/4), wet, low plasticity, appears soft
								Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, very fine grained, trace silt, appears medium dense
22								Silt with very fine sand (ML), yellowish brown (10YR 5/4), moist, low plasticity, medium consistency
24								Silty sand (SM), yellowish brown (10YR 5/4), moist, fine to medium grained, trace coarse gravel, subrounded, appears medium dense
	■	<2.1	<2.6	<6.9	FOR-1550QB-SB/TP61-5-25.0	0.0		Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, very fine grained, appears medium dense
26								Silt with very fine sand (ML), yellowish brown (10YR 5/4), moist, nonplastic, appears stiff
								Silty sand (SM), yellowish brown (10YR 5/4), moist, fine to medium grained, appears dense
28								Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine grained, appears medium dense
30								Boring FOR-1550QB-SB/TP61 terminated at 25 ft. bgs at 08:35 on December 3, 2008. Backfilled with bentonite chips.

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

URS
2625 S. Miller Street, Suite 104
Santa Maria, CA 93455
805-349-7000

Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP62

Date Drilled: 12-3-08	Total Depth Drilled: 20 feet	Logged By: Bonnie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated, see trench log FOR-1550QB-SB/TP62) Well graded gravel with sand (GW), light brownish gray (10YR 6/2), dry, gravel subangular, medium grained sand, appears dense, no odor (roadbase)
2								Silty sand (SM), dark yellowish brown (10YR 3/6), moist, fine to medium grained, appears medium dense (fill)
4								Silty sand (SM), dark yellowish brown (10YR 4/4), moist, medium grained, trace gravel, appears medium dense, no odor (fill)
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP62-1-5	0.0		
6								Poorly graded sand (SP), yellowish brown (10YR 5/4), moist, fine to medium grained, rounded to subrounded, appears loose to medium dense Trace well graded gravel, fine to coarse, rounded to subangular Light yellowish brown (10YR 6/4), trace fine gravel, no coarse
8								
10		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP62-2-10.0	0.0		
12								Silty sand (SM), yellowish brown (10YR 5/4), moist, fine to medium grainded, subrounded to subangular, appears medium dense, trace fine to medium gravel, subrounded 1" layer of well graded gravel (GW), angular, 0.5" to 1" diameter Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine to medium grained, subrounded, appears loose to medium dense
14		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP62-3-15.0	0.0		Very fine grained, appears medium dense
16								Silty sand (SM), yellowish brown (10YR 5/4), moist, fine to medium grained, 20% well graded gravel, medium to coarse, subrounded, appears medium dense Gravel content increased to 40%
18								Well graded sand (SW), very pale brown (10YR 7/4), moist, fine to coarse grained, rounded to subangular, 25% well graded gravel, fine to very coarse, subrounded to subangular, appears medium dense
20		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP62-4-20.0	0.0		Very fine sandy silt (ML), yellowish bronw (10YR 5/4), wet, nonplastic, soft to medium consistency Silty sand (SM), light yellowish brown (10YR 6/4), moist, very fine grained, appears medium dense Boring FOR-1550QB-SB/TP62 terminated at 20 ft. bgs at 09:50 on December 3, 2008. Backfilled with bentonite chips.
22								

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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805-349-7000

Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP63

Date Drilled: 12-3-08	Total Depth Drilled: 20 feet	Logged By: Bonnie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated, see trench log FOR-1550QB-SB/TP63) Well graded gravel with sand (GW), light brownish gray (10YR 6/2), dry, gravel subangular, medium grained sand, appears dense, no odor (roadbase)
2								Silty sand (SM), dark yellowish brown (10YR 3/6), moist, fine to medium grained, trace gravel, appears medium dense, no odor (fill) Silty sand (SM), dark yellowish brown (10YR 4/4), moist, medium grained, appears medium dense, no odor (fill)
4		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP63-1-5.0	0.0		
6								Poorly graded sand (SP), yellowish brown (10YR 5/4), moist, fine to medium grained, rounded to subangular, trace silt, appears loose to medium dense One piece of chert, 1" x 0.5", angular, trace fine gravel, subrounded
8								One very coarse gravel, 1" x 0.5"
10		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP63-2-10.0	0.0		Light yellowish brown (10YR 6/4), medium grained, no gravel Fine to medium grained
12								1/2" layer of silt (ML), yellowish brown (10YR 5/4) Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine to medium grained, appears medium dense
14		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP63-3-15.0	0.0		2" layer of silty clay (CL) with coarse sand, yellowish brown (10YR 5/4), moist, medium plasticity, appears stiff Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine to medium grained, appears medium dense
16								
18								2" layer of of silt with very fine sand (ML), yellowish brown (10YR 5/4), moist, nonplastic, medium consistency Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine to medium grained, appears medium dense
20		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP63-4-20.0	0.0		2" layer of silty clay (CL) with coarse sand, yellowish brown (10YR 5/4), moist, medium plasticity, appears stiff Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine to medium grained, appears medium dense
22								Silt with very fine sand (ML), yellowish brown (10YR 5/4), nonplastic, medium to stiff, very moist
24								Boring FOR-1550QB-SB/TP63 terminated at 20 ft. bgs at 10:40 on December 3, 2008. Backfilled with bentonite chips.

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

URS
2625 S. Miller Street, Suite 104
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805-349-7000

Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB64

Dates Drilled: 12-01-08	Total Depth Drilled: 30 feet	Logged By: Natalie Williams
Drilling Contractor: S&G Drilling	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Hand augered upper 5 feet) Silty sand with trace gravel, black (10YR 1/1), slightly moist, fine to medium grained, appears medium dense, ~1% subrounded gravel up to 1 cm in diameter, hard, brittle layer at surface ~2 " thick (fill)
2								Oil impregnated ~1.5 feet bgs, strong hydrocarbon odor
4								Bent nail found at 3.0 ft bgs (3 in in length)
4	■	<2.1	7900	6300	FOR-1550QB-SB64-1-5.0	0.0		
6								
8								Bluish-gray (GLEY2 5PB 5/1)
10	■	<2.1	<2.6	<6.9	FOR-1550QB-SB64-2-10.0	0.0		Silty sand (SM), dark yellowish brown (10YR 4/6), slightly moist, fine grained, appears medium dense
12								Silt with sand (ML), dark yellowish brown (10YR 4/6), appears medium dense, non-plastic, very fine grained, slightly moist
12								Silty sand with trace gravel (SM), yellowish brown (10YR 5/6), slightly moist, fine grained, appears medium dense, ~1% trace gravel up to 1 cm in diameter, gravel is subrounded (native)
14								Fine to medium grained
14	■	<2.1	7.4J	<6.9	FOR-1550QB-SB64-3-15.0	0.0		
16								Well graded sand (SW), yellowish brown (10YR 5/6), slightly moist, appears medium dense, ~3% trace gravel up to 1 cm in diameter, gravel is subrounded
18								
20	■	<2.1	6.5J	<6.9	FOR-1550QB-SB64-4-20.0	0.0		Silty sand (SM), yellowish brown (10YR 5/6), slightly moist, fine grained, homogeneous, appears medium dense
22								Fine to medium grained
24	■	<2.1	5.4J	<6.9	FOR-1550QB-SB64-5-25.0	0.0		
26								
28								Well graded sand (SW), yellowish brown (10YR 5/6), slightly moist, appears medium dense, ~5% subrounded trace gravel up to 2 cm in diameter
30	■	<2.1	<2.6	<6.9	FOR-1550QB-SB64-6-30.0	0.0		Boring FOR-1550QB-SB64 terminated at 30 feet bgs at 14:10 on December 1, 2008 and backfilled with bentonite chips
32								

Explanation

Sand (SP) · Silt · Silty Sand (SM) · Clayey Silt · Clayey Sand (SC) · Silty Clayey Sand · Red Rock · Roadbase · Bentonite Chips

Sand (SW) · Clay · Sandy Silt (ML) · Silty Clay · Sandy Clay · Organic Silt · Gravel · Petroleum Impacted

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Santa Maria, CA 93455
805-349-7000

Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB65

Dates Drilled: 12-01-08	Total Depth Drilled: 30 feet	Logged By: Natalie Williams
Drilling Contractor: S&G Drilling	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Hand augered upper 5 feet) Silty sand with trace gravel (SM), black (10YR 1/1), slightly moist, fine to medium grained, top 6 inches hard, brittle, appears dense. At ~6 inches bgs becomes oil impregnated, appears medium dense, not hard or brittle, strong hydrocarbon odor, scattered vitrified clasts up to 1 cm in diameter
4		2600	6100	4700	FOR-1550QB-SB65-1-5.0	0.0		
6								No gravel
10		640	3100	3200	FOR-1550QB-SB65-2-10.0	0.0		Becomes bluish grey (GLEY2 5PB 5/1)
12								Silty sand (SM), dark yellowish brown (10YR 4/6), slightly moist, fine to medium grained, appears medium dense. At ~105 ft bgs: Fine grained sand with ~1% trace subrounded gravel up to 1 cm in diameter
14		<2.1	<2.6	<6.9	FOR-1550QB-SB65-3-15.0	0.0		Well graded sand (SW), yellowish brown (10YR 5/6), slightly moist, appears medium dense, ~3% gravel subrounded up to 2 cm in diameter
18								~1% gravel up to 1 cm in diameter
20		<2.1	<2.6	<6.9	FOR-1550QB-SB65-4-20.0	0.0		Poor recovery between 20 ft and 24.5 ft due to inability to remove intact sample sleeve from casing
24		<2.1	<2.6	<6.9	FOR-1550QB-SB65-5-25.0	0.0		~5% gravel up to 2.5 cm diameter, gravel is subrounded
30		<2.1	<2.6	<6.9	FOR-1550QB-SB65-6-30.0	0.0		Boring FOR-1550QB-SB65 terminated at 30 feet bgs at 15:35 on December 1, 2008 and backfilled with bentonite chips
32								

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB66

Dates Drilled: 12-02-08	Total Depth Drilled: 30 feet	Logged By: Natalie Williams
Drilling Contractor: S&G Drilling	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Hand augered upper 5 feet) Silty sand with trace gravel (SM), dark brown (10YR 3/3); slightly moist; fine to medium grained; appears medium dense; gravel subangular up to 2.5 cm in diameter (fill)
2								At ~ 6 inches bgs: Hard, brittle, black (10YR 1/1) At ~ 8 inches bgs: Appears medium dense, dark brown (10YR 3/3); no gravel At ~ 2 ft bgs: Black (10YR 1/1); strong hydrocarbon odor
4								
4		300	5900	7600	FOR-1550QB-SB66-1-5.0	0.0		
6								
8								~ 1% gravel up to 1 cm diameter; gravel subrounded
8								At ~ 8.75 ft bgs: Bluish -gray (GLEY2 10B 5/1)
10		2400	1200	2800	FOR-1550QB-SB66-2-10.0	0.0		
10								Lean clay with sand (CL); dark yellowish-brown (10YR 4/4); slightly moist; low plasticity; appears medium stiff
12								Silty sand (SM); yellowish-brown (10YR 5/6); slightly moist; fine-grained; apppears medium dense (native)
14								Fine to medium-grained; ~ 20% fines
14		<2.1	<2.6	<6.9	FOR-1550QB-SB66-3-15.0	0.0		
16								Well-graded sand (SW); yellowish-brown (10YR 5/6); slightly moist; appears medium-dense; ~ 5% gravel up to 2.5 cm in diameter; gravel subrounded
18								
20		<2.1	<2.6	<6.9	FOR-1550QB-SB66-4-20.0	0.0		
20								Silt with sand (ML); dark yellowish-brown (10YR 4/6); slightly moist; appears medium-stiff; non-plastic; very fine grained
22								
24								Lean clay (CL); dark yellowish-brown (10YR 4/4); slightly moist; medium plasticity; appears medium stiff
24		<2.1	<2.6	<6.9	FOR-1550QB-SB66-5-25.0	0.0		
26								Silt with sand (ML); yellowish-brown (10YR 5/6); slightly moist; appears medium stiff; non-plastic
26								Silty sand (SM); yellowish-brown (10YR 5/6); slightly moist; fine-grained; appears medium-dense
28								At ~ 27 ft bgs: Fine to medium-grained sand; ~ 15% fines
30		<2.1	<2.6	<6.9	FOR-1550QB-SB66-6-30.0	0.0		
30								Boring FOR-1550QB-SB66 terminated at 30 feet bgs at 8:55 on December 2, 2008 and backfilled with bentonite chips
32								

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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Santa Maria, CA 93455
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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB67

Dates Drilled: 12-02-08	Total Depth Drilled: 30 feet	Logged By: Natalie Williams
Drilling Contractor: S&G Drilling	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
								(Hand augered upper 5 feet; refusal at ~ 3 feet bgs due to hard oily substance like roofing tar; step out two feet west to complete boring)
0								Silty sand with trace gravel (SM); black (10YR 1/1); slightly moist; medium to fine-grained; hard; brittle; appears dense; ~5% trace gravel up to 8.5 cm diameter (fill) At ~ 2 inches bgs begins to appear medium dense; dark brown (10YR 3/3) At ~ 1 foot bgs becomes black (10YR 1/1); oil-impregnated sand with strong hydrocarbon odor
4		<2.1	75	1100	FOR-1550QB-SB67-1-5.0	0.0		Mottled oil impregnated and non-oil impregnated sand
6								Silty sand (SM), yellowish-brown (10YR 5/6); slightly moist, fine grained, appears medium dense, no odor
8								Fine to medium-grained; ~15% fines
10		<2.1	<2.6	<6.9	FOR-1550QB-SB67-2-10.0	0.0		
12								Lean clay with sand (CL); dark yellowish-brown (10YR 4/4); slightly moist; appears medium-stiff; low plasticity (native)
14		<2.1	<2.6	<6.9	FOR-1550QB-SB67-3-15.0	0.0		Gravelly lean clay with sand (CL); dark yellowish-brown (10YR 4/6); slightly moist; appears medium-stiff; low plasticity; ~ 35% subangular gravel up to 3 cm diameter; ~ 20% fine to medium-grained sand
16								Well-graded sand (SW); yellowish-brown (10YR 5/6); slightly moist; appears medium dense; ~ 5% gravel up to 1.5 cm in diameter; gravel subrounded
18								
20		<2.1	<2.6	<6.9	FOR-1550QB-SB67-4-20.0	0.0		Silty sand (SM); yellowish-brown (10YR 5/6); slightly moist; fine to medium-grained; appears medium dense
22								Begins to contain trace gravel up to 1 cm in diameter; ~ 1% subrounded gravel
24		<2.1	<2.6	<6.9	FOR-1550QB-SB67-5-25.0	0.0		
26								Fine-grained silty sand with no trace gravels
28								Fine to medium-grained; ~1% subrounded gravel up to 1 cm in diameter
30		<2.1	<2.6	<6.9	FOR-1550QB-SB67-6-30.0	0.0		Boring FOR-1550QB-SB67 terminated at 30 feet bgs at 14:40 on December 2, 2008 and backfilled with bentonite chips
32								

Explanation

Sand (SP) · Silt · Silty Sand (SM) · Clayey Silt · Clayey Sand (SC) · Silty Clayey Sand · Red Rock · Roadbase · Bentonite Chips

Sand (SW) · Clay · Sandy Silt (ML) · Silty Clay · Sandy Clay · Organic Silt · Gravel · Petroleum Impacted

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Santa Maria, CA 93455
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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB68

Date Drilled: 12-02-08	Total Depth Drilled: 20 feet	Logged By: Natalie Williams
Drilling Contractor: S&G Drilling	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, P.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Hand augered upper 5 feet) Silty sand with trace gravel (SM); black (10YR 1/1); slightly moist; fine to medium grained; appears dense; brittle; hard (fill) At ~ 2 inches bgs no longer hard, brittle; appears medium-dense; oil impregnated; medium hydrocarbon odor
4		12	990	5900	FOR-1550QB-SB68-1-5.0	0.0		
8								At ~ 7.5 feet bgs becomes hard, pliable (similar to roofing tar)
10		76	18000	58000	FOR-1550QB-SB68-2-10.0	0.0		
12								At ~ 11 ft bgs: Dark brown (10YR 3/3); appears medium-dense (not pliable); fine-grained; slight hydrocarbon odor
14		<2.1	630	950	FOR-1550QB-SB68-3-15.0	0.0		
16								Silty sand (SM), dark yellowish-brown (10YR 4/4); slightly moist, fine grained, appears medium dense, no odor
18								
20		<2.1	1200	2300	FOR-1550QB-SB68-4-20.0	0.0		Boring FOR-1550QB-SB68 terminated at 20 feet bgs at 15:30 on December 2, 2008 due to refusal and backfilled with bentonite chips

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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2625 S. Miller Street, Suite 104
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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP69

Dates Drilled: 12-8-08	Total Depth Drilled: 15 feet	Logged By: Natalie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated; see trench log FOR-1550QB-SB/TP69) Silty sand (SM), brown (10YR 4/3), medium grained; appears medium dense, trace gravel, no odor
								Well graded gravelly sand (GW), grayish brown (10YR 5/2), subangular, appears dense, medium grained, no odor (roadbase)
2								Silty sand (SM), dark yellowish brown (10YR 4/4), medium grained, appears medium dense, trace gravel, subangular, no odor
4								
		<3.0	<2.6	<6.9	FOR-1550QB-SB/TP69-1-5.0	0.0		
6								Silty sand with trace gravel (SM); yellowish brown (10YR 5/6); slightly moist; fine to medium grained; appears medium dense; subrounded grains; ~1% subrounded gravel up to ~ 1 cm diameter; 20% fines (native)
8								Lean clay (CL); dark yellowish-brown (10YR 4/4); slightly moist; appears medium stiff; low plasticity
								Silty sand (SM); yellowish brown (10YR 5/6); slightly moist; fine-grained; appears medium dense; subrounded grains; ~20% fines
10		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP69-2-10.0	0.0		
12								Fine to medium grained; ~15% fines
14								
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP69-3-15.0	0.0		
16								Boring FOR-1550QB-SB/TP69 terminated at 15 feet bgs at 10:05 on December 8, 2008 and backfilled with bentonite chips

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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Santa Maria, CA 93455
805-349-7000

Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP70

Date Drilled: 12-8-08	Total Depth Drilled: 15 feet	Logged By: Bonnie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated, see trench log FOR-1550QB-SB/TP70) Silty sand (SM), dark yellowish brown (10YR 4/4), moist, medium grained, appears medium dense, trace gravel, no odor (roadbase/fill) Dark yellowish brown (10YR 3/6), fine to medium grained, no odor (native, possibly fill)
4		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP70-1-5	0.0		
6								Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine to medium grained, rounded to subrounded, appears loose to medium dense
8								
10		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP70-2-10.0	0.0		Silty with very fine sand (ML), yellowish brown (10YR 5/4), moist, nonplastic, appears medium to stiff Well graded sand (SW), very pale brown (10YR 7/3), moist, fine to coarse grained, rounded to subangular, appears medium dense Poor recovery from 10 to 11.5 feet bgs
12								Poorly graded sand (SP), very pale brown (10YR 7/3), moist, fine grained, trace medium grained, rounded, appears medium dense Grades to well graded sand (SW), very pale brown (10YR 7/3), moist, fine to coarse grained, rounded to subangular, appears medium dense Silty clay (CL), yellowish brown (10YR 5/4), moist, medium plasticity, appears stiff
14		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP70-3-15.0	0.0		Well graded sand (SW), very pale brown (10YR 7/3), moist, fine to coarse grained, rounded to subangular, appears medium dense Silty clay (CL), yellowish brown (10YR 5/4), moist, medium plasticity, appears stiff Well graded sand (SW), very pale brown (10YR 7/3), moist, fine to coarse grained, rounded to subangular, appears medium dense
16								Poorly graded sand (SP), very pale brown (10YR 7/3), moist, fine grained, trace medium grained, rounded, appears medium dense Boring FOR-1550QB-SB/TP70 terminated at 15 feet bgs at 10:20 on December 8, 2008. Backfilled with bentonite chips.
18								

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

URS
2625 S. Miller Street, Suite 104
Santa Maria, CA 93455
805-349-7000

Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP71

Date Drilled: 12-8-08	Total Depth Drilled: 15 feet	Logged By: Bonnie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated, see trench log FOR-1550QB-SB/TP71) Well graded gravel with sand (GW), dark grayish brown (10YR 4/2), moist, gravel subangular, 0.25" to 1.25" diameter, medium grained, appears dense, no odor (roadbase)
2								Silty sand (SM), dark yellowish brown (10YR 3/4), moist, medium grained, appears medium dense, trace gravel, no odor (fill) Silty sand (SM), dark yellowish brown (10YR 4/4), moist, fine to medium grained, appears medium dense, trace gravel, no odor (fill)
4		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP71-1-5	0.0		
6								Poorly graded sand (SP), light yellowish brown (10YR 6/4), fine grained, trace medium rounded to subrounded, appears medium dense, moist
								Well graded sand (SW), very pale brown (10YR 7/3), fine to coarse grained, rounded to subangular, 10% well graded gravel, fine to medium, subrounded, appears medium dense, moist
8								Poorly graded sand (SP), light yellowish brown (10YR 6/4), fine grained, trace medium rounded to subrounded, appears medium dense, moist
								Silt with very fine sand (ML), yellowish brown (10YR 5/4), non-plastic, appears stiff, moist
								Silty clay (CL), yellowish brown (10YR 5/4), medium plasticity, appears stiff, moist
10		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP71-2-10.0	0.0		Silty with very fine sand (ML), yellowish brown (10YR 5/4), non-plastic, appears stiff, moist
								Silty clay (CL), yellowish brown (10YR 5/4), medium plasticity, appears stiff, moist
								Silty sand (SM), light yellowish brown (10YR 6/4), fine grained, appears medium dense, moist
12								Poorly graded sand (SP), very pale brown (10YR 7/3), fine to medium grained, rounded to subangular, appears medium dense, moist
								Silty clay (CL), yellowish brown (10YR 5/4), medium plasticity, appears stiff, moist
14								Silty sand (SM), light yellowish brown (10YR 5/4), fine grained, trace fine gravel, rounded, appears medium dense, moist
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP71-3-15.0	0.0		Silty clay (CL), yellowish brown (10YR 5/4), medium plasticity, appears stiff
								Well graded sand (SW), very pale brown (10YR 7/3), fine to coarse grained, rounded to subangular, 10% well graded gravel, fine to medium, subrounded, appears medium dense, moist
16								Silt (ML), yellowish brown (10YR 5/4), low plasticity, soft, moist
								Well graded sand (SW), very pale brown (10YR 7/3), fine to coarse grained, rounded to subangular, 10% well graded gravel, fine to medium, subrounded, appears medium dense, moist
18								Silty clay (CL), yellowish brown (10YR 5/4), medium plasticity, appears stiff
								Well graded sand (SW), very pale brown (10YR 7/3), fine to coarse grained, rounded to subangular, 10% well graded gravel, fine to medium, subrounded, appears medium dense, moist
20								Boring FOR-1550QB-SB/TP71 terminated at 15 feet bgs at 12:30 on December 8, 2008. Backfilled with bentonite chips.

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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Santa Maria, CA 93455
805-349-7000

Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP72

Dates Drilled: 12-8-08	Total Depth Drilled: 15 feet	Logged By: Natalie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated, see trench log FOR-1550QB-SB/TP72) Silty sand with trace gravel (SM), dark yellowish brown, moist, medium grained, appears dense, 1/2" to 3/4" diameter gravel, no odor (roadbase)
2								Appears medium dense
4								Silty sand (SM), light yellowish brown, moist, medium to fine grained, appears medium dense, no odor (native)
	■	<2.1	<2.6	<6.9	FOR-1550QB-SB/TP72-1-5	0.0		
6								Yellowish brown (10YR 5/6), fine grained, ~20% fines, subrounded grains
8								Fine to medium grained, ~1% subrounded gravel up to 1 cm diameter
	■	<2.1	3.0J	<6.9	FOR-1550QB-SB/TP72-2-10.0	0.0		
10								Silt with sand (ML), dark yellowish brown (10YR 4/6), slightly moist, appears medium stiff, non-plastic, very fine grained
12								Silty sand (SM), yellowish brown (10YR 5/6), slightly moist, appears medium dense, fine grained, ~20% fines, subrounded grains
14								Fine to medium grained, ~15% fines
	■	<2.1	<2.6	<6.9	FOR-1550QB-SB/TP72-3-15.0	0.0		
16								Boring FOR-1550QB-SB/TP72 terminated at 15 feet bgs at 10:40 on December 8, 2008 and backfilled with bentonite chips

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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Santa Maria, CA 93455
805-349-7000

Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP73

Dates Drilled: 12-8-08	Total Depth Drilled: 15 feet	Logged By: Natalie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated, see trench log FOR-1550QB-SB/TP73) Well graded gravelly sand (GW), very dark grayish brown (10YR 3/2), semi-moist, subangular to angular 1/2" to 1.5" diameter gravel, medium grained, appears dense, no odor (roadbase)
								Silty sand (SM), dark brown (10YR 3/3), medium grained, appears medium dense, trace gravel, subangular gravel between 1/4" and 3/4" in diameter, no odor (fill/roadbase)
2								Silty sand (SM), brownish yellow (10YR 6/6), moist, medium to fine grained, appears medium dense, no odor (native)
4								
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP73-1-5	0.0		
								Silty sand with trace gravel (SM), yellowish brown (10YR 5/6), slightly moist, fine to medium grained, ~15% fines, subrounded grains (native), ~1% subrounded gravel up to 1 cm in diameter
6								
8								Lean clay (CL), dark yellowish brown (10YR 4/4), slightly moist, appears medium stiff, low plasticity
								Silty sand (SM), yellowish brown (10YR 5/6), slightly moist, fine grained, appears medium dense, ~20% fines
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP73-2-10.0	0.0		
10								
12								Fine to medium grained, ~1% subrounded gravel up to 1 cm in diameter
14								
		<2.1	3.2J	<6.9	FOR-1550QB-SB/TP73-3-15.0	0.0		
								Boring FOR-1550QB-SB/TP73 terminated at 15 feet bgs at 11:15 on December 8, 2008 and backfilled with bentonite chips
16								

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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805-349-7000

Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP74

Dates Drilled: 12-8-08	Total Depth Drilled: 15 feet	Logged By: Natalie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated, see trench log FOR-1550QB-SB/TP74) Well graded gravelly sand (GW), very dark grayish brown (10YR 3/2), subangular to angular gravel 1/2" to 3/4" in diameter, medium grained, appears dense, no odor (roadbase)
2								Silty sand (SM), yellowish brown, medium grained, appears medium dense, no odor (fill)
4	■	<2.1	<2.6	<6.9	FOR-1550QB-SB/TP74-1-5	0.0		Slightly moist, fine to medium grained, ~15% fines, subrounded grains
6								
8								Lean clay with sand (CL), dark yellowish brown (10YR 4/4), slightly moist, appears medium stiff, medium plasticity, ~25% very fine sand
10	■	<2.1	<2.6	<6.9	FOR-1550QB-SB/TP74-2-10.0	0.0		Silty sand (SM), yellowish brown (10YR 5/6), slightly moist, fine grained, ~20% fines, appears medium dense, subrounded grains Fine to medium grained sand, ~1% subrounded gravel up to 1 cm in diameter
12								Scattered nodules of clay up to ~1 cm in diameter No clay
14	■	<2.1	<2.6	<6.9	FOR-1550QB-SB/TP74-3-15.0	0.0		
16								Boring FOR-1550QB-SB/TP74 terminated at 15 feet bgs at 12:40 on December 8, 2008 and backfilled with bentonite chips

Explanation

Sand (SP) · Silt · Silty Sand (SM) · Clayey Silt · Clayey Sand (SC) · Silty Clayey Sand · Red Rock · Roadbase · Bentonite Chips

Sand (SW) · Clay · Sandy Silt (ML) · Silty Clay · Sandy Clay · Organic Silt · Gravel · Petroleum Impacted

URS
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Santa Maria, CA 93455
805-349-7000

Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP75

Date Drilled: 12-8-08	Total Depth Drilled: 15 feet	Logged By: Bonnie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated, see trench log FOR-1550QB-SB/TP75) Well graded gravel with sand (GW), very dark grayish brown (10YR 3/2), gravel subangular, 0.5" to 0.75" diameter, medium grained, appears dense (roadbase)
2								Silty sand (SM), dark brown (10YR 3/3), medium grained, trace gravel, subangular, appears medium dense, no odor (fill) Silty sand (SM), brownish yellow (10YR 6/6), moist, medium grained, appears medium dense, no odor (fill)
4								
4		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP75-1-5.0	0.0		
6								Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine grained, trace medium, rounded to subrounded, trace silt, appears loose to medium dense
8								
8								15% well graded gravel, fine to coarse, rounded to subrounded
10		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP75-2-10.0	0.0		
10								Poor recovery from 10 to 11.5 feet bgs
12								Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine grained, trace medium, rounded to subrounded, trace silt, appears loose to medium dense
14								Well graded sand (SW), very pale brown (10YR 7/3), moist, fine to coarse grained, rounded to subangular, 10% fine gravel, rounded, trace coarse gravel, rounded, appears medium dense
14		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP75-3-15.0	0.0		
16								Boring FOR-1550QB-SB/TP75 terminated at 15 feet bgs at 10:55 on December 8, 2008. Backfilled with bentonite chips.

Explanation

Sand (SP), Silt, Silty Sand (SM), Clayey Silt, Clayey Sand (SC), Silty Clayey Sand, Red Rock, Roadbase, Bentonite Chips

Sand (SW), Clay, Sandy Silt (ML), Silty Clay, Sandy Clay, Organic Silt, Gravel, Petroleum Impacted

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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP76

Dates Drilled: 12-9-08	Total Depth Drilled: 15 feet	Logged By: Bonnie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated, see trench log FOR-1550QB-SB/TP76) Well graded gravel with sand (GW), dark brown (10YR 3/3), moist, gravel subangular 0.5" to 1.5" diameter, sand medium grained, appears dense, no odor (roadbase)
2		<2.1	220	1400	FOR-1550QB-SB/TP76-2-1.75	0.0		Silty sand (SM), dark yellowish brown (10YR 4/6), moist, fine grained, appears medium dense, no odor (fill)
4		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP76-1-5.0	0.0		Well graded sand (SW), very pale brown (10YR 7/3), moist, fine to coarse grained, rounded to subangular, trace fine gravel, rounded, appears dense
6								Poorly graded sand (SP), pale brown (10YR 6/3), moist, fine to medium grained, rounded to subangular, appears medium dense
8								
10		<2.1	5.6J	<6.9	FOR-1550QB-SB/TP76-3-10.0	0.0		Poor recovery from 10 to 11 feet bgs
12								Poorly graded sand (SP), pale brown (10YR 6/3), moist, fine to medium grained, rounded to subangular, trace coarse gravel, appears medium dense
14		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP76-4-15.0	0.0		Silt with fine sand (ML), yellowish brown (10YR 5/4), moist, non plastic, appears soft to medium consistency Rock layer (sedimentary rock) Silty clay (CL), yellowish brown (10YR 5/4), moist, medium plasticity, stiff Silt with fine sand (ML), yellowish brown (10YR 5/4), moist, non plastic, appears soft to medium consistency
16								Silty sand (SM), light yellowish brown (10YR 6/4), moist, fine grained, appears medium dense Poorly graded sand (SP), pale brown (10YR 6/3), moist, fine to medium grained, appears medium dense Well graded sand (SW), light yellowish brown (10YR 6/4), moist, fine to coarse grained, rounded to subangular, appears medium dense
18								Boring FOR-1550QB-SB/TP76 terminated at 15 feet bgs at 08:40 on December 9, 2008 and backfilled with bentonite chips

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

URS
2625 S. Miller Street, Suite 104
Santa Maria, CA 93455
805-349-7000

Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP77

Dates Drilled: 12-8-08	Total Depth Drilled: 15 feet	Logged By: Natalie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated, see trench log FOR-1550QB-SB/TP77) Well graded gravelly sand (GW), very dark grayish brown (10YR 3/2), moist, medium grained, subangular gravel 1/2" to 3/4" in diameter, medium grained, appears dense, no odor (roadbase)
								Silty sand (SM), dark brown (10YR 3/3), moist, medium grained, appears medium dense, trace gravel, no odor (fill)
2		<2.1	<2.6	18J	FOR-1550QB-SB/TP77-2-2	0.0		Silty sand (SM), yellowish brown (10YR 5/8), fine grained, appears medium dense, no odor (fill)
4		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP77-1-5	0.0		
								Silty sand with trace gravel (SM), yellowish brown (10YR 5/6), slightly moist, fine to medium grained sand, ~15% fines, subrounded grains, appears medium dense, ~1% subrounded gravel up to 1.5 cm diameter
6								
8								
10		<2.1	5.2J	<6.9	FOR-1550QB-SB/TP77-3-10.0	0.0		Gravel up to 1 cm diameter
12								Lean clay with sand (CL), dark yellowish brown (10YR 4/4), slightly moist, appears medium stiff, low plasticity, ~20% fine to medium subrounded sand
								Silty sand (SM), yellowish brown (10YR 5/6), slightly moist, fine grained, ~20% fines, appears medium dense
14		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP77-4-15.0	0.0		
16								Boring FOR-1550QB-SB/TP77 terminated at 15 feet bgs at 14:45 on December 8, 2008 and backfilled with bentonite chips

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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805-349-7000

Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP78

Date Drilled: 12-3-08	Total Depth Drilled: 25 feet	Logged By: Bonnie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0		35	2000	3200	FOR-1550QB-SB/TP78-1-0.5	0.0		(Upper 5 feet previously excavated, see trench log FOR-1550QB-SB/TP78) Well graded gravel with sand (GW), very dark grayish brown (10YR 3/2), moist, medium grained sand, gravel subangular, 0.5" to 1.25" diameter, appears dense, no odor (roadbase)
								Silty sand (SM), very dark brown (10YR 2/2), moist, medium grained, trace gravel, subangular, 0.25" to 0.75", appears medium dense, no odor (fill) Dark yellowish brown (10YR 4/6), fine to medium grained, appears medium dense, no odor
2								
4		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP78-2-5.0	0.0		Yellowish brown (10YR 5/4), moist, fine to medium grained, appears medium dense
6								Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, interbedded layers of varying grain size, fine to medium grained, appears medium dense 1" layer of coarse grained sand fine to medium grained 1" layer of coarse grained sand, appears dense
8								Well graded sand (SW), very pale brown (10YR 7/3), moist, fine to coarse grained, subangular, 20% well graded gravel, fine to medium, subangular, appears dense
								Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine grained, appears medium dense 1" layer of well graded coarse gravel within matrix, up to 1" diameter
10		<2.1	3.6J	<6.9	FOR-1550QB-SB/TP78-3-10.0	0.0		
12								Silty sand (SM), dark yellowish brown (10YR 4/4), moist, fine to medium grained, 25% well graded gravel, medium to very coarse (1/8" to 1"), subrounded, appears medium dense
								Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine to medium grained, trace silt, appears medium dense

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

URS
2625 S. Miller Street, Suite 104
Santa Maria, CA 93455
805-349-7000

Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP78

Date Drilled: 12-3-08	Total Depth Drilled: 25 feet	Logged By: Bonnie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
14								1" layer of well graded gravel (GW) and silty clay (CL)
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP78-4-15.0	0.0		
16								Silty sand (SM), dark yellowish brown (10YR 4/4), moist, fine to medium grained, 25% well graded gravel, medium to very coarse (1/8" to 1"), subrounded, appears medium dense
								Well graded sand (SW), very pale brown (10YR 7/4), moist, fine to coarse grained, rounded to subangular, trace fine gravel, rounded, appears medium dense
18								Silt with very fine sand (ML), yellowish brown (10YR 5/6), moist, nonplastic, appears stiff
								Well graded sand (SW), very pale brown (10YR 7/4), moist, fine to coarse grained, rounded to subangular, trace fine gravel, rounded, appears medium dense
								Silt with very fine sand (ML), yellowish brown (10YR 5/6), moist, nonplastic, appears stiff
20		<2.1	3.8J	<6.9	FOR-1550QB-SB/TP78-5-20.0	0.0		Poorly graded sand (SP), very pale brown (10YR 7/4), moist, very fine grained, appears medium dense
22								Silty sand (SM), yellowish brown (10YR 5/4), moist, fine to medium grained, 10% well graded gravel, fine to medium, rounded, appears medium dense
								Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, very fine grained, appears medium dense
								Silt with very fine sand (ML), yellowish brown (10YR 5/6), moist, nonplastic, appears stiff
24								Silty sand (SM), yellowish brown (10YR 5/6), moist, fine to medium grained, trace fine gravel, rounded, appears medium dense
								Poorly graded sand (SP), very pale brown (10YR 7/3), moist, fine grained, appears medium dense
		5.6J	<2.6	<6.9	FOR-1550QB-SB/TP78-6-25.0	0.0		
26								Boring FOR-1550QB-SB/TP78 terminated at 25 feet bgs at 14:25 on December 3, 2008. Backfilled with bentonite chips.

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

URS
2625 S. Miller Street, Suite 104
Santa Maria, CA 93455
805-349-7000

Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP79

Date Drilled: 12-3-08	Total Depth Drilled: 20 feet	Logged By: Bonnie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated, see trench log FOR-1550QB-SB/TP79) Well graded gravel with sand (GW), very dark grayish brown (10YR 3/2), moist, medium grained sand, gravel subangular, 0.5" to 1.25", appears dense, no odor (roadbase)
2								Silty sand (SM), dark yellowish brown (10YR 4/6), moist, fine to medium grained, trace gravel, 0.25" to 0.75" diameter, appears medium dense, no odor (fill)
4		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP79-1-5.0	0.0		
6								Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine to medium grained, subrounded, appears loose to medium dense
8								
10		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP79-2-10.0	0.0		Medium to coarse grained
12								Silty sand (SM), yellowish brown (10YR 5/4), moist, fine to medium grained, trace fine gravel, rounded, appears medium dense Well graded sand (SW), very pale brown (10YR 7/3), moist, fine to coarse grained, rounded to subangular, 20% well graded gravel, coarse, subrounded, appears dense
14		<2.1	4.4J	<6.9	FOR-1550QB-SB/TP79-3-15.0	0.0		Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, very fine grained, trace silt, appears medium dense Grades to fine to medium grained Silty sand (SM), yellowish brown (10YR 5/4), moist, very fine grained, appears dense Grades to fine grained
16								Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine grained, appears medium dense Silty sand (SM), yellowish brown (10YR 5/4), moist, fine to medium grained, appears medium dense
18								Well graded sand (SW), very pale brown (10YR 7/4), moist, fine to coarse grained, rounded to subangular, trace fine gravel, subrounded, appears medium dense One coarse angular gravel at 18 feet bgs
20		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP79-4-20.0	0.0		Silt with very fine sand (ML), yellowish brown (10YR 5/4), moist, nonplastic, noncohesive, appears medium to stiff Poorly graded sand (SP), very pale brown (10YR 7/4), moist, very fine grained, appears loose to medium dense Boring FOR-1550QB-SB/TP79 terminated at 20 feet bgs at 12:55 on December 3, 2008. Backfilled with bentonite chips.
22								

Explanation

Sand (SP) · Silt · Silty Sand (SM) · Clayey Silt · Clayey Sand (SC) · Silty Clayey Sand · Red Rock · Roadbase · Bentonite Chips

Sand (SW) · Clay · Sandy Silt (ML) · Silty Clay · Sandy Clay · Organic Silt · Gravel · Petroleum Impacted

URS
2625 S. Miller Street, Suite 104
Santa Maria, CA 93455
805-349-7000

Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP80

Dates Drilled: 12-8-08	Total Depth Drilled: 15 feet	Logged By: Bonnie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0		<2.1	600	9400	FOR-1550QB-SB/TP80-1-0.5	0.0		(Upper 5 feet previously excavated, see trench log FOR-1550QB-SB/TP80) Well graded gravelly sand (GW), dark brown (10YR 3/3), moist, medium grained sand, gravel subangular, 0.5" to 1.5" diameter, appears dense, brick and wood debris, trace petroleum impregnated clasts near surface (roadbase)
2								Silty sand (SM), yellowish brown (10YR 5/6), moist, fine to medium grained, appears medium dense, no odor (fill)
4		<2.1	260	4000	FOR-1550QB-SB/TP80-2-5.0	0.0		Yellowish brown (10 YR 5/4), sand grains rounded to subrounded, 10% well graded gravel, fine to coarse, rounded to subrounded
6								Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine to medium grained, rounded to subangular sand, trace fine rounded gravel, appears dense
8								15% well graded gravel, fine to very coarse, rounded to subrounded
10		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP80-3-10.0	0.0		Poor recovery from 10 to 11 feet bgs
12								Silty sand (SM), yellowish brown (10YR 5/4), moist, fine to medium grained, trace fine rounded gravel, appears medium dense
								Well graded sand (SW), very pale brown (10YR 7/3), moist, fine to coarse grained, rounded to subangular, 10% fine rounded gravel, appears medium dense
14								Silt with very fine sand (ML), yellowish brown (10 YR 5/4), moist, non plastic, appears stiff
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP80-4-15.0	0.0		Silty clay (CL), yellowish brown (10YR 5/4), moist, medium plasticity, appears stiff
								Well graded sand (SW), very pale brown (10YR 7/3), moist, fine to coarse grained, rounded to subangular, 10% fine rounded gravel, appears medium dense
16								Boring FOR-1550QB-SB/TP80 terminated at 15 feet bgs at 14:30 on December 8, 2008. Backfilled with bentonite chips.

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

URS
2625 S. Miller Street, Suite 104
Santa Maria, CA 93455
805-349-7000

Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP81

Date Drilled: 12-4-08	Total Depth Drilled: 20 feet	Logged By: Bonnie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated, see trench log FOR-1550QB-SB/TP81) Well graded gravel with sand (GW), very dark grayish brown (10YR 3/2), gravel subangular, 0.25" to 0.75" diameter, medium grained sand, appears dense, no odor (roadbase)
2								Silty sand (SM), yellowish brown (10YR 5/6), moist, medium grained, appears medium dense, no odor (fill)
4		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP81-1-5.0	0.0		Light yellowish brown (10YR 5/4)
6								Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine to medium grained, trace silt, appears loose
8								Silty sand (SM), yellowish brown (10YR 5/4), moist, fine grained, appears medium dense
								Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine to medium grained, appears medium dense
10		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP81-2-10.0	0.0		Silty sand (SM), yellowish brown (10YR 5/4), moist, fine grained, appears medium dense
								Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine to medium grained, appears medium dense
12								Silty Clay (CL), yellowish brown (10YR 5/4), moist, medium plasticity, appears stiff
								Silty sand (SM), yellowish brown (10YR 5/4), moist, fine grained, appears medium dense
								Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine to medium grained, appears medium dense
14								Silty sand (SM), yellowish brown (10YR 5/4), moist, fine grained, appears medium dense
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP81-3-15.0	0.0		Poorly graded sand (SP), very pale brown (10YR 7/3), moist, fine to medium grained, rounded to subangular, appears medium dense 10% well graded fine to medium gravel
16								
								Silty sand (SM), yellowish brown (10YR 5/4), fine to medium grained, appears medium dense, moist
18								Poorly graded sand (SP), light yellowish brown (10YR 6/4), fine to medium grained, moist, appears medium dense
20		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP81-4-20.0	0.0		Boring FOR-1550QB-SB/TP81 terminated at 20 feet bgs at 09:40 on December 4, 2008. Backfilled with bentonite chips.

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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805-349-7000

Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP82

Date Drilled: 12-8-08	Total Depth Drilled: 15 feet	Logged By: Bonnie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated, see trench log FOR-1550QB-SB/TP82) Silty sand (SM), dark yellowish brown (10YR 3/6), moist, medium grained, appears medium dense to dense, no odor
2								Yellowish brown (10YR 5/8)
4	■	<2.1	<2.6	<6.9	FOR-1550QB-SB/TP82-1-5.0	0.0		
6								Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine to medium grained, rounded to subangular, trace silt, appears medium dense
8								Silty clay (CL), yellowish brown (10YR 5/4), moist, medium plasticity, appears stiff Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine grained, rounded to subangular, 10% silt, appears medium dense
10	■	<2.1	<2.6	<6.9	FOR-1550QB-SB/TP82-2-10.0	0.0		
12								
14								Silty sand (SM), light yellowish brown (10YR 6/4), moist, fine to medium grained, rounded to subrounded, appears medium dense Well graded sand (SW), light yellowish brown (10YR 6/4), moist, fine to coarse grained, rounded to subangular, 10% fine to medium gravel, rounded to subangular, appears medium dense
	■	2.9J	<2.6	<6.9	FOR-1550QB-SB/TP82-3-15.0	0.0		
16								Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine grained, rounded to subangular, 10% silt, appears medium dense Boring FOR-1550QB-SB/TP82 terminated at 15 feet bgs at 09:40 on December 8, 2008. Backfilled with bentonite chips.

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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Santa Maria, CA 93455
805-349-7000

Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP83

Dates Drilled: 12-8-08	Total Depth Drilled: 15 feet	Logged By: Natalie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated; see trench log FOR-1550QB-SB/TP83) Well graded gravelly sand (GW), very dark grayish brown (10YR 3/2), moist, medium grained, appears dense, no odor (roadbase)
								Silty sand (SM), dark yellowish brown (10YR 4/6), moist, medium grained, appears medium dense, no odor (fill)
4		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP83-1-5.0	0.0		
								Silty sand (SM); yellowish brown (10YR 5/6); slightly moist; fine grained; appears medium dense; grains subrounded; ~20% fines (native)
6								Fine to medium grained sand; ~15% fines
8								Silt with sand (ML); dark yellowish brown (10YR 4/6); slightly moist; appears medium stiff; non-plastic; very fine grained
								Silty sand (SM), yellowish brown (10YR 5/6); slightly moist; fine grained; appears medium dense; ~20% fines
10		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP83-2-10.0	0.0		
								Fine to medium grained; ~15% fines
12								Scattered nodules of clay up to ~1.5 cm diameter No clay; fine grained sand
								Scattered nodules of clay up to ~1 cm diameter
14		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP83-3-15.0	0.0		
								Boring FOR-1550QB-SB/TP83 terminated at 15 feet bgs at 9:35 on December 8, 2008 and backfilled with bentonite chips
16								

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP84

Date Drilled: 12-8-08	Total Depth Drilled: 15 feet	Logged By: Bonnie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated, see trench log FOR-1550QB-SB/TP84) Well graded gravel with sand (GW), dark yellowish brown (10YR 3/6), moist, medium grained sand, gravel subangular, 0.5" to 1.5" diameter, appears dense, no odor (roadbase)
2		2.1J	<2.6	<6.9	FOR-1550QB-SB/TP84-2-2.0	0.0		Silty sand (SM), dark yellowish brown (10YR 3/4), moist, medium grained, trace gravel, 0.25" to 0.75" diameter, appears medium dense, no odor (fill)
4								Brownish yellow (10YR6/8), fine grained
4		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP84-1-5.0	0.0		
6								Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine to medium grained, rounded to subangular, trace silt, appears medium dense
6								Trace fine gravel, rounded
8								Silty clay (CL), yellowish brown (10YR 5/4), moist, medium plasticity, appears stiff
8								Silty sand (SM), yellowish brown (10YR 5/4), moist, fine grained, appears medium dense
8								Silty clay (CL), yellowish brown (10YR 5/4), moist, medium plasticity, appears stiff
10		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP84-3-10.0	0.0		Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine to medium grained, rounded to subangular, trace silt, appears medium dense
10								Silty sand (SM), yellowish brown (10YR 5/4), moist, fine grained, appears medium dense
10								Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine to medium grained, rounded to subangular, trace silt, one coarse gravel, subrounded, 1" diameter, appears medium dense
12								Well graded sand (SW), light yellowish brown (10YR 6/4), moist, fine to coarse grained, rounded to subangular, 10% well graded gravel, fine to coarse, subrounded, appears medium dense
12								Poorly graded sand (SP), very pale brown (10YR 7/4), moist, fine to medium grained, appears medium dense
14		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP84-4-15.0	0.0		Trace fine gravel, rounded
16								Boring FOR-1550QB-SB/TP84 terminated at 15 feet bgs at 09:05 on December 8, 2008. Backfilled with bentonite chips.

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

URS
2625 S. Miller Street, Suite 104
Santa Maria, CA 93455
805-349-7000

Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP85

Date Drilled: 12-8-08	Total Depth Drilled: 15 feet	Logged By: Bonnie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated, see trench log FOR-1550QB-SB/TP85) Well graded gravel with sand (GW), very dark grayish brown (10YR 3/2), moist, medium grained sand, gravel subangular, 0.5" to 1.5" diameter, appears dense (roadbase)
2								Silty sand (SM), brownish yellow (10YR 6/6), moist, fine to medium grained, appears medium dense, no odor (fill)
4		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP85-1-5.0	0.0		
6								Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine to medium grained, rounded to subangular, trace silt, appears loose to medium dense
8								Silt with very fine sand (ML), yellowish brown (10YR 5/4), moist, nonplastic, medium consistency
								Silty clay (CL), yellowish brown (10YR 5/4), moist, medium plasticity, appears medium to stiff
								Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine to medium grained, rounded to subangular, trace silt, appears loose to medium dense
10		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP85-2-10.0	0.0		
12								20% well graded gravels, fine to coarse, rounded to subrounded Trace fine gravel, rounded
14								Well graded sand (SW), light yellowish brown (10YR 6/4), moist, fine to coarse grained, rounded to subangular, trace well graded gravel, medium to coarse, subangular, appears medium dense
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP85-3-15.0	0.0		
16								Boring FOR-1550QB-SB/TP85 terminated at 15 feet bgs at 08:40 on December 8, 2008. Backfilled with bentonite chips.

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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805-349-7000

Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP86

Dates Drilled: 12-8-08	Total Depth Drilled: 15 feet	Logged By: Natalie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated; see trench log FOR-1550QB-SB/TP86) Silty sand (SM), dark brown (10YR 3/3), moist, some gravel 1/4" to 3/4" in diameter, medium grained, appears medium dense, no odor (roadbase)
2								Silty sand (SM), dark yellowish brown (10YR 3/4), moist, medium grained, appears medium dense, trace gravel 1/4" to 1/2" diameter (fill)
2	■	<2.1	<2.6	<6.9	FOR-1550QB-SB/TP86-2-3.0	0.0		
4								Silty sand (SM), yellowish brown (10YR 5/4), moist, fine grained, appears medium dense, no odor (fill)
4	■	<2.1	<2.6	<6.9	FOR-1550QB-SB/TP86-1-5.0	0.0		
6								Silty sand (SM); yellowish brown (10YR 5/6); slightly moist, fine to medium grained, appears medium dense; grains subrounded; ~15% fines (native)
8								Silt with sand (ML); dark yellowish brown (10YR 4/6); slightly moist; appears medium stiff; non-plastic; very fine grained
8								Silty sand (SM); yellowish brown (10YR 5/6); slightly moist; fine grained; appears medium dense; ~ 20% fines; grains subrounded
10	■	<2.1	<2.6	<6.9	FOR-1550QB-SB/TP86-3-10.0	0.0		
12								Fine to medium grained sand
14	■	<2.1	<2.6	<6.9	FOR-1550QB-SB/TP86-4-15.0	0.0		
16								Boring FOR-1550QB-SB/TP86 terminated at 15 feet bgs at 9:00 on December 8, 2008 and backfilled with bentonite chips

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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805-349-7000

Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB87

Date Drilled: 12-04-08	Total Depth Drilled: 20 feet	Logged By: Bonnie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Hand augered upper 5 feet) Silty sand (SM), dark yellowish brown (10YR 4/4), moist, fine to medium grained, trace fine gravel, rounded, appears loose, no odor
2								Well graded gravel (GW), 3" layer cobbles, 3" diameter Silty sand (SM), yellowish brown (10YR 5/4), moist, fine to medium grained, trace fine gravel, rounded, appears loose, no odor Light yellowish brown (10YR 6/4)
4								Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, rounded to subangular, fine to medium grained, appears loose
		2.1J	<2.6	<6.9	FOR-1550QB-SB87-1-5.0	0.0		Trace coarse gravel, subrounded, medium grained sand
6								Fine to medium grained
8								1" nodules of silty clay (CL) within matrix
								Silty sand (SM), light yellowish brown (10YR 6/4), moist, fine grained, appears medium dense
10		<2.1	<2.6	<6.9	FOR-1550QB-SB87-2-10.0	0.0		Poorly graded sand (SP), very pale brown (10YR 7/3), moist, fine grained, appears medium dense
								Silty sand (SM), light yellowish brown (10YR 6/4), moist, fine to medium grained, trace fine gravel, appears medium dense
12								Poorly graded sand (SP), very pale brown (10YR 7/3), moist, fine to medium grained, appears medium dense
14								Well graded gravel (GW), 2" layer of cobbles, 1.5" diameter
		<2.1	<2.6	<6.9	FOR-1550QB-SB87-3-15.0	0.0		Poorly graded sand (SP), very pale brown (10YR 7/3), moist, fine to medium grained, appears medium dense
16								Silty sand (SM), light yellowish brown (10YR 6/4), moist, fine to medium grained, appears medium dense
18								Well graded sand (SW), very pale brown (10YR 7/3), moist, fine to very coarse grained, rounded to angular, trace well graded gravel, fine to coarse, subrounded, appears medium dense
20		<2.1	<2.6	<6.9	FOR-1550QB-SB87-4-20.0	0.0		Boring FOR-1550QB-SB87 terminated at 20 feet bgs at 08:55 on December 4, 2008. Backfilled with bentonite chips.

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB88

Date Drilled: 12-04-08	Total Depth Drilled: 20 feet	Logged By: Bonnie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Hand augered upper 5 feet) Silty Sand (SM), dark yellowish brown (10YR 4/4), moist, fine to medium grained, appears loose
2								Yellowish brown (10YR 5/4)
4								Poorly graded sand (SP), yellowish brown (10YR 5/4), moist, fine to medium grained, appears loose Medium grained, trace fine gravel, rounded Light yellowish brown (10YR 6/4)
		<2.1	<2.6	<6.9	FOR-1550QB-SB88-1-5.0	0.0		
6								Well graded sand (SW), very pale brown (10YR 7/3), moist, fine to coarse grained, rounded to angular, appears loose
8								Poorly graded sand (SP), pale yellowish brown (10YR 7/3), moist, fine to medium grained, rounded to subangular, appears medium dense
								Silty clay (CL), yellowish brown (10YR 5/4), moist, medium plasticity, appears stiff
10		<2.1	<2.6	<6.9	FOR-1550QB-SB88-2-10.0	0.0		Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine grained, appears medium dense
12								Fine to medium grained Trace fine gravel, rounded
14		<2.1	<2.6	<6.9	FOR-1550QB-SB88-3-15.0	0.0		
16								Silty sand (SM), yellowish brown (10YR 5/4), moist, fine to medium grained, appears medium dense
								Well graded sand (SW), very pale brown (10YR 7/4), moist, fine to coarse grained, rounded to angular, 20% very coarse gravel up to 1" diameter, appears medium dense
18								Poorly graded sand (SP), very pale brown (10YR 7/4), moist, fine to medium grained, appears medium dense Fine grained
20		<2.1	<2.6	<6.9	FOR-1550QB-SB88-4-20.0	0.0		Silty sand (SM), light yellowish brown (10YR 6/4), moist, very fine sand, appears medium dense
								Boring FOR-1550QB-SB88 terminated at 20 feet bgs at 10:25 on December 4, 2008. Backfilled with bentonite chips.

Explanation

Sand (SP), Silt, Silty Sand (SM), Clayey Silt, Clayey Sand (SC), Silty Clayey Sand, Red Rock, Roadbase, Bentonite Chips

Sand (SW), Clay, Sandy Silt (ML), Silty Clay, Sandy Clay, Organic Silt, Gravel, Petroleum Impacted

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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB89

Date Drilled: 12-04-08	Total Depth Drilled: 20 feet	Logged By: Bonnie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Hand augered upper 5 feet) Silty Sand (SM), dark brown (10YR 3/3), moist , fine to medium grained, appears loose Dark yellowish brown (10YR 5/4)
2								Yellowish brown (10YR 5/4)
4								Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine to medium grained, appears loose to medium dense Very pale brown (10YR 7/4)
		<2.1	<2.6	<6.9	FOR-1550QB-SB89-1-5.0	0.0		
6								
8								Trace fine gravel, rounded
		<2.1	<2.6	<6.9	FOR-1550QB-SB89-2-10.0	0.0		Well graded sand (SW), very pale brown (10YR 7/3), moist, fine to coarse grained, rounded to angular, 20% well graded gravel, medium to very coarse , subrounded to angular, appears medium dense
10								Silt (ML), yellowish brown (10YR 5/4), moist, nonplastic, appears stiff
12								Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine to medium grained, appears medium dense Fine grained
14								Well graded sand (SW), light yellowish brown (10YR 5/4), moist, fine to coarse grained, rounded to angular, appears medium dense
		<2.1	<2.6	<6.9	FOR-1550QB-SB89-3-15.0	0.0		
16								Silty sand (SM), yellowish brown (10YR 5/4), moist, fine to medium grained, trace well graded gravel, fine to medium, rounded, appears medium dense
								Well graded sand (SW), very pale brown (10YR 7/3), moist, fine to coarse grained, rounded to angular, trace fine gravel, rounded, appears medium dense
18								Silty sand (SM), yellowish brown (10YR 5/4), moist, fine to medium grained, trace well graded gravel, fine to medium, rounded, appears medium dense
								Poorly graded sand (SP), very pale brown (10YR 7/4), moist, fine grained, appears medium dense
20		<2.1	<2.6	<6.9	FOR-1550QB-SB89-4-20.0	0.0		Boring FOR-1550QB-SB89 terminated at 20 feet bgs at 11:05 on December 4, 2008. Backfilled with bentonite chips.

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB90

Date Drilled: 12-04-08	Total Depth Drilled: 20 feet	Logged By: Bonnie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Hand augered upper 5 feet) Silty sand (SM), yellowish brown (10YR 5/4), moist, fine to medium grained, trace fine to medium gravel, rounded, appears loose
								Brown (10YR 5/3), one very coarse gravel, subangular, 1.5" diameter
2								Yellowish brown (10YR 5/4), trace coarse gravel, 3/4" diameter, subangular
								Trace fine gravel, rounded
4								
		<2.1	<2.6	<6.9	FOR-1550QB-SB90-1-5.0	0.0		One very coarse gravel, 1" diameter, subangular
								Dark yellowish brown (10YR 4/4), trace well graded gravel, angular, 0.25" to 1" diameter
6								Pale brown (10YR 6/3)
8								Poorly graded sand (SP), very pale brown (10YR 7/3), moist, fine grained, appears medium dense
								Silty clay (CL), brownish yellow (10YR 6/6), moist, medium plasticity, appears stiff
		<2.1	<2.6	<6.9	FOR-1550QB-SB90-2-10.0	0.0		Poorly graded sand (SP), very pale brown (10YR 7/3), moist, fine to medium grained, appears medium dense
10								

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB90

Date Drilled: 12-04-08	Total Depth Drilled: 20 feet	Logged By: Bonnie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
12								Light yellowish brown (10YR 6/4), fine grained, trace silt
								Medium grained
								Fine grained
14								Well graded sand (SW), very pale brown (10YR 7/4), moist, fine to coarse grained, 20% medium to coarse gravel, subangular to subrounded, appears dense
		<2.1	<2.6	<6.9	FOR-1550QB-SB90-3-15.0	0.0		
16								Silty sand (SM), dark yellowish brown (10YR 4/6), moist, fine to medium grained, appears medium dense
								Well graded sand (SW), very pale brown (10YR 7/4), moist, fine to coarse grained, 20% medium to coarse gravel, subangular to subrounded, appears dense
								Silty clay (CL), yellowish brown (10YR 5/4), moist, medium plasticity, appears stiff
								Silt with very fine sand (ML), yellowish brown (10YR 5/4), moist, nonplastic, appears soft to medium
18								Well graded sand (SW), very pale brown (10YR 7/4), moist, fine to coarse grained, 20% medium to coarse gravel, subangular to subrounded, appears dense
								Silty clay (CL), yellowish brown (10YR 5/4), moist, medium plasticity, appears stiff
								Well graded sand (SW), very pale brown (10YR 7/4), moist, fine to coarse grained, 20% medium to coarse gravel, subangular to subrounded, appears dense
		<2.1	<2.6	<6.9	FOR-1550QB-SB90-4-20.0	0.0		Silt with very fine sand (ML), yellowish brown (10YR 5/4), moist, nonplastic, appears soft to medium
20								Poorly graded sand (SP), very pale brown (10YR 7/3), moist, fine grained, appears medium dense
								Silt with very fine sand (ML), brownish yellow (10YR 6/6), moist, nonplastic, appears medium to stiff
								Poorly graded sand (SP), very pale brown (10YR 7/3), moist, fine grained, appears medium dense
								Boring FOR-1550QB-SB90 terminated at 20 feet bgs at 13:10 on December 2, 2008. Backfilled with bentonite chips.
22								

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB91

Dates Drilled: 12-04-08	Total Depth Drilled: 20 feet	Logged By: Natalie Williams
Drilling Contractor: S&G Drilling	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Hand augered upper 5 feet) Silty sand (SM); yellowish-brown (10YR 5/6); slightly moist; fine-grained; appears medium-dense At ~6 inches bgs becomes more moist; dark yellowish-brown (10YR 4/4) At 1 foot becomes yellowish-brown (10YR 5/6); ~1% subrounded gravel up to 3 cm in diameter
4		<2.1	<2.6	<6.9	FOR-1550QB-SB91-1-5.0	0.0		Silt with sand (ML); dark yellowish-brown (10YR 5/6); slightly moist; appears medium stiff; very fine-grained
6								Silty sand with trace gravel (SM); yellowish-brown (10YR 5/6); slightly moist; fine grained; appears medium-dense; ~3% subrounded gravel up to 3.5 cm diameter At ~6.5 feet bgs becomes fine to medium-grained; ~1% subrounded gravel up to 1.5 cm diameter; ~15% fines; subrounded grains
8								~1% gravel up to 1 cm diameter
10		<2.1	<2.6	<6.9	FOR-1550QB-SB91-2-10.0	0.0		Lean clay with sand (CL); dark yellowish-brown (10YR 4/4); slightly moist; appears medium-stiff; low plasticity; fine to medium-grained sand; subrounded grains; ~20% sand
12								Silt with sand (ML); dark yellowish brown (10YR 4/6); slightly moist; appears medium-stiff; non-plastic; very fine-grained
14		<2.1	<2.6	<6.9	FOR-1550QB-SB91-3-15.0	0.0		Well graded sand (SW); yellowish-brown (10YR 5/6); slightly moist; appears medium-dense; ~3% subrounded gravel up to 1 cm diameter
16								Scattered nodules of clay up to 1.5 cm in diamter; becomes ~1% subrounded gravel up to 2 cm diameter
18								Silty sand (SM); yellowish-brown (10YR 5/6); slightly moist; fine-grained; appears medium-dense
20		<2.1	<2.6	<6.9	FOR-1550QB-SB91-4-20.0	0.0		Boring FOR-1550QB-SB91 terminated at 20 feet bgs at 11:15 on December 4, 2008 and backfilled with bentonite chips

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB92

Dates Drilled: 12-04-08	Total Depth Drilled: 20 feet	Logged By: Natalie Williams
Drilling Contractor: S&G Drilling	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Hand augered upper 5 feet) Silty sand (SM); yellowish brown (10YR 5/6); slightly moist; fine-grained; appears medium dense
2								Fine to medium-grained; ~1% trace gravel up to 2 cm diameter; gravel subrounded; grains subrounded
4		<2.1	<2.6	<6.9	FOR-1550QB-SB92-1-5.0	0.0		
6								Fine-grained; no trace gravel
8								Fine to medium-grained sand
10		<2.1	4.5J	<6.9	FOR-1550QB-SB92-2-10.0	0.0		Silt with sand (ML); dark yellowish-brown (10YR 4/6); slightly moist; appears medium-stiff; non-plastic; very fine-grained Silty sand (SM); yellowish-brown (10YR 5/6); slightly moist; fine-grained; appears medium dense
12								Trace gravel up to 1 cm in diameter; gravel is subrounded
14		<2.1	<2.6	<6.9	FOR-1550QB-SB92-3-15.0	0.0		
16								Fine to medium-grained sand; ~15% fines; gravel up to 2.5 cm diameter; gravel is subangular
18								Silt with sand (ML); dark yellowish-brown (10YR 4/6); slightly moist; very fine-grained; appears medium-stiff; non-plastic
20		<2.1	<2.6	<6.9	FOR-1550QB-SB92-4-20.0	0.0		Boring FOR-1550QB-SB92 terminated at 20 feet bgs at 10:25 on December 4, 2008 and backfilled with bentonite chips

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB93

Dates Drilled: 12-04-08	Total Depth Drilled: 20 feet	Logged By: Natalie Williams
Drilling Contractor: S&G Drilling	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Hand augered upper 5 feet) Silty sand (SM); yellowish-brown (10YR 5/6); slightly moist; fine-grained; appears medium-dense
2								~1% trace gravel up to 1 cm diameter; fine to medium-grained; sand subrounded; ~20% fines
4		<2.1	<2.6	<6.9	FOR-1550QB-SB93-1-5.0	0.0		Gravel up to 3.5 cm diameter
6								Gravel up to 1 cm in diameter
8								~15% fines
10		<2.1	<2.6	<6.9	FOR-1550QB-SB93-2-10.0	0.0		Scattered nodules of clay up to ~ 1cm diameter
12								
14		<2.1	<2.6	<6.9	FOR-1550QB-SB93-3-15.0	0.0		Lean clay (CL); dark yellowish-brown (10YR 4/4); slightly moist; appears medium-stiff; low plasticity At ~ 13.75 feet bgs becomes ~10% fine to medium-grained sand; ~1% subrounded gravel up to 2 cm in diameter
16								Silty sand (SM); yellowish-brown (10YR 5/6); slightly moist; fine grained; appears medium dense At 15.5 feet bgs becomes fine to medium grained; ~15% fines; ~1% subrounded gravel up to 1.5 cm in diameter
18								
20		<2.1	<2.6	<6.9	FOR-1550QB-SB93-4-20.0	0.0		Boring FOR-1550QB-SB93 terminated at 20 feet bgs at 9:15 on December 4, 2008 and backfilled with bentonite chips

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB94

Dates Drilled: 12-04-08	Total Depth Drilled: 20 feet	Logged By: Natalie Williams
Drilling Contractor: S&G Drilling	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Hand augered upper 5 feet) Silty sand (SM); yellowish-brown (10YR 5/6); slightly moist; fine to medium-grained; appears medium-dense; grains subrounded
2								Trace subrounded gravel up to ~1.5 cm in diameter
4								Fine-grained
		<2.1	<2.6	<6.9	FOR-1550QB-SB91-1-5.0	0.0		
6								Fine to medium-grained
8								Silt with sand (ML); dark yellowish-brown (10YR 4/6); slightly moist; appears medium-stiff; very fine-grained
		<2.1	<2.6	<6.9	FOR-1550QB-SB91-2-10.0	0.0		
10								Silty sand (SM); yellowish-brown (10YR 5/6); slightly moist; fine-grained; appears medium-dense
12								
14								Fine to medium-grained; grains subrounded
		<2.1	<2.6	<6.9	FOR-1550QB-SB91-3-15.0	0.0		
16								Scattered nodules of clay up to 1.5 cm in diameter; ~1% trace subrounded gravel up to 1 cm in diameter
18								
20								Sandy lean clay with gravel (CL); dark yellowish brown (10YR 4/6); slightly moist; appears medium-stiff; ~15% subrounded gravel up to 2 cm diameter; low plasticity
		<2.1	<2.6	<6.9	FOR-1550QB-SB91-4-20.0	0.0		
								Boring FOR-1550QB-SB94 terminated at 20 feet bgs at 8:25 on December 4, 2008 and backfilled with bentonite chips

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP95

Date Drilled: 12-5-08	Total Depth Drilled: 15 feet	Logged By: Bonnie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								Well graded gravel with sand (GW), dark brown (10YR 3/3), moist, medium grained sand, gravel subangular, 0.5" to 0.75" diameter, appears dense (roadbase)
		<2.1	780	5300	FOR-1550QB-SB/TP95-2-1.75	0.0		Silty sand (SM), dark yellowish brown (10YR 3/4), moist, medium grained sand, trace petroleum impregnated sand clasts, brick debris, trace gravel, appears medium dense (fill)
2								Silty sand (SM), brownish yellow (10YR 6/6), moist, fine grained, appears medium dense, no odor (native)
4		<2.1	66	130	FOR-1550QB-SB/TP95-1-5.0	0.0		
6								Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine grained, trace silt, appears medium dense
8								Fine to medium grained, trace fine gravel, rounded
10		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP95-3-10.0	0.0		2" layer of well graded gravel, medium to coarse, rounded to subangular, up to 0.75" diameter
12								Silty sand (SM), light yellowish brown (10YR 6/4), moist, fine to medium grained, trace well graded gravel, fine to medium, rounded to subangular, appears medium dense
								Well graded sand (SW), very pale brown (10YR 7/3), moist, fine to coarse grained, rounded to angular, 20% well graded gravel, fine to coarse, rounded to angular, appears dense
								Silt with very fine sand (ML), yellowish brown (10YR 5/6), moist, nonplastic, noncohesive, medium consistency
14								Poorly graded sand (SP), very pale brown (10YR 7/3), moist, fine to medium grained, appears dense
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP95-4-15.0	0.0		Silty clay (CL), yellowish brown (10YR 5/4), moist, medium plasticity, appears medium to stiff
								Well graded sand (SW), very pale brown (10YR 7/3), moist, fine to coarse grained, rounded to angular, 20% well graded gravel, fine to coarse, rounded to angular, appears dense
16								Poorly graded sand (SP), very pale brown (10YR 7/3), moist, fine to medium grained, appears dense
								Boring FOR-1550QB-SB/TP95 terminated at 15 feet bgs at 12:25 on December 5, 2008. Backfilled with bentonite chips.

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

URS
2625 S. Miller Street, Suite 104
Santa Maria, CA 93455
805-349-7000

Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP96

Date Drilled: 12-5-08	Total Depth Drilled: 25 feet	Logged By: Bonnie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated, see trench log FOR-1550QB-SB/TP96) Well graded gravel with sand (GW), very dark grayish brown (10YR 3/2), moist, gravel subangular, 0.25" to 0.75" diameter, medium grained sand, appears dense, no odor (roadbase)
								Petroleum impregnated sand, very dark brown (10YR 2/2), dry to moist, medium grained, brittle, appears dense, no odor
2		<2.1	370	1000	FOR-1550QB-SB/TP96-3-2.0	0.0		
		<2.1	1100	2700	FOR-1550QB-SB/TP96-2-3.0	0.0		
								Silty sand (SM), dark brown (10YR 3/3), moist, medium grained, appears medium dense, trace gravel 0.5" to 0.75" diameter, scattered pipe and brick debris, no odor (fill)
4								Silty sand (SM), brownish yellow (10YR 6/6), moist, fine grained, appears medium dense, no odor (native)
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP96-1-5.0	0.0		
								Well graded sand with silt (SW/SM), light yellowish brown (10YR 6/4), moist, fine to coarse grained, rounded to subangular, trace fine gravel, rounded to subangular, appears loose
6								Silty sand (SM), yellowish brown (10YR 5/6), moist, fine to medium grained, trace fine to medium gravel, rounded, up to 0.5" diameter, appears medium dense
								Well graded sand (SW), very pale brown (10YR 7/4), moist, fine to coarse grained, rounded to subangular, trace well graded gravel, fine to very coarse, up to 1" diameter, subrounded, appears medium dense
8								Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine grained, trace silt, appears medium dense
								Well graded sand (SW), very pale brown (10YR 7/3), moist, fine to coarse grained, subrounded to angular, trace fine gravel, subrounded, appears medium dense
10		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP96-4-10.0	0.0		
								30% well graded gravel in SW matrix, fine to very coarse, up to 1" diameter, rounded to subangular
12								Silty clay (CL), yellowish brown (10YR 5/4), moist, medium plasticity, appears stiff
								Well graded sand (SW), very pale brown (10YR 7/3), moist, fine to coarse grained, subrounded to angular, trace fine gravel, subrounded, appears medium dense
14								Silty clay (CL), yellowish brown (10YR 5/4), moist, medium plasticity, appears stiff

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

URS
2625 S. Miller Street, Suite 104
Santa Maria, CA 93455
805-349-7000

Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP96

Date Drilled: 12-5-08	Total Depth Drilled: 25 feet	Logged By: Bonnie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
14								Well graded sand (SW), very pale brown (10YR 7/3), moist, fine to coarse grained, subrounded to angular, trace fine gravel, subrounded, appears medium dense
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP96-5-15.0	0.0		Silty clay (CL), yellowish brown (10YR 5/4), moist, medium plasticity, appears stiff
								Poorly graded sand (SP), very pale brown (10YR 7/4), moist, fine grained, appears medium dense
16								Sandy silty clay (CL), yellowish brown (10YR 5/4), moist, medium plasticity, appears stiff
								Silty sand (SM), yellowish brown (10YR 5/4), moist, fine to medium sand, appears dense
								Well graded sand (SW), very pale brown (10YR 7/4), moist, fine to coarse grained, rounded to subangular, 10% well graded gravel, fine to very coarse, up to 1" diameter, rounded to angular, appears medium dense
18								Silty Clay (CL), yellowish brown (10YR 5/4), moist, medium plasticity, appears stiff
								Silt with very fine sand (ML), yellowish brown (10YR 5/4), wet, low plasticity, appears soft
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP96-6-20.0	0.0		Silt with very fine sand (ML), light yellowish brown (10YR 6/4), moist, nonplastic, medium consistency
20								Poor recovery from 20 to 20.5 ft bgs
								Silty clay (CL), yellowish brown (10YR 5/4), moist, medium plasticity, appears stiff
								Silty sand (SM), yellowish brown (10YR 5/4), moist, fine to medium grained, trace fine to coarse gravel, rounded to subangular, appears medium dense
22								Poorly graded sand (SP), very pale brown (10YR 7/4), moist, fine grained, trace silt, appears medium dense
								Silty sand (SM), yellowish brown (10YR 5/6), moist, fine grained, appears medium dense Fine to medium grained, trace fine gravel, rounded
24								Silt with very fine sand (ML), yellowish brown (10YR 5/4), moist, nonplastic, appears soft
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP96-7-25.0	0.0		Poorly graded sand (SP), very pale brown (10YR 7/4), moist, fine to medium grained, appears medium dense
								Silty clay (CL), yellowish brown (10YR 5/4), moist, medium plasticity, appears stiff
26								Poorly graded sand (SP), very pale brown (10YR 7/4), moist, fine to medium grained, appears medium dense
								Boring FOR-1550QB-SB/TP96 terminated at 25 feet bgs at 10:55 on December 5, 2008. Backfilled with bentonite chips.
28								

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

URS
2625 S. Miller Street, Suite 104
Santa Maria, CA 93455
805-349-7000

Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP97

Date Drilled: 12-5-08	Total Depth Drilled: 15 feet	Logged By: Bonnie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								
		<2.1	360	2000	FOR-1550QB-SB/TP97-2-0.5	0.0		(Upper 5 feet previously excavated, see trench log FOR-1550QB-SB/TP97) Well graded gravel with sand (GW), very dark grayish brown (10YR 3/2), moist, gravel subangular .25" to 1.25" diameter, medium grained, appears dense (roadbase)
								Intact petroleum impregnated sand, black (10YR 2/1), dry brittle, no odor
2								Silty sand (SM), dark yellowish brown (10YR 3/4), medium grained, appears medium dense, trace gravel 0.25" to 0.5 " diameter, no odor (fill)
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP97-3-3.0	0.0		Silty sand (SM), dark yellowish brown (10YR 4/6), moist, medium grained, appears medium dense, trace smeared petroleum impregnated sand, no odor (fill)
4								
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP97-1-5.0	0.0		
								Silty sand (SM), dark yellowish brown (10YR 4/4), moist, fine to medium grained, appears medium dense
6								Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine to medium grained, appears medium dense
8								Trace coarse grained sand
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP97-4-10.0	0.0		
10								
								Silty sand (SM), dark yellowish brown (10YR 4/4), moist, fine to medium grained, appears medium dense
12								Well graded sand (SW), very pale brown (10YR 7/3), moist, fine to coarse grained, rounded to angular, 10% well graded gravel, fine to coarse, angular to subrounded, appears dense, no odor
14								
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP97-5-15.0	0.0		
								Boring FOR-1550QB-SB/TP97 terminated at 15 feet bgs at 08:50 on December 5, 2008. Backfilled with bentonite chips.
16								

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

URS
2625 S. Miller Street, Suite 104
Santa Maria, CA 93455
805-349-7000

Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP98

Date Drilled: 12-5-08	Total Depth Drilled: 20 feet	Logged By: Bonnie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated, see trench log FOR-1550QB-SB/TP98) Well graded gravel with sand (GW), very dark grayish brown (10YR 3/2), moist, medium grained, appears dense, gravel subangular, 0.5" to 1.25" diameter, no odor
1.5		<2.1	140	910	FOR-1550QB-SB/TP98-2-1.75	0.0		Intact petroleum impregnated sand, black (10YR 2/1)
2								Silty sand (SM), yellowish brown (10YR 3/4), medium grained, appears medium dense, trace gravel, no odor (fill) Dark yellowish brown (10YR 4/6), moist, fine grained (native)
4.5		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP98-1-5.0	0.0		Silty sand (SM), yellowish brown (10YR 5/4), moist, fine to medium grained, appears medium dense
8								Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine to medium grained, rounded to subangular, trace silt, appears medium dense
9.5		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP98-3-10.0	0.0		Silt with very fine sand (ML), yellowish brown (10YR 5/4), moist, nonplastic, soft to medium consistency
10								Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine to medium grained, rounded to subangular, trace silt, appears medium dense
12								Silty sand (SM), yellowish brown (10YR 5/4), moist, fine to medium grained, trace fine to coarse gravel, subrounded, appears medium dense Light yellowish brown (10YR 6/4)
13								Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine to medium grained, rounded to subangular, appears medium dense
14								Well graded sand (SW), very pale brown (10YR 7/4), moist, fine to coarse grained, rounded to subangular, trace well graded gravel, fine to coarse, up to 0.5" diameter, appears dense
14.5		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP98-4-15.0	0.0		Poor recovery from 15 to 16.5 feet bgs
16								Well graded sand (SW), light yellowish brown (10YR 6/4), moist, fine to coarse grained, rounded to subangular, trace well graded gravel, fine to very coarse, up to 1" diameter, appears medium dense
18								Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine to medium grained, rounded to subangular, appears medium dense
19.5		<2.1	4.2J	16J	FOR-1550QB-SB/TP98-5-20.0	0.0		Silty clay (CL), yellowish brown (10YR 5/4), moist, medium plasticity, appears stiff
20								Boring FOR-1550QB-SB/TP98 terminated at 20 feet bgs at 09:35 on December 5, 2008. Backfilled with bentonite chips.

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

URS
2625 S. Miller Street, Suite 104
Santa Maria, CA 93455
805-349-7000

Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP99

Date Drilled: 12-4-08	Total Depth Drilled: 50 feet	Logged By: Bonnie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated, see trench log FOR-1550QB-SB/TP99) Well graded gravel with sand (GW), dark yellowish brown (10YR 3/4), moist, medium grained sand, gravel subangular, 0.5" to 1.5" diameter, appears dense, some odor (roadbase)
		40	4200	4400	FOR-1550QB-SB/TP99-1-2.0	7.5		Intact petroleum impregnated sand, black (10YR 2/1), dry, brittle, strong odor
2								
4								Silty sand (SM), dark yellowish brown (10YR 4/6), medium grained, appears medium dense (fill)
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP99-2-5.0	0.0		Yellowish brown (10YR 5/4), moist, fine to medium grained, trace fine to medium gravel, subrounded
6								
8								Silt (ML), yellowish brown (10YR 5/4), moist, low plasticity, soft to medium consistency
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP99-3-10.0	0.0		Poorly graded sand (SP), very pale brown, (10YR 7/3), moist, fine grained, appears medium dense
10								Silt (ML), yellowish brown (10YR 5/4), moist, low plasticity, soft to medium consistency
								Poorly graded sand (SP), very pale brown, (10YR 7/3), moist, fine grained, appears medium dense
								Silt with very fine sand (ML), yellowish brown (10YR 5/4), moist, nonplastic, medium consistency
		<2.1	150	610	FOR-1550QB-SB/TP99-4-12.0	0.8		Silty sand (SM), yellowish brown (10YR 5/4), moist, fine to medium grained, appears medium dense
12								3" layer of stained soil, very dark grayish brown (10YR 3/2), moderate odor
								Poorly graded sand (SP), light yellowish brown, (10YR 6/4), moist, fine grained, trace silt, appears medium dense Fine to medium grained
14								
		<2.1	490	580	FOR-1550QB-SB/TP99-5-15.0	0.6		Well graded sand (SW), pale brown (10YR 6/3), moist, fine to coarse grained, 10% fine to medium gravel, rounded to subangular, appears medium dense, slight to moderate odor
16								Silty sand (SM), light yellowish brown (10YR 6/4), moist, fine grained, trace coarse grained, appears loose to medium dense, moderate odor
								Well graded sand (SW), very pale brown (10YR 7/3), moist, fine to coarse grained, 20% well graded gravel, fine to coarse, subrounded, up to 1" in diameter, appears medium dense, slight odor

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

URS
2625 S. Miller Street, Suite 104
Santa Maria, CA 93455
805-349-7000

Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP99

Date Drilled: 12-4-08	Total Depth Drilled: 50 feet	Logged By: Bonnie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
18								Poorly graded sand (SP), light yellowish brown, (10YR 6/4), moist, fine to medium grained, appears medium dense, slight odor
								Well graded sand (SW), very pale brown (10YR 7/3), moist, fine to coarse grained, trace gravel, fine to medium, subrounded, appears medium dense, no odor
20		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP99-6-20.0	1.1		
								Silty sand (SM), yellowish brown (10YR 5/4), moist, fine to medium grained, appears dense, no odor
22								Well graded sand (SW), very pale brown (10YR 7/4), moist, fine to coarse grained, rounded to angular, 15% well graded gravel, fine to coarse, subrounded to subangular, appears dense, no odor
								Silty clay (CL), yellowish brown (10YR 5/4), moist, medium plasticity, appears stiff
								Silty sand (SM), yellowish brown (10YR 5/4), moist, fine to medium grained, appears dense, no odor Trace fine gravel, rounded
24								Poorly graded sand (SP), light yellowish brown, (10YR 6/4), moist, fine to medium grained, appears medium dense, slight odor
		<2.1	3200	2500	FOR-1550QB-SB/TP99-7-25.0	1.1		
26								Silty sand (SM), yellowish brown (10YR 5/4), moist, fine to medium grained, 15% fine to medium gravel, rounded to subangular, appears dense, moderate odor
28								Well graded sand with silt and gravel (SW-SM), very pale brown (10YR 7/4), moist,, fine to medium grained, 25% well graded gravel, fine to coarse, subrounded, appears dense, moderate odor
								Silty clay (CL), yellowish brown (10YR 5/4), moist, medium plasticity, appears stiff, slight odor
30		<2.1	1900	1800	FOR-1550QB-SB/TP99-8-30.0	1.1		Silt with very fine sand (ML), light yellowish brown (10YR 6/4), moist, nonplastic, medium consistency, slight odor
								Well graded sand with silt and gravel (SW-SM), light yellowish brown (10YR 6/4), moist, fine to medium grained, 20% fine to coarse gravel, subrounded, appears dense, cementation from 30 to 31 ft. bgs., strong odor Very coarse gravel, 1" diameter
32								Silt (ML), brownish yellow (10YR 6/6), moist, nonplastic, appears stiff, strong odor Grades to very fine sandy silt (ML)
								Poorly graded sand (SP), light yellowish brown, (10YR 6/4), moist, fine to medium grained, appears medium dense, moderate odor
34								

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

URS
2625 S. Miller Street, Suite 104
Santa Maria, CA 93455
805-349-7000

Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP99

Date Drilled: 12-4-08	Total Depth Drilled: 50 feet	Logged By: Bonnie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
34								
		<2.1	44	43J	FOR-1550QB-SB/TP99-9-35.0	1.1		
								Very fine sand (ML), (like rock flour), very pale brown (10YR 7/3), moist, nonplastic, medium consistency, moderate odor
36								Poorly graded sand (SP), light yellowish brown, (10YR 6/4), moist, fine to medium grained, appears medium dense
38								Very fine sandy silt (ML), yellowish brown (10YR 5/4), moist, nonplastic, appears stiff
								Poorly graded sand (SP), light yellowish brown, (10YR 6/4), moist, fine to medium grained, appears medium dense
40		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP99-10-40.0	1.0		
								Very fine sandy silt (ML), yellowish brown (10YR 5/4), moist, nonplastic, appears stiff, no odor
42								
44								
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP99-11-45.0	0.4		
								Poorly graded sand (SP), light yellowish brown, (10YR 6/4), moist, fine to medium grained, trace fine gravel, rounded, appears medium dense, no odor
46								
48								
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP99-12-50.0	0.0		
50								Boring FOR-1550QB-SB/TP99 terminated at 50 feet bgs at 16:30 on December 4, 2008. Backfilled with bentonite chips.

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

URS
2625 S. Miller Street, Suite 104
Santa Maria, CA 93455
805-349-7000

Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP100

Dates Drilled: 12-9-08	Total Depth Drilled: 15 feet	Logged By: Natalie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated; see trench log FOR-1550QB-SB/TP100) Well graded gravelly sand (GW), very dark grayish brown (10YR 3/2), moist, subangular 1/2" to 3/4" diameter gravel, medium grained, appears dense, no odor (roadbase)
2		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP100-2-2.0	0.0		Silty sand (SM), dark yellowish brown (10YR 3/6), moist, medium grained, appears medium dense, no odor (fill)
4		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP100-1-5.0	0.0		Silty sand (SM), yellowish brown (10YR 5/8), moist, medium grained, appears medium dense, no odor (fill)
6								Yellowish brown (10YR 5/6); slightly moist, fine to medium grained, ~15% fines; subrounded grains
8								Lean clay (CL); dark yellowish brown (10YR 4/4); slightly moist; appears medium-stiff; low plasticity
10		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP100-3-10.0	0.0		Well graded sand (SW); yellowish brown (10YR 5/6); slightly moist; appears medium dense; ~5% gravel up to ~1 cm diameter; gravel subrounded
12								Lean clay with sand (CL); dark yellowish brown (10YR 4/4); slightly moist; appears medium stiff; low plasticity; ~20% fine to medium grained sand
14		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP100-4-15.0	0.0		~15% sand Silty sand (SM); yellowish brown (10YR 5/6); slightly moist; fine grained; appears medium dense; ~20% fines Fine to medium grained; ~15% fines
16								Boring FOR-1550QB-SB/TP100 terminated at 15 feet bgs at 8:00 on December 9, 2008 and backfilled with bentonite chips

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

URS
2625 S. Miller Street, Suite 104
Santa Maria, CA 93455
805-349-7000

Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP101

Date Drilled: 12-5-08	Total Depth Drilled: 15 feet	Logged By: Bonnie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated, see trench log FOR-1550QB-SB/TP101) Silty sand (SM), dark brown (10YR 3/3), moist, medium grained, appears medium dense to dense, trace gravel, 1/4" to 3/4" diameter, no odor (roadbase)
2		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP101-2-2.0	0.0		Light yellowish brown (10YR 6/4), moist, fine grained, appears medium dense, no odor (fill)
4		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP101-1-5.0	0.0		Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine to medium grained, rounded to subangular, appears loose to medium dense
6								Well graded sand (SW), very pale brown (10YR 7/3), moist, fine to coarse grained, rounded to subangular, 20% well graded gravels, fine to coarse, up to 1" diameter, subrounded to angular, appears medium dense
8								
10		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP101-3-10.0	0.0		Silt (ML), brownish yellow (10YR 6/6), moist, nonplastic, noncohesive, appears stiff Well graded sand (SW), very pale brown (10YR 7/3), moist, fine to coarse grained, rounded to subangular, 20% well graded gravels, fine to coarse, up to 1" diameter, subrounded to angular, appears medium dense Sandy silty clay (CL), yellowish brown (10YR 5/4), moist, medium plasticity, appears stiff Poor recovery from 10-11 feet bgs
12								Silty sand (SM), yellowish brown (10YR 5/4), moist, fine to medium grained, appears medium dense Silty clay (CL), yellowish brown (10YR 5/4), moist, medium plasticity, appears stiff Poorly graded sand (SP), very pale brown (10YR 7/4), moist, fine grained, rounded to subrounded, appears medium dense
14		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP101-4-15.0	0.0		Well graded sand (SW), light yellowish brown (10YR 6/4), moist, fine to coarse grained, rounded to subangular, 10% well graded gravel, fine to coarse, rounded to subangular, appears medium dense Boring FOR-1550QB-SB/TP101 terminated at 15 feet bgs at 13:40 on December 5, 2008. Backfilled with bentonite chips.
16								

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

URS
2625 S. Miller Street, Suite 104
Santa Maria, CA 93455
805-349-7000

Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP102

Date Drilled: 12-5-08	Total Depth Drilled: 15 feet	Logged By: Bonnie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated, see trench log FOR-1550QB-SB/TP102) Silty sand (SM), dark brown (10YR 3/3), moist, medium grained, appears medium dense to dense, trace gravel, 0.25" to 0.75" diameter, no odor (roadbase) No gravel from ~0.5 feet bgs
2		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP102-2-2.0	0.0		
4								Silty sand (SM), light yellowish brown (10YR 6/4), fine grained, appears medium dense, no odor (native)
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP102-1-5.0	0.0		Fine to medium grained, appears loose to medium dense
6								
8								Poorly graded sand (SP), light yellowish brown (10 YR 6/4), moist, fine to medium grained, rounded to subangular, trace fine gravel, rounded, appears dense
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP102-3-10.0	0.0		Well graded sand with silt (SW-SM), vey pale brown (10YR 7/4), moist, fine to coarse grained, rounded to subangular, 20% well graded gravel, fine to coarse, rounded to angular, appears dense
10								Silty clay (CL), yellowish brown (10YR 5/4), moist, medium plasticity, appears stiff Poorly graded sand (SP), light yellowish brown (10 YR 6/4), moist, fine to medium grained, rounded to subangular, trace fine gravel, rounded, appears dense
12								Fine grained, no gravel
14								Fine to medium grained, trace fine gravel, rounded
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP102-4-15.0	0.0		
16								Boring FOR-1550QB-SB/TP102 terminated at 15 feet bgs at 14:20 on December 5, 2008. Backfilled with bentonite chips.

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP103

Dates Drilled: 12-8-08	Total Depth Drilled: 15 feet	Logged By: Natalie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated, see trench log FOR-1550QB-SB/TP103) Well graded gravelly sand (GW), very dark grayish brown (10YR 3/2), moist, subangular gravel 1/2" to 3/4" in diameter, medium grained, appears dense, no odor (roadbase)
								Asphalt (AC)
2								Silty sand (SM), dark yellowish brown (10YR 4/6), moist, medium grained, appears medium dense, no odor (fill)
4	■	<2.1	<2.6	<6.9	FOR-1550QB-SB/TP103-1-5	0.0		
6								Silty sand (SM), yellowish brown (10YR 5/6), slightly moist, fine to medium grained, appears medium dense, ~15% fines, subrounded grains
8								Well graded sand with silt (SW), yellowish brown (10YR 5/6), slightly moist, appears medium dense, subrounded grains
								Silt with sand (ML), dark yellowish brown (10YR 4/6), slightly moist, appears medium stiff, non-plastic, very fine grained
10	■	<2.1	6.8J	<6.9	FOR-1550QB-SB/TP103-2-10.0	0.0		Silty sand (SM), yellowish brown (10YR 5/6), slightly moist, fine grained, appears medium dense, ~15% fines, subrounded grains
12								Fine to medium grained, ~1% subrounded gravel up to ~1.5 cm in diameter
14	■	<2.1	<2.6	<6.9	FOR-1550QB-SB/TP103-3-15.0	0.0		
16								Boring FOR-1550QB-SB/TP103 terminated at 15 feet bgs at 13:35 on December 8, 2008 and backfilled with bentonite chips

Explanation

Sand (SP), Silt, Silty Sand (SM), Clayey Silt, Clayey Sand (SC), Silty Clayey Sand, Red Rock, Roadbase, Bentonite Chips

Sand (SW), Clay, Sandy Silt (ML), Silty Clay, Sandy Clay, Organic Silt, Gravel, Petroleum Impacted

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2625 S. Miller Street, Suite 104
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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP104

Dates Drilled: 12-8-08	Total Depth Drilled: 15 feet	Logged By: Bonnie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated, see trench log FOR-1550QB-SB/TP104) Well graded gravelly sand (GW), very dark grayish brown (10YR 3/2), moist, medium grained sand, gravel subangular, 0.5" to 1.25" diameter, appears dense, no odor (roadbase)
								Asphalt, very dark brown (10 YR 2/2), intact
2								Silty sand (SM), yellowish brown (10YR 5/6), moist, fine grained, appears medium dense, no odor (fill)
4								
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP104-1-5.0	0.0		
6								Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine to medium grained, rounded to subrounded, 10% well graded gravel, fine to coarse, rounded, appears medium dense
8								
								Well graded sand (SW), light yellowish brown (10YR 6/4), moist, fine to coarse grained, rounded to subangular, trace fine to medium gravel, subrounded to rounded, appears medium dense
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP104-2-10.0	0.0		
10								Poor recovery from 10 to 11.5 feet bgs
12								Well graded sand (SW), very pale brown (10YR 7/3), moist, fine to coarse grained, rounded to subangular, trace fine rounded gravel, appears medium dense
								Silty clay (CL), yellowish brown (10YR 5/4), moist, medium plasticity, appears stiff
								Well graded sand (SW), very pale brown (10YR 7/3), moist, fine to coarse grained, sand rounded to subangular, 20% well graded gravel, fine to coarse, rounded to angular, appears medium dense
14								Silty clay (CL), yellowish brown (10YR 5/4), moist, medium plasticity, appears stiff
								Well graded sand (SW), very pale brown (10YR 7/3), moist, fine to coarse grained, sand rounded to subangular, 20% well graded gravel, fine to coarse, rounded to angular, appears medium dense
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP104-3-15.0	0.0		Trace gravel, fine to medium, rounded
16								Boring FOR-1550QB-SB/TP104 terminated at 15 feet bgs at 14:00 on December 8, 2008. Backfilled with bentonite chips.

Explanation

Sand (SP), Silt, Silty Sand (SM), Clayey Silt, Clayey Sand (SC), Silty Clayey Sand, Red Rock, Roadbase, Bentonite Chips

Sand (SW), Clay, Sandy Silt (ML), Silty Clay, Sandy Clay, Organic Silt, Gravel, Petroleum Impacted

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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP105

Dates Drilled: 12-8-08	Total Depth Drilled: 15 feet	Logged By: Natalie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated, see trench log FOR-1550QB-SB/TP105) Well graded gravelly sand (GW), very dark grayish brown (10YR 3/2), moist, subangular gravel 1/2" to 3/4" in diameter, medium grained, appears dense, no odor (roadbase)
								Asphalt (AC), very dark brown/black (10YR 2/2), intact
2								Silty sand (SM), dark grayish brown (10YR 4/2), moist, some gravel 1/4" to 3/4" diameter, no odor (fill)
								Silty sand (SM), dark yellowish brown (10YR 3/4), medium to fine grained, appears medium dense, trace gravel 1/2" to 3/4" in diameter, no odor (fill)
4		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP105-1-5	0.0		
								Yellowish brown (10YR 5/6), slightly moist, fine grained, ~20%fines
6								
								Fine to medium grained, ~15% fines, ~1% subrounded gravel up to 1 cm diameter
8								
								Lean clay with sand (CL), dark yellowish brown (10YR 4/4), slightly moist, appears medium stiff, low plasticity, ~20% fine to medium grained subrounded sand
10		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP105-3-10.0	0.0		Silty sand (SM), yellowish brown (10YR 5/6), slightly moist, fine grained, ~20% fines, appears medium dense, subrounded grains
12								Fine to medium grained, ~15% fines
								Well graded sand with silt (SW), yellowish brown (10YR 5/6), slightly moist, appears medium dense, subrounded grains
14								Silty sand (SM), yellowish brown (10YR 5/6), slightly moist, fine grained, ~20% fines, appears medium dense, subrounded grains
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP105-4-15.0	0.0		Well graded sand with silt (SW), yellowish brown (10YR 5/6), slightly moist, appears medium dense, subrounded grains, ~10% fines
16								Boring FOR-1550QB-SB/TP105 terminated at 15 feet bgs at 14:15 on December 8, 2008 and backfilled with bentonite chips

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

URS
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Santa Maria, CA 93455
805-349-7000

Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP106

Dates Drilled: 12-9-08	Total Depth Drilled: 15 feet	Logged By: Natalie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated; see trench log FOR-1550QB-SB/TP106) Well graded gravelly sand (GW), grayish brown (10YR 5/6), moist, subangular gravel 1/4" to 3/4" diameter, medium grained, appears dense, no odor (roadbase)
2		3.8J	<2.6	<6.9	FOR-1550QB-SB/TP106-2-2.0	0.0		Silty sand (SM), brown (10YR 5/3), dry to moist, medium grained, appears medium dense, trace gravel 1/4" to 1/2" in diameter, no odor (fill)
								Silty sand (SM), yellowish brown (10YR 3/6), moist, fine grained, appears medium dense, no odor (fill)
4		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP106-1-5.0	0.0		
								Silty sand (SM); yellowish brown (10YR 5/6); slightly moist; fine grained; ~15% fines; subrounded grains; appears medium dense (native)
6								
8								~1% subrounded gravel up to 1 cm diameter
10		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP106-3-10.0	0.0		Fine to medium grained sand
								Scattered nodules of clay up to ~1 cm diameter between ~11.5 and ~11.75 feet bgs
12								~1% subrounded gravel up to 2 cm diameter
14		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP106-4-15.0	0.0		Well graded sand (SW); yellowish brown (10YR 5/6); slightly moist; appears medium dense; ~3% subrounded gravel up to 1 cm diameter
16								Boring FOR-1550QB-SB/TP106 terminated at 15 feet bgs at 8:25 on December 9, 2008 and backfilled with bentonite chips

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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Santa Maria, CA 93455
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Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP107

Dates Drilled: 12-9-08	Total Depth Drilled: 15 feet	Logged By: Bonnie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP107-2-1.0	0.0		Well graded gravelly sand (GW), grayish brown (10YR 5/2), moist, gravel subangular, 1/4" to 3/4" diameter, medium grained sand, appears medium dense to dense, no odor (roadbase)
								Silty sand (SM), brown (10YR 5/3), moist, medium grained, appears medium dense, trace gravel, 0.5" to 1.25" diameter, no odor (fill)
2								
								Silty sand (SM), yellowish brown (10YR 5/6), moist, fine grained, appears medium dense, no odor (fill)
4								
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP107-1-5.0	0.0		
								Poorly graded sand (SP), pale brown (10YR 6/3), moist, fine to medium grained, rounded to subrounded, trace silt, trace fine gravel, rounded, appears medium dense
6								
8								
		<2.1	4.6J	<6.9	FOR-1550QB-SB/TP107-3-10.0	0.0		Gravel rounded to subangular, no silt
10								
								Silty clay (CL), yellowish brown (10YR 5/4), moist, medium plasticity, appears stiff
12								Rock layer (sedimentary rock)
								Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine grained, rounded to subangular, appears medium dense
								Well graded sand (SW), very pale brown (10YR 7/4), moist, fine to coarse grained, rounded to angular, 20% well graded gravel, fine to coarse, rounded to subangular, appears dense
14								
		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP107-4-15.0	0.0		Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine grained, rounded to subangular, appears medium dense
								Boring FOR-1550QB-SB/TP107 terminated at 15 ft bgs at 08:05 on December 9, 2008. Backfilled with bentonite chips.
16								

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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2625 S. Miller Street, Suite 104
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805-349-7000

Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP108

Dates Drilled: 12-8-08	Total Depth Drilled: 15 feet	Logged By: Bonnie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated, see trench log FOR-1550QB-SB/TP108) Well graded gravelly sand (GW), dark yellowish brown (10YR 3/6), moist, medium grained sand, gravel subangular, 0.25" to 1.5" diameter, appears very dense, no odor (roadbase)
2								Silty sand (SM), yellowish brown (10YR 6/6), moist, fine grained, appears medium dense, no odor (fill)
4								
	■	<2.1	<2.6	<6.9	FOR-1550QB-SB/TP108-1-5.0	0.0		
6								Poorly graded sand (SP), light yellowish brown (10YR 6/4), moist, fine grained, trace medium grained, rounded to subrounded sand, trace fine rounded gravel, trace silt, appears medium dense
8								Well graded sand (SW), light yellowish brown (10YR 6/4), moist, fine to coarse grained, rounded to subangular, appears dense
	■	<2.1	<2.6	<6.9	FOR-1550QB-SB/TP108-2-10.0	0.0		
10								Silty clay (CL), yellowish brown (10YR 5/4), moist, medium plasticity, appears stiff
								Poorly graded sand (SP), very pale brown (10YR 7/3), moist, fine to medium grained, appears medium dense
								Poor recovery from 10 to 11.5 feet bgs
12								Poorly graded sand (SP), very pale brown (10YR 7/3), moist, fine to medium grained, rounded to subrounded, appears medium dense
								Silty sand (SM), yellowish brown (10YR 5/4), moist, fine grained, appears medium dense
								Well graded sand (SW), very pale brown (10YR 7/4), moist, fine to coarse grained, sand rounded to subangular, appears medium dense
14								Poorly graded sand (SP), very pale brown (10YR 7/4), moist, fine grained, appears medium dense
	■	<2.1	<2.6	<6.9	FOR-1550QB-SB/TP108-3-15.0	0.0		
16								Boring FOR-1550QB-SB/TP108 terminated at 15 feet bgs at 13:15 on December 8, 2008. Backfilled with bentonite chips.

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

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2625 S. Miller Street, Suite 104
Santa Maria, CA 93455
805-349-7000

Project: Former Orcutt Refinery

Location: Santa Maria, California **Project Number: 28910064**

Log of Soil Boring: FOR-1550QB-SB/TP109

Dates Drilled: 12-8-08	Total Depth Drilled: 15 feet	Logged By: Natalie Williams
Drilling Contractor: OEC	Borehole Diameter: 3.25 inches	Checked By: Robert Urban, R.G. #7842 C.E.G. #2428
Drilling Method: 6610DT Geoprobe	Sampling Method: Direct Push	

Comments: Privileged and Confidential Attorney - Client Communication

Depth (Vertical Feet)	Sample Interval	TPH (Gas)	TPH (Diesel)	TPH (Motor Oil)	Sample ID	PID (ppm)	Graphic Log	LITHOLOGY DESCRIPTION
0								(Upper 5 feet previously excavated; see trench log FOR-1550QB-SB/TP109) Silty sand (SM), dark yellowish brown (10YR 3/4), moist, medium grained, appears medium dense, trace gravel no odor (fill)
								Silty sand (SM), yellowish brown (10YR 5/6), moist, medium grained, appears medium dense, no odor (fill)
4		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP109-1-5.0	0.0		Slightly moist; ~ 15% fines; fine to medium-grained; grains sub rounded
8								Scattered nodules of clay up to ~ 1.5 cm diameter
								Silt with sand (ML); dark yellowish brown (10YR 4/6); slightly moist; appears medium stiff; non-plastic; very fine grained
10		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP109-2-10.0	0.0		Silty sand (SM); yellowish brown (10YR 5/6); slightly moist; very fine grained; appears medium dense; ~ 20% fines; grains subrounded
12								Fine to medium-grained; ~15% fines
14		<2.1	<2.6	<6.9	FOR-1550QB-SB/TP109-3-15.0	0.0		
16								Boring FOR-1550QB-SB/TP109 terminated at 8:30 at 15 feet bgs on December 8, 2008 and back filled with bentonite chips

Explanation

Sand (SP) | Silt | Silty Sand (SM) | Clayey Silt | Clayey Sand (SC) | Silty Clayey Sand | Red Rock | Roadbase | Bentonite Chips

Sand (SW) | Clay | Sandy Silt (ML) | Silty Clay | Sandy Clay | Organic Silt | Gravel | Petroleum Impacted

URS
2625 S. Miller Street, Suite 104
Santa Maria, CA 93455
805-349-7000

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **Santa Maria**
PROJECT NUMBER: **211802270**

WELL NO: **GP01** PAGE 1 OF 2

DRILLING STARTED: **7/19/12** COMPLETED:
DRILLING COMPANY: **OEC**
DRILLING EQUIPMENT: **GeoProbe**
DRILLING METHOD:
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **35.0** NORTHING:
BOREHOLE DIAMETER (in): **2** EASTING:
WELL DEPTH (ft): **---** LATITUDE:
WELL CASING DIAMETER (in): LONGITUDE:
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)	Depth (feet)	Borehole Backfill
		SW	**SAND** ; light brown; loose; dry; no HC odor; some asphaltic gravels & white subangular gravel							
			Brown; medium dense; increase in medium sand							
			Dark brown; dense; trace asphaltic gravels							
5			Black; moderate HC odor			0940 GP01@5'		0.2	5	
			Medium dense							
			Strong HC odor			.		31.4		
10		ML	**SILT WITH SAND** ; gray; soft; slightly moist; no HC odor; orange mottling			0950 GP01@10'		6.4	10	
		SP	**SAND** ; yellowish tan; medium to coarse-grained; loose; slightly moist; no HC odor							
15						0950 GP01@15'		0.0	15	
		SM	**SILT AND FINE SAND** ; tan; slightly dense; slightly moist; no HC odor			.		0.0		Bentonite Backfill
		SP	**SAND AND SILT** ; tan and gray; fine-grained; moderate HC odor; mottled			1005 GP01@20'		18.9	20	
			Strong HC odor; increasing in gray staining							
			No staining; persistent HC odor; decrease in silt							
						1015		81.4		

SECOR_SLO_MW CHEVRON-ORCUTT REF.GPJ SECOR_SLO.GDT 9/5/12

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **Santa Maria**
PROJECT NUMBER: **211802270**

WELL NO: **GP01** PAGE 2 OF 2

DRILLING STARTED: **7/19/12** COMPLETED:
DRILLING COMPANY: **OEC**
DRILLING EQUIPMENT: **GeoProbe**
DRILLING METHOD:
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **35.0** NORTHING:
BOREHOLE DIAMETER (in): **2** EASTING:
WELL DEPTH (ft): **---** LATITUDE:
WELL CASING DIAMETER (in): LONGITUDE:
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)	Depth (feet)	Borehole Backfill
			Slight HC odor			GP01@25'				
			No HC odor							
			Trace coarse sand							
30			Yellowish tan; fine to medium-grained; loose; no HC odor			1025 GP01@30'		0.2	30	
35			Borehole terminated at 35 feet.			1100 GP01@35'		0.0	35	
40									40	
45									45	

SECOR_SLO_MW CHEVRON-ORCUTT REF.GPJ SECOR_SLO.GDT 9/5/12

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **Santa Maria**
PROJECT NUMBER: **211802270**

WELL NO:

GP02

Stantec

DRILLING STARTED: **7/19/12** COMPLETED:
DRILLING COMPANY: **OEC**
DRILLING EQUIPMENT: **GeoProbe**
DRILLING METHOD:
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **25.0** NORTHING:
BOREHOLE DIAMETER (in): **2** EASTING:
WELL DEPTH (ft): **---** LATITUDE:
WELL CASING DIAMETER (in): LONGITUDE:
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

Depth (feet)	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)
	SM	**SAND AND SILT WITH GRAVEL** ; light tan; medium dense; dry; no HC odor					
		Black; stiff; moderate HC odor; Asphalt & Sand					
	SP	**SAND WITH GRAVEL** ; brown; medium-grained; loose; dry; slight HC odor; gravel is asphaltic, powder with trace rounded gravel					
	SW	**SAND** ; tan; medium to coarse-grained; loose; dry; no HC odor					
5					1120 GP02@5'		0.0
		Fine to medium-grained; trace coarse sand					
10		Brown			1130 GP02@10'		0.0
		Tan; trace asphaltic gravel					
15					1150 GP02@15'		0.0
		Slightly moist; slight HC odor; increase in sand					
20		Orange tan			1200 GP02@20'		0.3
		Medium to coarse-grained; moist					
25		No HC odor			1210 GP02@25'		0.2
		Borehole terminated at 25 feet.					

Depth (feet) | Borehole Backfill

5 | 10 | 15 | 20 | 25

← Bentonite Backfill

SECOR_SLO_MW CHEVRON-ORCUTT REF.GPJ SECOR_SLO.GDT 9/5/12

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **Santa Maria**
PROJECT NUMBER: **211802270**

WELL NO:

GP03 PAGE 1 OF 1

DRILLING STARTED: **7/19/12** COMPLETED:
DRILLING COMPANY: **OEC**
DRILLING EQUIPMENT: **GeoProbe**
DRILLING METHOD:
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **25.0** NORTHING:
BOREHOLE DIAMETER (in): **2** EASTING:
WELL DEPTH (ft): **---** LATITUDE:
WELL CASING DIAMETER (in): LONGITUDE:
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)	Depth (feet)	Borehole Backfill
		SP	**SAND AND SILT** ; light tan; dry; no HC odor; some subangular gravel (base)							
			Decrease in gravel & silt (fine to medium sand)							
5						1310 GP03@5'		0.0	5	
			Increase in medium to coarse sand; slightly moist							
10						1315 GP03@10'		0.1	10	Bentonite Backfill
			Fine to medium-grained; decrease in moisture							
15						1320 GP03@15'		0.0	15	
			No HC odor; trace coarse sand							
			Slight HC odor							
20						1325 GP03@20'		0.2	20	
			Increase in moisture							
25						1335 GP03@25'		0.0	25	
			Borehole terminated at 25 feet.							

SECOR_SLO_MW CHEVRON-ORCUTT REF.GPJ SECOR_SLO.GDT 9/5/12

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **Santa Maria**
PROJECT NUMBER: **211802270**

WELL NO:

GP04 PAGE 1 OF 1

Stantec

DRILLING STARTED: **7/19/12** COMPLETED:
DRILLING COMPANY: **OEC**
DRILLING EQUIPMENT: **GeoProbe**
DRILLING METHOD:
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **25.0** NORTHING:
BOREHOLE DIAMETER (in): **2** EASTING:
WELL DEPTH (ft): **---** LATITUDE:
WELL CASING DIAMETER (in): LONGITUDE:
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)	Depth (feet)	Borehole Backfill
0		SW	**SAND WITH SILT AND GRAVEL** ; light brown; fine to medium-grained; dry; no HC odor; gravel is subangular						0	
			Incrase in larger gravel & asphaltic gravel							
			Brown							
			Sandstone gravels & cobbles; dark brown; sand with asphalt							
		SW	**SAND WITH BRICK DUST AND GRAVEL** ; pink; Brick, sand with dust & gravel; pink			1450 GP04@5'		0.0		
5									5	
			Decrease in brick; increase in medium sand							
						1500 GP04@10'		0.0		
10									10	
			Tan; fine/medium/coarse sand							Bentonite Backfill
						1505 GP04@15'		0.0		
15									15	
			Increase in coarse sand; slightly moist							
		ML	**SILT AND FINE SAND** ; olive tan; soft; moist; no HC odor			1510 GP04@20'		0.0		
20		SP	**SAND** ; tan; medium to coarse-grained; loose; slightly moist; no HC odor						20	
						1515 GP04@25'		0.0		
25			Borehole terminated at 25 feet.						25	

SECOR_SLO_MW CHEVRON-ORCUTT REF.GPJ SECOR_SLO.GDT 9/5/12

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **Santa Maria**
PROJECT NUMBER: **211802270**

WELL NO:

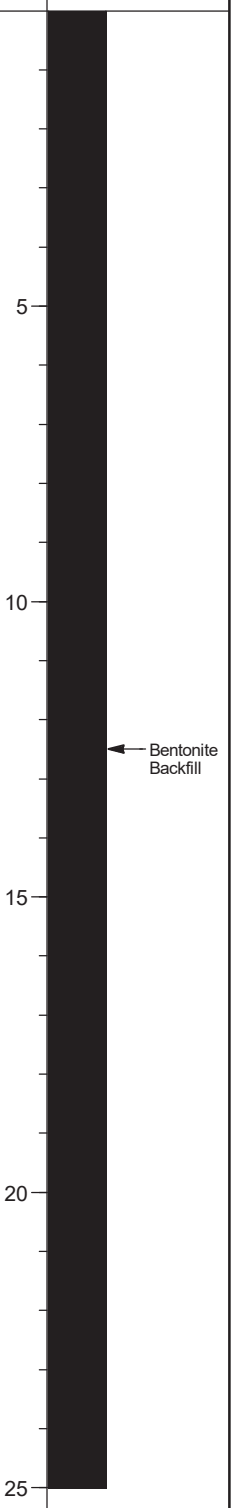
GP05 PAGE 1 OF 1

Stantec

DRILLING STARTED: **7/19/12** COMPLETED:
DRILLING COMPANY: **OEC**
DRILLING EQUIPMENT: **GeoProbe**
DRILLING METHOD:
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **25.0** NORTHING:
BOREHOLE DIAMETER (in): **2** EASTING:
WELL DEPTH (ft): **---** LATITUDE:
WELL CASING DIAMETER (in): LONGITUDE:
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

Depth (feet)	USCS	Description	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)
	SP	**SAND WITH GRAVEL** ; tan; medium dense; dry; no HC odor; subangular gravel & trace asphaltic gravel			
		Brown			
5	SW	**SAND** ; dark brown; loose; dry; slight HC odor; black sand & asphalt	1540 GP05@5'		0.1
		Brown dark brown; fine/medium/coarse-grained sand; trace asphalt			
10			1550 GP05@10'		0.2
		Brown			
	SW	Tan; fine to medium-grained; slightly moist; no HC odor			
15	ML	**SILT WITH CLAY AND FINE SAND** ; olive tan; soft; moist; no HC odor	1555 GP05@15'		0.0
	SP	**SAND** ; tan; coarse/medium/fine-grained with small gravels			
		Red brick/gray subangular gravel; no odor			
		Moist			
		Decrease in coarse sand & gravel			
20	SP	**SAND WITH SILT** ; tan; fine to medium-grained; loose; moist; no HC odor	1600 GP05@20'		0.0
	SW	Fine/medium/coarse sand			
25		Borehole terminated at 25 feet.	1610 GP05@25'		0.2



SECOR_SLO_MW CHEVRON-ORCUTT REF.GPJ SECOR_SLO.GDT 9/5/12

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **Santa Maria**
PROJECT NUMBER: **211802270**

WELL NO:

GP06 PAGE 1 OF 1

Stantec

DRILLING STARTED: **7/20/12** COMPLETED:
DRILLING COMPANY: **OEC**
DRILLING EQUIPMENT: **GeoProbe**
DRILLING METHOD:
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **25.0** NORTHING:
BOREHOLE DIAMETER (in): **2** EASTING:
WELL DEPTH (ft): **---** LATITUDE:
WELL CASING DIAMETER (in): LONGITUDE:
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)	Depth (feet)	Borehole Backfill
		SW	**SAND WITH SILT AND GRAVEL** ; light brown; medium dense; dry; no HC odor; gravel is asphaltic & subangular							
			Dark brown; increase in asphalt (hard gravel & cobbles)							
			Concrete							
5		SP	**SAND WITH SILT** ; brown; loose; dry; no HC odor			0850 GP06@5'		0.1	5	
			Tan; medium to coarse-grained; slightly moist; no HC odor; subangular gravel							
10						0855 GP06@10'		0.0	10	Bentonite Backfill
			Moist; slight HC odor							
		CL	**CLAY WITH SILT AND SAND** ; olive brown; soft; moist; moderate HC odor							
15		SP	**SAND WITH SILT** ; gray; loose; moist; moderate HC odor			0900 GP06@15'		109	15	
			Dark gray; moist; increase in medium to coarse grains; trace silt							
20						0905 GP06@20'		304	20	
			Increase in silt			0915 GP06@25'		214		
25			Borehole terminated at 25 feet.						25	

SECOR_SLO_MW CHEVRON-ORCUTT REF.GPJ SECOR_SLO.GDT 9/5/12

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **Santa Maria**
PROJECT NUMBER: **211802270**

WELL NO:

GP07 PAGE 1 OF 1

Stantec

DRILLING STARTED: **7/20/12** COMPLETED:
DRILLING COMPANY: **OEC**
DRILLING EQUIPMENT: **GeoProbe**
DRILLING METHOD:
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **25.0** NORTHING:
BOREHOLE DIAMETER (in): **2** EASTING:
WELL DEPTH (ft): **---** LATITUDE:
WELL CASING DIAMETER (in): LONGITUDE:
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)	Depth (feet)	Borehole Backfill
		SP	**SAND WITH SILT AND GRAVEL** ; light brown; medium dense; dry; no HC odor; gravel is asphaltic & subangular							
		SP	**SAND WITH SILT** ; light orange brown; fine to medium-grained; loose; dry Dark tan							
5		SW	**SAND WITH GRAVEL** ; tan; loose; slightly moist; no HC odor; fine/medium/coarse-grained sand; gravel is rounded			1035 GP07@5'		0.0	5	
			Decrease in coarse sand & gravel							
10						1040 GP07@10'		0.1	10	Bentonite Backfill
15		SW	Tan; fine to medium-grained; loose; slightly moist; no HC odor; trace coarse sand			1045 GP07@15'		0.0	15	
		SP	Dark tan; coarse-grained; loose; slightly moist to moist; no HC odor; trace medium sand							
20						1050 GP07@20'		0.1	20	
		ML	**SILT WITH FINE SAND AND CLAY** ; dark tan; slightly dense; very moist; no HC odor							
25		SP	**SAND WITH SILT** ; dark tan; coarse-grained; loose; wet; no HC odor			1100 GP07@25'		0.0	25	
			Borehole terminated at 25 feet.							

SECOR_SLO_MW CHEVRON-ORCUTT REF.GPJ SECOR_SLO.GDT 9/5/12

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **Santa Maria**
PROJECT NUMBER: **211802270**

WELL NO:

GP08 PAGE 1 OF 1

DRILLING STARTED: **7/20/12** COMPLETED:
DRILLING COMPANY: **OEC**
DRILLING EQUIPMENT: **GeoProbe**
DRILLING METHOD:
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **25.0** NORTHING:
BOREHOLE DIAMETER (in): **2** EASTING:
WELL DEPTH (ft): **---** LATITUDE:
WELL CASING DIAMETER (in): LONGITUDE:
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)	Depth (feet)	Borehole Backfill
		SP	**SAND WITH SILT AND GRAVEL** ; light brown; medium stiff; dry; no HC odor; asphaltic & subangular gravel							
		SW	**SAND WITH SILT** ; loose; fine/medium/coarse-grained sand							
5						1105 GP08@5'		0.1	5	
			Increase in medium to coarse sand; decrease in silt							
10						1110 GP08@10'		0.0	10	Bentonite Backfill
15						1115 GP08@15'		0.2	15	
			Decrease in coarse sand							
20			No HC odor			1120 GP08@20'		0.2	20	
		SP	**SAND WITH SILT AND CLAY** ; tan; coarse-grained; loose; moist; no HC odor			1130 GP08@25'		0.2	25	
25			Borehole terminated at 25 feet.							

SECOR_SLO_MW CHEVRON-ORCUTT REF.GPJ SECOR_SLO.GDT 9/5/12

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **Santa Maria**
PROJECT NUMBER: **211802270**

WELL NO: **GP09** PAGE 1 OF 1

DRILLING STARTED: **7/20/12** COMPLETED:
DRILLING COMPANY: **OEC**
DRILLING EQUIPMENT: **GeoProbe**
DRILLING METHOD:
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **25.0** NORTHING:
BOREHOLE DIAMETER (in): **2** EASTING:
WELL DEPTH (ft): **---** LATITUDE:
WELL CASING DIAMETER (in): LONGITUDE:
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)	Depth (feet)	Borehole Backfill
		SW	**SAND WITH SILT AND GRAVEL** ; light brown tan; medium dense; dry; no HC odor; asphaltic & subangular gravel							
			Increase in soft asphalt gravel; brown to dark brown							
			Hard asphalt & sand							
		SW	**SAND WITH ASPHALT** ; dark brown; medium dense; dry; slight HC odor							
5						1210 GP09@5'		0.1	5	
		SP	**SAND** ; brown; medium to coarse-grained; loose; slightly moist; no HC odor							
			Orange brown							
10						1215 GP09@10'		0.0	10	Bentonite Backfill
			Olive brown; increase in coarse to medium sand							
15		SW	**SAND WITH SILT** ; fine/medium/coarse-grained			1220 GP09@15'		0.2	15	
		SW	**SAND** ; brown; loose; slightly moist; moderate HC odor; fine/medium/coarse-grained; gray mottling							
			Gray; moist; increase in HC odor							
20						1225 GP09@20'		88.3	20	
			Dark gray; black staining							
			Very moist							
		ML	**SILT WITH SAND AND CLAY** ; dark gray; soft; very moist; strong HC odor							
25						1230 GP09@25'		321	25	
			Borehole terminated at 25 feet.							

SECOR_SLO_MW CHEVRON-ORCUTT REF.GPJ SECOR_SLO.GDT 9/5/12

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **Santa Maria**
PROJECT NUMBER: **211802270**

WELL NO:

GP10 PAGE 1 OF 1

DRILLING STARTED: **7/22/12** COMPLETED:
DRILLING COMPANY: **OEC**
DRILLING EQUIPMENT: **GeoProbe**
DRILLING METHOD:
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **25.0** NORTHING:
BOREHOLE DIAMETER (in): **2** EASTING:
WELL DEPTH (ft): **---** LATITUDE:
WELL CASING DIAMETER (in): LONGITUDE:
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)	Depth (feet)	Borehole Backfill
		SP	**SAND WITH SILT AND GRAVEL** ; light brown; medium dense; dry; no HC odor; asphaltic & subangular gravel							
			ASPHALT ; hard							
		SW	**SAND TRACE GRAVEL** ; brown; loose; slightly moist; no HC odor; fine/medium/coarse-grained							
5						0900 GP10@5'		0.0	5	
		SP	**SAND** ; dark tan; medium to coarse-grained; loose to very loose; moist; no HC odor							
10						0905 GP10@10'		0.0	10	Bentonite Backfill
			Tan; loose; no HC odor; increase in medium to fine sand							
15						0910 GP10@15'		0.0	15	
			Trace rounded gravel							
			Increase in coarse sand; decrease in fine sand; moist							
20						0915 GP10@20'		0.0	20	
25			Borehole terminated at 25 feet.			0920 GP10@25'		0.0	25	

SECOR_SLO_MW CHEVRON-ORCUTT REF.GPJ SECOR_SLO.GDT 9/5/12

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **Santa Maria**
PROJECT NUMBER: **211802270**

WELL NO: **GP11** PAGE 1 OF 2

DRILLING STARTED: **7/22/12** COMPLETED:
DRILLING COMPANY: **OEC**
DRILLING EQUIPMENT: **GeoProbe**
DRILLING METHOD:
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **45.0** NORTHING:
BOREHOLE DIAMETER (in): **2** EASTING:
WELL DEPTH (ft): **---** LATITUDE:
WELL CASING DIAMETER (in): LONGITUDE:
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)	Depth (feet)	Borehole Backfill
		SW	**SAND WITH SILT AND GRAVEL** ; light brown; medium dense; dry; gravel is asphaltic							
		SP	**SAND AND ASPHALT** ; dark brown; dense; increase in asphalt; decrease in silt; landscaping mulch (~3")							
5						0940 GP11@5'		0.0	5	
			Tan; fine to medium-grained; loose; slightly moist; no HC odor; trace coarse sand; trace small rust colored rounded gravels							
			Increase in moisture			0945 GP11@10'		0.0		
10									10	
			Tan; medium to coarse-grained; loose; moist; no HC odor							Bentonite Backfill
			Very moist			0950 GP11@15'		0.0		
15									15	
		CL	**CLAY** ; olive brown; stiff; moist; slight HC odor							
		SP	**SAND** ; rust; medium to coarse-grained; very moist to wet; slight HC odor; shale gravel & silt							
		SW	**SAND** ; gray; fine to medium-grained; medium dense; moist; moderate HC odor			0955 GP11@20'		69.4		
20									20	
			Increase in coarse sand			1000		87.7		

SECOR_SLO_MW CHEVRON-ORCUTT REF.GPJ SECOR_SLO.GDT 9/5/12

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **Santa Maria**
PROJECT NUMBER: **211802270**

WELL NO: **GP11** PAGE 2 OF 2

DRILLING STARTED: **7/22/12** COMPLETED:
DRILLING COMPANY: **OEC**
DRILLING EQUIPMENT: **GeoProbe**
DRILLING METHOD:
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **45.0** NORTHING:
BOREHOLE DIAMETER (in): **2** EASTING:
WELL DEPTH (ft): **---** LATITUDE:
WELL CASING DIAMETER (in): LONGITUDE:
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)	Depth (feet)	Borehole Backfill
						GP11@25'				
30						1015 GP11@30'		176	30	
		ML	**SILT WITH FINE SAND TRACE CLAY** ; dark gray; soft; moist to very moist; strong HC odor							
35		SW	**SAND** ; gray; fine to medium-grained; loose; moderate HC odor; trace rounded gravel, trace coarse sand			1030 GP11@35'		324	35	Bentonite Backfill
40		SP	**FINE SAND WITH SILT**			1045 GP11@40'		249	40	
45			Borehole terminated at 45 feet.			1115 GP11@45'		344	45	

SECOR_SLO_MW CHEVRON-ORCUTT REF.GPJ SECOR_SLO.GDT 9/5/12

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **Santa Maria**
PROJECT NUMBER: **211802270**

WELL NO:

GP12 PAGE 1 OF 1

Stantec

DRILLING STARTED: **7/22/12** COMPLETED:
DRILLING COMPANY: **OEC**
DRILLING EQUIPMENT: **GeoProbe**
DRILLING METHOD:
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **25.0** NORTHING:
BOREHOLE DIAMETER (in): **2** EASTING:
WELL DEPTH (ft): **---** LATITUDE:
WELL CASING DIAMETER (in): LONGITUDE:
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)	Depth (feet)	Borehole Backfill
0		SP	**SAND WITH SILT AND GRAVEL** ; brown; medium dense; no HC odor; gravel is asphaltic & subangular						0	
			Dark brown; loose; small asphaltic gravel							
			Brown							
5						1130 GP12@5'		0.1	5	
		SP	**SAND** ; tan; medium to coarse-grained; loose; slightly moist; no HC odor							
10						1145 GP12@10'		0.0	10	Bentonite Backfill
			Very moist; increase in coarse sand & gravel							
15						1150 GP12@15'		0.0	15	
			Medium to coarse-grained; moist							
20						1200 GP12@20'		0.0	20	
						1215 GP12@25'		0.1	25	
25			Borehole terminated at 25 feet.							

SECOR_SLO_MW CHEVRON-ORCUTT REF.GPJ SECOR_SLO.GDT 9/5/12

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **Santa Maria**
PROJECT NUMBER: **211802270**

WELL NO:

GP13 PAGE 1 OF 1

DRILLING STARTED: **7/22/12** COMPLETED:
DRILLING COMPANY: **OEC**
DRILLING EQUIPMENT: **GeoProbe**
DRILLING METHOD:
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **25.0** NORTHING:
BOREHOLE DIAMETER (in): **2** EASTING:
WELL DEPTH (ft): **---** LATITUDE:
WELL CASING DIAMETER (in): LONGITUDE:
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)	Depth (feet)	Borehole Backfill
		SP	**SAND WITH SILT AND GRAVEL** ; tan; medium dense; dry; no HC odor; gravel is asphaltic							
			Dark brown black; increase in asphalt (hard)							
			Dark brown; dense; dry; slight HC odor							
5						1315 GP13@5'		0.2	5	
			Brown; decrease in asphalt; increase in coarse sand; decrease to no HC odor							
10						1320 GP13@10'		0.1	10	
		SP	**SAND WITH GRAVEL** ; dark tan; medium to coarse-grained; loose; moist; no HC odor; gravel is small							Bentonite Backfill
15						1325 GP13@15'		0.0	15	
		CL	**CLAY WITH FINE SAND** ; tan; soft; moist; no HC odor							
		SP	**SAND** ; tan; medium to coarse-grained; loose; slightly moist; no HC odor							
		CL	**CLAY WITH FINE SAND** ; tan; soft; moist; no HC odor							
		SP	**SAND** ; tan; medium to coarse-grained; loose; slightly moist; no HC odor							
20						1330 GP13@20'		0.0	20	
						1335 GP13@25'		0.2		
25			Borehole terminated at 25 feet.						25	

SECOR_SLO_MW CHEVRON-ORCUTT REF.GPJ SECOR_SLO.GDT 9/5/12

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **Santa Maria**
PROJECT NUMBER: **211802270**

WELL NO:

GP14 PAGE 1 OF 1

DRILLING STARTED: **7/22/12** COMPLETED:
DRILLING COMPANY: **OEC**
DRILLING EQUIPMENT: **GeoProbe**
DRILLING METHOD:
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **20.0** NORTHING:
BOREHOLE DIAMETER (in): **2** EASTING:
WELL DEPTH (ft): **---** LATITUDE:
WELL CASING DIAMETER (in): LONGITUDE:
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

Depth (feet)	USCS	Description	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)
0	SP	**SAND AND SILT WITH GRAVEL** ; light brown; very dense; dry; no HC odor			
		Dark brown; decrease in silt; asphalt & asphalt gravels			
		Brown; slightly moist; decrease in asphalt			
5	SP	**SAND** ; brown; fine to medium-grained; loose; slightly moist; no HC odor	1400 GP14@5'		0.0
10			1405 GP14@10'		0.0
	CL	**CLAY WITH SILT** ; olive tan; soft; moist; no HC odor			
15	SP	**SAND** ; orangeish brown; medium to coarse-grained; medium dense; slightly moist; no HC odor	1410 GP14@15'		0.0
	ML	**SILT WITH FINE SAND** ; gray; soft; moist; moderate HC odor			
	SP	**SAND** ; gray; medium to coarse-grained; loose; very moist; moderate HC odor	1415 GP14@20'		278
20		Borehole terminated at 20 feet.			
25					

Borehole Backfill: Bentonite Backfill

SECOR_SLO_MW CHEVRON-ORCUTT REF.GPJ SECOR_SLO.GDT 9/5/12

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **Santa Maria**
PROJECT NUMBER: **211802270**

WELL NO:

GP15 PAGE 1 OF 1

Stantec

DRILLING STARTED: **7/22/12** COMPLETED:
DRILLING COMPANY: **OEC**
DRILLING EQUIPMENT: **GeoProbe**
DRILLING METHOD:
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **15.0** NORTHING:
BOREHOLE DIAMETER (in): **2** EASTING:
WELL DEPTH (ft): **---** LATITUDE:
WELL CASING DIAMETER (in): LONGITUDE:
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)	Depth (feet)	Borehole Backfill
			Geoprobed with out sampling							
			(Former trench)							
5									5	
										Bentonite Backfill
10		SW	**SAND** ; tan; loose; slightly moist; slight HC odor; fine/medium/coarse-grained						10	
		SW	Gray; moist; strong HC odor							
15						1450			15	
			Borehole terminated at 15 feet.							
20									20	
25									25	

SECOR_SLO_MW CHEVRON-ORCUTT REF.GPJ SECOR_SLO.GDT 9/5/12

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **Santa Maria**
PROJECT NUMBER: **211802270**

WELL NO:

GP28 PAGE 1 OF 1

Stantec

DRILLING STARTED: **4/10/12** COMPLETED:
DRILLING COMPANY: **OEC**
DRILLING EQUIPMENT: **GeoProbe**
DRILLING METHOD:
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **25.0** NORTHING:
BOREHOLE DIAMETER (in): **2** EASTING:
WELL DEPTH (ft): **---** LATITUDE:
WELL CASING DIAMETER (in): LONGITUDE:
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)	Depth (feet)	Borehole Backfill
		SP	**SAND WITH SILT AND GRAVEL** ; light brown; loose; dry; no HC odor							
			Dark brown; medium dense; asphaltic gravel / shards							
			Black; soft; moist; asphalt			0830 GP28@2'		26.3		
						0840 GP28@5'		30.3		
5			Decrease in asphaltic stained material						5	
		SP	Light brown; medium to coarse-grained; loose; moist; no HC odor							
			Increase in coarse sand; increase in medium sand			0845 GP28@10'		0.1		
10			Decrease in coarse sand, increase in fine to medium sand						10	
		CL	**CLAY WITH SILT** ; tan; soft; moist; no HC odor							Bentonite Backfill
		SP	**SAND** ; tan; medium to coarse-grained; loose; moist; no HC odor			0850 GP28@15'		0.0		
15									15	
			Light tan; fine to medium-grained; slightly moist; no HC odor							
						0900 GP28@20'		0.3		
20									20	
			No HC odor			0915 GP28@15'		0.0		
25			Borehole terminated at 25 feet.						25	

SECOR_SLO_MW CHEVRON-ORCUTT REF.GPJ SECOR_SLO.GDT 9/5/12

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **Santa Maria**
PROJECT NUMBER: **211802270**

WELL NO:

GP29 PAGE 1 OF 1

Stantec

DRILLING STARTED: **4/10/12** COMPLETED:
DRILLING COMPANY: **OEC**
DRILLING EQUIPMENT: **GeoProbe**
DRILLING METHOD:
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **30.0** NORTHING:
BOREHOLE DIAMETER (in): **2** EASTING:
WELL DEPTH (ft): **---** LATITUDE:
WELL CASING DIAMETER (in): LONGITUDE:
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)	Depth (feet)	Borehole Backfill
		SP	**ASPHALT** ; black; hard; dry; no HC odor; 2" thick							
			SAND WITH ASPHALT ; dark brown and black; medium dense; slight HC odor; crude/tar							
5						0945 GP29@5'		2.6	5	
			Slightly moist; increase in tar/crude							
10			Black; slight HC odor			0950 GP29@10'		3.4	10	
		SP	**SAND** ; tan; fine to medium-grained; loose; slightly moist; no HC odor; small gravel							
15			Decrease in gravel			1000 GP29@15'		0.2	15	Bentonite Backfill
20			Decrease in fine sand, increase in coarse sand			1010 GP29@20'		0.0	20	
			SAND ; tan; fine to medium-grained; loose; slightly moist; no HC odor							
25			Trace coarse sand			1020 GP29@25'		0.0	25	
			Fractured light tan / white sandstone No sandstone							
			Increase in medium to coarse sand; light brown; no HC odor			1030 GP29@30'		0.0		
30			Borehole terminated at 30 feet.						30	

SECOR_SLO_MW CHEVRON-ORCUTT REF.GPJ SECOR_SLO.GDT 9/5/12

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **Santa Maria**
PROJECT NUMBER: **211802270**

WELL NO:

GP30 PAGE 1 OF 1

DRILLING STARTED: **4/10/12** COMPLETED:
DRILLING COMPANY: **OEC**
DRILLING EQUIPMENT: **GeoProbe**
DRILLING METHOD:
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **25.0** NORTHING:
BOREHOLE DIAMETER (in): **2** EASTING:
WELL DEPTH (ft): **---** LATITUDE:
WELL CASING DIAMETER (in): LONGITUDE:
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)	Depth (feet)	Borehole Backfill
0		SP	**SAND WITH SILT** ; light brown; medium dense; dry; no HC odor; and asphaltic gravel/shards &subangular gravel						0	
		SP	Dark brown black; loose; slightly moist; slight HC odor; sand with tar/crude			1300 GP30@5'		10.7		
5									5	
		SP	**SAND** ; tan; medium-grained; loose; dry to slightly moist; no HC odor; trace small asphaltic gravels			1315 GP30@10'		0.6		
10									10	
			Decrease in asphaltic gravels							
			Trace clay & fine sand			1330 GP30@15'		0.0		
15									15	
		CL	**CLAY WITH SILT** ; tan; fine-grained; soft; moist; no HC odor			1340 GP30@20'		0.0		
20									20	
		SP	**SAND** ; tan; medium-grained; loose; slightly moist; no HC odor; trace fine sand and silt			1345 GP30@25'		0.0		
25			Borehole terminated at 25 feet.						25	

Bentonite Backfill

SECOR_SLO_MW CHEVRON-ORCUTT REF.GPJ SECOR_SLO.GDT 9/5/12

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **Santa Maria**
PROJECT NUMBER: **211802270**

WELL NO:

GP31 PAGE 1 OF 1

DRILLING STARTED: **4/10/12** COMPLETED:
DRILLING COMPANY: **OEC**
DRILLING EQUIPMENT: **GeoProbe**
DRILLING METHOD:
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **25.0** NORTHING:
BOREHOLE DIAMETER (in): **2** EASTING:
WELL DEPTH (ft): **---** LATITUDE:
WELL CASING DIAMETER (in): LONGITUDE:
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)	Depth (feet)	Borehole Backfill
0		SP	**SAND WITH SILT** ; light brown; fine to medium-grained; loose; dry; no HC odor; trace gravel						0	
			Dark tan; slightly moist; decrease in silt and fine sand			1350 GP31@5'		0.0		
5									5	
		ML	**SILT WITH SAND** ; dark tan; fine to medium-grained; soft; moist; no HC odor			1400 GP31@10'		0.0		
10		SP	**SAND** ; dark tan; fine to medium-grained; loose; slightly moist; no HC odor; trace silt						10	
			Tan; loose; slightly moist; no HC odor; decrease in silt			1410 GP31@15'		0.0		Bentonite Backfill
15									15	
		SP	**SAND WITH SILT** ; tan; fine to medium-grained; loose; slightly moist; no HC odor; trace coarse sand			1415 GP31@20'		0.0		
20			Increase in silt						20	
			Decrease in silt; fine, medium, coarse-grained sand			1420 GP31@25'		0.0		
25			Borehole terminated at 25 feet.						25	

SECOR_SLO_MW CHEVRON-ORCUTT REF.GPJ SECOR_SLO.GDT 9/5/12

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **Santa Maria**
PROJECT NUMBER: **211802270**

WELL NO:

GP32 PAGE 1 OF 1

Stantec

DRILLING STARTED: **4/10/12** COMPLETED:
DRILLING COMPANY: **OEC**
DRILLING EQUIPMENT: **GeoProbe**
DRILLING METHOD:
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **25.0** NORTHING:
BOREHOLE DIAMETER (in): **2** EASTING:
WELL DEPTH (ft): **---** LATITUDE:
WELL CASING DIAMETER (in): LONGITUDE:
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)	Depth (feet)	Borehole Backfill
			ASPHALT ; black; dense; dry; slight HC odor; 2" thick							
		SP	**SAND WITH SILT AND ASPHALT** ; dark brown; fine to medium-grained; loose; slightly moist; slight HC odor; oily sands present							
			Light brown; fine to medium-grained; loose; dry; moderate odor			1515 GP32@5'		0.9		
5			Reddish tan						5	
			Tan; no HC odor							
						1520 GP32@10'		0.0		
10			Increase in medium-grained sand; trace coarse sand						10	Bentonite Backfill
						1530 GP32@15'		0.0		
15			Tan; fine to medium-grained; loose; slightly moist; no HC odor						15	
			No HC odor			1540 GP32@20'		0.0		
20									20	
			No HC odor			1545 GP32@25'		0.0		
25			Borehole terminated at 25 feet.						25	

SECOR_SLO_MW CHEVRON-ORCUTT REF.GPJ SECOR_SLO.GDT 9/5/12

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **Santa Maria**
PROJECT NUMBER: **211802270**

WELL NO:

GP33 PAGE 1 OF 1

Stantec

DRILLING STARTED: **4/10/12** COMPLETED:
DRILLING COMPANY: **OEC**
DRILLING EQUIPMENT: **GeoProbe**
DRILLING METHOD:
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **25.0** NORTHING:
BOREHOLE DIAMETER (in): **2** EASTING:
WELL DEPTH (ft): **---** LATITUDE:
WELL CASING DIAMETER (in): LONGITUDE:
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)	Depth (feet)	Borehole Backfill
0		SP	**SAND WITH SILT AND GRAVEL** ; light brown; loose; dry; no HC odor						0	
			Brown dark brown; moist; no HC odor; trace small gravel, decrease in silt			1430 GP33@5'		0.2		
5									5	
		CL	**CLAY WITH SILT** ; tan; soft; moist; no HC odor; trace fine sand			1440 GP33@10'		0.0		
10		SP	**SAND** ; tan; fine to medium-grained; loose; slightly moist; no HC odor						10	Bentonite Backfill
			Trace coarse sand & small rounded gravel			1445 GP33@15'		0.0		
15			Decrease in coarse sand & gravel						15	
		ML	**SILT WITH SAND** ; tan; fine-grained; soft; moist; no HC odor			1450 GP33@20'		0.0		
20		SP	**SAND** ; tan; fine to medium-grained; loose; slightly moist; no HC odor; trace silt						20	
			Medium to coarse-grained; trace fine sand			1500 GP33@25'		0.0		
25			Borehole terminated at 25 feet.						25	

SECOR_SLO_MW CHEVRON-ORCUTT REF.GPJ SECOR_SLO.GDT 9/5/12

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **1550 W. Stowell Road, Santa Maria**
PROJECT NUMBER:

BOREHOLE NO:
HA-31 PAGE 1 OF 1

DRILLING STARTED: **1/28/13** COMPLETED: **1/28/13**
DRILLING COMPANY:
DRILLING EQUIPMENT: **Hand Auger**
DRILLING METHOD:
SAMPLING EQUIPMENT: **Grab Sample**

BOREHOLE DEPTH (ft): **2.0**
BOREHOLE DIAMETER (in):
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**
LOGGED BY: **SS/BL**

NORTHING:
EASTING:
LATITUDE:
LONGITUDE:
CHECKED BY:

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Headspace PID (ppm)	Depth (feet)	Borehole Backfill
		SP	**SAND WITH LITTLE GRAVEL** ; Dark brown; moist; poorly graded; no HC odor						
			Light brown			1035 HA-31-2'	0.0		
			Asphaltic fragments Borehole terminated at 2 feet.						
5								5	

SECOR_SLO_GEOPROBE HA31-64.GPJ SECOR_SLO.GDT 2/19/13

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **1550 W. Stowell Road, Santa Maria**
PROJECT NUMBER:

BOREHOLE NO:

HA-32

Stantec

DRILLING STARTED: **1/28/13** COMPLETED: **1/28/13**
DRILLING COMPANY:
DRILLING EQUIPMENT: **Hand Auger**
DRILLING METHOD:
SAMPLING EQUIPMENT: **Grab Sample**

BOREHOLE DEPTH (ft): **2.0**
BOREHOLE DIAMETER (in):
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**
LOGGED BY: **SS/BL**

NORTHING:
EASTING:
LATITUDE:
LONGITUDE:
CHECKED BY:

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Headspace PID (ppm)	Depth (feet)	Borehole Backfill
		SP	**SAND WITH LITTLE SILT** ; Brown; fine-grained sand; loose; dry; no HC odor Very dark brown						
		SP	**SAND WITH SILT** ; Moist; 5% gravel up to 1/2"; slight HC odor			1100 HA-32-2'	0.0		
			Borehole terminated at 2 feet.						
5								5	

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **1550 W. Stowell Road, Santa Maria**
PROJECT NUMBER:

BOREHOLE NO:
HA-33 PAGE 1 OF 1

DRILLING STARTED: **1/28/13** COMPLETED: **1/28/13**
DRILLING COMPANY:
DRILLING EQUIPMENT: **Hand Auger**
DRILLING METHOD:
SAMPLING EQUIPMENT: **Grab Sample**

BOREHOLE DEPTH (ft): **2.0**
BOREHOLE DIAMETER (in):
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**
LOGGED BY: **SS/BL**

NORTHING:
EASTING:
LATITUDE:
LONGITUDE:
CHECKED BY:

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Headspace PID (ppm)	Depth (feet)	Borehole Backfill
		GP	**GRAVEL WITH SAND** ; Brown; road base; loose; dry; no HC odor						
		SP	**SAND WITH LITTLE GRAVEL** ; Moist			1115 HA-33-2'	0.0		
			Borehole terminated at 2 feet.						
5								5	

SECOR_SLO_GEOPROBE_HA31-64.GPJ SECOR_SLO.GDT 2/19/13

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **1550 W. Stowell Road, Santa Maria**
PROJECT NUMBER:

BOREHOLE NO:
HA-34 PAGE 1 OF 1

DRILLING STARTED: **1/28/13** COMPLETED: **1/28/13**
DRILLING COMPANY:
DRILLING EQUIPMENT: **Hand Auger**
DRILLING METHOD:
SAMPLING EQUIPMENT: **Grab Sample**

BOREHOLE DEPTH (ft): **2.0**
BOREHOLE DIAMETER (in):
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**
LOGGED BY: **SS/BL**

NORTHING:
EASTING:
LATITUDE:
LONGITUDE:
CHECKED BY:

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Headspace PID (ppm)	Depth (feet)	Borehole Backfill
		SP	**SAND WITH TRACE SILT** ; Brown; moist; loose; no cementation; no HC odor			1130 HA-34-2'			
			Borehole terminated at 2 feet.						
5								5	

SECOR_SLO_GEOPROBE HA31-64.GPJ SECOR_SLO.GDT 2/19/13

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **1550 W. Stowell Road, Santa Maria**
PROJECT NUMBER:

BOREHOLE NO:
HA-35 PAGE 1 OF 1

DRILLING STARTED: **1/28/13** COMPLETED: **1/28/13**
DRILLING COMPANY:
DRILLING EQUIPMENT: **Hand Auger**
DRILLING METHOD:
SAMPLING EQUIPMENT: **Grab Sample**

BOREHOLE DEPTH (ft): **2.0**
BOREHOLE DIAMETER (in):
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**
LOGGED BY: **SS/BL**

NORTHING:
EASTING:
LATITUDE:
LONGITUDE:
CHECKED BY:

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Headspace PID (ppm)	Depth (feet)	Borehole Backfill
		SP	**SAND WITH GRAVEL** ; Dark brown to brown; loose; asphaltic fragments; moist; no HC odor			HA-35-2'	0.7		
			Borehole terminated at 2 feet.						
5								5	

SECOR_SLO_GEOPROBE HA31-64.GPJ SECOR_SLO.GDT 2/19/13

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **1550 W. Stowell Road, Santa Maria**
PROJECT NUMBER:

BOREHOLE NO:
HA-36 PAGE 1 OF 1

DRILLING STARTED: **1/28/13** COMPLETED: **1/28/13**
DRILLING COMPANY:
DRILLING EQUIPMENT: **Hand Auger**
DRILLING METHOD:
SAMPLING EQUIPMENT: **Grab Sample**

BOREHOLE DEPTH (ft): **2.0**
BOREHOLE DIAMETER (in):
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**
LOGGED BY: **SS/BL**

NORTHING:
EASTING:
LATITUDE:
LONGITUDE:
CHECKED BY:

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Headspace PID (ppm)	Depth (feet)	Borehole Backfill
		SP	**SAND WITH LITTLE SILT** ; Dark brown; loose; fine-grained sand; slightly moist; no HC odor Brown; moist; <5% round gravel ~1/2"			1200 HA-36-2'			
			Borehole terminated at 2 feet.						
5								5	

SECOR_SLO_GEOPROBE HA31-64.GPJ SECOR_SLO.GDT 2/19/13

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **1550 W. Stowell Road, Santa Maria**
PROJECT NUMBER:

BOREHOLE NO:
HA-37 PAGE 1 OF 1

DRILLING STARTED: **1/28/13** COMPLETED: **1/28/13**
DRILLING COMPANY:
DRILLING EQUIPMENT: **Hand Auger**
DRILLING METHOD:
SAMPLING EQUIPMENT: **Grab Sample**

BOREHOLE DEPTH (ft): **5.0**
BOREHOLE DIAMETER (in):
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**
LOGGED BY: **SS/BL**

NORTHING:
EASTING:
LATITUDE:
LONGITUDE:
CHECKED BY:

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Headspace PID (ppm)	Depth (feet)	Borehole Backfill
		SW	**SAND WITH GRAVEL** ; Brown; fine to coarse-grained sand; moist; loose; no HC odor						
			Decrease in gravel; no HC odor						
						1230 HA-37-5'	0.0		
5			Borehole terminated at 5 feet.					5	

SECOR_SLO_GEOPROBE HA31-64.GPJ SECOR_SLO.GDT 2/19/13

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **1550 W. Stowell Road, Santa Maria**
PROJECT NUMBER:

BOREHOLE NO:
HA-38 PAGE 1 OF 1

DRILLING STARTED: **1/28/13** COMPLETED: **1/28/13**
DRILLING COMPANY:
DRILLING EQUIPMENT: **Hand Auger**
DRILLING METHOD:
SAMPLING EQUIPMENT: **Grab Sample**

BOREHOLE DEPTH (ft): **5.0**
BOREHOLE DIAMETER (in):
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**
LOGGED BY: **SS/BL**

NORTHING:
EASTING:
LATITUDE:
LONGITUDE:
CHECKED BY:

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Headspace PID (ppm)	Depth (feet)	Borehole Backfill
		SP	**SAND WITH LITTLE SILT** ; Brown; predominately fine-grained with little medium and coarse-grained sand; moist; no HC odor						
			Gravel; pieces of brick and broken concrete						
			Asphaltic fragments/hardened tar; gravel up to 1"; no HC odor			1330 HA-38-2'	0.0		
			Dark brown; slight HC odor						
			Pieces of semi-hardened tar (malleable)						
						1345 HA-38-5'	0.0		
5			Borehole terminated at 5 feet.					5	

SECOR_SLO_GEOPROBE HA31-64.GPJ SECOR_SLO.GDT 2/19/13

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **1550 W. Stowell Road, Santa Maria**
PROJECT NUMBER:

BOREHOLE NO:
HA-39 PAGE 1 OF 1

DRILLING STARTED: **1/28/13** COMPLETED: **1/28/13**
DRILLING COMPANY:
DRILLING EQUIPMENT: **Hand Auger**
DRILLING METHOD:
SAMPLING EQUIPMENT: **Grab Sample**

BOREHOLE DEPTH (ft): **5.0**
BOREHOLE DIAMETER (in):
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**
LOGGED BY: **SS/BL**

NORTHING:
EASTING:
LATITUDE:
LONGITUDE:
CHECKED BY:

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Headspace PID (ppm)	Depth (feet)	Borehole Backfill
		SP	**SAND WITH LITTLE GRAVEL** ; Brown; loose; moist; no HC odor Asphaltic fragments			1400 HA-39-2'	0.0		
		SP	**SAND WITH GRAVEL AND LITTLE SILT** ; Dark brown; moist; no HC odor Brown			1420 HA-39-5'	0.0		
5			Borehole terminated at 5 feet.					5	

SECOR_SLO_GEOPROBE HA31-64.GPJ SECOR_SLO.GDT 2/19/13

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **1550 W. Stowell Road, Santa Maria**
PROJECT NUMBER:

BOREHOLE NO:
HA-40 PAGE 1 OF 1

DRILLING STARTED: **1/28/13** COMPLETED: **1/28/13**
DRILLING COMPANY:
DRILLING EQUIPMENT: **Hand Auger**
DRILLING METHOD:
SAMPLING EQUIPMENT: **Grab Sample**

BOREHOLE DEPTH (ft): **5.0**
BOREHOLE DIAMETER (in):
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**
LOGGED BY: **SS/BL**

NORTHING:
EASTING:
LATITUDE:
LONGITUDE:
CHECKED BY:

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Headspace PID (ppm)	Depth (feet)	Borehole Backfill
		GP	**GRAVEL** ; Brown; dry; no HC odor						
		SP	**SAND WITH TRACE SILT** ; Brown; fine-grained sand; moist; loose; 5% round gravel ~1/2"; no HC odor						
						1445 HA-40-2'	0.0		
						1450 HA-40-5'			
5			Borehole terminated at 5 feet.					5	

SECOR_SLO_GEOPROBE HA31-64.GPJ SECOR_SLO.GDT 2/19/13

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **1550 W. Stowell Road, Santa Maria**
PROJECT NUMBER:

BOREHOLE NO:
HA-41 PAGE 1 OF 1

DRILLING STARTED: **1/28/13** COMPLETED: **1/28/13**
DRILLING COMPANY:
DRILLING EQUIPMENT: **Hand Auger**
DRILLING METHOD:
SAMPLING EQUIPMENT: **Grab Sample**

BOREHOLE DEPTH (ft): **5.0**
BOREHOLE DIAMETER (in):
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**
LOGGED BY: **SS/BL**

NORTHING:
EASTING:
LATITUDE:
LONGITUDE:
CHECKED BY:

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Headspace PID (ppm)	Depth (feet)	Borehole Backfill
		SP	**SAND WITH GRAVEL** ; Brown; moist; loose; asphaltic fragments; no HC odor						
						1500 HA-41-2'	0.3		
			Black; HC odor						
			Strong HC odor						
						1530 HA-41-5'	3.6		
5			Borehole terminated at 5 feet.					5	

SECOR_SLO_GEOPROBE HA31-64.GPJ SECOR_SLO.GDT 2/19/13

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **1550 W. Stowell Road, Santa Maria**
PROJECT NUMBER:

BOREHOLE NO:
HA-42 PAGE 1 OF 1

Stantec

DRILLING STARTED: **1/29/13** COMPLETED: **1/29/13**
DRILLING COMPANY:
DRILLING EQUIPMENT: **Hand Auger**
DRILLING METHOD:
SAMPLING EQUIPMENT: **Grab Sample**

BOREHOLE DEPTH (ft): **5.0**
BOREHOLE DIAMETER (in):
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**
LOGGED BY: **SS/BL**

NORTHING:
EASTING:
LATITUDE:
LONGITUDE:
CHECKED BY:

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Headspace PID (ppm)	Depth (feet)	Borehole Backfill
		SP	**SAND WITH SOME SILT** ; Brown; moist; loose; 5% gravel up to 1/2"; no HC odor						
						815 HA-42-2'			
			Asphaltic fragments						
			Very dark gray to black; strong HC odor						
						830 HA-42-5'	5.3		
5			Slightly cohesive; tar-like fragments Borehole terminated at 5 feet.					5	

SECOR_SLO_GEOPROBE HA31-64.GPJ SECOR_SLO.GDT 2/19/13

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **1550 W. Stowell Road, Santa Maria**
PROJECT NUMBER:

BOREHOLE NO:
HA-43 PAGE 1 OF 1

DRILLING STARTED: **1/29/13** COMPLETED: **1/29/13**
DRILLING COMPANY:
DRILLING EQUIPMENT: **Hand Auger**
DRILLING METHOD:
SAMPLING EQUIPMENT: **Grab Sample**

BOREHOLE DEPTH (ft): **5.0**
BOREHOLE DIAMETER (in):
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**
LOGGED BY: **SS/BL**

NORTHING:
EASTING:
LATITUDE:
LONGITUDE:
CHECKED BY:

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Headspace PID (ppm)	Depth (feet)	Borehole Backfill
		SP	**SAND WITH GRAVEL AND SOME SILT** ; Brown; loose; dry; no HC odor						
			Brick and asphaltic fragments			900 HA-43-2'	0.3		
			White deposits						
		SP	**SAND WITH SOME SILT** ; Black; fine/medium-grained sand; loose; moist; strong HC odor						
						930 HA-43-5'	0.9		
5			Borehole terminated at 5 feet.					5	

SECOR_SLO_GEOPROBE HA31-64.GPJ SECOR_SLO.GDT 2/19/13

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **1550 W. Stowell Road, Santa Maria**
PROJECT NUMBER:

BOREHOLE NO:
HA-44 PAGE 1 OF 1

Stantec

DRILLING STARTED: **1/29/13** COMPLETED: **1/29/13**
DRILLING COMPANY:
DRILLING EQUIPMENT: **Hand Auger**
DRILLING METHOD:
SAMPLING EQUIPMENT: **Grab Sample**

BOREHOLE DEPTH (ft): **5.0**
BOREHOLE DIAMETER (in):
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**
LOGGED BY: **SS/BL**

NORTHING:
EASTING:
LATITUDE:
LONGITUDE:
CHECKED BY:

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Headspace PID (ppm)	Depth (feet)	Borehole Backfill
		SP	**SAND WITH LITTLE SILT AND GRAVEL** ; Brown; fine-grained sand; slightly moist; loose; no HC odor						
			Gravel up to 3/4" diameter			1000 HA-44-2'			
			Very dark brown; moist						
		SP	**SAND WITH TRACE SILT AND TRACE GRAVEL** ; Light brown; no HC odor						
						1005 HA-44-5'			
5			Borehole terminated at 5 feet.					5	

SECOR_SLO_GEOPROBE HA31-64.GPJ SECOR_SLO.GDT 2/19/13

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **1550 W. Stowell Road, Santa Maria**
PROJECT NUMBER:

BOREHOLE NO:
HA-45 PAGE 1 OF 1

DRILLING STARTED: **1/29/13** COMPLETED: **1/29/13**
DRILLING COMPANY:
DRILLING EQUIPMENT: **Hand Auger**
DRILLING METHOD:
SAMPLING EQUIPMENT: **Grab Sample**

BOREHOLE DEPTH (ft): **5.0**
BOREHOLE DIAMETER (in):
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**
LOGGED BY: **SS/BL**

NORTHING:
EASTING:
LATITUDE:
LONGITUDE:
CHECKED BY:

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Headspace PID (ppm)	Depth (feet)	Borehole Backfill
		SP	**SAND WITH TRACE SILT AND TRACE GRAVEL** ; Brown; loose; moist; no cementation; no HC odor						
			Asphaltic fragments; HC odor			1310 HA-45-2'			
5			Borehole terminated at 5 feet.			1315 HA-45-5'		5	

SECOR_SLO_GEOPROBE HA31-64.GPJ SECOR_SLO.GDT 2/19/13

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **1550 W. Stowell Road, Santa Maria**
PROJECT NUMBER:

BOREHOLE NO:
HA-46 PAGE 1 OF 1

DRILLING STARTED: **1/29/13** COMPLETED: **1/29/13**
DRILLING COMPANY:
DRILLING EQUIPMENT: **Hand Auger**
DRILLING METHOD:
SAMPLING EQUIPMENT: **Grab Sample**

BOREHOLE DEPTH (ft): **5.0**
BOREHOLE DIAMETER (in):
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**
LOGGED BY: **SS/BL**

NORTHING:
EASTING:
LATITUDE:
LONGITUDE:
CHECKED BY:

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Headspace PID (ppm)	Depth (feet)	Borehole Backfill
		SP	**SAND WITH TRACE SILT AND TRACE GRAVEL** ; Light brown; fine-grained sand; moist; loose; no cementation; no HC odor			1115 HA-46-2'	0.0		
			Medium-grained sand; very moist; no HC odor			1125 HA-46-5'	0.0		
5			Borehole terminated at 5 feet.					5	

SECOR_SLO_GEOPROBE HA31-64.GPJ SECOR_SLO.GDT 2/19/13

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **1550 W. Stowell Road, Santa Maria**
PROJECT NUMBER:

BOREHOLE NO:
HA-47 PAGE 1 OF 1

DRILLING STARTED: **1/29/13** COMPLETED: **1/29/13**
DRILLING COMPANY:
DRILLING EQUIPMENT: **Hand Auger**
DRILLING METHOD:
SAMPLING EQUIPMENT: **Grab Sample**

BOREHOLE DEPTH (ft): **5.0**
BOREHOLE DIAMETER (in):
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**
LOGGED BY: **SS/BL**

NORTHING:
EASTING:
LATITUDE:
LONGITUDE:
CHECKED BY:

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Headspace PID (ppm)	Depth (feet)	Borehole Backfill
		SP	**SAND WITH GRAVEL AND SOME SILT** ; Brown; loose; dry; no HC odor						
						1340 HA-47-2'			
			Decrease in gravel						
						1350 HA-47-5'			
5			Borehole terminated at 5 feet.					5	

SECOR_SLO_GEOPROBE HA31-64.GPJ SECOR_SLO.GDT 2/19/13

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **1550 W. Stowell Road, Santa Maria**
PROJECT NUMBER:

BOREHOLE NO:
HA-48 PAGE 1 OF 1

DRILLING STARTED: **1/29/13** COMPLETED: **1/29/13**
DRILLING COMPANY:
DRILLING EQUIPMENT: **Hand Auger**
DRILLING METHOD:
SAMPLING EQUIPMENT: **Grab Sample**

BOREHOLE DEPTH (ft): **5.0**
BOREHOLE DIAMETER (in):
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**
LOGGED BY: **SS/BL**

NORTHING:
EASTING:
LATITUDE:
LONGITUDE:
CHECKED BY:

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Headspace PID (ppm)	Depth (feet)	Borehole Backfill
		SP	**SAND AND GRAVEL**						
		SP	**SAND WITH LITTLE SILT** ; Dark brown; slightly moist; loose; no cementation; gravel <5%; asphaltic fragments; slight HC odor			1405 HA-48-2'	0.0		
			Less gravel; moist						
5			Borehole terminated at 5 feet.			1420 HA-48-5'	0.0	5	

SECOR_SLO_GEOPROBE HA31-64.GPJ SECOR_SLO.GDT 2/19/13

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **1550 W. Stowell Road, Santa Maria**
PROJECT NUMBER:

BOREHOLE NO:
HA-49 PAGE 1 OF 1

DRILLING STARTED: **1/29/13** COMPLETED: **1/29/13**
DRILLING COMPANY:
DRILLING EQUIPMENT: **Hand Auger**
DRILLING METHOD:
SAMPLING EQUIPMENT: **Grab Sample**

BOREHOLE DEPTH (ft): **5.0**
BOREHOLE DIAMETER (in):
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**
LOGGED BY: **RD**

NORTHING:
EASTING:
LATITUDE:
LONGITUDE:
CHECKED BY:

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Headspace PID (ppm)	Depth (feet)	Borehole Backfill
		SW	**SAND WITH GRAVEL** ; Tan; fine to coarse-grained sand; dry; dense; no HC odor						
			Dark brown; very dense; decrease in gravel; strong HC/sulfur odor			1430 HA-49-2'	1.6		
			Grey/black; HC/sulfur odor						
			Black tarry sand; slightly moist						
						1445 HA-49-5'	3.6		
5			Borehole terminated at 5 feet.					5	

SECOR_SLO_GEOPROBE HA31-64.GPJ SECOR_SLO.GDT 2/19/13

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **1550 W. Stowell Road, Santa Maria**
PROJECT NUMBER:

BOREHOLE NO:
HA-50 PAGE 1 OF 1

DRILLING STARTED: **1/29/13** COMPLETED: **1/29/13**
DRILLING COMPANY:
DRILLING EQUIPMENT: **Hand Auger**
DRILLING METHOD:
SAMPLING EQUIPMENT: **Grab Sample**

BOREHOLE DEPTH (ft): **5.0**
BOREHOLE DIAMETER (in):
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**
LOGGED BY: **SS/BL**

NORTHING:
EASTING:
LATITUDE:
LONGITUDE:
CHECKED BY:

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Headspace PID (ppm)	Depth (feet)	Borehole Backfill
		SP	**SAND WITH SOME SILT** ; Brown; fine/medium-grained sand; loose; dry; no HC odor			1445 HA-50-2'			
			Light brown						
5			Borehole terminated at 5 feet.			1450 HA-50-5'		5	

SECOR_SLO_GEOPROBE HA31-64.GPJ SECOR_SLO.GDT 2/19/13

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **1550 W. Stowell Road, Santa Maria**
PROJECT NUMBER:

BOREHOLE NO:
HA-51 PAGE 1 OF 1

DRILLING STARTED: **1/29/13** COMPLETED: **1/29/13**
DRILLING COMPANY:
DRILLING EQUIPMENT: **Hand Auger**
DRILLING METHOD:
SAMPLING EQUIPMENT: **Grab Sample**

BOREHOLE DEPTH (ft): **5.0**
BOREHOLE DIAMETER (in):
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**
LOGGED BY: **SS/BL**

NORTHING:
EASTING:
LATITUDE:
LONGITUDE:
CHECKED BY:

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Headspace PID (ppm)	Depth (feet)	Borehole Backfill
		SP	**SAND WITH LITTLE SILT** ; Dark brown; fine-grained sand; moist; <5% gravel; loose; no cementation; no HC odor Asphaltic fragments and hardened tar (shine when broken apart)			1320 HA-51-2'	0.0		
			Brown; no HC odor						
5			Borehole terminated at 5 feet.			1330 HA-51-5'	0.0	5	

SECOR_SLO_GEOPROBE HA31-64.GPJ SECOR_SLO.GDT 2/19/13

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **1550 W. Stowell Road, Santa Maria**
PROJECT NUMBER:

BOREHOLE NO:
HA-52 PAGE 1 OF 1

Stantec

DRILLING STARTED: **1/30/13** COMPLETED: **1/30/13**
DRILLING COMPANY:
DRILLING EQUIPMENT: **Hand Auger**
DRILLING METHOD:
SAMPLING EQUIPMENT: **Grab Sample**

BOREHOLE DEPTH (ft): **5.0**
BOREHOLE DIAMETER (in):
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**
LOGGED BY: **SS/BL**

NORTHING:
EASTING:
LATITUDE:
LONGITUDE:
CHECKED BY:

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Headspace PID (ppm)	Depth (feet)	Borehole Backfill
		SW	**SAND WITH SILT AND LITTLE GRAVEL** ; Brown; fine/medium/coarse-grained sand; loose; dry; no HC odor						
			Asphaltic fragments						
						900 HA-52-2'			
			Large concrete fragments						
			Moist						
						930 HA-52-5'			
5			Borehole terminated at 5 feet.					5	

SECOR_SLO_GEOPROBE HA31-64.GPJ SECOR_SLO.GDT 2/19/13

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **1550 W. Stowell Road, Santa Maria**
PROJECT NUMBER:

BOREHOLE NO:
HA-53 PAGE 1 OF 1

Stantec

DRILLING STARTED: **1/30/13** COMPLETED: **1/30/13**
DRILLING COMPANY:
DRILLING EQUIPMENT: **Hand Auger**
DRILLING METHOD:
SAMPLING EQUIPMENT: **Grab Sample**

BOREHOLE DEPTH (ft): **5.0**
BOREHOLE DIAMETER (in):
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**
LOGGED BY: **SS/BL**

NORTHING:
EASTING:
LATITUDE:
LONGITUDE:
CHECKED BY:

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Headspace PID (ppm)	Depth (feet)	Borehole Backfill
		SP	**SAND WITH SOME SILT** ; Brown; very fine to fine-grained sand; slightly moist; very loose; no cementation; trace gravel; homogeneous; no HC odor						
						1000 HA-53-5'	0.0		
5			Borehole terminated at 5 feet.					5	

SECOR_SLO_GEOPROBE HA31-64.GPJ SECOR_SLO.GDT 2/19/13

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **Santa Maria**
PROJECT NUMBER: **211802270**

WELL NO:

HSA005

Stantec

DRILLING STARTED: **3/16/12** COMPLETED:
DRILLING COMPANY: **S/G**
DRILLING EQUIPMENT: **HSA, CME-85**
DRILLING METHOD:
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **100.0**
BOREHOLE DIAMETER (in): **8**
WELL DEPTH (ft): **---**
WELL CASING DIAMETER (in):
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

NORTHING:
EASTING:
LATITUDE:
LONGITUDE:

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)	Depth (feet)	Borehole Backfill
0		SP	**SAND WITH SILT AND GRAVEL** ; tan; fine to medium-grained; loose; dry; no HC odor						0	
			Brown; medium dense; decrease in Silt							
5									5	
			Light brown; loose; slightly moist							
10									10	
			Tan; trace coarse Sand & small Gravel							
15									15	Bentonite Backfill
			Loose; decrease in coarse Sand & Gravel, increase in Silt							
20									20	
			SAND ; medium to coarse-grained; medium dense; moist; no HC odor; trace fine sand							
25									25	
		ML	**SILT WITH FINE SAND AND CLAY** ; tan to; soft; moist to very moist; no HC odor							
30		SP	**FINE AND TRACE MEDIUM GRAINED SAND WITH SILT** ; tan; loose; moist; no HC odor			0845 HSA005@30'	3 4 6	0.1	30	
		SP	**SAND** ; gray; fine to medium-grained; medium dense; slightly moist; moderate HC odor			0900	15	38.6		

SECOR_SLO_MW CHEVRON-ORCUTT REF.GPJ SECOR_SLO.GDT 9/5/12

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **Santa Maria**
PROJECT NUMBER: **211802270**

WELL NO: **HSA005** PAGE 2 OF 3

DRILLING STARTED: **3/16/12** COMPLETED:
DRILLING COMPANY: **S/G**
DRILLING EQUIPMENT: **HSA, CME-85**
DRILLING METHOD:
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **100.0** NORTHING:
BOREHOLE DIAMETER (in): **8** EASTING:
WELL DEPTH (ft): **---** LATITUDE:
WELL CASING DIAMETER (in): LONGITUDE:
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

Depth (feet)	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)	Borehole Backfill
	SP				HSA005@35'	23 30		
		Olive; loose; moist; slight HC odor; increase in silt			0910 HSA005@40'	5 6 7	0.4	
40								
		Olive tan; no HC odor; increase in medium sand			0915 HSA005@45'	9 9 11	0.0	
45								
		SAND ; light grayish tan; medium to coarse-grained; medium dense; moist; no HC odor; trace fine sand			0925 HSA005@50'	11 19 28	0.0	
50								Bentonite Backfill
	SP	**SAND WITH SILT** ; light brown; fine-grained; loose; moist; no HC odor; limited recovery			0930 HSA005@55'	10 10 13	0.1	
55								
		Light tan; dense to very dense; very moist; no HC odor; olive mottles			0940 HSA005@60'	40 40 50/4"	0.0	
60								
		Hard; increase in small,medium, large gravels & small cobbles			0945 HSA005@65'	40 50/5"	0.0	
65								
					1000	40	0.1	

SECOR_SLO_MW CHEVRON-ORCUTT REF.GPJ SECOR_SLO.GDT 9/5/12

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **Santa Maria**
PROJECT NUMBER: **211802270**

WELL NO:
HSA005 PAGE 3 OF 3

DRILLING STARTED: **3/16/12** COMPLETED:
DRILLING COMPANY: **S/G**
DRILLING EQUIPMENT: **HSA, CME-85**
DRILLING METHOD:
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **100.0** NORTHING:
BOREHOLE DIAMETER (in): **8** EASTING:
WELL DEPTH (ft): **---** LATITUDE:
WELL CASING DIAMETER (in): LONGITUDE:
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

Depth (feet)	USCS	Description	Recovery	Sample	Time / Sample ID	Blow Count (Per 6")	Headspace PID (units)
					HSA005@70'	50/4"	
	SP	**GRAVELLY SAND** ; greenish gray; medium dense; very moist; no HC odor			1015 HSA005@75'	10 23 26	0.0
75	SP	**SAND WITH SILT AND GRAVEL** ; tan; loose; dry; no HC odor; gravel is small					
		Moderate HC odor; increase in green coloration with dark gray mottles; increase in subangular gravel			1030 HSA005@80'	22 50/3"	116
80							
	ML	**SILT WITH FINE SAND** ; dark tan; medium dense; saturated; slight HC odor; sheen on sampler			1045 HSA005@85'	18 32 35	2.0
85							
	SP	**GRAVELLY SAND** ; tan; very dense to hard; saturated; slight HC odor; sheen on sampler			1100 HSA005@90'	9 50/4"	4.7
90							
		Light olive gray; medium dense; moist to very moist; no HC odor			1115 HSA005@95'	15 20 21	0.1
95							
		Dry; large gravel & small cobbles			1130 HSA005@100'	17 24 50/4"	0.0
100		Borehole terminated at 100 feet.					

Borehole Backfill: Bentonite Backfill

SECOR_SLO_MW CHEVRON-ORCUTT REF.GPJ SECOR_SLO.GDT 9/5/12

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **Santa Maria**
PROJECT NUMBER: **211802270**

WELL NO:

HSA006

Stantec

DRILLING STARTED: **3/19/12** COMPLETED:
DRILLING COMPANY: **S/G**
DRILLING EQUIPMENT: **HSA, CME-85**
DRILLING METHOD:
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **100.0**
BOREHOLE DIAMETER (in): **8**
WELL DEPTH (ft): **---**
WELL CASING DIAMETER (in):
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

NORTHING:
EASTING:
LATITUDE:
LONGITUDE:

Depth (feet)	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)	Depth (feet)	Borehole Backfill
	SP	**SAND WITH SILT AND GRAVEL** ; tan; loose; slightly moist; no HC odor; gravel is small							
	SP	**SAND WITH SILT** ; tan; fine to medium-grained; loose; slightly moist; no HC odor			0800 HSA006@5'		0.0		
5								5	
		Trace to no silt			0805 HSA006@10'	2 4 5	0.0		
10								10	
		Increase in coarse to medium sand							
	SP	**SAND WITH SILT** ; tan; loose; slightly moist; no HC odor			0810 HSA006@15'	4 7 5	0.1		
15								15	Bentonite Backfill
		Fine to medium-grained; medium dense; no HC odor; decrease in silt			0815 HSA006@20'	4 12 20	0.0		
20								20	
		No HC odor			0825 HSA006@25'	12 14 17	0.1		
25								25	
	SP	**SAND** ; medium to coarse-grained; very loose; very moist; no HC odor							
		Very dense; no HC odor			0830 HSA006@30'	3 4 8	0.0		
30								30	
	SP	**SAND** ; tan; fine to medium-grained; loose; slightly moist; no HC odor			0845	6	0.0		

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **Santa Maria**
PROJECT NUMBER: **211802270**

WELL NO:

HSA006 PAGE 2 OF 3

DRILLING STARTED: **3/19/12** COMPLETED:
DRILLING COMPANY: **S/G**
DRILLING EQUIPMENT: **HSA, CME-85**
DRILLING METHOD:
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **100.0** NORTHING:
BOREHOLE DIAMETER (in): **8** EASTING:
WELL DEPTH (ft): **---** LATITUDE:
WELL CASING DIAMETER (in): LONGITUDE:
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

Depth (feet)	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)	Depth (feet)	Borehole Backfill
	SP				HSA006@35'	8 9			
		Medium dense; moist							
40					0900 HSA006@40'	5 15 17	0.0	40	
		Light olive; slightly moist; no HC odor; trace silt							
45					0915 HSA006@45'	8 11 19	0.3	45	
		No HC odor; light gray discoloration							
50					0930 HSA006@55'	17 19 20	0.2	50	
	SP	**SAND** ; light orangeish tan; medium to coarse-grained; soft; moist to very moist; no HC odor							Bentonite Backfill
55	SP	**SAND** ; tan; fine to medium-grained; medium dense; moist; no HC odor			0945 HSA006@55'	10 10 11	0.0	55	
		Light brown; loose; very moist; no HC odor; increase in very fine sand and trace silt							
60					1000 HSA006@60'	8 8 10	0.0	60	
	SP	**SAND WITH GRAVEL** ; light brown; fine to medium-grained; very dense; moist; no HC odor; gravel is small/medium/large; trace coarse sand			1015 HSA006@65'	17 50/4"	0.3	65	
	ML	**SILT WITH FINE SAND** ; dark tan; very fine to fine-grained; soft; very moist; no HC odor							
	SP				1030	8	0.1		

SECOR_SLO_MW CHEVRON-ORCUTT REF.GPJ SECOR_SLO.GDT 9/5/12

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **Santa Maria**
PROJECT NUMBER: **211802270**

WELL NO:

HSA006

Stantec

DRILLING STARTED: **3/19/12** COMPLETED:
DRILLING COMPANY: **S/G**
DRILLING EQUIPMENT: **HSA, CME-85**
DRILLING METHOD:
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **100.0** NORTHING:
BOREHOLE DIAMETER (in): **8** EASTING:
WELL DEPTH (ft): **---** LATITUDE:
WELL CASING DIAMETER (in): LONGITUDE:
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

Depth (feet)	USCS	Description	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)
	SP	**SAND WITH SILT** ; dark tan; very fine to fine-grained; medium dense; moist; no HC odor	HSA006@70'	10 18	
	SP	**SAND WITH GRAVEL** ; olive green; medium to coarse-grained; medium dense to dense; very moist; slight HC odor	1045 HSA006@75	20 34 20	8.3
		Dense; very moist to wet; slight HC odor; gray/green mottles	1100 HSA006@80'	20 26 22	10.0
	SP	**SAND WITH SILT** ; greenish green; fine to medium-grained; medium dense; moist; moderate HC odor; orange/brown	1130 HSA006@85'	10 25 26	88.6
		SAND ; brown; medium dense; moist; slight HC odor; gray subangular gravel, trace silt; gray/green intermittent mottles	1145 HSA006@90'	16 21 28	20.2
		SAND ; light tan; fine to medium-grained; medium dense; slightly moist; no HC odor; trace silt	1200 HSA006@95'	11 13 17	0.0
		Increase in small angular & subangular gray gravel; rust brown; no HC odor	1230 HSA006@100'	23 39 31	
		Borehole terminated at 100 feet.			

Borehole Backfill: Bentonite Backfill

SECOR_SLO_MW CHEVRON-ORCUTT REF.GPJ SECOR_SLO.GDT 9/5/12

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **Santa Maria**
PROJECT NUMBER: **211802270**

WELL NO:
HSA007

DRILLING STARTED: **3/20/12** COMPLETED:
DRILLING COMPANY: **S/G**
DRILLING EQUIPMENT: **HSA, CME-85**
DRILLING METHOD:
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **100.0**
BOREHOLE DIAMETER (in): **8**
WELL DEPTH (ft): **---**
WELL CASING DIAMETER (in):
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

NORTHING:
EASTING:
LATITUDE:
LONGITUDE:

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)	Depth (feet)	Borehole Backfill
0		SP	**SAND WITH SILT AND GRAVEL** ; tan; very loose; slightly moist; no HC odor						0	
			Fine to medium-grained			0815 HSA007@5'	3 4 5	0.0		
5									5	
			Light tan; increase in fine to very fine sand			0820 HSA007@10'	4 4 6	0.0		
10									10	
			Medium dense; no HC odor; decrease in fine to very fine sand			0825 HSA007@15'	8 10 11	0.0		
15									15	Bentonite Backfill
			Trace silt; increase in fine sand			0830 HSA007@20'	3 6 8	0.0		
20									20	
			Loose to medium dense; slightly moist; no HC odor; fine/medium/coarse-grained sand			0835 HSA007@25'	5 10 13	0.1		
25									25	
		ML	**SILT WITH FINE SAND** ; orangeish tan; soft to very soft; moist; no HC odor							
		SP	**SAND** ; medium to coarse-grained; loose; moist; no HC odor			0840 HSA007@30'	2 3 7	0.0		
30									30	
			Medium dense; slightly moist			0900	7	0.0		

SECOR_SLO_MW CHEVRON-ORCUTT REF.GPJ SECOR_SLO.GDT 9/5/12

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **Santa Maria**
PROJECT NUMBER: **211802270**

WELL NO:
HSA007

DRILLING STARTED: **3/20/12** COMPLETED:
DRILLING COMPANY: **S/G**
DRILLING EQUIPMENT: **HSA, CME-85**
DRILLING METHOD:
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **100.0** NORTHING:
BOREHOLE DIAMETER (in): **8** EASTING:
WELL DEPTH (ft): **---** LATITUDE:
WELL CASING DIAMETER (in): LONGITUDE:
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)	Depth (feet)	Borehole Backfill
						HSA007@35'	11 19			
			No HC odor; fine/medium/coarse-grained sand			0915 HSA007@40'	9 11 20	0.0		
40									40	
		SP	**SAND WITH SILT** ; dark tan; very fine to fine-grained; loose; moist; no HC odor			0925 HSA007@45'	5 7 11	0.0		
45									45	
		SP	**SAND** ; tan; medium to coarse-grained; medium dense; slightly moist; no HC odor			0930 HSA007@50'	15 15 11	0.0		
50									50	Bentonite Backfill
		SW	**SAND** ; tan; medium dense; slightly moist; no HC odor; fine/medium/coarse-grained sand			0945 HSA007@55'	14 14 18	0.0		
55									55	
		ML	NO RECOVERY - Silt with Sand			HSA007-59.5'	5 6 8			
60									60	
		SP	**SAND** ; orangeish tan; medium to coarse-grained; dense; moist; no HC odor; green gravel			1015 HSA007@65'	22 22 27	0.2		
65									65	
		ML	**SILT WITH SAND** ; orangeish tan; very fine to fine-grained; soft to medium stiff; moist to very moist; no HC odor			1030	9	0.0		

SECOR_SLO_MW CHEVRON-ORCUTT REF.GPJ SECOR_SLO.GDT 9/5/12

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **Santa Maria**
PROJECT NUMBER: **211802270**

WELL NO:
HSA007

DRILLING STARTED: **3/20/12** COMPLETED:
DRILLING COMPANY: **S/G**
DRILLING EQUIPMENT: **HSA, CME-85**
DRILLING METHOD:
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **100.0** NORTHING:
BOREHOLE DIAMETER (in): **8** EASTING:
WELL DEPTH (ft): **---** LATITUDE:
WELL CASING DIAMETER (in): LONGITUDE:
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

Depth (feet)	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)	Depth (feet)	Borehole Backfill
	ML				HSA007@70'	15 16			
	SP	**SAND WITH GRAVEL TRACE SILT** ; dark tan; medium to coarse-grained; medium dense; very moist to wet; no HC odor			1100 HSA007@75'	11 17 21	0.1	75	
		Dense; moist; no HC odor			1130 HSA007@80'	32 37 20	0.2	80	
		Gray; HC odor on boot							
	ML	**SILT WITH SAND** ; grayish green; very fine to fine-grained; soft; saturated; moderate HC odor			1145 HSA007@84'		108		
	SP	**SAND WITH SILT** ; orangeish tan; very fine to fine-grained; medium dense; moist; slight HC odor			1150 HSA007@85'	9 20 24	24.3	85	Bentonite Backfill
	SP	**SAND** ; orangeish tan; medium to coarse-grained; medium dense to dense; very moist; slight HC odor; increase in fine sand			1200 HSA007@90'	15 36 22	2.4	90	
	SP	**SAND WITH GRAVEL** ; dark tan; medium to coarse-grained; medium dense; moist; no HC odor			1230 HSA007@95'	13 18 17	0.0	95	
		Increase in fine sand, trace silt							
		Borehole terminated at 100 feet.			1300 HSA007@100'	15 15 16	0.0	100	

SECOR_SLO_MW CHEVRON-ORCUTT REF.GPJ SECOR_SLO.GDT 9/5/12

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **Santa Maria**
PROJECT NUMBER: **211802270**

WELL NO:
HSA008

DRILLING STARTED: **3/21/12** COMPLETED:
DRILLING COMPANY: **S/G**
DRILLING EQUIPMENT: **HSA, CME-85**
DRILLING METHOD:
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **100.0** NORTHING:
BOREHOLE DIAMETER (in): **8** EASTING:
WELL DEPTH (ft): **---** LATITUDE:
WELL CASING DIAMETER (in): LONGITUDE:
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)	Depth (feet)	Borehole Backfill
		SP	**SAND WITH SILT AND GRAVEL** ; tan; fine to medium-grained; loose; slightly moist; no HC odor; trace coarse sand							
			Tan; medium to coarse-grained; loose; slightly moist; no HC odor			0825 HSA008@5'	4 6 7	0.0	5	
			SAND WITH SILT TRACE GRAVEL ; light tan; fine to medium-grained; loose; slightly moist; no HC odor; gravel is rounded			0830 HSA008@10'	4 6 9	0.0	10	
			Decrease in silt			0835 HSA008@15'	7 11 11	0.0	15	Bentonite Backfill
			SAND WITH SILT ; dark tan; loose; moist; no HC odor			0845 HSA008@20'	4 14 10	0.0	20	
			Tan; medium to coarse-grained; medium dense; no HC odor; trace fine sand			0900 HSA008@25'	8 12 28	0.0	25	
			SAND WITH SILT ; tan; fine to medium-grained; loose; moist; no HC odor Medium dense			0910 HSA008@30'	5 9 13	0.0	30	
			Medium dense; no HC odor; decrease in silt			0920	8	0.0		

SECOR_SLO_MW CHEVRON-ORCUTT REF.GPJ SECOR_SLO.GDT 9/5/12

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **Santa Maria**
PROJECT NUMBER: **211802270**

WELL NO:
HSA008

DRILLING STARTED: **3/21/12** COMPLETED:
DRILLING COMPANY: **S/G**
DRILLING EQUIPMENT: **HSA, CME-85**
DRILLING METHOD:
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **100.0** NORTHING:
BOREHOLE DIAMETER (in): **8** EASTING:
WELL DEPTH (ft): **---** LATITUDE:
WELL CASING DIAMETER (in): LONGITUDE:
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

Depth (feet)	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)	Depth (feet)	Borehole Backfill
					HSA008@35'	9 16			
40		**SAND WITH SILT** ; dark tan; very fine to fine-grained; loose; moist; no HC odor			0925 HSA008@40'	5 8 9	0.0	40	
	ML	**SILT WITH SAND** ; dark tan; very fine to fine-grained; very soft to soft; very moist; no HC odor							
45	SP	**SAND** ; light tan; fine to medium-grained; medium dense; slightly moist; no HC odor			0930 HSA008@45'	3 7 24	0.0	45	
50	SW	**SAND** ; medium dense; slightly moist; no HC odor; fine/medium/coarse-grained			0940 HSA008@50'	11 17 25	0.0	50	Bentonite Backfill
55	SP	**SAND** ; dark tan; medium to coarse-grained; medium dense; very moist; no HC odor (Olive tan Silt; Slight HC odor)			0945 HSA008@55'	14 15 20	0.0	55	
60	SP	**SAND WITH SILT** ; olive tan; very fine to fine-grained; loose; moist to wet; moderate HC odor			0955 HSA008@60'	8 9 14	221	60	
65	SP	Olive green; very moist to wet; moderate HC odor **SAND WITH GRAVEL** ; orangeish tan; medium to coarse-grained; dense; slightly moist to dry; slight HC odor; olive mottles			1010 HSA008@65'	15 26 29	3.3	65	
	SP	**SAND WITH SILT** ; olive; fine to medium-grained; medium dense; very moist; moderate HC odor			1020	9	237		

SECOR_SLO_MW CHEVRON-ORCUTT REF.GPJ SECOR_SLO.GDT 9/5/12

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **Santa Maria**
PROJECT NUMBER: **211802270**

WELL NO:
HSA008 PAGE 3 OF 3

DRILLING STARTED: **3/21/12** COMPLETED:
DRILLING COMPANY: **S/G**
DRILLING EQUIPMENT: **HSA, CME-85**
DRILLING METHOD:
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **100.0** NORTHING:
BOREHOLE DIAMETER (in): **8** EASTING:
WELL DEPTH (ft): **---** LATITUDE:
WELL CASING DIAMETER (in): LONGITUDE:
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)	Depth (feet)	Borehole Backfill
			Decrease in Silt			HSA008@70'	18 31			
			Dark green; strong HC odor; increase in medium to coarse sand & small gravel			1030 HSA008@75'	20 26 35	176		
75									75	
		SP	**SAND WITH GRAVEL** ; grayish green; medium to coarse-grained; dense; wet; moderate HC odor; gravel is rounded & subrounded; (dark gray, fine Sand with Silt in boot)			1040 HSA008@80'	8 25 29	457		
80									80	
		ML	**SILT WITH FINE SAND** ; dark green gray; soft; wet; moderate HC odor; trace small rounded gravel			1050 HSA008@85'	6 8 9	387		
85									85	← Bentonite Backfill
		SW	**SAND WITH GRAVEL TRACE SILT** ; tan; very dense to hard; slightly moist; slight HC odor			1100 HSA008@90'	16 50/6	138		
90									90	
		SW	**SAND** ; tan; medium-grained; medium dense; moist; no HC odor; trace small coarse gravel			1115 HSA008@95'	13 22 18	0.0		
95									95	
			Tan; slightly moist; no HC odor; increase in gravels & small cobbles			1130 HSA008@100'	21 24 50/6	0.0		
100			Borehole terminated at 100 feet.						100	

SECOR_SLO_MW CHEVRON-ORCUTT REF.GPJ SECOR_SLO.GDT 9/5/12

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **Santa Maria**
PROJECT NUMBER: **211802270**

WELL NO:

HSA009

Stantec

DRILLING STARTED: **3/21/12** COMPLETED: **3/22/12**
DRILLING COMPANY: **S/G**
DRILLING EQUIPMENT: **HSA, CME-85**
DRILLING METHOD:
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **100.0**
BOREHOLE DIAMETER (in): **8**
WELL DEPTH (ft): **---**
WELL CASING DIAMETER (in):
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

NORTHING:
EASTING:
LATITUDE:
LONGITUDE:

Depth (feet)	USCS	Description	Recovery	Sample	Time / Sample ID	Blow Count (Per 6")	Headspace PID (units)
0	SP	**SAND WITH SILT AND GRAVEL** ; tan; fine to medium-grained; loose; dry; no HC odor; asphaltic gravel/shards					
		Light brown; decrease in gravel					
		Trace rounded medium gravel					
5		Slight HC odor			3/21/12 1500 HSA009@5'	6 7 6	0.0
10	SP	**SAND** ; tan; medium to coarse-grained; very loose to loose; slightly moist; no HC odor; trace fine sand			1505 HSA009@10'	3 5 6	0.0
15		Loose; no HC odor			1515 HSA009@15'	6 7 9	0.0
20	SP	**SAND TRACE SILT** ; tan; fine to medium-grained; very loose to loose; slightly moist; no HC odor			1525 HSA009@20'	3 5 7	0.0
25		Medium dense; no HC odor; decrease in Silt, increase in medium sand			1530 HSA009@25'	6 12 18	0.0
30	ML	**SILT WITH FINE SAND** ; tan; soft; slightly moist; no HC odor			1545 HSA009@30'	5 6 7	0.1
	SP	**SAND WITH SILT** ; tan; fine-grained; medium dense; slightly moist; no HC odor			1550	11	0.0

Borehole Backfill: Bentonite Backfill

SECOR_SLO_MW CHEVRON-ORCUTT REF.GPJ SECOR_SLO.GDT 9/5/12

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **Santa Maria**
PROJECT NUMBER: **211802270**

WELL NO: **HSA009** PAGE 2 OF 3

DRILLING STARTED: **3/21/12** COMPLETED: **3/22/12**
DRILLING COMPANY: **S/G**
DRILLING EQUIPMENT: **HSA, CME-85**
DRILLING METHOD:
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **100.0** NORTHING:
BOREHOLE DIAMETER (in): **8** EASTING:
WELL DEPTH (ft): **---** LATITUDE:
WELL CASING DIAMETER (in): LONGITUDE:
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)	Depth (feet)	Borehole Backfill
		SP				HSA009@35'	17 18			
		SW	**SAND** ; fine/medium/coarse-grained; no HC odor			1555 HSA009@40'	15 15 10	0.1		
40									40	
		SP	**SAND WITH SILT** ; tan; very fine to fine-grained; loose; very moist to wet; no HC odor			1600 HSA009@45'	5 6 9	0.0		
45									45	
		SP	**SAND** ; medium-grained; medium dense to dense; slightly moist; no HC odor; trace coarse & fine sand, trace small rounded gravel			1615 HSA009@50'	12 25 28	0.0		
50									50	Bentonite Backfill
			Medium dense; dry; no HC odor; decrease in coarse sand & gravel			3/22/12 0750 HSA009@55'	5 14 16	0.0		
55									55	
		SP	**SAND WITH SILT** ; reddish brown; fine to medium-grained; loose; very moist; no HC odor			0800 HSA009@60'	5 6 9	0.0		
60									60	
		SP	**SAND WITH GRAVEL** ; reddish brown; dense to very dense; slightly moist; no HC odor			0810 HSA009@65'	24 35 50/5	0.2		
65									65	
			Orangeish brown; decrease in fine sand			0815	11	0.0		

SECOR_SLO_MW CHEVRON-ORCUTT REF.GPJ SECOR_SLO.GDT 9/5/12

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **Santa Maria**
PROJECT NUMBER: **211802270**

WELL NO: **HSA009** PAGE 3 OF 3

DRILLING STARTED: **3/21/12** COMPLETED: **3/22/12**
DRILLING COMPANY: **S/G**
DRILLING EQUIPMENT: **HSA, CME-85**
DRILLING METHOD:
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **100.0** NORTHING:
BOREHOLE DIAMETER (in): **8** EASTING:
WELL DEPTH (ft): **---** LATITUDE:
WELL CASING DIAMETER (in): LONGITUDE:
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

Depth (feet)	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)	Borehole Backfill
					HSA009@70'	50/5		
		Increase in large gravel & small cobbles						
75					0820 HSA009@75'	28 32 40	0.0	
		Very dense; moist; no HC odor; decrease in cobbles & large/medium gravel						
80					0830 HSA009@80'	20 20 45	0.0	
	ML	**SILT WITH FINE SAND AND CLAY** ; dark tan; soft; moist; no HC odor			0845 HSA009@85'	13 11 9	0.1	
85								Bentonite Backfill
	SP	**SAND WITH GRAVEL TRACE SILT** ; tan; medium to coarse-grained; dense; moist; no HC odor			0900 HSA009@90'	20 20 23	0.0	
90								
		Increase in medium sand			0915 HSA009@95'	24 25 22	0.0	
95								
	SP	**SAND** ; tan; fine to medium-grained; dense to very dense; moist; no HC odor			0930 HSA009@100'	15 29 32		
100		Borehole terminated at 100 feet.						

SECOR_SLO_MW CHEVRON-ORCUTT REF.GPJ SECOR_SLO.GDT 9/5/12

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **Santa Maria**
PROJECT NUMBER: **211802270**

WELL NO:

HSA010

DRILLING STARTED: **3/22/12** COMPLETED:
DRILLING COMPANY: **S/G**
DRILLING EQUIPMENT: **HSA, CME-85**
DRILLING METHOD:
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **100.0**
BOREHOLE DIAMETER (in): **8**
WELL DEPTH (ft): **---**
WELL CASING DIAMETER (in):
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

NORTHING:
EASTING:
LATITUDE:
LONGITUDE:

Depth (feet)	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)	Depth (feet)	Borehole Backfill
	SP	**SAND WITH SILT** ; tan; loose; dry; no HC odor							
		Asphaltic gravel/shards							
		SAND TRACE SILT ; tan; fine to medium-grained; loose; slightly moist			1230 HSA010@5'	5 6 6	0.2	5	
		Increase in fine to very fine sand			1245 HSA010@10'	3 4 4	0.0	10	
15	SP	**SAND** ; light tan; medium-grained; medium dense; no HC odor			1305 HSA010@15'	6 11 12	0.1	15	Bentonite Backfill
	ML	**SILT WITH FINE SAND** ; tan; very soft; very moist; no HC odor							
20	SP	**SAND WITH SILT** ; tan; fine-grained; loose; slightly moist; no HC odor			1315 HSA010@20'	1 2 6	0.0	20	
		Moist; no HC odor; increase in medium sand; trace silt			1320 HSA010@25'	3 6 11	0.1	25	
30	SP	**SAND** ; tan; medium to coarse-grained; medium dense to loose; moist; no HC odor; trace Silt			1325 HSA010@30'	12 11 6	0.2	30	
	ML	**SILT WITH FINE SAND** ; tan; soft; very moist; no HC odor							
	SP	**SAND WITH SILT** ; tan; very fine to fine-grained; loose;			1330	3	0.1		

SECOR_SLO_MW CHEVRON-ORCUTT REF.GPJ SECOR_SLO.GDT 9/5/12

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **Santa Maria**
PROJECT NUMBER: **211802270**

WELL NO:

HSA010

DRILLING STARTED: **3/22/12** COMPLETED:
DRILLING COMPANY: **S/G**
DRILLING EQUIPMENT: **HSA, CME-85**
DRILLING METHOD:
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **100.0**
BOREHOLE DIAMETER (in): **8**
WELL DEPTH (ft): **---**
WELL CASING DIAMETER (in):
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

NORTHING:
EASTING:
LATITUDE:
LONGITUDE:

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)	Depth (feet)	Borehole Backfill
		SP	moist No HC odor			HSA010@35'	5 10			
40		SP	**SAND** ; fine to medium-grained; loose; slightly moist; no HC odor			1335 HSA010@40'	6 7 6	0.0	40	
		SP	**SAND WITH SILT** ; very fine to fine-grained; moist; no HC odor			1345 HSA010@45'	7 5 5	0.0		
45									45	
50			Medium-grained; loose to medium dense; no HC odor; trace fine sand			1350 HSA010@50'	6 11 12	0.0	50	Bentonite Backfill
55			Tan; moist; no HC odor			1400 HSA010@55'	7 8 16	0.1	55	
60			NO SAMPLE RECOVERY				6 8 13		60	
65		SP	**SAND WITH SILT AND GRAVEL** ; dark tan; medium to coarse-grained; very dense; moist; no HC odor; gravel is small			1430 HSA010@65'	50/6	0.2	65	
			Very moist to slightly moist; slight HC odor; increase in gravels & cobbles; gray/green mottles			1445	19	0.3		

SECOR_SLO_MW CHEVRON-ORCUTT REF.GPJ SECOR_SLO.GDT 9/5/12

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **Santa Maria**
PROJECT NUMBER: **211802270**

WELL NO:

HSA010

Stantec

DRILLING STARTED: **3/22/12** COMPLETED:
DRILLING COMPANY: **S/G**
DRILLING EQUIPMENT: **HSA, CME-85**
DRILLING METHOD:
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **100.0** NORTHING:
BOREHOLE DIAMETER (in): **8** EASTING:
WELL DEPTH (ft): **---** LATITUDE:
WELL CASING DIAMETER (in): LONGITUDE:
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)	Depth (feet)	Borehole Backfill
						HSA010@70'	50/6			
			SAND WITH SILT AND GRAVEL ; tan; medium to coarse-grained; dense; moist; no HC odor; gravel is small			1450 HSA010@75'	19 25 28	0.2		
75									75	
			No HC odor			1500 HSA010@80'	15 50/5	0.0		
80									80	
		SP	**SAND WITH SILT** ; reddish brown; very fine to fine-grained; medium dense; moist; no HC odor			1515 HSA010@85'	10 16 20	0.1		
85									85	← Bentonite Backfill
		SP	**SAND TRACE SILT AND GRAVEL** ; dark tan; medium to coarse-grained; medium dense; very moist; no HC odor; gravel is small; intermittent light green deposits			1530 HSA010@90'	8 16 18	0.2		
90									90	
			Dark reddish tan							
			No HC odor			1535 HSA010@95'	8 18 25	0.0		
95									95	
			Light tan; medium dense to dense; slightly moist to dry; no HC odor			1545 HSA010@100'	6 17 33	0.0		
100			Borehole terminated at 100 feet.						100	

SECOR_SLO_MW CHEVRON-ORCUTT REF.GPJ SECOR_SLO.GDT 9/5/12

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **Santa Maria**
PROJECT NUMBER: **211802270**

WELL NO:
HSA011
PAGE 1 OF 1

Stantec

DRILLING STARTED: **3/23/12** COMPLETED:
DRILLING COMPANY: **S/G**
DRILLING EQUIPMENT: **HSA, CME-85**
DRILLING METHOD:
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **40.0** NORTHING:
BOREHOLE DIAMETER (in): **8** EASTING:
WELL DEPTH (ft): **---** LATITUDE:
WELL CASING DIAMETER (in): LONGITUDE:
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)	Depth (feet)	Borehole Backfill
0		SP	**SAND WITH SILT AND GRAVEL** ; tan; medium dense; dry; no HC odor						0	
			Loose; decrease in gravel							
			Decrease in silt							
			Loose; no HC odor; fine/medium/coarse-grained			1030 HSA011@5'	5 5 7	0.0	5	
10		SP	**SAND TRACE SILT** ; tan; loose; slightly moist; no HC odor			1035 HSA011@10'	3 5 7	0.0	10	
15		SP	**SAND** ; dark tan; medium to coarse-grained; moist; no HC odor			1040 HSA011@15'	2 3 5	0.0	15	
			Fine to medium-grained; medium dense; no HC odor; trace coarse sand			1045 HSA011@20'	7 11 12	0.2	20	Bentonite Backfill
25			Loose; no HC odor; decrease in coarse sand			1050 HSA011@25'	6 6 12	0.0	25	
30		ML	**SILT WITH SAND** ; dark tan; very soft; moist; no HC odor; fine to very fine-grained			1055 HSA011@30'	3 4 8	0.1	30	
35		SP	**SAND** ; light tan; fine to medium-grained; medium dense; slightly moist; no HC odor			1100 HSA011@35'	7 15 17	0.0	35	
40		SP	**SAND WITH SILT** ; fine to medium-grained; loose; moist; no HC odor			1110 HSA011@40'	6 7 7		40	
			Borehole terminated at 40 feet.							

SECOR_SLO_MW CHEVRON-ORCUTT REF.GPJ SECOR_SLO.GDT 9/5/12

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **Santa Maria**
PROJECT NUMBER: **211802270**

WELL NO:

HSA012

DRILLING STARTED: **3/26/12** COMPLETED:
DRILLING COMPANY: **S/G**
DRILLING EQUIPMENT: **HSA, CME-85**
DRILLING METHOD:
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **40.0** NORTHING:
BOREHOLE DIAMETER (in): **6** EASTING:
WELL DEPTH (ft): **---** LATITUDE:
WELL CASING DIAMETER (in): LONGITUDE:
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)	Depth (feet)	Borehole Backfill
0		SP	**SAND WITH SILT AND GRAVEL** ; tan; very dense; moist; no HC odor Loose; decrease in gravel						0	
5		SP	**SAND TRACE GRAVEL** ; tan; medium to coarse-grained; loose; moist; no HC odor; gravel is small			0820 HSA012@5'	4 5 6	0.0	5	
10		SP	**SAND TRACE SILT** ; tan; fine to medium-grained; very loose; slightly moist; no HC odor			0830 HSA012@10'	3 3 6	0.0	10	
15		SP	**SAND TRACE GRAVEL** ; tan; medium to coarse-grained; very loose; moist; no HC odor; gravel is small			0835 HSA012@15'	3 4 4	0.1	15	
20		SP	**SAND WITH SILT** ; tan; fine-grained; very loose; moist; no HC odor; trace medium sand			0845 HSA012@20'	3 4 3	0.0	20	Bentonite Backfill
25		SP	**SAND** ; tan; medium to coarse-grained; loose to medium dense; slightly moist; no HC odor			0850 HSA012@25'	6 7 11	0.1	25	
30		ML	**SILT WITH FINE SAND** ; tan; soft; slightly moist; no HC odor			0855 HSA012@30'	3 5 3	0.0	30	
35		SP	**SAND** ; light tan; fine to medium-grained; medium dense; dry to slightly moist; no HC odor			0900 HSA012@35'	10 17 21	0.0	35	
40		ML	**SILT WITH SAND** ; light tan; very fine to fine-grained; soft; dry; no HC odor; decrease in gravel			0915 HSA012@40'	6 4 3	0.0	40	
			Borehole terminated at 40 feet.							

SECOR_SLO_MW CHEVRON-ORCUTT REF.GPJ SECOR_SLO.GDT 9/5/12

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **Santa Maria**
PROJECT NUMBER: **211802270**

WELL NO:

HSA013

DRILLING STARTED: **3/26/12** COMPLETED:
DRILLING COMPANY: **S/G**
DRILLING EQUIPMENT: **HSA, CME-85**
DRILLING METHOD:
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **40.0** NORTHING:
BOREHOLE DIAMETER (in): **6** EASTING:
WELL DEPTH (ft): **---** LATITUDE:
WELL CASING DIAMETER (in): LONGITUDE:
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)	Depth (feet)	Borehole Backfill
0		SP	**SAND WITH SILT AND GRAVEL** ; light brown; loose; moist; no HC odor; asphaltic gravel/shards						0	
			Tan; slightly moist; decrease in gravel							
			Fine to medium-grained; medium dense; no HC odor; decrease in silt			1045 HSA013@5'	9 9 14	0.0	5	
10			**SAND TRACE ASPHALT** ; brown; medium to coarse-grained; loose; slightly moist; slight HC odor			1050 HSA013@10'	6 8 9	0.3	10	
			Tan; loose; slightly moist; no HC odor; fine/medium/coarse			1055 HSA013@15'	6 6 8	0.0	15	
20			Medium dense; no HC odor; decrease in fine sand			1100 HSA013@20'	9 14 15	0.0	20	Bentonite Backfill
25			No HC odor			1105 HSA013@25'	8 11 14	0.0	25	
30		ML	**SILT WITH FINE SAND** ; dark tan; very soft; moist; no HC odor			1115 HSA013@30'	2 3 6	0.1	30	
35		SP	**SAND** ; tan; fine to medium-grained; medium dense; slightly moist; no HC odor			1130 HSA013@35'	11 14 16	0.0	35	
40		SP	**SAND WITH SILT** ; dark tan; very fine to fine-grained; loose; moist; no HC odor			1145 HSA013@40'	4 6 6	0.1	40	
			Borehole terminated at 40 feet.							

SECOR_SLO_MW CHEVRON-ORCUTT REF.GPJ SECOR_SLO.GDT 9/5/12

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **Santa Maria**
PROJECT NUMBER: **211802270**

WELL NO:

HSA014 PAGE 1 OF 1

DRILLING STARTED: **3/26/12** COMPLETED:
DRILLING COMPANY: **S/G**
DRILLING EQUIPMENT: **HSA, CME-85**
DRILLING METHOD:
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **40.0** NORTHING:
BOREHOLE DIAMETER (in): **6** EASTING:
WELL DEPTH (ft): **---** LATITUDE:
WELL CASING DIAMETER (in): LONGITUDE:
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

Depth (feet)	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)	Depth (feet)	Borehole Backfill
	SP	**SAND WITH SILT AND GRAVEL** ; light brown; loose; moist; no HC odor							
		Increase in rounded gravel & asphaltic gravel/shards							
		Increase in Silt; decrease in Gravel & Asphalt							
5					1315 HSA014@5'	6 7 6	0.0	5	
	SP	**SAND TRACE SILT** ; tan; fine to medium-grained; loose; moist; no HC odor							
		No HC odor							
10					1325 HSA014@10'	7 8 8	0.0	10	
	ML	**SILT WITH FINE SAND** ; dark tan; soft; moist; no HC odor; increase in fine to medium sand							
15					1330 HSA014@15'	3 3 5	0.1	15	
	SP	**SAND** ; tan; medium to coarse-grained; medium dense; moist; no HC odor							
20					1340 HSA014@20'	5 10 15	0.0	20	Bentonite Backfill
25					1345 HSA014@25'	18 18 19	0.0	25	
		Dry; no HC odor; increase in fine Sand/Silt							
30		Moist			1350 HSA014@30'	16 9 3	0.0	30	
	SP	**SAND TRACE SILT** ; light tan; fine to medium-grained; medium dense; slightly moist; no HC odor							
35					1400 HSA014@35'	7 12 19	0.0	35	
		SAND WITH SILT ; tan; loose; slightly moist; no HC odor							
40					1415 HSA014@40'	6 6 7	0.1	40	
		Borehole terminated at 40 feet.							

SECOR_SLO_MW CHEVRON-ORCUTT REF.GPJ SECOR_SLO.GDT 9/5/12

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **Santa Maria**
PROJECT NUMBER: **211802270**

WELL NO:
HSA015 PAGE 1 OF 1

DRILLING STARTED: **3/27/12** COMPLETED:
DRILLING COMPANY: **S/G**
DRILLING EQUIPMENT: **HSA, CME-85**
DRILLING METHOD:
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **40.0** NORTHING:
BOREHOLE DIAMETER (in): **6** EASTING:
WELL DEPTH (ft): **---** LATITUDE:
WELL CASING DIAMETER (in): LONGITUDE:
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)	Depth (feet)	Borehole Backfill
		SP	**SAND WITH SILT AND GRAVEL** ; light brown; loose; moist; no HC odor; asphaltic gravel/shards							
			Black; loose; slightly moist; strong HC odor; asphaltic shards			0800 HSA015@5'	4 3 5	85.6		
5			Tar/asphalt in shoe						5	
		SP	**SAND** ; light tan; fine to medium-grained; loose; slightly moist; moderate HC odor; trace coarse sand			0810 HSA015@10'	5 6 9	87.8		
10									10	
			Very loose to loose; slight HC odor; increase in fine to very fine sand			0815 HSA015@15'	3 4 5	3.2		
15									15	
		SP	**SAND WITH SILT** ; dark tan; very fine to fine-grained; loose; slightly moist; slight HC odor			0825 HSA015@20'	6 9 12	2.4		
20			Light tan; medium to coarse-grained; medium dense; no HC odor						20	Bentonite Backfill
		SP	**SAND** ; medium to coarse-grained; medium dense; no HC odor			0830 HSA015@25'	10 12 15	0.1		
25									25	
			Very light tan; medium dense; slightly moist to dry; no HC odor; increase in medium to fine sand			0845 HSA015@30'	19 18 19	0.3		
30									30	
			SAND ; light tan; fine to medium-grained; medium dense; slightly moist; no HC odor; trace coarse sand			0850 HSA015@35'	8 11 15	0.1		
35									35	
		SP	**SAND WITH SILT** ; tan; very fine to fine-grained; loose; moist; no HC odor			0900 HSA015@40'	4 6 9	0.0		
40			Borehole terminated at 40 feet.						40	

SECOR_SLO_MW CHEVRON-ORCUTT REF.GPJ SECOR_SLO.GDT 9/5/12

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **Santa Maria**
PROJECT NUMBER: **211802270**

WELL NO:
HSA016

DRILLING STARTED: **3/27/12** COMPLETED:
DRILLING COMPANY: **S/G**
DRILLING EQUIPMENT: **HSA, CME-85**
DRILLING METHOD:
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **55.0** NORTHING:
BOREHOLE DIAMETER (in): **6** EASTING:
WELL DEPTH (ft): **---** LATITUDE:
WELL CASING DIAMETER (in): LONGITUDE:
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

Depth (feet)	USCS	Description	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)
0	SP	**SAND WITH SILT AND GRAVEL** ; light brown; loose; moist; no HC odor; asphaltic gravels/shards			
		Dark brown black; strong unidentified odor with HC odor			
5	SP	**SAND** ; black; very fine to fine-grained; medium dense; slightly moist to dry; strong unidentified odor with HC odor	1030 HSA016@5'	10 15 13	73.8
10		**SAND** ; black; dense; medium to very fine sand; strong unidentified odor with HC odor	1045 HSA016@10'	22 31 21	265
15		Dark brown; slightly moist; increase in medium to coarse sand; decrease in black staining (dark brown/gray)	1055 HSA016@15'	5 10 13	171
20	SP	**SAND** ; very light gray tan; fine to medium-grained; dense; slightly moist to dry; trace coarse sand	1100 HSA016@20'	15 20 20	20.8
25		Light grayish tan; medium dense to dense; slightly moist; bright yellow staining	1115 HSA016@25'	14 17 20	7.6
30		**SAND** ; light tan; medium to coarse-grained; loose; dry; bright yellow staining; unidentified odor with HC odor	1120 HSA016@30'	3 3 50/5	21.2
		Very dense			
35	CL	**CLAY WITH SILT** ; dark tan; soft to medium stiff; moist; unidentified odor	1130 HSA016@35'	6 9 11	2.1
40	SP	**SAND** ; light olive tan; fine to medium-grained; medium dense to dense; slightly moist; slight HC odor; unidentified odor	1145 HSA016@40'	10 22 28	42.1
45	SP	**SAND WITH SILT** ; light olive tan; very fine to fine-grained; loose to medium dense; moist; slight HC odor; unidentified odor	1200 HSA016@45'	9 9 18	20.6
50	CL	**CLAY WITH FINE SAND AND SILT** ; olive; moist; slight HC odor	1215 HSA016@50'	5 13 17	18.1
	SP	**SAND WITH SILT AND CLAY** ; light olive tan; medium dense; slightly moist; slight HC odor			
55	SP	**SAND** ; light olive tan; medium to coarse-grained; dense; slight HC odor	1230 HSA016@55'	19 30 35	2.7
		Borehole terminated at 55 feet.			

Borehole Backfill: Bentonite Backfill

SECOR_SLO_MW CHEVRON-ORCUTT REF.GPJ SECOR_SLO.GDT 9/5/12

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **Santa Maria**
PROJECT NUMBER: **211802270**

WELL NO:

HSA017

Stantec

DRILLING STARTED: **3/27/12** COMPLETED:
DRILLING COMPANY: **S/G**
DRILLING EQUIPMENT: **HSA, CME-85**
DRILLING METHOD:
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **50.0** NORTHING:
BOREHOLE DIAMETER (in): **6** EASTING:
WELL DEPTH (ft): **---** LATITUDE:
WELL CASING DIAMETER (in): LONGITUDE:
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)	Depth (feet)	Borehole Backfill
0		SP	**SAND WITH SILT TRACE GRAVEL** ; tan; loose; slightly moist; no HC odor Brown; trace asphaltic gravel/shards; increase in rounded gravels						0	
		SP	**SAND TRACE SILT** ; tan; fine to medium-grained; very loose; slightly moist; no HC odor			1415 HSA017@5'	3 3 3	0.1		
10			Loose; no HC odor; decrease in Silt; increase in medium sand			1425 HSA017@10'	3 5 7	0.0	10	
15		SP	**SAND** ; tan; fine to medium-grained; medium dense; slightly moist; no HC odor; trace silt			1430 HSA017@15'	11 12 8	0.0	15	
20			Yellowish tan; medium to coarse-grained; medium dense; moist; no HC odor			1445 HSA017@20'	9 14 17	0.0	20	
25			Gray black; moderate HC odor			1450 HSA017@25'	9 12 14	92.3	25	Bentonite Backfill
30			Black; dense to very dense; strong HC odor; unidentified odor			1500 HSA017@30'	17 25 31	744	30	
35		ML	**SILT WITH CLAY AND FINE SAND** ; olive; medium stiff; moist; moderate HC odor; gray mottles; unidentified odor			1510 HSA017@35'	7 10 15	730	35	
40		SP	**SAND WITH SILT** ; olive; very fine to fine-grained; dense; moist; moderate HC odor; gray mottles; unidentified odor			1515 HSA017@40'	6 12 24	125	40	
45			Dark tan; loose; decrease in odor			1525 HSA017@45'	4 6 9	70.2	45	
50			Medium to coarse-grained; moist; moderate HC odor Borehole terminated at 50 feet.			1530 HSA017@50'	12 16 19	13.1	50	
55									55	

SECOR_SLO_MW CHEVRON-ORCUTT REF.GPJ SECOR_SLO.GDT 9/5/12

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **Santa Maria**
PROJECT NUMBER: **211802270**

WELL NO:

HSA018 PAGE 1 OF 1

DRILLING STARTED: **3/28/12** COMPLETED:
DRILLING COMPANY: **S/G**
DRILLING EQUIPMENT: **HSA, CME-85**
DRILLING METHOD:
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **40.0** NORTHING:
BOREHOLE DIAMETER (in): **6** EASTING:
WELL DEPTH (ft): **---** LATITUDE:
WELL CASING DIAMETER (in): LONGITUDE:
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

Depth (feet)	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)	Depth (feet)	Borehole Backfill
	SP	**SAND WITH SILT AND GRAVEL** ; brown; loose; moist; no HC odor; asphaltic gravels/shards							
		Light brown; very loose							
	SP	**SAND WITH SILT** ; dark tan; fine to medium-grained; very loose; slightly moist; no HC odor; trace rounded gravel			1130 HSA018@5'	2 2 3	0.0	5	
		Tan; very loose; slightly moist; no HC odor; increase in fine to medium sand; decrease in coarse sand			1135 HSA018@10'	3 3 3	0.0	10	
	SP	**SAND** ; tan; loose; moist; no HC odor; fine/medium/coarse-grained			1140 HSA018@15'	7 9 11	0.0	15	
		Medium dense to dense; slightly moist; no HC odor; increase in medium to coarse sand			1145 HSA018@20'	12 10 21	0.1	20	Bentonite Backfill
		SAND ; dark tan; medium to coarse-grained; loose; moist; no HC odor			1150 HSA018@25'	7 8 10	0.0	25	
		Medium dense to dense; no HC odor; increase in coarse sand & small gravel			1200 HSA018@30'	5 16 24	0.1	30	
		SAND ; tan; fine to medium grained sand-grained; loose to medium dense; moist; no HC odor			1210 HSA018@35'	6 13 14	0.0	35	
		Light tan; loose; no HC odor			1215 HSA018@40'	8 13 9	0.0	40	
		Borehole terminated at 40 feet.							

SECOR_SLO_MW CHEVRON-ORCUTT REF.GPJ SECOR_SLO.GDT 9/5/12

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **Santa Maria**
PROJECT NUMBER: **211802270**

WELL NO:

HSA019

Stantec

DRILLING STARTED: **3/28/12** COMPLETED:
DRILLING COMPANY: **S/G**
DRILLING EQUIPMENT: **HSA, CME-85**
DRILLING METHOD:
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **40.0** NORTHING:
BOREHOLE DIAMETER (in): **6** EASTING:
WELL DEPTH (ft): **---** LATITUDE:
WELL CASING DIAMETER (in): LONGITUDE:
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

Depth (feet)	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)	Depth (feet)	Borehole Backfill
0	SP	**SAND WITH SILT** ; dark tan; loose; slightly moist; no HC odor; trace gravel						0	
		Tan; fine to medium-grained; very loose to loose			1400 HSA019@5'	3 4 5	0.0		
5								5	
		No HC odor; decrease in Silt			1415 HSA019@10'	5 6 7	0.1		
10								10	
		Dark tan; medium to coarse-grained; loose; moist; no HC odor			1420 HSA019@15'	7 8 8	0.0		
15								15	
		Medium dense; slightly moist; no HC odor			1430 HSA019@20'	11 13 14	0.0		
20								20	← Bentonite Backfill
	SP	**SAND** ; tan; fine to coarse-grained; medium dense; moist; no HC odor; trace Silt in shoe			1435 HSA019@25'	9 9 14	0.0		
25								25	
	SP	**SAND WITH GRAVEL** ; tan; medium to coarse-grained; medium dense; moist; no HC odor; gravel is small			1445 HSA019@30'	10 12 12	0.0		
30								30	
		Slightly moist; decrease in Gravel			1450 HSA019@35'	16 16 18	0.0		
35								35	
	ML	**SILT WITH FINE SAND** ; tan; very soft; moist; no HC odor			1500 HSA019@40'	2 3 4	0.0		
40		Borehole terminated at 40 feet.						40	

SECOR_SLO_MW CHEVRON-ORCUTT REF.GPJ SECOR_SLO.GDT 9/5/12

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **Santa Maria**
PROJECT NUMBER: **211802270**

WELL NO:

HSA020

DRILLING STARTED: **3/29/12** COMPLETED:
DRILLING COMPANY: **S/G**
DRILLING EQUIPMENT: **HSA, CME-85**
DRILLING METHOD:
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **70.0** NORTHING:
BOREHOLE DIAMETER (in): **8** EASTING:
WELL DEPTH (ft): **---** LATITUDE:
WELL CASING DIAMETER (in): LONGITUDE:
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)	Depth (feet)	Borehole Backfill
		SP	**SAND WITH SILT TRACE GRAVEL** ; gray brown; loose; moist; moderate HC odor; asphaltic gravel							
		SP	**SAND TRACE SILT** ; black; fine to medium-grained; loose; dry; moderate HC odor			0830 HSA020@5'	5 4 6	120	5	
10			Light gray; medium-grained; loose; dry to slightly moist; moderate HC odor; increase in silt			0835 HSA020@10'	7 5 9	905	10	
15			Yellowish tan; fine to medium-grained; medium dense to dense; slightly moist; moderate HC odor; bright yellow staining; unidentified odor			0845 HSA020@15'	13 21 32	515	15	
20			Tan; fine to medium-grained; loose; moist; light gray mottles; persistent unknown chemical odor			0850 HSA020@20'	6 6 6	536	20	Bentonite Backfill
25			Decrease coarse sand; increase in medium sand			0900 HSA020@25'	11 17 18	320	25	
30			Tan; medium to coarse-grained; very dense; slightly moist; moderate HC odor; unidentified chemical odor			0910 HSA020@30'	29 50/5	7.4	30	
35		CL	**CLAY WITH SILT AND FINE SAND** ; tan; medium stiff; moist; decrease in HC & unidentifed chemical odor			0920 HSA020@35'	11 15 13	195	35	
			Increase in Silt			0930	7	67.7		

SECOR_SLO_MW CHEVRON-ORCUTT REF.GPJ SECOR_SLO.GDT 9/5/12

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **Santa Maria**
PROJECT NUMBER: **211802270**

WELL NO:
HSA020

DRILLING STARTED: **3/29/12** COMPLETED:
DRILLING COMPANY: **S/G**
DRILLING EQUIPMENT: **HSA, CME-85**
DRILLING METHOD:
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **70.0** NORTHING:
BOREHOLE DIAMETER (in): **8** EASTING:
WELL DEPTH (ft): **---** LATITUDE:
WELL CASING DIAMETER (in): LONGITUDE:
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)	Depth (feet)	Borehole Backfill
		SP	**SAND TRACE SILT** ; light tan; fine to medium-grained; slightly moist to dry; slight HC odor; light gray mottles			HSA020@40'	14 35			
			Tan; slightly moist; slight HC odor; decrease in silt			0940 HSA020@45'	5 7 11	44.3		
45									45	
		ML	**SILT WITH CLAY AND FINE SAND** ; olive; moist; slight HC odor; unidentified chemical odor			0945 HSA020@50'	6 9 9	24.3		
50									50	
		SP	**SAND** ; light grayish tan; medium-grained; medium dense; slightly moist; HC & unidentified odor			1000 HSA020@55'	10 17 20	16.4		
55									55	Bentonite Backfill
		SP	**SAND WITH SILT** ; orangeish tan; fine to medium-grained; medium dense; very moist; unidentified odor			1015 HSA020@60'	8 9 12	78.5		
60									60	
			Orangeish red tan; very dense to hard; slight HC odor; increase in coarse sand & gravel			1030 HSA020@65'	19 50/6	1.2		
65									65	
		SP	**GRAVELLY SAND TRACE SILT** ; tannish orange; dense; dry; slight unidentified odor			1045 HSA020@70'	36 44 47	4.1		
70			Borehole terminated at 70 feet.						70	
75									75	

SECOR_SLO_MW CHEVRON-ORCUTT REF.GPJ SECOR_SLO.GDT 9/5/12

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **Santa Maria**
PROJECT NUMBER: **211802270**

WELL NO:

HSA021

DRILLING STARTED: **3/29/12** COMPLETED: **3/30/12**
DRILLING COMPANY: **S/G**
DRILLING EQUIPMENT: **HSA, CME-85**
DRILLING METHOD:
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **70.0**
BOREHOLE DIAMETER (in): **8**
WELL DEPTH (ft): **---**
WELL CASING DIAMETER (in):
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

NORTHING:
EASTING:
LATITUDE:
LONGITUDE:

Depth (feet)	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)	Depth (feet)	Borehole Backfill
0	SP	**SAND WITH SILT** ; tan; fine to medium-grained; loose; slightly moist; no HC odor; asphaltic gravel/shards; light brown						0	
		Increase in Silt							
		Very loose; slightly moist; no HC odor; trace Silt							
5					1330 HSA021@5'	2 3 4	0.1	5	
10	ML	**SILT WITH FINE SAND** ; light tan; soft; dry; no HC odor			1345 HSA021@10'	3 3 7	0.0	10	
15	SP	**SAND** ; tan; fine to medium-grained; loose; slightly moist; no HC odor; increase in Fine Sand; trace silt			1400 HSA021@15'	5 7 11	0.0	15	
20	SP	**SAND WITH SILT AND GRAVEL** ; medium to coarse-grained; loose; moist; no HC odor			1405 HSA021@20'	4 5 9	0.1	20	Bentonite Backfill
		Tan; fine to medium-grained; loose; dry; no HC odor			1415 HSA021@25'	5 9 10	0.0	25	
30	SP	**SAND TRACE SILT** ; tan; medium to coarse-grained; loose to medium stiff; slightly moist; no HC odor			1420 HSA021@30'	7 12 16	0.0	30	
35		Fine to medium-grained; medium dense; slightly moist; no HC odor; trace coarse sand, trace silt			1430 HSA021@35'	10 13 16	0.0	35	
		Increase in medium sand, decrease in silt			1440	8	0.0		

SECOR_SLO_MW CHEVRON-ORCUTT REF.GPJ SECOR_SLO.GDT 9/5/12

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **Santa Maria**
PROJECT NUMBER: **211802270**

WELL NO:

HSA021

Stantec

DRILLING STARTED: **3/29/12** COMPLETED: **3/30/12**
DRILLING COMPANY: **S/G**
DRILLING EQUIPMENT: **HSA, CME-85**
DRILLING METHOD:
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **70.0**
BOREHOLE DIAMETER (in): **8**
WELL DEPTH (ft): **---**
WELL CASING DIAMETER (in):
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

NORTHING:
EASTING:
LATITUDE:
LONGITUDE:

Depth (feet)	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)
					HSA021@40'	16 21	
45	SP	**SAND WITH SILT** ; tan; fine to medium-grained; loose; no HC odor			1450 HSA021@45'	3 5 6	0.0
		Medium dense; no HC odor			1500 HSA021@50'	9 16 15	0.0
50		Increase meidum sand, decrease in fine sand					
55	SP	**SAND** ; medium-grained sand-grained; medium dense; slightly moist; no HC odor			0820 HSA021@55'	10 12 12	0.0
60	SP	**SAND WITH SILT** ; light brown; fine to medium-grained; loose; wet; no HC odor			0830 HSA021@60'	5 7 12	0.0
65	SP	**SAND WITH GRAVEL AND SILT** ; brown tan; medium to coarse-grained; medium dense to very dense; moist; no HC odor; decrease in silt, decrease in moisture			0845 HSA021@65'	11 20 43	0.0
70	SP	**SAND WITH SILT** ; dark tan; very fine to fine-grained; loose to medium stiff; moist to very moist; no HC odor			0900 HSA021@70'	7 15 15	0.0
		Borehole terminated at 70 feet.					
75							

Borehole Backfill

Depth (feet) 45 50 55 60 65 70 75

Bentonite Backfill

SECOR_SLO_MW CHEVRON-ORCUTT REF.GPJ SECOR_SLO.GDT 9/5/12

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **Santa Maria**
PROJECT NUMBER: **211802270**

WELL NO:

HSA022

DRILLING STARTED: **3/30/12** COMPLETED:
DRILLING COMPANY: **S/G**
DRILLING EQUIPMENT: **HSA, CME-85**
DRILLING METHOD:
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **70.0** NORTHING:
BOREHOLE DIAMETER (in): **8** EASTING:
WELL DEPTH (ft): **---** LATITUDE:
WELL CASING DIAMETER (in): LONGITUDE:
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)	Depth (feet)	Borehole Backfill
0		SP	**SAND WITH SILT AND GRAVEL** ; tan; loose; dry; no HC odor; gravel is small						0	
			Light brown; decrease in gravel, increase in silt							
5			Light orangeish brown; fine to medium-grained; loose; slightly moist; no HC odor; trace coarse sand			1145 HSA022@5'	8 6 6	0.0	5	
10		SP	**SAND** ; light tan; medium to coarse-grained; loose; dry; no HC odor			1200 HSA022@10'	3 5 9	0.0	10	
15			Light orangeish brown; slightly moist; no HC odor; decrease in coarse sand			1205 HSA022@15'	5 6 9	0.0	15	
20			Grayish green; medium dense; moderate HC odor			1210 HSA022@20'	7 13 13	16.3	20	Bentonite Backfill
25			Moist to very moist; increase in coarse sand; increase in HC odor			1215 HSA022@25'	9 11 13	77.8	25	
30			Loose to medium dense; slightly moist; moderate HC odor; increase in medium to coarse sand			1220 HSA022@30'	5 10 11	103	30	
35		ML	**SILT WITH FINE SAND** ; gray; soft; moist; moderate HC odor; increase in Fine Sand			1230 HSA022@35'	2 2 7	20.2	35	
		SW	**SAND** ; light gray; medium dense; slightly moist; moderate HC odor; fine/medium/coarse			1245	10	85.4		

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **Santa Maria**
PROJECT NUMBER: **211802270**

WELL NO:

HSA022 PAGE 2 OF 2

Stantec

DRILLING STARTED: **3/30/12** COMPLETED:
DRILLING COMPANY: **S/G**
DRILLING EQUIPMENT: **HSA, CME-85**
DRILLING METHOD:
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **70.0** NORTHING:
BOREHOLE DIAMETER (in): **8** EASTING:
WELL DEPTH (ft): **---** LATITUDE:
WELL CASING DIAMETER (in): LONGITUDE:
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

Depth (feet)	USCS	Description	Recovery	Sample	Time / Sample ID	Blow Count (Per 6")	Headspace PID (units)
	SW				HSA022@40'	18 19	
45	SP	**SAND WITH SILT** ; grayish olive; very fine to fine-grained; loose; moist; moderate HC odor			1250 HSA022@45'	4 5 9	20.1
50	SP	**SAND** ; light grayish tan; fine to medium-grained; medium dense; slightly moist; slight HC odor			1300 HSA022@50'	9 16 20	1.0
55		**SAND** ; tannish olive; medium to coarse-grained; medium dense; slightly moist; slight HC odor			1330 HSA022@55'	6 12 19	0.2
60	SP	**SAND TRACE SILT** ; brownish olive; medium to coarse-grained; medium dense; slightly moist; slight HC odor			1345 HSA022@60'	6 7 13	1.2
65	SP	**SAND WITH SILT AND GRAVEL** ; dark tan; fine-grained; very dense; slightly moist; HC odor & large gravel in shoe			1400 HSA022@65'	18 40 43	0.3
		Very dense to hard; dry; no HC odor; increase in coarse sand			1415 HSA022@70'	24 44 47	0.2
70		Borehole terminated at 70 feet.					
75							

Borehole Backfill: Bentonite Backfill (45 – 70 feet)

SECOR_SLO_MW CHEVRON-ORCUTT REF.GPJ SECOR_SLO.GDT 9/5/12

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **Santa Maria**
PROJECT NUMBER: **211802270**

WELL NO:
HSA023

DRILLING STARTED: **4/2/12** COMPLETED:
DRILLING COMPANY: **S/G**
DRILLING EQUIPMENT: **HSA, CME-85**
DRILLING METHOD:
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **95.0** NORTHING:
BOREHOLE DIAMETER (in): **8** EASTING:
WELL DEPTH (ft): **---** LATITUDE:
WELL CASING DIAMETER (in): LONGITUDE:
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

Depth (feet)	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)	Depth (feet)	Borehole Backfill
	SP	**SAND WITH SILT TRACE GRAVEL** ; tan; fine to medium-grained; loose; dry; no HC odor							
		Brown; asphalt gravel/shards Reddish tan; decrease in asphalt							
	SP	**SAND TRACE GRAVEL** ; reddish tan; loose; slightly moist; no HC odor; fine/medium/coarse-grained							
5					1000 HSA023@5'	5 6 6	0.1	5	
	SP	**SAND** ; orangeish tan; medium to coarse-grained; loose; slightly moist; no HC odor							
10					1005 HSA023@10'	4 7 8	0.0	10	
	SP	**SAND WITH GRAVEL TRACE SILT** ; orangeish tan; medium to coarse-grained; loose; moist; no HC odor							
15					1015 HSA023@15'	5 6 10	0.0	15	Bentonite Backfill
		Gray; medium dense; moist; moderate HC odor; decrease in Silt & Gravel							
20					1030 HSA023@20'	14 15 15	245	20	
		Increase in medium sand							
25					1035 HSA023@25'	6 13 15	203	25	
	SP	**SAND WITH SILT** ; gray; fine-grained; loose; slightly moist; moderate HC odor							
30					1040 HSA023@30'	6 8 9	263	30	
		Light gray; slight HC odor; decrease in Silt; increase in medium Sand			1045	4	53.4		

SECOR_SLO_MW CHEVRON-ORCUTT REF.GPJ SECOR_SLO.GDT 9/5/12

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **Santa Maria**
PROJECT NUMBER: **211802270**

WELL NO:
HSA023 PAGE 2 OF 3

DRILLING STARTED: **4/2/12** COMPLETED:
DRILLING COMPANY: **S/G**
DRILLING EQUIPMENT: **HSA, CME-85**
DRILLING METHOD:
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **95.0** NORTHING:
BOREHOLE DIAMETER (in): **8** EASTING:
WELL DEPTH (ft): **---** LATITUDE:
WELL CASING DIAMETER (in): LONGITUDE:
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)	Depth (feet)	Borehole Backfill
						HSA023@35'	10 19			
40		SP	**SAND** ; gray; fine to medium-grained; medium dense; slightly moist; moderate HC odor			1050 HSA023@40'	8 16 17	260	40	
45		SP	**SAND WITH SILT** ; gray; fine-grained; loose; slightly moist; moderate HC odor			1055 HSA023@45'	8 8 9	277	45	
50			Gray; medium dense; slightly moist; moderate HC odor; decrease in Silt, increase in medium Sand, trace coarse Sand			1100 HSA023@50'	5 10 18	440	50	Bentonite Backfill
55		SP	**SAND** ; gray; medium dense; slightly moist; moderate HC odor; fine/medium/coarse-grained			1105 HSA023@55'	8 17 22	333	55	
60			Moist; moderate HC odor; decrease in coarse sand, trace silt			1115 HSA023@60'	9 10 13	465	60	
65		SP	**SAND WITH GRAVEL** ; greenish gray; very dense; moist; moderate HC odor; fine/medium/coarse-grained			1130 HSA023@65'	50/6	238	65	
		SP	**SAND WITH SILT AND GRAVEL** ; green; medium to coarse-grained; dense; slightly moist; moderate HC odor; gravel is small			1140	30	512		

SECOR_SLO_MW CHEVRON-ORCUTT REF.GPJ SECOR_SLO.GDT 9/5/12

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **Santa Maria**
PROJECT NUMBER: **211802270**

WELL NO: **HSA023** PAGE 3 OF 3

DRILLING STARTED: **4/2/12** COMPLETED:
DRILLING COMPANY: **S/G**
DRILLING EQUIPMENT: **HSA, CME-85**
DRILLING METHOD:
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **95.0** NORTHING:
BOREHOLE DIAMETER (in): **8** EASTING:
WELL DEPTH (ft): **---** LATITUDE:
WELL CASING DIAMETER (in): LONGITUDE:
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

Depth (feet)	USCS	Description	Recovery	Sample	Time / Sample ID	Blow Count (Per 6")	Headspace PID (units)
	SP				HSA023@70'	30 22	
	SP	Dark grayish green; medium dense to dense; moderate HC odor; decrease in gravel & silt			1145 HSA023@75'	9 15 23	352
		SAND WITH SILT ; gray; dense; moist; moderate HC odor					
		SANDSTONE ; limited recovery			1200 HSA023@80'	20 50/3	56.9
	SP	**SAND WITH SILT** ; tan; fine to medium-grained; dense; slightly moist; slight HC odor			1215 HSA023@85'	6 21 26	16.2
		Tan; slightly moist; no HC odor; increase in coarse sand & small gravel			1230 HSA023@90'	20 21 27	0.0
	SP	**SAND WITH SILT AND GRAVEL** ; dark tan; medium to coarse-grained; medium dense; moist; no HC odor			1245 HSA023@95'	11 16 21	0.0
		Borehole terminated at 95 feet.					

Borehole Backfill: Bentonite Backfill

SECOR_SLO_MW CHEVRON-ORCUTT REF.GPJ SECOR_SLO.GDT 9/5/12

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **Santa Maria**
PROJECT NUMBER: **211802270**

WELL NO: **HSA024** PAGE 1 OF 3

DRILLING STARTED: **4/2/12** COMPLETED: **4/3/12**
DRILLING COMPANY: **S/G**
DRILLING EQUIPMENT: **HSA, CME-85**
DRILLING METHOD:
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **80.0** NORTHING:
BOREHOLE DIAMETER (in): **8** EASTING:
WELL DEPTH (ft): **---** LATITUDE:
WELL CASING DIAMETER (in): LONGITUDE:
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

Depth (feet)	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)	Depth (feet)	Borehole Backfill
	SP	**SAND WITH SILT AND GRAVEL** ; tan; fine to medium coarse-grained; loose; slightly moist; moderate HC odor; asphalt gravel/shards; dark brown							
	SP	**SAND** ; black; medium to coarse-grained; medium dense; slightly moist; moderate HC odor			1500 HSA024@5'	10 9 18	14.9		
5								5	
		Dark tan; loose; no HC odor							
		Tan			1510 HSA024@10'	3 5 6	0.0		
10								10	
		Fine to medium-grained; loose; slightly moist; no HC odor			1515 HSA024@15'	6 8 10	0.0		
15								15	Bentonite Backfill
		Loose to medium dense; no HC odor; increase in medium sand			1520 HSA024@20'	5 8 11	0.0		
20								20	
		Gray; fine-grained; medium dense; slightly moist; moderate HC odor			1525 HSA024@25'	6 12 12	19.4		
25								25	
	SP	**SAND WITH SILT** ; gray; fine-grained; loose; moist; moderate HC odor; decrease in Silt			1530 HSA024@30'	5 6 8	174		
30								30	
	SP	**SAND TRACE SILT** ; fine to medium-grained; slightly moist; moderate HC odor			1540	7	203		

SECOR_SLO_MW CHEVRON-ORCUTT REF.GPJ SECOR_SLO.GDT 9/5/12

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **Santa Maria**
PROJECT NUMBER: **211802270**

WELL NO: **HSA024** PAGE 2 OF 3

DRILLING STARTED: **4/2/12** COMPLETED: **4/3/12**
DRILLING COMPANY: **S/G**
DRILLING EQUIPMENT: **HSA, CME-85**
DRILLING METHOD:
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **80.0** NORTHING:
BOREHOLE DIAMETER (in): **8** EASTING:
WELL DEPTH (ft): **---** LATITUDE:
WELL CASING DIAMETER (in): LONGITUDE:
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

Depth (feet)	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)	Depth (feet)	Borehole Backfill
	SP				HSA024@35'	7 14			
40		Gray; medium dense; slightly moist; moderate HC odor; decrease in Silt, increase in Coarse Sand			4/3/12 0745 HSA024@40'	12 13 15	216	40	
	SP	**SAND WITH SILT** ; light gray; fine to medium-grained; loose; moist; moderate HC odor; decrease in Silt; medium dense			0800 HSA024@45'	4 5 12	17.6	45	
	SP	**SAND** ; gray; medium to coarse-grained; dense to very dense; moist to very moist; moderate HC odor			0805 HSA024@50'	31 21 40	2.8	50	Bentonite Backfill
55		**SAND** ; light tannish gray; loose; moist; moderate HC odor; fine/medium/coarse-grained			0810 HSA024@55'	5 8 11	5.3	55	
	SP	**SAND WITH SILT** ; tannish gray; fine to medium-grained; loose to medium dense; wet; slight HC odor			0815 HSA024@60'	7 10 17	8.4	60	
	SP	**SAND WITH SILT AND GRAVEL** ; dark tannish olive; very dense; moist to slightly moist; no HC odor			0820 HSA024@65'	50/6	0.3	65	
		Olive tan; moist; slight HC odor			0830	31	0.0		

SECOR_SLO_MW CHEVRON-ORCUTT REF.GPJ SECOR_SLO.GDT 9/5/12

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **Santa Maria**
PROJECT NUMBER: **211802270**

WELL NO: **HSA024** PAGE 3 OF 3

DRILLING STARTED: **4/2/12** COMPLETED: **4/3/12**
DRILLING COMPANY: **S/G**
DRILLING EQUIPMENT: **HSA, CME-85**
DRILLING METHOD:
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **80.0** NORTHING:
BOREHOLE DIAMETER (in): **8** EASTING:
WELL DEPTH (ft): **---** LATITUDE:
WELL CASING DIAMETER (in): LONGITUDE:
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)	Depth (feet)	Borehole Backfill
						HSA024@70'	50/6			
75			Olive; medium dense; moist; no HC odor; decrease in fine Sand			0840 HSA024@75'	11 17 30	0.0	75	Bentonite Backfill
		SP	**SAND** ; olive; coarse-grained; dense; moist to wet; slight HC odor			0845 HSA024@80'	20 28 20	0.0		
80			Borehole terminated at 80 feet.						80	
85									85	
90									90	
95									95	
100									100	

SECOR_SLO_MW CHEVRON-ORCUTT REF.GPJ SECOR_SLO.GDT 9/5/12

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **Santa Maria**
PROJECT NUMBER: **211802270**

WELL NO:
HSA025

DRILLING STARTED: **4/3/12** COMPLETED:
DRILLING COMPANY: **S/G**
DRILLING EQUIPMENT: **HSA, CME-85**
DRILLING METHOD:
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **100.0**
BOREHOLE DIAMETER (in): **8**
WELL DEPTH (ft): **---**
WELL CASING DIAMETER (in):
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

NORTHING:
EASTING:
LATITUDE:
LONGITUDE:

Depth (feet)	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)
	SP	**SAND WITH SILT AND GRAVEL** ; light brown; loose; dry; asphaltic gravel/shards Brown					
	SP	**SAND WITH ASPHALT** ; dark brown; fine to medium-grained; medium dense; dry; slight HC odor			1100 HSA025@5'	12 14 17	0.1
	SP	**SAND** ; tan; medium to coarse-grained; loose; slightly moist to moist; no HC odor			1115 HSA025@10'	4 5 10	0.0
	SP	**SAND** ; medium-grained; loose; moist; no HC odor Medium dense			1130 HSA025@15'	7 8 13	0.0
		No HC odor; no staining			1135 HSA025@20'	9 12 12	0.0
	SP	**SAND** ; gray; medium to coarse-grained; loose to medium dense; moist; slight HC odor			1140 HSA025@25'	5 9 11	2.4
		Grayish olive; moderate HC odor			1145 HSA025@30'	10 13 17	4.2
	SP	**SAND TRACE SILT** ; gray to dark gray; fine to medium-grained; medium dense; moist; increase in HC odor			1150	6	148

Borehole Backfill: Bentonite Backfill

SECOR_SLO_MW CHEVRON-ORCUTT REF.GPJ SECOR_SLO.GDT 9/5/12

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **Santa Maria**
PROJECT NUMBER: **211802270**

WELL NO:
HSA025 PAGE 2 OF 3

DRILLING STARTED: **4/3/12** COMPLETED:
DRILLING COMPANY: **S/G**
DRILLING EQUIPMENT: **HSA, CME-85**
DRILLING METHOD:
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **100.0** NORTHING:
BOREHOLE DIAMETER (in): **8** EASTING:
WELL DEPTH (ft): **---** LATITUDE:
WELL CASING DIAMETER (in): LONGITUDE:
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

Depth (feet)	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)	Depth (feet)	Borehole Backfill
	SP				HSA025@35'	15 17			
		Grayish tan; medium dense; slightly moist; moderate HC odor			1200 HSA025@40'	7 14 19	40.8	40	
40									
		Light greenish olive; loose; moist; moderate HC odor; increase in Silt			1210 HSA025@45'	4 5 9	6.2	45	
45									
	SP	**SAND** ; grayish tan; medium to coarse-grained; dense; moist; moderate HC odor			1215 HSA025@50'	16 26 28	6.3	50	
50									Bentonite Backfill
		SAND ; grayish tan; fine to medium-grained; medium dense to dense; slightly moist; moderate HC odor			1220 HSA025@55'	10 19 28	409	55	
55									
	SP	**SAND WITH SILT** ; grayish olive; fine to medium-grained; loose to medium dense; moist to very moist; moderate HC odor; increase in Silt; (Limited Recovery)			1230 HSA025@60'	8 10 11	NM	60	
60									
	SP	**CLAYEY SAND WITH GRAVEL** ; olive green; very dense; moist; moderate HC odor			1245 HSA025@65'	50/5	19.8	65	
65									
	ML	**SILT WITH FINE SAND** ; olive green; medium dense; slightly moist; moderate HC odor			1300	5	1.8		

SECOR_SLO_MW CHEVRON-ORCUTT REF.GPJ SECOR_SLO.GDT 9/5/12

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **Santa Maria**
PROJECT NUMBER: **211802270**

WELL NO:
HSA025

DRILLING STARTED: **4/3/12** COMPLETED:
DRILLING COMPANY: **S/G**
DRILLING EQUIPMENT: **HSA, CME-85**
DRILLING METHOD:
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **100.0** NORTHING:
BOREHOLE DIAMETER (in): **8** EASTING:
WELL DEPTH (ft): **---** LATITUDE:
WELL CASING DIAMETER (in): LONGITUDE:
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

Depth (feet)	USCS	Description	Recovery	Sample	Time / Sample ID	Blow Count (Per 6")	Headspace PID (units)	Borehole Backfill
	ML				HSA025@70'	14 17		
75	SP	**SAND WITH GRAVEL AND SILT** ; olive green; dense to very dense; very moist to wet; moderate HC odor			1315 HSA025@75'	20 32 50/5	141	
80	SP	**GRAVELLY SAND** ; dark grayish green; dense; moist; moderate HC odor			1330 HSA025@80'	22 19 21	114	
	SP	**SAND WITH SILT AND GRAVEL** ; gray; loose; saturated; moderate HC odor; sheen on sampler;						
85	SP	fine/medium/coarse-grained **SAND WITH SILT** ; gray; very dense; moist; moderate HC odor			1345 HSA025@85'	8 33 35	236	Bentonite Backfill
90	SP	**GRAVELLY SAND WITH SILT** ; green orangeish tan; very dense; moist; moderate HC odor; sheen on sampler			1400 HSA025@90'	40 50/6	57.5	
95	SP	**SAND TRACE SILT** ; greenish tan; medium dense; moist; moderate HC odor; fine/medium/coarse-grained			1415 HSA025@95'	9 15 18	63.6	
100	SP	**GRAVELLY SAND** ; olive tan; medium to coarse-grained; very dense; slightly moist to dry; slight HC odor			1430 HSA025@100'	25 32 35	13.9	
		Borehole terminated at 100 feet.						

SECOR_SLO_MW CHEVRON-ORCUTT REF.GPJ SECOR_SLO.GDT 9/5/12

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **Santa Maria**
PROJECT NUMBER: **211802270**

WELL NO:

HSA026

DRILLING STARTED: **4/4/12** COMPLETED:
DRILLING COMPANY: **S/G**
DRILLING EQUIPMENT: **HSA, CME-85**
DRILLING METHOD:
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **100.0**
BOREHOLE DIAMETER (in): **8**
WELL DEPTH (ft): **---**
WELL CASING DIAMETER (in):
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

NORTHING:
EASTING:
LATITUDE:
LONGITUDE:

Depth (feet)	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)	Depth (feet)	Borehole Backfill
	SP	**SAND WITH SILT AND GRAVEL** ; light brown; loose; no HC odor; (small rounded & subangular gravel, & asphaltic gravel/shards) Black							
5		Tan brown; very dense to loose; slightly moist; no HC odor; decrease in asphaltic gravel/shards and silt			0815 HSA026@5'	2 2 4	0.1	5	
	SP	**SAND** ; tan; medium to coarse-grained; loose; slightly moist; no HC odor			0820 HSA026@10'	7 8 9	0.0		
10								10	
15		Dark tan; medium dense; moist; no HC odor; increase in coarse sand			0830 HSA026@15'	6 8 11	0.0	15	Bentonite Backfill
20		Gray; moist; moderate HC odor			0835 HSA026@20'	7 16 20	27.3	20	
	SP	**SAND** ; gray; loose to medium dense; moist; moderate HC odor; fine/medium/coarse-grained			0840 HSA026@25'	9 10 11	57.7		
25								25	
		Medium dense; slightly moist							
30		Dense; moderate HC odor			0845 HSA026@30'	11 15 20	56.6	30	
	SP	**SAND** ; gray; fine to medium-grained; loose to medium dense; slightly moist; moderate HC odor; trace coarse sand			0850	7	42.3		

SECOR_SLO_MW CHEVRON-ORCUTT REF.GPJ SECOR_SLO.GDT 9/5/12

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **Santa Maria**
PROJECT NUMBER: **211802270**

WELL NO:
HSA026 PAGE 2 OF 3

DRILLING STARTED: **4/4/12** COMPLETED:
DRILLING COMPANY: **S/G**
DRILLING EQUIPMENT: **HSA, CME-85**
DRILLING METHOD:
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **100.0** NORTHING:
BOREHOLE DIAMETER (in): **8** EASTING:
WELL DEPTH (ft): **---** LATITUDE:
WELL CASING DIAMETER (in): LONGITUDE:
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

Depth (feet)	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)
	SP				HSA026@35'	13 18	
40	SP	**SAND WITH SILT** ; gray; very fine to fine-grained; medium dense; slightly moist; moderate HC odor			0900 HSA026@40'	9 14 18	371
45	ML	**SILT WITH FINE SAND AND CLAY** ; gray; soft; wet; moderate HC odor			0910 HSA026@45'	4 5 7	154
50	SP	**SAND TRACE GRAVEL** ; grayish tan; medium to coarse-grained; medium dense; slightly moist; moderate HC odor; gravel small rounded			0915 HSA026@50'	9 18 20	21.0
55	SP	**SAND WITH SILT** ; dark tan; loose; moist; moderate HC odor; light gray staining			0920 HSA026@55'	4 9 7	498
60		Olive; loose to medium dense; moist to very moist; moderate HC odor			0930 HSA026@60'	6 6 15	31.0
65	SP	**SAND WITH SILT** ; green; very fine to fine-grained; dense; slightly moist; slight HC odor			0940 HSA026@65'	20 25 19	2.3
	ML	**SILT WITH FINE SAND AND CLAY** ; olive green; medium dense; moist; slight HC odor			0945	5	1.4

Borehole Backfill: Bentonite Backfill

SECOR_SLO_MW CHEVRON-ORCUTT REF.GPJ SECOR_SLO.GDT 9/5/12

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **Santa Maria**
PROJECT NUMBER: **211802270**

WELL NO: **HSA026** PAGE 3 OF 3

DRILLING STARTED: **4/4/12** COMPLETED:
DRILLING COMPANY: **S/G**
DRILLING EQUIPMENT: **HSA, CME-85**
DRILLING METHOD:
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **100.0** NORTHING:
BOREHOLE DIAMETER (in): **8** EASTING:
WELL DEPTH (ft): **---** LATITUDE:
WELL CASING DIAMETER (in): LONGITUDE:
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

Depth (feet)	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)	Depth (feet)	Borehole Backfill
	ML				HSA026@70'	10 20			
75	SP	**GRAVELLY SAND WITH SILT** ; olive; medium dense to dense; slightly moist to dry; slight HC odor			0950 HSA026@75'	9 18 30	1.0	75	
80		Dark green; very moist to wet; moderate HC odor; decrease in silt; increase in coarse sand; gray mottles			1000 HSA026@80'	8 11 26	182	80	
	SP	**GRAVELLY SAND WITH SILT** ; grayish green; loose; saturated; moderate HC odor; water on sampler							
85	SP	**SAND WITH SILT** ; grayish green; fine-grained; medium dense; moist; moderate HC odor			1015 HSA026@85'	5 10 16	182	85	Bentonite Backfill
	SP	**GRAVELLY SAND WITH SILT** ; grayish green; very dense; saturated; moderate HC odor			1030 HSA026@90'	2 50/3	116	90	
95		Orangeish tan; dense; moist; gray/green mottles; decrease in Silt & Gravel, increse in coarse Sand			1045 HSA026@95'	15 25 28	23.9	95	
	SP	**SAND WITH GRAVEL** ; gray; medium to coarse-grained; dense; moist; moderate HC odor			1100 HSA026@100'	13 20 25	186	100	
100		Borehole terminated at 100 feet.							

SECOR_SLO_MW CHEVRON-ORCUTT REF.GPJ SECOR_SLO.GDT 9/5/12

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **Santa Maria**
PROJECT NUMBER: **211802270**

WELL NO:

HSA027

DRILLING STARTED: **4/4/12** COMPLETED:
DRILLING COMPANY: **S/G**
DRILLING EQUIPMENT: **HSA, CME-85**
DRILLING METHOD:
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **40.0** NORTHING:
BOREHOLE DIAMETER (in): **6** EASTING:
WELL DEPTH (ft): **---** LATITUDE:
WELL CASING DIAMETER (in): LONGITUDE:
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

Depth (feet)	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)	Depth (feet)	Borehole Backfill
0	SP	**SAND WITH SILT AND GRAVEL** ; brown; loose; dry; no HC odor; asphaltic gravel/shards Dark brown; increase in asphalt; Dark tan; no asphaltic gravel/shards						0	
5	SP	**SAND TRACE SILT** ; dark tan; very dense; dry; no HC odor			1310 HSA027@5	2 3 2	0.1	5	
10		Tan; slightly moist; no HC odor			1315 HSA027@10'	7 8 7	0.0	10	
15	SP	**SAND** ; tan; medium to coarse-grained; loose; slightly moist; no HC odor; trace fine sand			1320 HSA027@15'	5 9 9	0.0	15	
20	SP	**SAND** ; tan; fine to medium-grained; medium dense; no HC odor			1325 HSA027@20'	10 10 18	0.0	20	Bentonite Backfill
25	SP	**SAND TRACE SILT** ; tan; very fine to fine-grained; loose to medium dense; slightly moist; no HC odor			1330 HSA027@25'	5 9 17	0.0	25	
30	SP	**SAND** ; tan; medium to coarse-grained; medium dense to dense; slightly moist; no HC odor			1335 HSA027@30'	11 28 21	0.0	30	
35	SP	**SAND** ; tan; fine to medium-grained; loose to medium dense; slightly moist; no HC odor; trace coarse sand			1340 HSA027@35'	7 13 17	0.0	35	
40	SP	**SAND WITH SILT** ; dark tan; very fine to fine-grained; loose; slightly moist; no HC odor			1345 HSA027@40'	3 4 9	0.0	40	
		Borehole terminated at 40 feet.							

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **Santa Maria**
PROJECT NUMBER: **211802270**

WELL NO:

HSA028

DRILLING STARTED: **4/4/12** COMPLETED: **4/5/12**
DRILLING COMPANY: **S/G**
DRILLING EQUIPMENT: **HSA, CME-85**
DRILLING METHOD:
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **75.0**
BOREHOLE DIAMETER (in): **8**
WELL DEPTH (ft): **---**
WELL CASING DIAMETER (in):
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

NORTHING:
EASTING:
LATITUDE:
LONGITUDE:

Depth (feet)	USCS	Description	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)	Borehole Backfill
0	SP	**SAND WITH SILT** ; tan; fine to medium-grained; loose; dry; no HC odor				
		Slightly moist; no HC odor; trace silt	1500 HSA028@5'	4 9 8	0.1	
10	SP	**SAND** ; dark tan; medium to coarse-grained; loose; slightly moist; no HC odor	1505 HSA028@10'	5 9 10	0.0	
15		Gray; medium dense; moist to very moist; moderate HC odor	1510 HSA028@15'	5 9 15	63.2	
20		Gray; moist; moderate HC odor; increase in medium sand	1515 HSA028@20'	7 7 10	60.8	Bentonite Backfill
25	SP	**SAND** ; gray; fine to medium-grained; loose to medium dense; slightly moist; moderate HC odor	1520 HSA028@25'	5 10 13	161	
30		**SAND** ; gray; fine to coarse-grained; dense; slightly moist; moderate HC odor; trace gravel	1525 HSA028@30'	23 26 32	120	
35		Moderate HC odor; decrease in Fine Sand	1530 HSA028@35'	6 7 10	142	
	SP	**SAND WITH SILT** ; dark gray; very fine to fine-grained; loose; moist; moderate HC odor	1540	6	166	

SECOR_SLO_MW CHEVRON-ORCUTT REF.GPJ SECOR_SLO.GDT 9/5/12

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **Santa Maria**
PROJECT NUMBER: **211802270**

WELL NO:

HSA028 PAGE 2 OF 2

DRILLING STARTED: **4/4/12** COMPLETED: **4/5/12**
DRILLING COMPANY: **S/G**
DRILLING EQUIPMENT: **HSA, CME-85**
DRILLING METHOD:
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **75.0** NORTHING:
BOREHOLE DIAMETER (in): **8** EASTING:
WELL DEPTH (ft): **---** LATITUDE:
WELL CASING DIAMETER (in): LONGITUDE:
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

Depth (feet)	USCS	Description	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)
	SP		HSA028@40'	6 10	
45		**SAND** ; gray; fine to medium-grained; medium dense; slightly moist; moderate HC odor	4/5/12 0745 HSA028@45'	11 20 32	111
50		Moderate HC odor; increase in medium sand	0800 HSA028@50'	17 20 20	110
55	SP	**SAND WITH SILT** ; dark gray black; fine to medium-grained; loose; moist; moderate HC odor	0810 HSA028@55'	6 7 10	131
60		Tan; dense; slightly moist; moderate HC odor; olive gray mottles; trace silt, decrease in meidum sand	0845 HSA028@60'	16 20 33	48.4
65	SP	**SAND WITH GRAVEL** ; tan; medium to coarse-grained; very dense; slightly moist; slight HC odor; green mottles; gravel is subangular	0900 HSA028@65'	15 40 41	18.4
70		Green; very dense; moist; moderate HC odor; increase in medium sand	0915 HSA028@70'	21 50/1	20.0
75	SP	**SAND WITH GRAVEL** ; olive tan; medium to coarse-grained; dense to very dense; slightly moist; slight HC odor	0930 HSA028@75'	16 35 32	5.4
		Borehole terminated at 75 feet.			

Borehole Backfill: Bentonite Backfill

SECOR_SLO_MW CHEVRON-ORCUTT REF.GPJ SECOR_SLO.GDT 9/5/12

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **Santa Maria**
PROJECT NUMBER: **211802270**

WELL NO:
HSA029

DRILLING STARTED: **4/5/12** COMPLETED:
DRILLING COMPANY: **S/G**
DRILLING EQUIPMENT: **HSA, CME-85**
DRILLING METHOD:
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **85.0**
BOREHOLE DIAMETER (in): **8**
WELL DEPTH (ft): **---**
WELL CASING DIAMETER (in):
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

NORTHING:
EASTING:
LATITUDE:
LONGITUDE:

Depth (feet)	USCS	Description	Recovery	Sample	Time / Sample ID	Blow Count (Per 6")	Headspace PID (units)
	SP	**SAND WITH SILT** ; light brown; loose; dry; no HC odor					
		Brown; slightly moist					
		Orangeish tan					
	SP	**SAND** ; orangeish tan; fine to medium-grained; loose; slightly moist; no HC odor			1115 HSA029@5'	4 8 11	0.0
5							
		SAND ; dark tan; medium to coarse-grained; loose; slightly moist; no HC odor			1130 HSA029@10'	6 7 9	0.1
10							
		Medium dense; no HC odor; increase in coarse sand			1135 HSA029@15'	7 11 17	0.0
15							
	SP	**SAND** ; dark gray; fine to coarse-grained; medium dense; moist; moderate HC odor			1140 HSA029@20'	9 21 14	55.6
20							
		SAND ; dark gray; fine to medium-grained; medium dense; very moist; moderate HC odor; trace coarse sand			1145 HSA029@25'	6 12 23	93.6
25							
		SAND TRACE SILT ; dark gray; fine to medium-grained; medium dense; moist; moderate HC odor; increse in Silt			1150	12	111

Borehole Backfill: Bentonite Backfill

SECOR_SLO_MW CHEVRON-ORCUTT REF.GPJ SECOR_SLO.GDT 9/5/12

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **Santa Maria**
PROJECT NUMBER: **211802270**

WELL NO:
HSA029

DRILLING STARTED: **4/5/12** COMPLETED:
DRILLING COMPANY: **S/G**
DRILLING EQUIPMENT: **HSA, CME-85**
DRILLING METHOD:
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **85.0** NORTHING:
BOREHOLE DIAMETER (in): **8** EASTING:
WELL DEPTH (ft): **---** LATITUDE:
WELL CASING DIAMETER (in): LONGITUDE:
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)	Depth (feet)	Borehole Backfill
						HSA029@30'	12 13			
		SP	**SAND** ; gray; fine to medium-grained; medium dense; moist; moderate HC odor							
35			Very moist			1200 HSA029@35'	7 14 25	116	35	
			Gray; slightly moist; moderate HC odor; trace black gravels							
40						1210 HSA029@40'	7 12 13	51.2	40	
			Gray; medium-grained; loose to medium dense; slightly moist; moderate HC odor							
45						1215 HSA029@45'	9 13 14	64.8	45	
			SAND ; gray; medium-grained; loose to medium dense; slightly moist; moderate HC odor							
50						1230 HSA029@50'	6 9 15	49.1	50	
		SP	**SAND WITH SILT** ; dark gray black; fine to medium-grained; medium dense; slightly moist; moderate HC odor							Bentonite Backfill
55						1245 HSA029@55'	9 12 14	49.4	55	
			Dark gray; dense; very moist to wet; moderate HC odor; decrease in fine sand; green mottles; dry in shoe			1300	8	43.6		

SECOR_SLO_MW CHEVRON-ORCUTT REF.GPJ SECOR_SLO.GDT 9/5/12

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **Santa Maria**
PROJECT NUMBER: **211802270**

WELL NO:
HSA029

DRILLING STARTED: **4/5/12** COMPLETED:
DRILLING COMPANY: **S/G**
DRILLING EQUIPMENT: **HSA, CME-85**
DRILLING METHOD:
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **85.0** NORTHING:
BOREHOLE DIAMETER (in): **8** EASTING:
WELL DEPTH (ft): **---** LATITUDE:
WELL CASING DIAMETER (in): LONGITUDE:
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

Depth (feet)	USCS	Description	Recovery	Sample	Time / Sample ID	Blow Count (Per 6")	Headspace PID (units)	Depth (feet)	Borehole Backfill
					HSA029@60'	27 30			
65		Green; moist Tan; very dense; dry; slight HC odor; green mottles; sandstone gravels			1315 HSA029@65'	8 30 50/6	20.5	65	
70	SP	**SAND WITH SILT AND SANDSTONE** ; green; very fine to fine-grained; very dense; slightly moist to moist; moderate HC odor; gray mottles			1320 HSA029@70'	11 50/6	15.2	70	
75		Dark tan; very dense; slightly moist to dry; slight HC odor; olive gray mottles			1330 HSA029@75'	15 50/6	20.3	75	
80	SP	**SAND WITH SANDSTONE GRAVEL** ; grayish green; fine to medium-grained; medium dense; moderate HC odor			1345 HSA029@80'	20 17 12	31.6	80	Bentonite Backfill
		Water on sampler							
85	ML	**SILT WITH SAND** ; orangeish tan; very fine to fine-grained; soft to medium dense; moist; no HC odor Borehole terminated at 85 feet.			1400 HSA029@85'	9 12 16	1.3	85	

SECOR_SLO_MW CHEVRON-ORCUTT REF.GPJ SECOR_SLO.GDT 9/5/12

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **1550 W. Stowell Road, Santa Maria**
PROJECT NUMBER:

WELL NO:

SG-1 PAGE 1 OF 1

Stantec

DRILLING STARTED: **1/28/13** COMPLETED: **1/28/13**
DRILLING COMPANY: **OEC**
DRILLING EQUIPMENT: **Hand Auger/Geoprobe**
DRILLING METHOD: **Direct Push**
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **15.5** NORTHING:
BOREHOLE DIAMETER (in): EASTING:
WELL DEPTH (ft): **---** LATITUDE:
WELL CASING DIAMETER (in): LONGITUDE:
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)	Depth (feet)	Borehole Backfill
		SP	**SAND WITH SOME SILT** ; Dark brown; fine/medium-grained sand; loose; dry; no HC odor							Cement
			Hard, brittle tar/glass fragments							Hydrated bentonite
			Medium/coarse-sand; dry; medium dense; no HC odor							Dry bentonite
			Dark brown/black; dense to very dense							
5		SP	**OILY SAND WITH SILT AND TAR** ; Black with grey mottles; slightly moist; dense; HC odor			SG-1-6			5	Sand/Probe
			Increase in medium/coarse-grained sand							Hydrated bentonite
10			**TAR** ; Black; soft; plastic						10	
		SW	**SAND** ; Tan; fine/medium with trace coarse-grained sand; loose; dry; HC odor							Dry bentonite
15			Borehole terminated at 15.5 feet.						15	Sand/Probe

SECOR_SLO_MW SG1-16.GPJ SECOR_SLO.GDT 8/1/13

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **1550 W. Stowell Road, Santa Maria**
PROJECT NUMBER:

WELL NO: **SG-2** PAGE 1 OF 1

DRILLING STARTED: **1/28/13** COMPLETED: **1/28/13**
DRILLING COMPANY: **OEC**
DRILLING EQUIPMENT: **Hand Auger/Geoprobe**
DRILLING METHOD: **Direct Push**
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **15.5** NORTHING:
BOREHOLE DIAMETER (in): EASTING:
WELL DEPTH (ft): **---** LATITUDE:
WELL CASING DIAMETER (in): LONGITUDE:
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)
		ML	**SILT WITH SAND** ; Dark brown; very fine-grained sand; soft; dry; no HC odor					
			Dry; hard asphaltic gravel					
		SP	**OILY SAND WITH SILT** ; Black; fine/medium-grained sand; soft; loose; HC odor					
			Decrease in oily/tar deposits					
		SP	**SAND WITH TRACE SILT** ; Dark tan; fine/medium-grained sand; slightly moist; very loose; no HC odor					
5								
			Decrease in fine-grained sand; trace coarse-grained sand; tan; loose; no HC odor					
10								
15								
			Borehole terminated at 15.5 feet.					

Depth (feet)	Borehole Backfill
	Cement
	Hydrated bentonite
	Dry bentonite
5	Sand/Probe
10	Hydrated bentonite
	Dry bentonite
15	Sand/Probe

SECOR_SLO_MW SG1-16.GPJ SECOR_SLO.GDT 8/1/13

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **1550 W. Stowell Road, Santa Maria**
PROJECT NUMBER:

WELL NO:

SG-3 PAGE 1 OF 1

Stantec

DRILLING STARTED: **1/29/13** COMPLETED: **1/29/13**
DRILLING COMPANY: **OEC**
DRILLING EQUIPMENT: **Hand Auger/Geoprobe**
DRILLING METHOD: **Direct Push**
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **15.5** NORTHING:
BOREHOLE DIAMETER (in): EASTING:
WELL DEPTH (ft): **---** LATITUDE:
WELL CASING DIAMETER (in): LONGITUDE:
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)
		SP	**GRAVELLY SAND** ; Tan; dense; dry; no HC odor					
		SP	**SAND** ; Tan; medium-grained sand; dry; loose; no HC odor					
5								
10		ML	**SILT WITH SOME SAND** ; Tan; medium/coarse-grained sand; slightly moist; soft; no HC odor Small grey stain; no HC odor					
		SP	**SAND** ; Tan; medium/coarse-grained sand; dry; loose; no HC odor					
15			Borehole terminated at 15.5 feet.					

Borehole Backfill: Cement; Hydrated bentonite; Dry bentonite; Sand/Probe; Hydrated bentonite; Dry bentonite; Sand/Probe

SECOR_SLO_MW SG1-16.GPJ SECOR_SLO.GDT 8/1/13

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **1550 W. Stowell Road, Santa Maria**
PROJECT NUMBER:

WELL NO:

SG-4 PAGE 1 OF 1

Stantec

DRILLING STARTED: **1/29/13** COMPLETED: **1/29/13**
DRILLING COMPANY: **OEC**
DRILLING EQUIPMENT: **Hand Auger/Geoprobe**
DRILLING METHOD: **Direct Push**
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **15.5** NORTHING:
BOREHOLE DIAMETER (in): EASTING:
WELL DEPTH (ft): **---** LATITUDE:
WELL CASING DIAMETER (in): LONGITUDE:
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)	Depth (feet)	Borehole Backfill
		SW	**SAND WITH ASPHALTIC GRAVEL** ; Tan; fine/medium-grained sand; dry; medium dense; no HC odor							Cement
			Decrease in asphaltic gravel							Hydrated bentonite
		SP-SM	**SAND WITH SILT** ; Fine-grained sand; poorly graded; tan; loose; dry; no HC odor							Dry bentonite
5						SG-4-4.5'			5	Sand/Probe
			Fine/medium-grained sand							
			Slightly moist							
		SP	**SAND** ; Tan; medium with some fine-grained sand; loose; dry; no HC odor							Hydrated bentonite
10									10	
										Dry bentonite
15						SG-4-14.5'			15	Sand/Probe
			Borehole terminated at 15.5 feet.							

SECOR_SLO_MW SG1-16.GPJ SECOR_SLO.GDT 8/1/13

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **1550 W. Stowell Road, Santa Maria**
PROJECT NUMBER:

WELL NO:

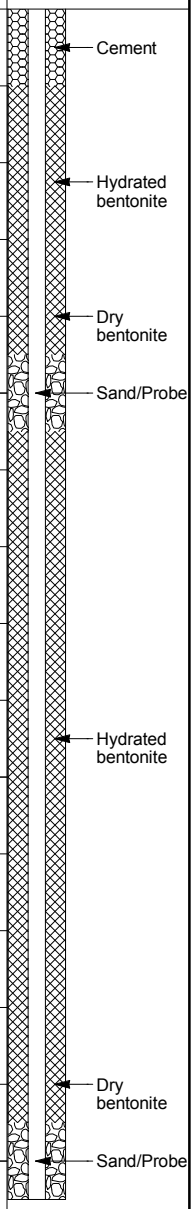
SG-5 PAGE 1 OF 1

Stantec

DRILLING STARTED: **1/30/13** COMPLETED: **1/30/13**
DRILLING COMPANY: **OEC**
DRILLING EQUIPMENT: **Hand Auger/Geoprobe**
DRILLING METHOD: **Direct Push**
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **15.5** NORTHING:
BOREHOLE DIAMETER (in): EASTING:
WELL DEPTH (ft): **---** LATITUDE:
WELL CASING DIAMETER (in): LONGITUDE:
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)
		SP	**SAND WITH SILT** ; Tan; fine/medium-grained sand; dry; very loose; cement fragments; no HC odor					
			Decrease in cement fragments					
			Dark brown; black asphaltic fragments; HC odor					
		SP	**TAR/SAND** ; Black; medium/coarse-grained sand; hard; dry; HC odor					
5								
			Slightly moist					
10								
15								
			Borehole terminated at 15.5 feet.					



SECOR_SLO_MW SG1-16.GPJ SECOR_SLO.GDT 8/1/13

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **1550 W. Stowell Road, Santa Maria**
PROJECT NUMBER:

WELL NO:

SG-6 PAGE 1 OF 1

Stantec

DRILLING STARTED: **1/29/13** COMPLETED: **1/29/13**
DRILLING COMPANY: **OEC**
DRILLING EQUIPMENT: **Hand Auger/Geoprobe**
DRILLING METHOD: **Direct Push**
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **15.5** NORTHING:
BOREHOLE DIAMETER (in): EASTING:
WELL DEPTH (ft): **---** LATITUDE:
WELL CASING DIAMETER (in): LONGITUDE:
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)	Depth (feet)	Borehole Backfill
		SW	**SAND WITH GRAVEL** ; Tan; fine/medium/coarse-grained sand; dense; no HC odor							Cement
			Dark brown; very dense; decrease in gravel; strong HC/sulfur odor							Hydrated bentonite
			Grey/black; HC/sulfur odor							
		SW	**TARRY SAND** ; Black; slightly moist							Dry bentonite
5			Dry						5	Sand/Probe
10			Very moist			1500 SG-6-10'		8.6	10	Hydrated bentonite
			Saturated; water flowing into boring							Dry bentonite
15						1515 SG-6-15'		10.3	15	Sand/Probe
			Borehole terminated at 15.5 feet.							

SECOR_SLO_MW SG1-16.GPJ SECOR_SLO.GDT 8/1/13

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **1550 W. Stowell Road, Santa Maria**
PROJECT NUMBER:

WELL NO:

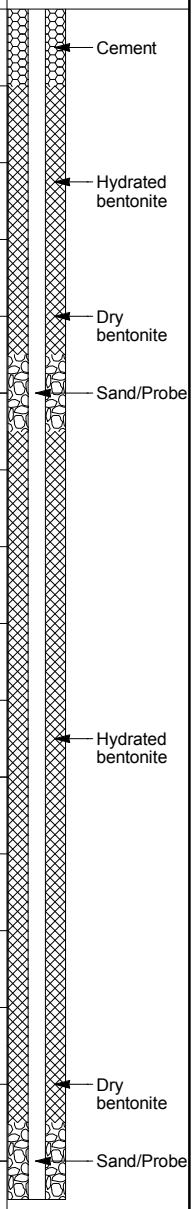
SG-7 PAGE 1 OF 1

Stantec

DRILLING STARTED: **1/30/13** COMPLETED: **1/30/13**
DRILLING COMPANY: **OEC**
DRILLING EQUIPMENT: **Hand Auger/Geoprobe**
DRILLING METHOD: **Direct Push**
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **15.5** NORTHING:
BOREHOLE DIAMETER (in): EASTING:
WELL DEPTH (ft): **---** LATITUDE:
WELL CASING DIAMETER (in): LONGITUDE:
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)
		SP	**SAND WITH SILT** ; Tan; fine/medium-grained sand; loose; dry; no HC odor					
			Some subrounded gravel					
			HC odor					
			Dark brown with black mottles; moist					
		SP	**ASPHALTIC SAND/GRAVEL** ; Black; dry; hard; sulfur/HC odor					
5								
		SP	**SAND** ; Grey; medium/coarse-grained sand; slightly moist; medium dense; HC/sulfur odor					
10								
15								
			Borehole terminated at 15.5 feet.					



SECOR_SLO_MW SG1-16.GPJ SECOR_SLO.GDT 8/1/13

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **1550 W. Stowell Road, Santa Maria**
PROJECT NUMBER:

WELL NO:

SG-8 PAGE 1 OF 1

Stantec

DRILLING STARTED: **1/30/13** COMPLETED: **1/30/13**
DRILLING COMPANY: **OEC**
DRILLING EQUIPMENT: **Hand Auger/Geoprobe**
DRILLING METHOD: **Direct Push**
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **15.5** NORTHING:
BOREHOLE DIAMETER (in): EASTING:
WELL DEPTH (ft): **---** LATITUDE:
WELL CASING DIAMETER (in): LONGITUDE:
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)
		ML	**SILT WITH SAND AND TRACE GRAVEL** ; Tan; very fine-grained sand; small gravel; very soft; no HC odor					
			Decrease in gravel					
5		SP	**SAND WITH TRACE SILT** ; Tan; fine-grained sand; loose; dry; no HC odor					
		ML	**SILT WITH SAND** ; Tan; fine/very fine-grained sand; soft; slightly moist; no HC odor					
		SP	**SAND WITH SILT** ; Tan; very fine-grained sand; slightly moist; loose; no HC odor					
10			**SAND** ; Tan; fine-grained sand; slightly moist; loose; no HC odor					
			SAND WITH SOME GRAVEL ; Tan; medium/coarse-grained sand; subrounded gravel; loose; slightly moist; no HC odor					
15			Borehole terminated at 15.5 feet.					

Depth (feet)	Borehole Backfill
	Cement
	Hydrated bentonite
	Dry bentonite
5	Sand/Probe
10	Hydrated bentonite
	Dry bentonite
15	Sand/Probe

SECOR_SLO_MW SG1-16.GPJ SECOR_SLO.GDT 8/1/13

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **1550 W. Stowell Road, Santa Maria**
PROJECT NUMBER:

WELL NO:

SG-9 PAGE 1 OF 1

Stantec

DRILLING STARTED: **1/29/13** COMPLETED: **1/29/13**
DRILLING COMPANY: **OEC**
DRILLING EQUIPMENT: **Hand Auger/Geoprobe**
DRILLING METHOD: **Direct Push**
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **15.5** NORTHING:
BOREHOLE DIAMETER (in): EASTING:
WELL DEPTH (ft): **---** LATITUDE:
WELL CASING DIAMETER (in): LONGITUDE:
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)	Depth (feet)	Borehole Backfill
		SW	**SAND AND SOME GRAVEL** ; Tan; fine/medium with trace coarse-grained sand; subrounded gravel; dry; loose; no HC odor							Cement
			Decrease in gravel							Hydrated bentonite
		SP	**SAND** ; Fine-grained sand; poorly graded; dark tan; loose; dry; no HC odor							Dry bentonite
5						SG-9-4.5'			5	Sand/Probe
		SW	**SAND** ; Medium/coarse-grained with some fine-grained sand; dark tan; loose; dry; no HC odor							
		ML	**SILT WITH SAND** ; Tan; fine/medium-grained sand; slightly moist; soft; no HC odor							
		SP	**SAND** ; Tan; medium-grained sand; loose; dry; no HC odor							Hydrated bentonite
10									10	
										Dry bentonite
15						SG-9-14.5'			15	Sand/Probe
			Borehole terminated at 15.5 feet.							

SECOR_SLO_MW SG1-16.GPJ SECOR_SLO.GDT 8/1/13

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **1550 W. Stowell Road, Santa Maria**
PROJECT NUMBER:

WELL NO:

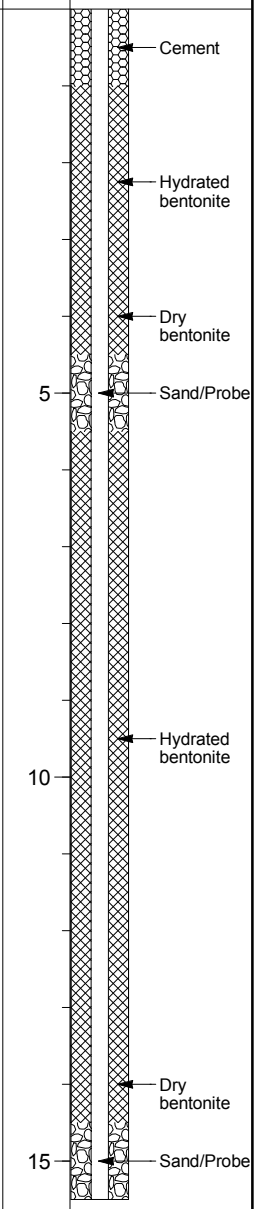
SG-10 PAGE 1 OF 1

Stantec

DRILLING STARTED: **1/28/13** COMPLETED: **1/28/13**
DRILLING COMPANY: **OEC**
DRILLING EQUIPMENT: **Hand Auger/Geoprobe**
DRILLING METHOD: **Direct Push**
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **15.5** NORTHING:
BOREHOLE DIAMETER (in): EASTING:
WELL DEPTH (ft): **---** LATITUDE:
WELL CASING DIAMETER (in): LONGITUDE:
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)
		SP	**SAND WITH SILT AND SOME GRAVEL** ; Dark tan; fine/medium-grained sand; medium dense; no HC odor					
			Orange/tan; fine/medium-grained sand; trace silt; loose					
5			Trace large subrounded gravel					
		ML	**SILT WITH SAND** ; Brown; fine/medium/coarse-grained sand; slightly moist; soft; no HC odor					
		SW	**SAND** ; Tan; fine/medium/coarse-grained sand; loose; no HC odor					
10			Coarse/medium-grained sand with some fine-grained sand					
15			Borehole terminated at 15.5 feet.					



SECOR_SLO_MW SG1-16.GPJ SECOR_SLO.GDT 8/1/13

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **1550 W. Stowell Road, Santa Maria**
PROJECT NUMBER:

WELL NO:

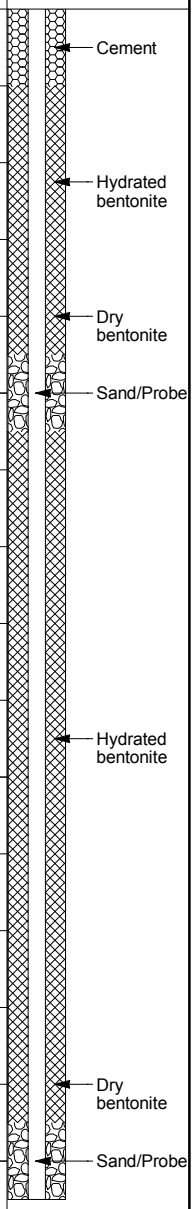
SG-11 PAGE 1 OF 1

Stantec

DRILLING STARTED: **1/29/13** COMPLETED: **1/29/13**
DRILLING COMPANY: **OEC**
DRILLING EQUIPMENT: **Hand Auger/Geoprobe**
DRILLING METHOD: **Direct Push**
SAMPLING EQUIPMENT:
LOGGED BY: **RD** CHECKED BY:

BOREHOLE DEPTH (ft): **15.5** NORTHING:
BOREHOLE DIAMETER (in): EASTING:
WELL DEPTH (ft): **---** LATITUDE:
WELL CASING DIAMETER (in): LONGITUDE:
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)
		SW	**SAND WITH SOME GRAVEL** ; Tan; fine/medium/coarse-grained sand; dry; loose; no HC odor Dark brown/black; dry; asphaltic gravel; slight HC odor					
		SP	**SAND WITH TRACE SILT** ; Tan; fine/medium-grained sand; loose; dry; no HC odor					
5			Medium-grained sand; orange/tan; loose; slightly moist; no HC odor					
10								
		ML	**SILT WITH SAND** ; Grey; fine/medium-grained sand; slightly moist; soft; slight HC odor					
15			Borehole terminated at 15.5 feet.					



CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **1550 W. Stowell Road, Santa Maria**
PROJECT NUMBER:

WELL NO:

SG-17 PAGE 1 OF 1

Stantec

DRILLING STARTED: **6/18/13** COMPLETED: **6/18/13**
DRILLING COMPANY: **H&P**
DRILLING EQUIPMENT: **Truck Mounted**
DRILLING METHOD: **Direct Push**
SAMPLING EQUIPMENT:
LOGGED BY: **BL** CHECKED BY: **BL**

BOREHOLE DEPTH (ft): **15.3**
BOREHOLE DIAMETER (in): **18**
WELL DEPTH (ft): **---**
WELL CASING DIAMETER (in):
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

NORTHING:
EASTING:
LATITUDE:
LONGITUDE:

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)	Depth (feet)	Borehole Backfill
		SP	**SAND WITH SOME SILT** ; dark brown; fine to medium grained sand; 5% gravel up to 1 subrounded; dry; loose; no hydrocarbon odor							Cement
			Moist							Hydrated bentonite
						0910 SG-17 @ 3'		0.0		
			Some black stained sand; faint hydrocarbon odor; fine sand; <5% asphaltic fragments up to 1/4 in size							Dry bentonite
						0920 SG-17 @ 5'		NM		
5			Sand with trace silt; light tan						5	Sand/Probe
										Hydrated bentonite
						0930 SG-17 @ 10'		0.0		
10			No hydrocarbon odor						10	
										Dry bentonite
			Sand with silt; medium sand							
						0940 SG-17 @ 15'		0.0		Sand/Probe
15			Borehole terminated at 15.25 feet.						15	

SECOR_SLO_MW SG1-16.GPJ SECOR_SLO.GDT 8/1/13

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **1550 W. Stowell Road, Santa Maria**
PROJECT NUMBER:

WELL NO:

SG-18 PAGE 1 OF 1

Stantec

DRILLING STARTED: **6/18/13** COMPLETED: **6/18/13**
DRILLING COMPANY: **H&P**
DRILLING EQUIPMENT: **Truck Mounted**
DRILLING METHOD: **Direct Push**
SAMPLING EQUIPMENT:
LOGGED BY: **BL** CHECKED BY: **BL**

BOREHOLE DEPTH (ft): **15.3**
BOREHOLE DIAMETER (in): **18**
WELL DEPTH (ft): **---**
WELL CASING DIAMETER (in):
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

NORTHING:
EASTING:
LATITUDE:
LONGITUDE:

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)	Depth (feet)	Borehole Backfill
		SP	**SAND WITH TRACE SILT** ; fine grained sand with 5% coarse grained sand; loose; moist; no hydrocarbon odor			1010 SG-18 @ 3'		0.0		Cement
			Fine and medium grained sand (equal distribution); 5% gravel			1020 SG-18 @ 5'		0.0		Hydrated bentonite
5			Fine sand						5	Dry bentonite
										Sand/Probe
			75% medium grained sand, 25 % fine grained sand			1030 SG-18 @ 10'		0.0	10	Hydrated bentonite
10										
			Predominately medium grained sand; some fine grained sand; 3% fine gravel			1040 SG-18 @ 15'		0.0		Dry bentonite
15			Borehole terminated at 15.25 feet.						15	Sand/Probe

SECOR_SLO_MW SG1-16.GPJ SECOR_SLO.GDT 8/1/13

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **1550 W. Stowell Road, Santa Maria**
PROJECT NUMBER:

WELL NO:

SG-19 PAGE 1 OF 1

Stantec

DRILLING STARTED: **6/18/13** COMPLETED: **6/18/13**
DRILLING COMPANY: **H&P**
DRILLING EQUIPMENT: **Truck Mounted**
DRILLING METHOD: **Direct Push**
SAMPLING EQUIPMENT:
LOGGED BY: **BL** CHECKED BY: **BL**

BOREHOLE DEPTH (ft): **15.3**
BOREHOLE DIAMETER (in): **18**
WELL DEPTH (ft): **---**
WELL CASING DIAMETER (in):
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

NORTHING:
EASTING:
LATITUDE:
LONGITUDE:

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)	Depth (feet)	Borehole Backfill
			Gravel road base at surface; asphaltic crust							Cement
		SP	**SAND WITH SILT** ; brown; fine grained sand with 5% gravel; loose; moist; no hydrocarbon odor							Hydrated bentonite
										Dry bentonite
5			Fine to medium grained sand; tan			1120 SG-19 @ 5'		0.0	5	Sand/Probe
			5% coarse grained sand							
10			Fine grained sand			1130 SG-19 @ 10'		0.0	10	Hydrated bentonite
			Fine to medium grained sand			1140 SG-19 @ 15'		0.0	15	Dry bentonite
15			Borehole terminated at 15.25 feet.							Sand/Probe

SECOR_SLO_MW SG1-16.GPJ SECOR_SLO.GDT 8/1/13

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **1550 W. Stowell Road, Santa Maria**
PROJECT NUMBER:

WELL NO:

SG-20 PAGE 1 OF 1

Stantec

DRILLING STARTED: **6/18/13** COMPLETED: **6/18/13**
DRILLING COMPANY: **H&P**
DRILLING EQUIPMENT: **Truck Mounted**
DRILLING METHOD: **Direct Push**
SAMPLING EQUIPMENT:
LOGGED BY: **BL** CHECKED BY: **BL**

BOREHOLE DEPTH (ft): **15.3**
BOREHOLE DIAMETER (in): **18**
WELL DEPTH (ft): **---**
WELL CASING DIAMETER (in):
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

NORTHING:
EASTING:
LATITUDE:
LONGITUDE:

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)	Depth (feet)	Borehole Backfill
		SP	**SAND WITH SILT** ; brown; fine grained sand; dry; loose; asphaltic fragments; some semi-soft asphalt; hydrocarbon odor			1245 SG-20 @ 1'		31.7		Cement
			Turns moist			1250 SG-20 @ 3'		381		Hydrated bentonite
			Black tarry sand; highly cohesive; fine grained sand; very strong hydrocarbon odor							Dry bentonite
5						1255 SG-20 @ 5'		359	5	Sand/Probe
			Tan; fine grained sand; moist; no oil/ tar staining; no hydrocarbon odor							
10						1304 SG-20 @ 10'		0.0	10	Hydrated bentonite
		SW	**SAND WITH LITTLE SILT** ; fine to coarse grained sand; tan; loose; moist; no hydrocarbon odor							Dry bentonite
15						1315 SG-20 @ 15'		0.0	15	Sand/Probe
			Borehole terminated at 15.25 feet.							

SECOR_SLO_MW SG1-16.GPJ SECOR_SLO.GDT 8/1/13

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **1550 W. Stowell Road, Santa Maria**
PROJECT NUMBER:

WELL NO:

SG-21 PAGE 1 OF 1

Stantec

DRILLING STARTED: **6/18/13** COMPLETED: **6/18/13**
DRILLING COMPANY: **H&P**
DRILLING EQUIPMENT: **Truck Mounted**
DRILLING METHOD: **Direct Push**
SAMPLING EQUIPMENT:
LOGGED BY: **BL** CHECKED BY: **BL**

BOREHOLE DEPTH (ft): **15.3**
BOREHOLE DIAMETER (in): **18**
WELL DEPTH (ft): **---**
WELL CASING DIAMETER (in):
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

NORTHING:
EASTING:
LATITUDE:
LONGITUDE:

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)	Depth (feet)	Borehole Backfill
		SP	**SAND WITH SILT** ; dry; very loose; no hydrocarbon odor							Cement
			Fragments of brittle shinny dried oil							Hydrated bentonite
			Sand with little silt; fine to medium grained sand; tan; moist; loose; no hydrocarbon odor							Dry bentonite
5			Purple and yellow shading; fine grained sand			1340 SG-21 @ 5'		0.0	5	Sand/Probe
			Fine to medium grained sand; tan							
10						1350 SG-21 @ 10'		0.0	10	Hydrated bentonite
		SW	**SAND WITH TRACE SILT** ; fine to coarse sand; tan; moist; loose; no hydrocarbon odor							Dry bentonite
15						1355 SG-21 @ 15'		0.0	15	Sand/Probe
			Borehole terminated at 15.25 feet.							

SECOR_SLO_MW SG1-16.GPJ SECOR_SLO.GDT 8/1/13

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **1550 W. Stowell Road, Santa Maria**
PROJECT NUMBER:

WELL NO:

SG-22 PAGE 1 OF 1

Stantec

DRILLING STARTED: **6/18/13** COMPLETED: **6/18/13**
DRILLING COMPANY: **H&P**
DRILLING EQUIPMENT: **Truck Mounted**
DRILLING METHOD: **Direct Push**
SAMPLING EQUIPMENT:
LOGGED BY: **BL** CHECKED BY: **BL**

BOREHOLE DEPTH (ft): **15.3** NORTHING:
BOREHOLE DIAMETER (in): **18** EASTING:
WELL DEPTH (ft): **---** LATITUDE:
WELL CASING DIAMETER (in): LONGITUDE:
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)	Depth (feet)	Borehole Backfill
		SP	**SAND WITH SOME SILT** ; dark brown; fine grained sand; asphaltic fragments; moist; no hydrocarbon odor							Cement
			Yellow stained sand and dark brown sand; hydrocarbon odor							Hydrated bentonite
5			Small fragments of tar; strong hydrocarbon odor; <5 rounded gravel			1435 SG-22 @ 5'		134	5	Dry bentonite Sand/Probe
			Black; very fine sand; dry; strong hydrocarbon odor							
10			Medium grained sand; moist; tarry sand; hydrocarbon odor			1505 SG-22 @ 10'		108	10	Hydrated bentonite
15			Not tarry; shinny black; very strong hydrocarbon odor			1515 SG-22 @ 15'		330	15	Dry bentonite Sand/Probe
			Borehole terminated at 15.25 feet.							

SECOR_SLO_MW SG1-16.GPJ SECOR_SLO.GDT 8/1/13

CLIENT: **Chevron**
PROJECT: **Former Orcutt Refinery**
LOCATION: **1550 W. Stowell Road, Santa Maria**
PROJECT NUMBER:

WELL NO:

SG-23 PAGE 1 OF 1

Stantec

DRILLING STARTED: **6/19/13** COMPLETED: **6/19/13**
DRILLING COMPANY: **H&P**
DRILLING EQUIPMENT: **Truck Mounted**
DRILLING METHOD: **Direct Push**
SAMPLING EQUIPMENT:
LOGGED BY: **BL** CHECKED BY: **BL**

BOREHOLE DEPTH (ft): **15.3**
BOREHOLE DIAMETER (in): **18**
WELL DEPTH (ft): **---**
WELL CASING DIAMETER (in):
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**

NORTHING:
EASTING:
LATITUDE:
LONGITUDE:

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)	Depth (feet)	Borehole Backfill
		SP	**SANDY WITH SILT** ; fine grained sand with 5% gravel; large fragments of asphalt (<5%) gravel; dry; very loose; no hydrocarbon odor							Cement
		SM	**SILTY SAND** ; tan; fine grained sand with 5% gravel; dry; very loose; no hydrocarbon odor							Hydrated bentonite
5		SP	**SANDY WITH TRACE SILT** ; tan; fine grained sand; moist; loose; no hydrocarbon odor			0815 SG-23 @ 5'		0.0	5	Dry bentonite
										Sand/Probe
10						0825 SG-23 @ 10'		0.0	10	Hydrated bentonite
15						0835 SG-23 @ 15'		0.0	15	Dry bentonite
			Borehole terminated at 15.25 feet.							Sand/Probe

SECOR_SLO_MW SG1-16.GPJ SECOR_SLO.GDT 8/1/13

PROJECT: **Orcutt Refinery**
LOCATION: **Former Orcutt Refinery, 1550 West Stowell Rd, Santa Maria, CA**
PROJECT NUMBER: **185850237.713.0404**

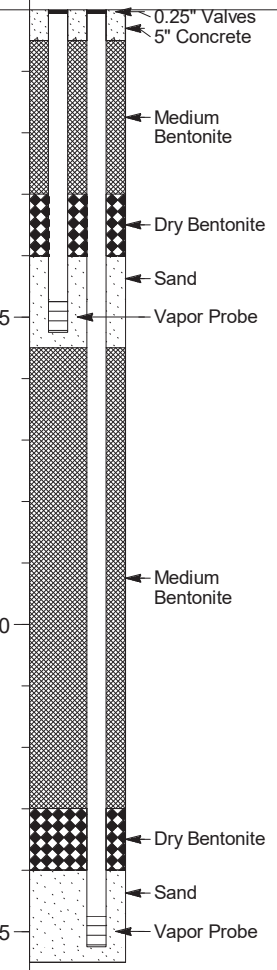
WELL / PROBEHOLE / BOREHOLE NO: **SG-1R** PAGE 1 OF 1

Stantec

DRILLING: STARTED: **11/3/2014** COMPLETED: **11/3/2014**
TIME: STARTED: COMPLETED:
DRILLING COMPANY: **H & P Drilling**
DRILLING EQUIPMENT: **Direct Push**
DRILLING METHOD: **Direct Push**
SAMPLING EQUIPMENT: **Split Spoon**

NORTHING (ft): EASTING (ft):
LATITUDE: LONGITUDE:
GROUND ELEV (ft): TOC ELEV (ft):
INITIAL DTW (ft): **N/A** BOREHOLE DEPTH (ft): **15.5**
STATIC DTW (ft): **N/A** WELL DEPTH (ft): **15.5**
WELL CASING DIAMETER (in): **--** BOREHOLE DIAMETER (in): **1.5**
LOGGED BY: **RD** CHECKED BY:

Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count/ft	Headspace PID (ppm)
0		SW	SW; Well Graded SAND, tan, fine, medium and coarse grained with little subrounded/subangular gravel, slightly moist, loose, no hydrocarbon (HC) odor		-- SG-1R-1'			0.0
10		SW	SW; Tarry Well Graded SAND, black, fine, medium, coarse grained with little to trace fine subangular tar gravel, loose, soft, slightly moist, HC odor (native		-- SG-1R-10'			2.2
					-- SG-1R-11'			0.0
15			Borehole terminated at 15.5 feet bgs. Short zip tie at 5 ft bgs, long zip tie at 15 ft bgs					



GEO FORM 304_SECOR037_20150217_ORCUT_REFINERY_GINT_LOGS_SG-1R_SG-25.GPJ_SECOR037.GDT 2/19/15

PROJECT: **Orcutt Refinery**
LOCATION: **Former Orcutt Refinery, 1550 West Stowell Rd, Santa Maria, CA**
PROJECT NUMBER: **185850237.713.0404**

WELL / PROBEHOLE / BOREHOLE NO: **SG-5R** PAGE 1 OF 1

Stantec

DRILLING: STARTED: **11/4/2014** COMPLETED: **11/4/2014**
TIME: STARTED: COMPLETED:
DRILLING COMPANY: **H & P Drilling**
DRILLING EQUIPMENT: **Direct Push**
DRILLING METHOD: **Direct Push**
SAMPLING EQUIPMENT: **Split Spoon**

NORTHING (ft): EASTING (ft):
LATITUDE: LONGITUDE:
GROUND ELEV (ft): TOC ELEV (ft):
INITIAL DTW (ft): **N/A** BOREHOLE DEPTH (ft): **15.0**
STATIC DTW (ft): **N/A** WELL DEPTH (ft): **15.0**
WELL CASING DIAMETER (in): **--** BOREHOLE DIAMETER (in): **1.5**
LOGGED BY: **RD** CHECKED BY:

Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count/ft	Headspace PID (ppm)	Depth (feet)	Piezometer Construction
		SW	SW; Well Graded SAND, tan, fine, medium and coarse grained, fine subrounded/subangular gravel, slightly moist, loose, no hydrocarbon (HC) odor. (Fill)							0.25" Valves 5" Concrete
			Trace coarse sand							Medium Bentonite
										Dry Bentonite
										Sand
5									5	Vapor Probe
										Medium Bentonite
			Moist, dark tan							
										Dry Bentonite
10									10	Sand
										Vapor Probe
			Tarry Poorly Graded SAND, black, medium to coarse grained, medium dense to dense, HC odor							
			Saturated		-- SG-5R-13'			246		
			Moist, dense							
15			Borehole terminated at 15 feet bgs.						15	
			Short zip tie at 5 ft bgs, long zip tie at 11 ft bgs							
20									20	

GEO FORM 304_SECOR037_20150217_ORCUT_REFINERY_GINT_LOGS_SG-1R_SG-25.GPJ_SECOR037.GDT 2/19/15

PROJECT: **Orcutt Refinery**
LOCATION: **Former Orcutt Refinery, 1550 West Stowell Rd, Santa Maria, CA**
PROJECT NUMBER: **185850237.713.0404**

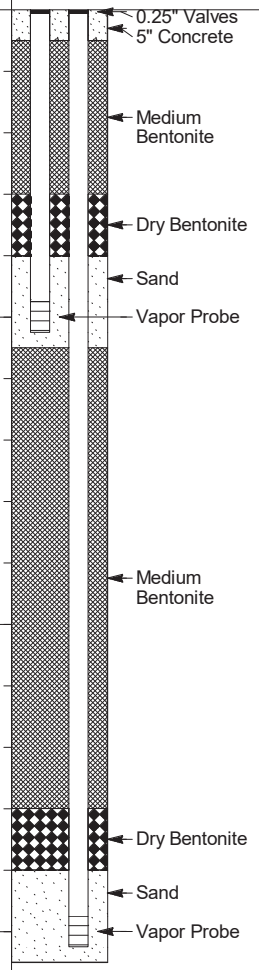
WELL / PROBEHOLE / BOREHOLE NO: **SG-6R** PAGE 1 OF 1

Stantec

DRILLING: STARTED: **11/3/2014** COMPLETED: **11/3/2014**
TIME: STARTED: COMPLETED:
DRILLING COMPANY: **H & P Drilling**
DRILLING EQUIPMENT: **Direct Push**
DRILLING METHOD: **Direct Push**
SAMPLING EQUIPMENT: **Split Spoon**

NORTHING (ft): EASTING (ft):
LATITUDE: LONGITUDE:
GROUND ELEV (ft): TOC ELEV (ft):
INITIAL DTW (ft): **N/A** BOREHOLE DEPTH (ft): **15.5**
STATIC DTW (ft): **N/A** WELL DEPTH (ft): **15.5**
WELL CASING DIAMETER (in): **--** BOREHOLE DIAMETER (in): **1.5**
LOGGED BY: **RD** CHECKED BY:

Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count/ft	Headspace PID (ppm)
0		SW	SW; Well Graded SAND, tan, subangular/subrounded gravel, slightly moist, no hydrocarbon (HC) odor		-- SG-6R-1'			0.0
5		SW	SW; Poorly Graded SAND, tan, trace silt, slightly moist, loose, no HC odor		-- SG-6R-6'			0.0
10					-- SG-6R-13'			0.0
15			Borehole terminated at 15.5 feet bgs. Short zip tie at 5 ft bgs, long zip tie at 15 ft bgs		-- SG-6R-14'			3.3
20								



GEO FORM 304_SECOR037_20150217_ORCUT_REFINERY_GINT_LOGS_SG-1R_SG-25.GPJ_SECOR037.GDT 2/19/15

PROJECT: **Orcutt Refinery**
LOCATION: **Former Orcutt Refinery, 1550 West Stowell Rd, Santa Maria, CA**
PROJECT NUMBER: **185850237.713.0404**

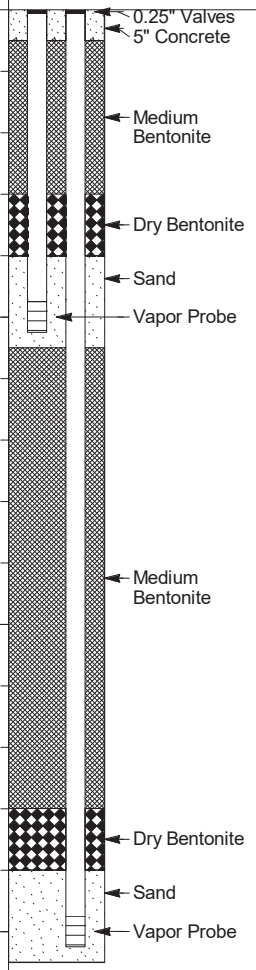
WELL / PROBEHOLE / BOREHOLE NO: **SG-9R** PAGE 1 OF 1

Stantec

DRILLING: STARTED: **11/3/2014** COMPLETED: **11/3/2014**
TIME: STARTED: COMPLETED:
DRILLING COMPANY: **H & P Drilling**
DRILLING EQUIPMENT: **Direct Push**
DRILLING METHOD: **Direct Push**
SAMPLING EQUIPMENT: **Split Spoon**

NORTHING (ft): EASTING (ft):
LATITUDE: LONGITUDE:
GROUND ELEV (ft): TOC ELEV (ft):
INITIAL DTW (ft): **N/A** BOREHOLE DEPTH (ft): **15.5**
STATIC DTW (ft): **N/A** WELL DEPTH (ft): **15.5**
WELL CASING DIAMETER (in): **--** BOREHOLE DIAMETER (in): **1.5**
LOGGED BY: **RD** CHECKED BY:

Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count/ft	Headspace PID (ppm)
0		SW	SW; Well Graded SAND, tan, loose, slightly moist, no hydrocarbon (HC) odor. (Fill)		-- SG-9R-1'			0.0
5		SW	SW; Well Graded SAND, tan, fine to medium grained with trace coarse grained sand and some silt, soft. slightly moist, loose, no HC odor. (Native)					
		ML	ML; SILT, tan, trace coarse to medium grained sand, ioft, slightly moist, no HC odor					
10		SW	SW; Well Graded SAND, tan, trace coarse grained and some silt, slightly moist, loose, no HC odor					
			Decrease in silt (trace)					
15			Borehole terminated at 15.5 feet bgs.					
			Short zip tie at 5 ft bgs, long zip tie at 15 ft bgs					
20								



GEO FORM 304_SECOR037_20150217_ORCUT_REFINERY_GINT_LOGS_SG-1R_SG-25.GPJ_SECOR037.GDT 2/19/15

PROJECT: **Orcutt Refinery**
LOCATION: **Former Orcutt Refinery, 1550 West Stowell Rd, Santa Maria, CA**
PROJECT NUMBER: **185850237.713.0404**

WELL / PROBEHOLE / BOREHOLE NO: **SG-10R** PAGE 1 OF 1

DRILLING: STARTED: **11/3/2014** COMPLETED: **11/3/2014**
TIME: STARTED: COMPLETED:
DRILLING COMPANY: **H & P Drilling**
DRILLING EQUIPMENT: **Direct Push**
DRILLING METHOD: **Direct Push**
SAMPLING EQUIPMENT: **Split Spoon**

NORTHING (ft): EASTING (ft):
LATITUDE: LONGITUDE:
GROUND ELEV (ft): TOC ELEV (ft):
INITIAL DTW (ft): **N/A** BOREHOLE DEPTH (ft): **15.5**
STATIC DTW (ft): **N/A** WELL DEPTH (ft): **N/A**
WELL CASING DIAMETER (in): **--** BOREHOLE DIAMETER (in): **1.5**
LOGGED BY: **RD** CHECKED BY:

Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count/ft	Headspace PID (ppm)	Depth (feet)	Piezometer Construction
		SP	SP; Poorly Graded SAND, tan, fine to medium grained with little subrounded/ subangular gravel, loose, slightly moist, no hydrocarbon (HC) odor. (Fill)		-- SG-10R-1'			0.0		0.25" Valves; 5" Concrete; Medium Bentonite; Dry Bentonite; Sand; Vapor Probe
5					1000 --				5	
		SP-SM	SP-SM; Poorly Graded SAND, tan, fine to medium grained sand with silt, loose to very loose, slightly moist, no HC odor. (Native)							
10			Slight gray green staining, no HC odor		-- SG-10R-10'			0.0	10	Medium Bentonite; Dry Bentonite; Sand; Vapor Probe
			No staining							
15					-- SG-10R-15'			0.0	15	
			Borehole terminated at 15.5 feet bgs. Short zip tie at 5 ft bgs, long zip tie at 15 ft bgs							
20									20	

GEO FORM 304_SECOR037_20150217_ORCUT_REFINERY_GINT_LOGS_SG-1R_SG-25.GPJ_SECOR037.GDT 2/19/15

PROJECT: **Orcutt Refinery**
LOCATION: **Former Orcutt Refinery, 1550 West Stowell Rd, Santa Maria, CA**
PROJECT NUMBER: **185850237.713.0404**

WELL / PROBEHOLE / BOREHOLE NO: **SG-11R** PAGE 1 OF 1

DRILLING: STARTED: **11/3/2014** COMPLETED: **11/3/2014**
TIME: STARTED: COMPLETED:
DRILLING COMPANY: **H & P Drilling**
DRILLING EQUIPMENT: **Direct Push**
DRILLING METHOD: **Direct Push**
SAMPLING EQUIPMENT: **Split Spoon**

NORTHING (ft): EASTING (ft):
LATITUDE: LONGITUDE:
GROUND ELEV (ft): TOC ELEV (ft):
INITIAL DTW (ft): **N/A** BOREHOLE DEPTH (ft): **15.5**
STATIC DTW (ft): **N/A** WELL DEPTH (ft): **15.5**
WELL CASING DIAMETER (in): **--** BOREHOLE DIAMETER (in): **1.5**
LOGGED BY: **RD** CHECKED BY:

Depth (feet)	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count/ft	Headspace PID (ppm)
0	SP	SP; Poorly Graded SAND, tan, fine to medium grained with little subrounded/ subangular gravel, loose, slightly moist, no hydrocarbon (HC) odor. (Fill)		-- SG-11R-1'			0.0
5	SP-SM	SP-SM; Poorly Graded SAND, tan, fine to medium grained sand with silt, loose to very loose, slightly moist, no HC odor. (Native)		-- SG-11R-7'			0.0
10		Slight gray green staining, no HC odor No staining					
15		Borehole terminated at 15.5 feet bgs. Short zip tie at 5 ft bgs, long zip tie at 15 ft bgs		-- SG-11R-15'			0.0
20							

Piezometer Construction: 0.25" Valves; 5" Concrete; Medium Bentonite; Dry Bentonite; Sand; Vapor Probe; Medium Bentonite; Dry Bentonite; Sand; Vapor Probe

GEO FORM 304_SECOR037_20150217_ORCUT_REFINERY_GINT_LOGS_SG-1R_SG-25.GPJ_SECOR037.GDT 2/19/15

PROJECT: **Orcutt Refinery**
LOCATION: **Former Orcutt Refinery, 1550 West Stowell Rd, Santa Maria, CA**
PROJECT NUMBER: **185850237.713.0404**

WELL / PROBEHOLE / BOREHOLE NO: **SG-17R** PAGE 1 OF 1

Stantec

DRILLING: STARTED: **11/4/2014** COMPLETED: **11/4/2014**
TIME: STARTED: COMPLETED:
DRILLING COMPANY: **H & P Drilling**
DRILLING EQUIPMENT: **Direct Push**
DRILLING METHOD: **Direct Push**
SAMPLING EQUIPMENT: **Split Spoon**

NORTHING (ft): EASTING (ft):
LATITUDE: LONGITUDE:
GROUND ELEV (ft): TOC ELEV (ft):
INITIAL DTW (ft): **N/A** BOREHOLE DEPTH (ft): **15.5**
STATIC DTW (ft): **N/A** WELL DEPTH (ft): **15.0**
WELL CASING DIAMETER (in): **--** BOREHOLE DIAMETER (in): **1.5**
LOGGED BY: **RD** CHECKED BY:

Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count/ft	Headspace PID (ppm)	Depth (feet)	Piezometer Construction
0		SW	SW; Well Graded SAND, tan, fine and medium to coarse grained, loose, slightly moist, no hydrocarbon (HC) odor. (Fill)						0	0.25" Valves 5" Concrete
			Decrease in fine sand							Medium Bentonite
5									5	Dry Bentonite Sand Vapor Probe
			Light tan							
			Slight black staining, trace asphaltic gravels, no HC odor							
10			No staining, no asphaltic gravels, light increase in fine sand		-- SG-17R-10'			0.0	10	Medium Bentonite
		SP	SP; Limited recovery (rock in shoe). Poorly Graded SAND, tan, medium to coarse grained, loose, slightly moist, no HC odor							Dry Bentonite Sand Vapor Probe
15			Borehole terminated at 15.5 feet bgs.						15	
			Short zip tie at 5 ft bgs, long zip tie at 15 ft bgs							
20									20	

GEO FORM 304_SECOR037_20150217_ORCUT_REFINERY_GINT_LOGS_SG-1R_SG-25.GPJ_SECOR037.GDT 2/19/15

PROJECT: **Orcutt Refinery**
LOCATION: **Former Orcutt Refinery, 1550 West Stowell Rd, Santa Maria, CA**
PROJECT NUMBER: **185850237.713.0404**

WELL / PROBEHOLE / BOREHOLE NO: **SG-18R** PAGE 1 OF 1

DRILLING: STARTED: **11/4/2014** COMPLETED: **11/4/2014**
TIME: STARTED: COMPLETED:
DRILLING COMPANY: **H & P Drilling**
DRILLING EQUIPMENT: **Direct Push**
DRILLING METHOD: **Direct Push**
SAMPLING EQUIPMENT: **Split Spoon**

NORTHING (ft): EASTING (ft):
LATITUDE: LONGITUDE:
GROUND ELEV (ft): TOC ELEV (ft):
INITIAL DTW (ft): **N/A** BOREHOLE DEPTH (ft): **15.5**
STATIC DTW (ft): **N/A** WELL DEPTH (ft): **15.5**
WELL CASING DIAMETER (in): **--** BOREHOLE DIAMETER (in): **1.5**
LOGGED BY: **RD** CHECKED BY:

Depth (feet)	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count/ft	Headspace PID (ppm)
0	SW	SW; Well Graded SAND, tan, trace coarse sand and trace subrounded/subangular fine gravel, loose, slightly moist, no hydrocarbon (HC) odor. (Fill)		-- SG-18R-1'			0.0
5	SW-SM	SW-SM; Well Graded SAND with Silt		0846 --			
	SP	SP; Poorly Graded SAND, tan, loose, slightly moist, no HC odor		-- SG-18R-7'			0.0
10				-- SG-18R-9' -- SG-18R-9.5'			0.6 0.0
15				0859 --			
		Borehole terminated at 15.5 feet bgs. Short zip tie at 5 ft bgs, long zip tie at 15 ft bgs					
20							

Piezometer Construction: 0.25" Valves; 5" Concrete; Medium Bentonite; Dry Bentonite; Sand; Vapor Probe; Medium Bentonite; Dry Bentonite; Sand; Vapor Probe

GEO FORM 304_SECOR037_20150217_ORCUT_REFINERY_GINT_LOGS_SG-1R_SG-25.GPJ_SECOR037.GDT 2/19/15

PROJECT: **Orcutt Refinery**
LOCATION: **Former Orcutt Refinery, 1550 West Stowell Rd, Santa Maria, CA**
PROJECT NUMBER: **185850237.713.0404**

WELL / PROBEHOLE / BOREHOLE NO: **SG-19R** PAGE 1 OF 1

Stantec

DRILLING: STARTED: **11/3/2014** COMPLETED: **11/3/2014**
TIME: STARTED: COMPLETED:
DRILLING COMPANY: **H & P Drilling**
DRILLING EQUIPMENT: **Direct Push**
DRILLING METHOD: **Direct Push**
SAMPLING EQUIPMENT: **Split Spoon**

NORTHING (ft): EASTING (ft):
LATITUDE: LONGITUDE:
GROUND ELEV (ft): TOC ELEV (ft):
INITIAL DTW (ft): **N/A** BOREHOLE DEPTH (ft): **15.5**
STATIC DTW (ft): **N/A** WELL DEPTH (ft): **15.5**
WELL CASING DIAMETER (in): **--** BOREHOLE DIAMETER (in): **1.5**
LOGGED BY: **RD** CHECKED BY:

Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count/ft	Headspace PID (ppm)	Depth (feet)	Piezometer Construction
0		SW	SW; Well Graded SAND, dark tan, loose, slightly moist, no hydrocarbon (HC) odor						0	0.25" Valves 5" Concrete
5		SW	SW; Well Graded SAND, light tan, fine to medium grained, trace coarse grained, loose, slightly moist to dry, no HC odor						5	Medium Bentonite Dry Bentonite Sand Vapor Probe
10		SP	SP; Poorly Graded SAND, tan, medium to coarse grained, loose to very loose, slightly moist, no HC odor						10	Medium Bentonite Dry Bentonite Sand
15			Borehole terminated at 15.5 feet bgs. Short zip tie at 5 ft bgs, long zip tie at 15 ft bgs						15	Vapor Probe
20									20	

GEO FORM 304_SECOR037_20150217_ORCUT_REFINERY_GINT_LOGS_SG-1R_SG-25.GPJ_SECOR037.GDT 2/19/15

PROJECT: **Orcutt Refinery**
LOCATION: **Former Orcutt Refinery, 1550 West Stowell Rd, Santa Maria, CA**
PROJECT NUMBER: **185850237.713.0404**

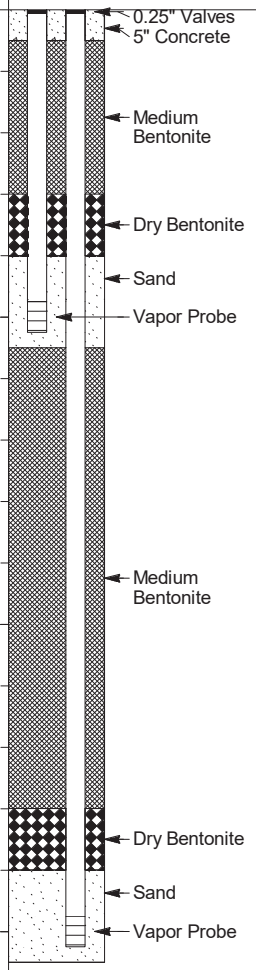
WELL / PROBEHOLE / BOREHOLE NO: **SG-20R** PAGE 1 OF 1

Stantec

DRILLING: STARTED: **11/3/2014** COMPLETED: **11/3/2014**
TIME: STARTED: COMPLETED:
DRILLING COMPANY: **H & P Drilling**
DRILLING EQUIPMENT: **Direct Push**
DRILLING METHOD: **Direct Push**
SAMPLING EQUIPMENT: **Split Spoon**

NORTHING (ft): EASTING (ft):
LATITUDE: LONGITUDE:
GROUND ELEV (ft): TOC ELEV (ft):
INITIAL DTW (ft): **N/A** BOREHOLE DEPTH (ft): **15.5**
STATIC DTW (ft): **N/A** WELL DEPTH (ft): **15.5**
WELL CASING DIAMETER (in): **--** BOREHOLE DIAMETER (in): **1.5**
LOGGED BY: **RD** CHECKED BY:

Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count/ft	Headspace PID (ppm)
0		SP	SP; Poorly Graded SAND, light brown, fine to medium grained, very loose, moist, no hydrocarbon (HC) odor. (Fill)		-- SG-20R-1'			0.0
5					1332 SG-20R-5'			0.0
		SP	SP; Poorly Graded SAND with some Silt, dark tan, loose, slightly moist, no HC odor. (Native)					
10					-- SG-20R-9.5' -- SG-20R-10'			1.5 0.0
15			Borehole terminated at 15.5 feet bgs. Short zip tie at 5 ft bgs, long zip tie at 15 ft bgs					
20								



GEO FORM 304_SECOR037_20150217_ORCUT_REFINERY_GINT_LOGS_SG-1R_SG-25.GPJ_SECOR037.GDT 2/19/15

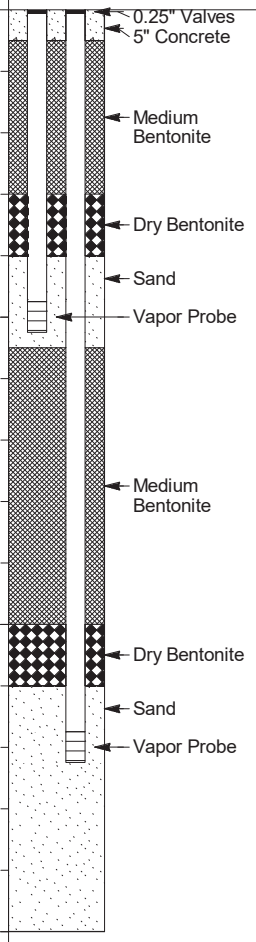
PROJECT: **Orcutt Refinery**
LOCATION: **Former Orcutt Refinery, 1550 West Stowell Rd, Santa Maria, CA**
PROJECT NUMBER: **185850237.713.0404**

WELL / PROBEHOLE / BOREHOLE NO: **SG-21R** PAGE 1 OF 1

DRILLING: STARTED: **11/4/2014** COMPLETED: **11/4/2014**
TIME: STARTED: COMPLETED:
DRILLING COMPANY: **H & P Drilling**
DRILLING EQUIPMENT: **Direct Push**
DRILLING METHOD: **Direct Push**
SAMPLING EQUIPMENT: **Split Spoon**

NORTHING (ft): EASTING (ft):
LATITUDE: LONGITUDE:
GROUND ELEV (ft): TOC ELEV (ft):
INITIAL DTW (ft): **N/A** BOREHOLE DEPTH (ft): **15.0**
STATIC DTW (ft): **N/A** WELL DEPTH (ft): **15.0**
WELL CASING DIAMETER (in): **--** BOREHOLE DIAMETER (in): **1.5**
LOGGED BY: **RD** CHECKED BY:

Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count/ft	Headspace PID (ppm)
0		SW	SW; Well Graded SAND, tan, trace fine subrounded/subangular gravel, loose, slightly moist, no HC odor. (Fill)					
			Decrease in coarse sand and gravel					
5								
		SP	SP; Poorly Graded SAND with some Silt, dark tan, loose, slightly moist, no HC odor					
10			Trace silt, slight black staining (6 inches)					
			Very wet, brown, loose to very loose, no HC odor					
		SP	SP; Black asphalt and tarry Poorly Graded SAND, dense, dry, HC odor					
15			Borehole terminated at 15 feet bgs.					
			Short zip tie at 5 ft bgs, long zip tie at 12 ft bgs					
20								



GEO FORM 304_SECOR037_20150217_ORCUT_REFINERY_GINT_LOGS_SG-1R_SG-25.GPJ_SECOR037.GDT 2/19/15

PROJECT: **Orcutt Refinery**
LOCATION: **Former Orcutt Refinery, 1550 West Stowell Rd, Santa Maria, CA**
PROJECT NUMBER: **185850237.713.0404**

WELL / PROBEHOLE / BOREHOLE NO: **SG-22R** PAGE 1 OF 1

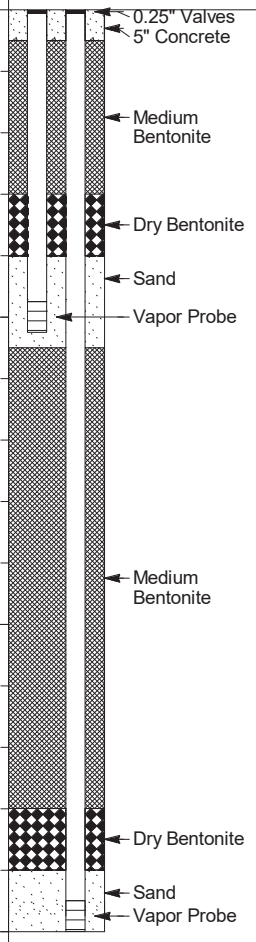
Stantec

DRILLING: STARTED: **11/4/2014** COMPLETED: **11/4/2014**
TIME: STARTED: COMPLETED:
DRILLING COMPANY: **H & P Drilling**
DRILLING EQUIPMENT: **Direct Push**
DRILLING METHOD: **Direct Push**
SAMPLING EQUIPMENT: **Split Spoon**

NORTHING (ft): EASTING (ft):
LATITUDE: LONGITUDE:
GROUND ELEV (ft): TOC ELEV (ft):
INITIAL DTW (ft): **N/A** BOREHOLE DEPTH (ft): **15.0**
STATIC DTW (ft): **N/A** WELL DEPTH (ft): **15.0**
WELL CASING DIAMETER (in): **--** BOREHOLE DIAMETER (in): **1.5**
LOGGED BY: **RD** CHECKED BY:

Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count/ft	Headspace PID (ppm)
0		SW	SW; Well Graded SAND, tan, fine, medium, and coarse grained sand, loose, no hydrocarbon (HC) odor					
			Decrease in coarse sand					
5			Fine to medium grained sand (trace coarse grained)		1113 SG-22R-5'			
10		SP	SP; Poorly Graded SAND, black, fine to medium grained, medium dense, dry, strong HC odor		-- SG-22R-9'			928
					1132 SG-22R-13'			1024
15			Borehole terminated at 15 feet bgs.					
			Short zip tie at 5 ft bgs, long zip tie at 15 ft bgs					
20								

Piezometer Construction



GEO FORM 304_SECOR037_20150217_ORCUT_REFINERY_GINT_LOGS_SG-1R_SG-25.GPJ_SECOR037.GDT 2/19/15

PROJECT: **Orcutt Refinery**
LOCATION: **Former Orcutt Refinery, 1550 West Stowell Rd, Santa Maria, CA**
PROJECT NUMBER: **185850237.713.0404**

WELL / PROBEHOLE / BOREHOLE NO: **SG-23R** PAGE 1 OF 1

DRILLING: STARTED: **11/4/2014** COMPLETED: **11/4/2014**
TIME: STARTED: COMPLETED:
DRILLING COMPANY: **H & P Drilling**
DRILLING EQUIPMENT: **Direct Push**
DRILLING METHOD: **Direct Push**
SAMPLING EQUIPMENT: **Split Spoon**

NORTHING (ft): EASTING (ft):
LATITUDE: LONGITUDE:
GROUND ELEV (ft): TOC ELEV (ft):
INITIAL DTW (ft): **N/A** BOREHOLE DEPTH (ft): **15.0**
STATIC DTW (ft): **N/A** WELL DEPTH (ft): **15.0**
WELL CASING DIAMETER (in): **--** BOREHOLE DIAMETER (in): **1.5**
LOGGED BY: **RD** CHECKED BY:

Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count/ft	Headspace PID (ppm)	Depth (feet)	Piezometer Construction
0		SW	SW; Well Graded SAND, tan, fine, medium, and coarse grained sand, loose, slightly moist, no hydrocarbon (HC) odor						0	0.25" Valves, 5" Concrete
5					1409 SG-23R-5'				5	Medium Bentonite; Dry Bentonite; Sand; Vapor Probe
		SP	SP; Poorly Graded SAND, tan, fine to medium grained, very loose, moist, no HC odor							
10									10	Medium Bentonite
15			Borehole terminated at 15 feet bgs. Short zip tie at 5 ft bgs, long zip tie at 15 ft bgs		1421 SG-23R-15'				15	Dry Bentonite; Sand; Vapor Probe
20									20	

GEO FORM 304_SECOR037_20150217_ORCUT_REFINERY_GINT_LOGS_SG-1R_SG-25.GPJ_SECOR037.GDT 2/19/15

PROJECT: **Orcutt Refinery**
LOCATION: **Former Orcutt Refinery, 1550 West Stowell Rd, Santa Maria, CA**
PROJECT NUMBER: **185850237.713.0404**

WELL / PROBEHOLE / BOREHOLE NO: **SG-24** PAGE 1 OF 1

Stantec

DRILLING: STARTED: **11/4/2014** COMPLETED: **11/4/2014**
TIME: STARTED: COMPLETED:
DRILLING COMPANY: **H & P Drilling**
DRILLING EQUIPMENT: **Direct Push**
DRILLING METHOD: **Direct Push**
SAMPLING EQUIPMENT: **Split Spoon**

NORTHING (ft): EASTING (ft):
LATITUDE: LONGITUDE:
GROUND ELEV (ft): TOC ELEV (ft):
INITIAL DTW (ft): **N/A** BOREHOLE DEPTH (ft): **15.0**
STATIC DTW (ft): **N/A** WELL DEPTH (ft): **15.0**
WELL CASING DIAMETER (in): **--** BOREHOLE DIAMETER (in): **1.5**
LOGGED BY: **RD** CHECKED BY:

Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count/ft	Headspace PID (ppm)
0		SW	SW; Well Graded SAND, tan, fine and medium grained, loose, slightly moist, no hydrocarbon (HC) odor					
5			Decrease in coarse grained sand					
		SP	SP; Poorly Graded SAND with Silt, tan, fine to medium grained, loose, slightly moist, no HC odor					
			Brown/black staining with intermittent black pliable material, HC odor		-- SG-24-5'			1.1
10								
			Dark brown with black staining, loose to very loose, moist to very moist, HC odor		-- SG-24-14'			43.1
15			Borehole terminated at 15 feet bgs.					
			Short zip tie at 5 ft bgs, long zip tie at 14 ft bgs					
			Probe set at 14 ft due to wet conditions and nature of material at 15 ft bgs					
20								

Depth (feet)	Piezometer Construction
0	0.25" Valves 5" Concrete
	Medium Bentonite
	Dry Bentonite
	Sand
5	Vapor Probe
	Medium Bentonite
10	
	Dry Bentonite
	Sand
	Vapor Probe
15	
20	

GEO FORM 304_SECOR037_20150217_ORCUT_REFINERY_GINT_LOGS_SG-1R_SG-25.GPJ_SECOR037.GDT 2/19/15

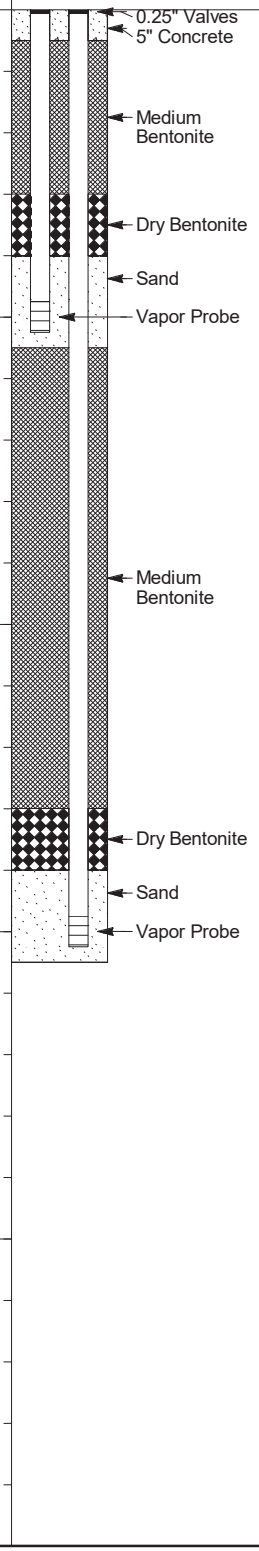
PROJECT: **Orcutt Refinery**
LOCATION: **Former Orcutt Refinery, 1550 West Stowell Rd, Santa Maria, CA**
PROJECT NUMBER: **185850237.713.0404**

WELL / PROBEHOLE / BOREHOLE NO: **SG-25** PAGE 1 OF 1

DRILLING: STARTED: **11/3/2014** COMPLETED: **11/3/2014**
TIME: STARTED: COMPLETED:
DRILLING COMPANY: **H & P Drilling**
DRILLING EQUIPMENT: **Direct Push**
DRILLING METHOD: **Direct Push**
SAMPLING EQUIPMENT: **Split Spoon**

NORTHING (ft): EASTING (ft):
LATITUDE: LONGITUDE:
GROUND ELEV (ft): TOC ELEV (ft):
INITIAL DTW (ft): **N/A** BOREHOLE DEPTH (ft): **15.5**
STATIC DTW (ft): **N/A** WELL DEPTH (ft): **15.5**
WELL CASING DIAMETER (in): **--** BOREHOLE DIAMETER (in): **1.5**
LOGGED BY: **RD** CHECKED BY:

Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count/ft	Headspace PID (ppm)
0		SP	SP; Poorly Graded SAND, light brown, fine to medium grained, slightly moist, very loose, no hydrocarbon (HC) odor. (Fill)		-- SG-25-1'			0.0
5		SP	SP; Poorly Graded SAND with Silt, brown with gray staining, loose, slightly moist, HC odor		-- SG-25-7'			2.9
10		SW	SW; Well Graded SAND, light tan, fine, medium, and coarse grained sand, medium dense, slightly moist, no HC odor		-- SG-25-10'			0.0
15		SP	Decrease in fine and medium grained sand, decrease in silt SP; Poorly Graded SAND, tan, coarse grained, very loose, moist, no HC odor Borehole terminated at 15.5 feet bgs. Short zip tie at 5 ft bgs, long zip tie at 15 ft bgs					
20								



GEO FORM 304_SECOR037_20150217_ORCUT_REFINERY_GINT_LOGS_SG-1R_SG-25.GPJ_SECOR037.GDT 2/19/15

CLIENT: **Chevron**
PROJECT: **Orcutt Refinery**
LOCATION: **Santa Maria, California**
PROJECT NUMBER: **211802642**

BOREHOLE NO: **1580GP-1** PAGE 1 OF 1

Stantec

DRILLING STARTED: **8/19/14** COMPLETED: **8/19/14**
DRILLING COMPANY: **OEC**
DRILLING EQUIPMENT: **Geoprobe**
DRILLING METHOD: **Direct Push**
SAMPLING EQUIPMENT:

BOREHOLE DEPTH (ft): **20.0**
BOREHOLE DIAMETER (in): **2**
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**
LOGGED BY: **TA**

NORTHING:
EASTING:
LATITUDE:
LONGITUDE:
CHECKED BY: **SL**

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Headspace PID (ppm)	Depth (feet)	Borehole Backfill
5		SP	**POORLY GRADED FINE GRAINED SAND** ; (10YR - 5/8) yellowish brown; no odor; no staining; trace gravel; little or no fines; interbeds of clayey sands with silt; slight placticity; <0.003 mm grain size; loose sand; moist			0920 1580GP-1-5'	0.0	5	sand
			Hand augered to 8' bgs						
10			(same as above)			0955 1580GP-1-10'	0.0	10	medium bentonite chips
15			(same as above)			1000 1580GP-1-15'	0.0	15	
20			(same as above)			1010 1580GP-1-20'	0.0	20	
			Borehole terminated at 20 feet.						

SECOR_SLO_GEOPROBE 1580GP-1 TO 10.GPJ SECOR_SLO.GDT 11/14/14

CLIENT: **Chevron**
PROJECT: **Orcutt Refinery**
LOCATION: **Santa Maria, California**
PROJECT NUMBER: **211802642**

BOREHOLE NO: **1580GP-2** PAGE 1 OF 1

DRILLING STARTED: **8/19/14** COMPLETED: **8/19/14**
DRILLING COMPANY: **OEC**
DRILLING EQUIPMENT: **Geoprobe**
DRILLING METHOD: **Direct Push**
SAMPLING EQUIPMENT:

BOREHOLE DEPTH (ft): **20.0**
BOREHOLE DIAMETER (in): **2**
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**
LOGGED BY: **TA**

NORTHING:
EASTING:
LATITUDE:
LONGITUDE:
CHECKED BY: **SL**

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Headspace PID (ppm)	Depth (feet)	Borehole Backfill
5		SP	**POORLY GRADED FINE GRAINED SAND** ; (10YR - 5/8) yellowish brown; no odor; no staining; trace gravel; little or no fines; interbeds of clayey sands with silt; slight placticity; <0.003 mm grain size; loose sand; moist			1050 1580GP-2-5'	0.0	5	sand
			Hand augered to 8' bgs						
10			(same as above)			1115 1580GP-2-10'	0.4	10	medium bentonite chips
15			(same as above)			1120 1580GP-2-15'	0.0	15	
20			(same as above)			1125 1580GP-2-20'	0.0	20	
			Borehole terminated at 20 feet.						

SECOR_SLO_GEOPROBE 1580GP-1 TO 10.GPJ SECOR_SLO.GDT 11/14/14

CLIENT: **Chevron**
PROJECT: **Orcutt Refinery**
LOCATION: **Santa Maria, California**
PROJECT NUMBER: **211802642**

BOREHOLE NO: **1580GP-3** PAGE 1 OF 1

Stantec

DRILLING STARTED: **8/19/14** COMPLETED: **8/19/14**
DRILLING COMPANY: **OEC**
DRILLING EQUIPMENT: **Geoprobe**
DRILLING METHOD: **Direct Push**
SAMPLING EQUIPMENT:

BOREHOLE DEPTH (ft): **20.0**
BOREHOLE DIAMETER (in): **2**
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**
LOGGED BY: **TA**

NORTHING:
EASTING:
LATITUDE:
LONGITUDE:
CHECKED BY: **SL**

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Headspace PID (ppm)	Depth (feet)	Borehole Backfill
5		SP	**POORLY GRADED FINE GRAINED SAND** ; (10YR - 5/8) yellowish brown; no odor; no staining; trace gravel; little or no fines; interbeds of clayey sands with silt; slight placticity; <0.003 mm grain size; loose sand; moist			1255 1580GP-3-5'	3.5	5	sand
			Hand augered to 8' bgs						
10			(same as above)			1300 1580GP-3-10'	2.6	10	medium bentonite chips
15			(same as above)			1310 1580GP-3-15'	3.3	15	
20			(same as above)			1320 1580GP-3-20'	3.5	20	
			Borehole terminated at 20 feet.						

SECOR_SLO_GEOPROBE 1580GP-1 TO 10.GPJ SECOR_SLO.GDT 11/14/14

CLIENT: **Chevron**
PROJECT: **Orcutt Refinery**
LOCATION: **Santa Maria, California**
PROJECT NUMBER: **211802642**

BOREHOLE NO: **1580GP-4** PAGE 1 OF 1

Stantec

DRILLING STARTED: **8/19/14** COMPLETED: **8/19/14**
DRILLING COMPANY: **OEC**
DRILLING EQUIPMENT: **Geoprobe**
DRILLING METHOD: **Direct Push**
SAMPLING EQUIPMENT:

BOREHOLE DEPTH (ft): **20.0**
BOREHOLE DIAMETER (in): **2**
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**
LOGGED BY: **TA**

NORTHING:
EASTING:
LATITUDE:
LONGITUDE:
CHECKED BY: **SL**

Depth (feet)	USCS	Description	Time Sample ID	Headspace PID (ppm)
5	SP	**POORLY GRADED FINE GRAINED SAND** ; (10YR - 5/8) yellowish brown; no odor; no staining; trace gravel; little or no fines; interbeds of clayey sands with silt; slight placticity; <0.003 mm grain size; loose sand; moist	1340 1580GP-4-5'	0.0
		Hand augered to 8' bgs		
10		(same as above)	1400 1580GP-4-10'	0.0
15		(same as above)	1405 1580GP-4-15'	0.0
20		(same as above)	1415 1580GP-4-20'	0.9
		Borehole terminated at 20 feet.		

Recovery / Sample

Borehole Backfill: sand; medium bentonite chips

SECOR_SLO_GEOPROBE 1580GP-1 TO 10.GPJ SECOR_SLO.GDT 11/14/14

CLIENT: **Chevron**
PROJECT: **Orcutt Refinery**
LOCATION: **Santa Maria, California**
PROJECT NUMBER: **211802642**

BOREHOLE NO: **1580GP-5** PAGE 1 OF 1

DRILLING STARTED: **8/19/14** COMPLETED: **8/19/14**
DRILLING COMPANY: **OEC**
DRILLING EQUIPMENT: **Geoprobe**
DRILLING METHOD: **Direct Push**
SAMPLING EQUIPMENT:

BOREHOLE DEPTH (ft): **20.0**
BOREHOLE DIAMETER (in): **2**
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**
LOGGED BY: **TA**

NORTHING:
EASTING:
LATITUDE:
LONGITUDE:
CHECKED BY: **SL**

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Headspace PID (ppm)	Depth (feet)	Borehole Backfill
5		SP	**POORLY GRADED FINE GRAINED SAND** ; (10YR - 5/8) yellowish brown; no odor; no staining; trace gravel; little or no fines; interbeds of clayey sands with silt; slight placticity; <0.003 mm grain size; loose sand; moist			1440 1580GP-5-5'	1.2	5	sand
			Hand augered to 8' bgs						
10			(same as above)			1510 1580GP-5-10'	1.9	10	medium bentonite chips
15			(same as above)			1515 1580GP-5-15'	1.3	15	
20			(same as above)			1530 1580GP-5-20'	0.2	20	
			Borehole terminated at 20 feet.						

SECOR_SLO_GEOPROBE 1580GP-1 TO 10.GPJ SECOR_SLO.GDT 11/14/14

CLIENT: **Chevron**
PROJECT: **Orcutt Refinery**
LOCATION: **Santa Maria, California**
PROJECT NUMBER: **211802642**

BOREHOLE NO:
1580GP-6 PAGE 1 OF 1

Stantec

DRILLING STARTED: **8/20/14** COMPLETED: **8/20/14**
DRILLING COMPANY: **OEC**
DRILLING EQUIPMENT: **Geoprobe**
DRILLING METHOD: **Direct Push**
SAMPLING EQUIPMENT:

BOREHOLE DEPTH (ft): **20.0**
BOREHOLE DIAMETER (in): **2**
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**
LOGGED BY: **TA**

NORTHING:
EASTING:
LATITUDE:
LONGITUDE:
CHECKED BY: **SL**

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Headspace PID (ppm)
5		SP	**POORLY GRADED FINE GRAINED SAND** ; (10YR - 5/8) yellowish brown; no odor; no staining; trace gravel; little or no fines; interbeds of clayey sands with silt; slight placticity; <0.003 mm grain size; loose sand; moist			0855 1580GP-6-5'	1.2
			Hand augered to 8' bgs				
10			(same as above)			0905 1580GP-6-10'	2.3
15			(same as above)			0915 1580GP-6-15'	1.9
20			(same as above)			0925 1580GP-6-20'	0.8
			Borehole terminated at 20 feet.				

Borehole Backfill: sand; medium bentonite chips

SECOR_SLO_GEOPROBE 1580GP-1 TO 10.GPJ SECOR_SLO.GDT 11/14/14

CLIENT: **Chevron**
PROJECT: **Orcutt Refinery**
LOCATION: **Santa Maria, California**
PROJECT NUMBER: **211802642**

BOREHOLE NO: **1580GP-7** PAGE 1 OF 1

DRILLING STARTED: **8/20/14** COMPLETED: **8/20/14**
DRILLING COMPANY: **OEC**
DRILLING EQUIPMENT: **Geoprobe**
DRILLING METHOD: **Direct Push**
SAMPLING EQUIPMENT:

BOREHOLE DEPTH (ft): **20.0**
BOREHOLE DIAMETER (in): **2**
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**
LOGGED BY: **TA**

NORTHING:
EASTING:
LATITUDE:
LONGITUDE:
CHECKED BY: **SL**

Depth (feet)	USCS	Description	Time Sample ID	Headspace PID (ppm)
5	SP	**POORLY GRADED FINE GRAINED SAND** ; (10YR - 5/8) yellowish brown; no odor; no staining; trace gravel; little or no fines; interbeds of clayey sands with silt; slight placticity; <0.003 mm grain size; loose sand; moist	1030 1580GP-7-5'	1.1
		Hand augered to 8' bgs		
10		(same as above)	1055 1580GP-7-10'	1.2
15		(same as above)	1100 1580GP-7-15'	1.9
20		(same as above)	1110 1580GP-7-20'	1.8
		Borehole terminated at 20 feet.		

Recovery / Sample

Borehole Backfill: sand; medium bentonite chips

SECOR_SLO_GEOPROBE 1580GP-1 TO 10.GPJ SECOR_SLO.GDT 11/14/14

CLIENT: **Chevron**
PROJECT: **Orcutt Refinery**
LOCATION: **Santa Maria, California**
PROJECT NUMBER: **211802642**

BOREHOLE NO: **1580GP-8** PAGE 1 OF 1

Stantec

DRILLING STARTED: **8/20/14** COMPLETED: **8/20/14**
DRILLING COMPANY: **OEC**
DRILLING EQUIPMENT: **Geoprobe**
DRILLING METHOD: **Direct Push**
SAMPLING EQUIPMENT:

BOREHOLE DEPTH (ft): **20.0**
BOREHOLE DIAMETER (in): **2**
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**
LOGGED BY: **TA**

NORTHING:
EASTING:
LATITUDE:
LONGITUDE:
CHECKED BY: **SL**

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Headspace PID (ppm)	Depth (feet)	Borehole Backfill
5		SP	**POORLY GRADED FINE GRAINED SAND** ; (10YR - 5/8) yellowish brown; no odor; no staining; trace gravel; little or no fines; interbeds of clayey sands with silt; slight placticity; <0.003 mm grain size; loose sand; moist			1250 1580GP-8-5'	0.9	5	sand
			Hand augered to 8' bgs						
10			(same as above)			1305 1580GP-8-10'	0.9	10	medium bentonite chips
15			(same as above)			1315 1580GP-8-15'	1.3	15	
20			(same as above)			1330 1580GP-8-20'	1.9	20	
			Borehole terminated at 20 feet.						

SECOR_SLO_GEOPROBE 1580GP-1 TO 10.GPJ SECOR_SLO.GDT 11/14/14

CLIENT: **Chevron**
PROJECT: **Orcutt Refinery**
LOCATION: **Santa Maria, California**
PROJECT NUMBER: **211802642**

BOREHOLE NO:
1580GP-9 PAGE 1 OF 1

Stantec

DRILLING STARTED: **8/20/14** COMPLETED: **8/20/14**
DRILLING COMPANY: **OEC**
DRILLING EQUIPMENT: **Geoprobe**
DRILLING METHOD: **Direct Push**
SAMPLING EQUIPMENT:

BOREHOLE DEPTH (ft): **20.0**
BOREHOLE DIAMETER (in): **2**
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**
LOGGED BY: **TA**

NORTHING:
EASTING:
LATITUDE:
LONGITUDE:
CHECKED BY: **SL**

Depth (feet)	USCS	Description	Time Sample ID	Headspace PID (ppm)
5	SP	**POORLY GRADED FINE GRAINED SAND** ; (10YR - 5/8) yellowish brown; no odor; no staining; trace gravel; little or no fines; interbeds of clayey sands with silt; slight placticity; <0.003 mm grain size; loose sand; moist	1350 1580GP-9-5'	1.7
		Hand augered to 8' bgs		
10		(same as above)	1405 1580GP-9-10'	2.1
15		(same as above)	1410 1580GP-9-15'	1.3
20		(same as above)	1420 1580GP-9-20'	1.1
		Borehole terminated at 20 feet.		

Borehole Backfill: sand (5 ft); medium bentonite chips (10 ft – 20 ft)

SECOR_SLO_GEOPROBE 1580GP-1 TO 10.GPJ SECOR_SLO.GDT 11/14/14

CLIENT: **Chevron**
PROJECT: **Orcutt Refinery**
LOCATION: **Santa Maria, California**
PROJECT NUMBER: **211802642**

BOREHOLE NO:
1580GP-10 PAGE 1 OF 1

DRILLING STARTED: **8/20/14** COMPLETED: **8/20/14**
DRILLING COMPANY: **OEC**
DRILLING EQUIPMENT: **Geoprobe**
DRILLING METHOD: **Direct Push**
SAMPLING EQUIPMENT:

BOREHOLE DEPTH (ft): **20.0**
BOREHOLE DIAMETER (in): **2**
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**
LOGGED BY: **TA**

NORTHING:
EASTING:
LATITUDE:
LONGITUDE:
CHECKED BY: **SL**

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Headspace PID (ppm)
5		SP	**POORLY GRADED FINE GRAINED SAND** ; (10YR - 5/8) yellowish brown; no odor; no staining; trace gravel; little or no fines; interbeds of clayey sands with silt; slight placticity; <0.003 mm grain size; loose sand; moist			1440 1580GP-10-5'	1.1
			Hand augered to 8' bgs				
10			(same as above)			1550 1580GP-10-10'	0.9
15			(same as above)			1510 1580GP-10-15'	0.2
20			(same as above)			1520 1580GP-10-20'	1.9
			Borehole terminated at 20 feet.				

Depth (feet)	Borehole Backfill
5	sand
10	medium bentonite chips
15	
20	

SECOR_SLO_GEOPROBE 1580GP-1 TO 10.GPJ SECOR_SLO.GDT 11/14/14

GROUNDWATER BORING LOGS

Rincon Consultants

LOG OF MONITORING WELL 1550-MW1

(Page 1 of 2)

1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-14940
Unocal PO# ACH4P001

Date Completed : March 29, 2004
Location : Adjacent to N of southern property boundary
Method : Hollow Stem Auger
Drilled By : S & G Drilling Company
Logged By : J. Inch

Depth in Feet	Samples	USCS	GRAPHIC	DESCRIPTION	PID	Water Level	Well: 1550-MW1 Elev.: 192 feet msl	Blow Count
0				dark gray,SILTY SAND, with some chunks of asphalt, brown, loose, dry			Cover	
5				fine grained sands, no asphalt, medium brown color, loose, moist	0			3 7 7
				more silt, damp				
10					0			3 4 5
15		SM		fine grained sands, more silt then sand, medium brown, soft, moist	0			4 8 10
20				more coarse sand, less silt, medium brown, medium dense	0			2 4 4
							Blank Casing	
25					0			2 12 17
							Grout	
30					0			7 15 15
35		GC		CLAYEY GRAVEL with SAND, fine sands with some silt, angular gravel, dense, moist	0			5 13 35
				SILTY SAND, coarse sands, well graded, medium dense, moist				
40		SM			0			5 10 18
45		CL		SILTY CLAY, medium brown, medium plasticity, soft, damp	0			3 6 6
				SANDY SILT, fine sands, medium brown, loose, moist				
50		SM		coarser sands	0			7 12 13
55				fine sands, moist, medium dense	0			12 17 24

U 02186

Rincon Consultants

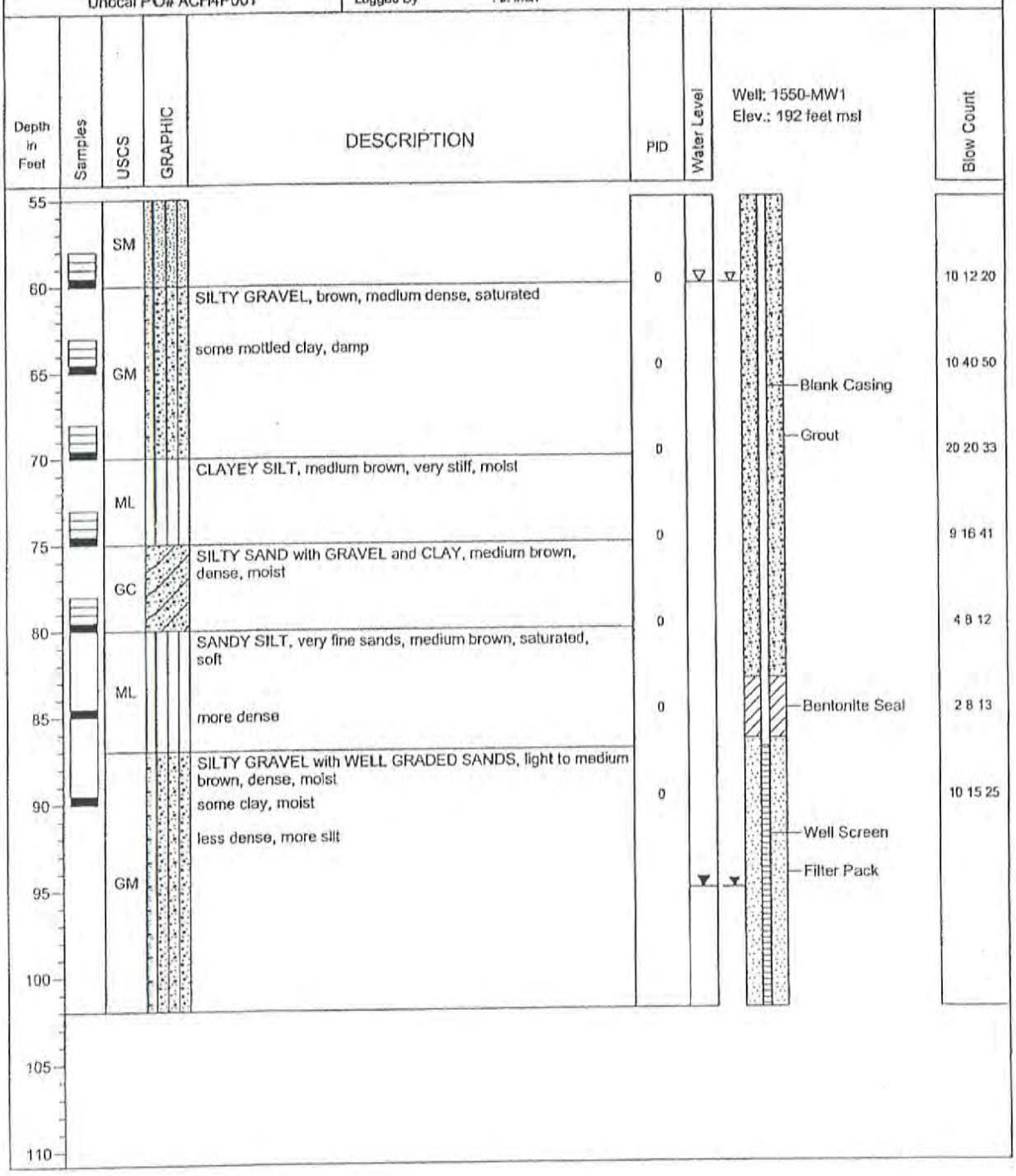
LOG OF MONITORING WELL 1550-MW1

(Page 2 of 2)

1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-14940
Unocal PO# ACH4P001

Date Completed	: March 29, 2004
Location	: Adjacent to N of southern property boundary
Method	: Hollow Stem Auger
Drilled By	: S & G Drilling Company
Logged By	: J. Inch



U 02188

Rincon Consultants

LOG OF MONITORING WELL 1550-MW2

1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-14940
Unocal PO# ACH4P001

Date Completed	: March 29th and 30th, 2004
Location	: Adjacent to N of former borings 1550-SB17 and 1550-B7
Method	: Hollow Stem Auger
Drilled By	: S & G Drilling Company
Logged By	: J. Inch

Depth In Feet	Samples	USCS	GRAPHIC	DESCRIPTION	PID	Water Level	Well: 1550-MW2 Elev.: 189.89 feet msl	Blow Count
0							Cover	
		GM		SANDY SILT with GRAVEL, light brown, loose, dry				
5				SILTY SAND, loose, moist	.3			4 6 8
				well graded sands, medium brown, loose, moist, slight odor of heavy oil				
10				becomes grayish brown	.8			4 5 5
				coarser sand				
15				thin saturated layer silt becomes more dense, no odor, moist	1.9			5 12 16
				fine to medium grained sands, medium brown, moist				
20				SANDY SILT, very fine sands, dark gray, strong odor	233			9 19 21
							Blank Casing	
25					210			2 6 8
							Grout	
30		SM			722			—
35				fine to medium grained sands, light gray, medium dense, strong odor	558			12 17 17
40				SILTY SAND, sand medium to coarse grained, coarse sand light brown, light silt gray, medium dense, damp	63.4			12 20 23
45					363			11 17 20
50				welll graded sands, gray, medium dense, moist	443			11 13 14
55				SANDY SILT, very fine sands, gray, saturated, sheen on sampling spoon	661			5 12 15

U 02187

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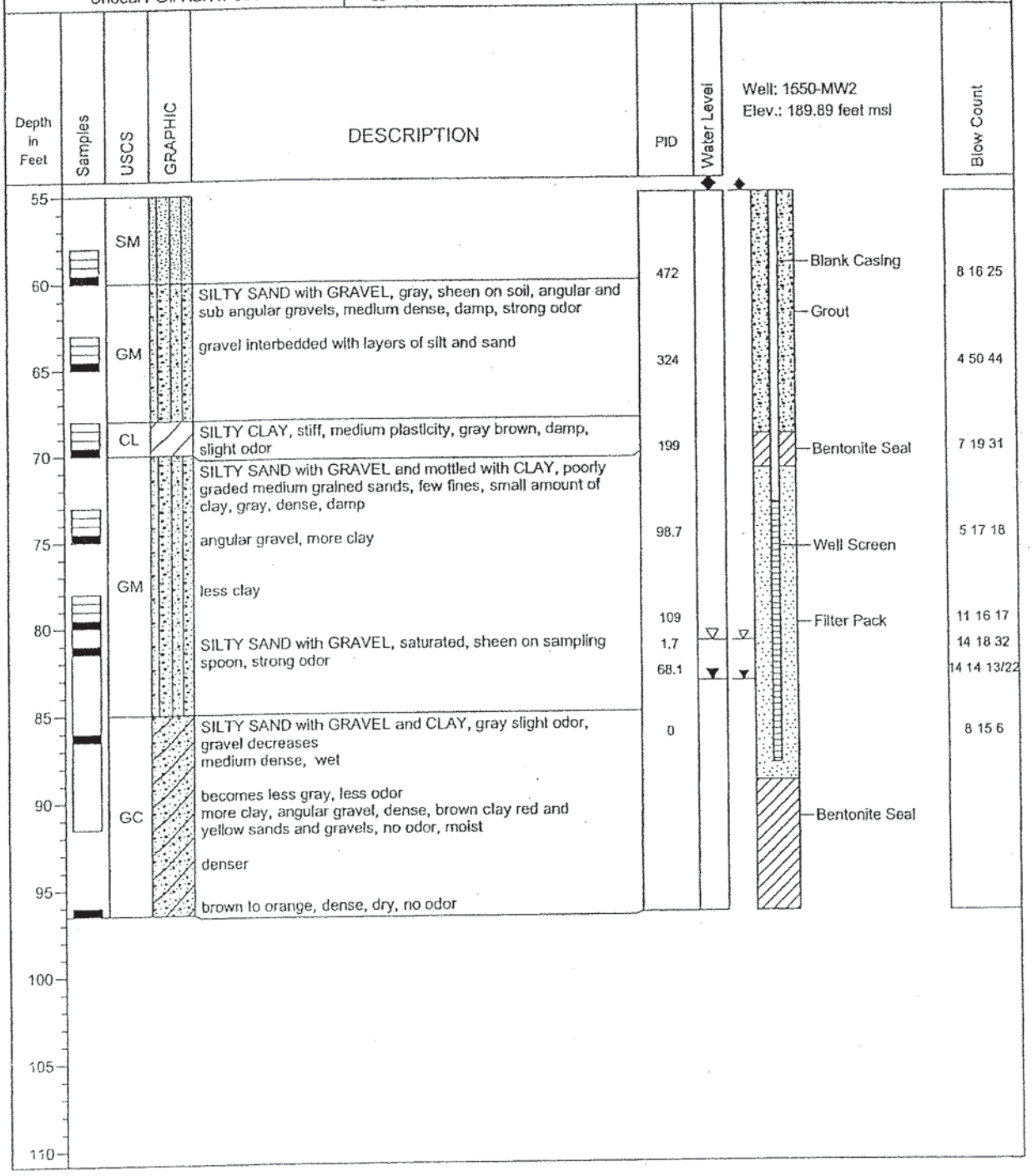
LOG OF MONITORING WELL 1550-MW2

(Page 2 of 2)

1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-14940
Unocal PO# ACH4P001

Date Completed	: March 29th and 30th, 2004
Location	: Adjacent to N of former borings 1550-SB17 and 1550-B7
Method	: Hollow Stem Auger
Drilled By	: S & G Drilling Company
Logged By	: J. Inch



U 02189

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LOG OF MONITORING WELL 1550-MW3

1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-14940
Unocal PO# ACH4P001

Date Completed : March 31, 2004
Location : Adjacent to S of northern property boundary
Method : Hollow Stem Auger
Drilled By : S & G Drilling Company
Logged By : J. Inch

Depth In Feet	Samples	USCS	GRAPHIC	DESCRIPTION	PID	Water Level	Well: 1550-MW3 Elev.: 188.65 feet msl	Blow Count
0		GM		SANDY SILT with gravel, light brown, loose, dry			Cover	
				oil sand, medium dense, strong odor				
5		SM		SILTY SAND, well graded sands, medium brown, loose, moist, slight odor	865			8 9 9
				becomes reddish brown				
10				fine to medium grained sands, moist, loose	344			8 6 6
				medium brown sands				
15					98.4			5 6 8
				dark reddish brown sands, loose, smell of heavy oil, not similar in smell to sump material above, slightly moist	116			12 14 10
20		GM		SILTY SAND with GRAVEL, brown, angular and sub angular gravels, medium dense, dry, slight odor			Blank Casing	
				becomes more dense				
25					7			11 20 15
							Grout	
30		CH		CLAY, stiff, medium plasticity, orange brown, damp, no odor	.6			3 4 5
		SP		SILTY SAND, poorly graded medium grained sands, few fines, loose, damp				
35					0			5 18 13
40		SC		SANDY SILT mottled with CLAY, medium brown, loose, moist	0			4 5 10
45		SP		SILTY SAND with gravel, light brown, well graded fine to coarse grained sands, medium dense, damp	0			11 14 15
50		SM		SILTY SAND, well graded, fine to medium grained, light brown, medium dense, dry	0			10 14 15
				fine grained sands				
55				SANDY SILT, reddish brown, loose, moist	0			11 16 20

U 02190

Rincon Consultants

LOG OF MONITORING WELL 1550-MW3

(Page 2 of 2)

1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-14940
Unocal PO# ACH4P001

Date Completed : March 31, 2004
Location : Adjacent to S of northern property boundary
Method : Hollow Stem Auger
Drilled By : S & G Drilling Company
Logged By : J. Inch

Well: 1550-MW3
Elev.: 188.65 feet msl

Depth In Feet	Samples	USCS	GRAPHIC	DESCRIPTION	PID	Water Level	Blow Count
55		SM					
60				SANDY SILT with GRAVEL, light reddish brown, dense, wet	0		46 43 25
65		GC		GRAVEL CLAY and SAND, very dense, damp	0		16 26 16
70		CL		SILTY CLAY, medium brown, slight plasticity, moist	0		20 14 10
75		GC		SILTY SAND with GRAVEL and CLAY, angular to rounded gravels, sands medium brown in color, gravel varies in color, damp	0		12 20 16
80		SM		SILTY SAND, grayish brown, slight odor, medium dense, moist	1.7		14 18 32
85				SILTY SAND with GRAVEL, gray, loose, damp, slight odor	0		8 15 6
90		GM		gray, medium dense saturated sands, greenish gray sand, loose, odor	.8	▽ ▽	6 11 40
95				interbedded sand and gravel layers			
100							
105							
110							

Blank Casing
Grout
Bentonite Seal
Well Screen
Filter Pack

U 02191

Rincon Consultants

LOG OF MONITORING WELL 1550-MW4

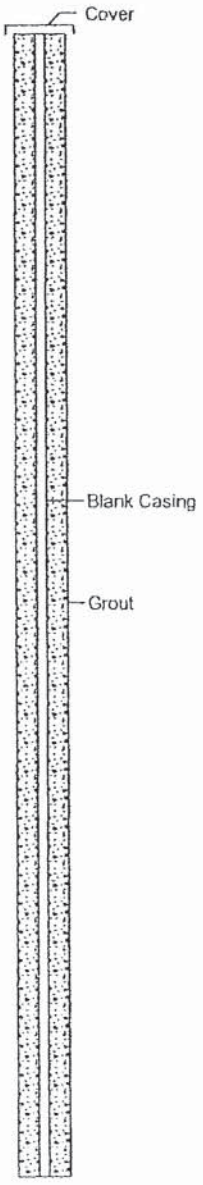
1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-14940
Unocal PO# ACH4P001

Date Completed : March 31 and April 1, 2004
Location : Northwestern corner of site
Method : Hollow Stem Auger
Drilled By : S & G Drilling Company
Logged By : J. Inch

Depth in Feet	Samples	USCS	GRAPHIC	DESCRIPTION	PID	Water Level	Blow Count
0				SILTY SAND with chunks of GRAVEL and asphalt, light brown, loose, no odor			
				OIL SAND, blank, dense, strong odor, moist	63		3 4 5
10		SM		SILTY SAND, well graded sands, medium brown, loose, moist, odor sand becomes dark reddish brown to black again and has a strong odor	20.8		7 7 7
15		CL		SILTY CLAY with SAND, fine sand, medium stiff, slight plasticity, no odor, moist	0.5		5 7 10
20				SILTY SAND, well graded, medium brown, loose, no odor, moist	8.3		10 11 13
25				light brown, fine to medium grained	1.3		9 17 17
30				very fine sands, reddish medium brown, soft, moist	.2		8 7 10
35		SM			0		9 11 15
40					0		5 7 8
45				well graded fine to coarse grained sands, light brown, little fines, damp	0		9 13 16
50					0		9 11 16
		GM		SILTY SAND with GRAVEL, sub-angular to angular gravels, well greded sands, medium dense, light brown, moist			
55				sand becomes more coarse, gravel becomes smaller in size	0		8 11 22

Well: 1550-MW4
Elev.: 188.028 feet msl



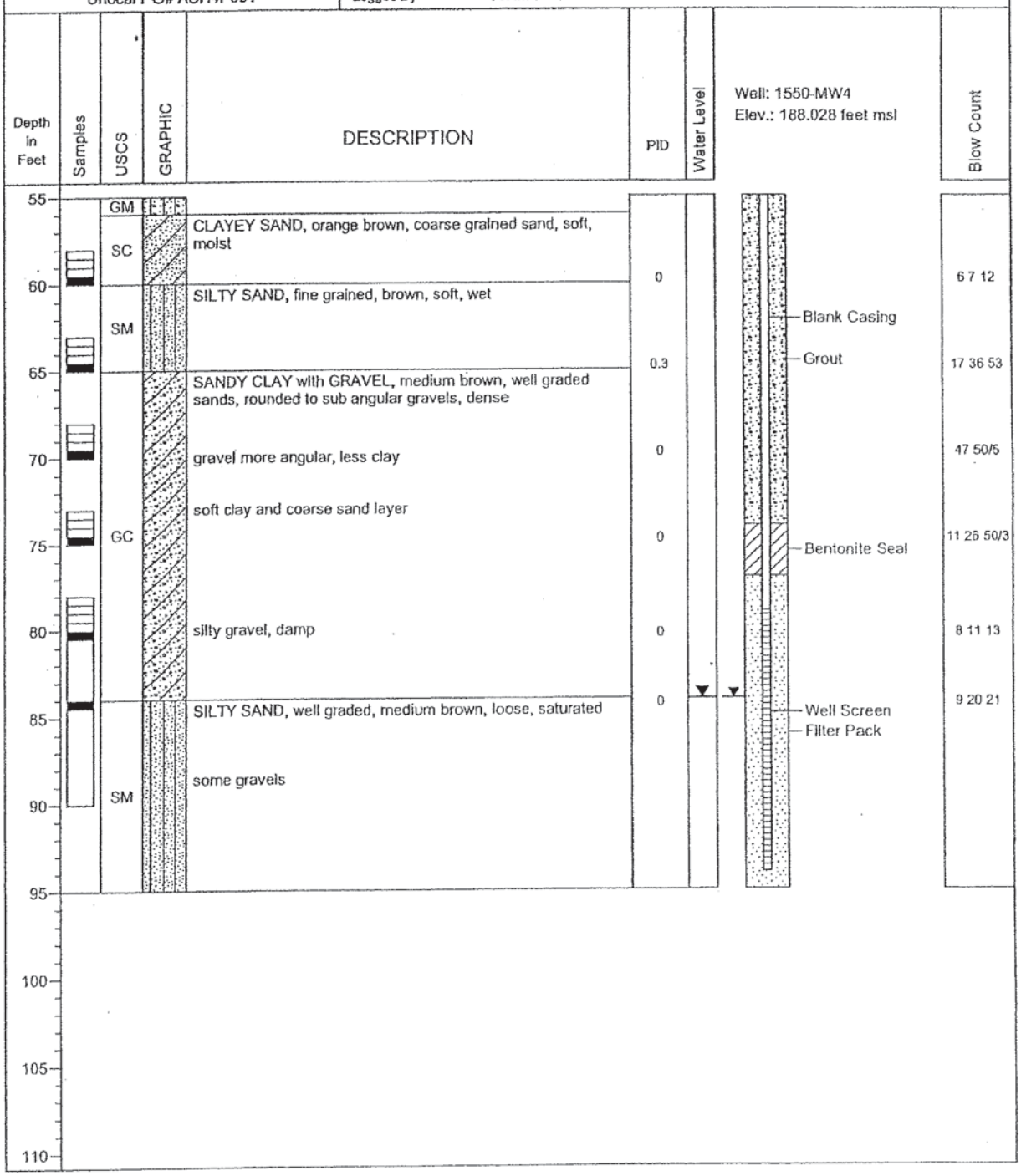
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LOG OF MONITORING WELL 1550-MW4

1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-14940
Unocal PO# ACH4P001

Date Completed : March 31 and April 1, 2004
Location : Northwestern corner of site
Method : Hollow Stem Auger
Drilled By : S & G Drilling Company
Logged By : J. Inch



U 02193

Rincon Consultants

LOG OF MONITORING WELL 1550-MW5

(Page 1 of 2)

1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-14940
Unocal PO# ACH4P001

Date Completed	: April 1st and 2nd, 2004
Location	: Adjacent to the western property boundary
Method	: Hollow Stem Auger
Drilled By	: S & G Drilling Company
Logged By	: J. Inch

Well: 1550-MW5
Elev.: 188.029 feet msl

Depth in Feet	USCS	DESCRIPTION	PID	Blow Count
0		GRAVEL and SAND, light brown, loose, no odor		
		OIL SAND, blank, dense, strong odor, moist		
5			18	5 8 10
		SILTY SAND, well graded sands, medium brown, loose, moist, no odor		
10	SM	fine to medium grained, soft, damp	0	4 5 6
15			0	7 11 15
	SC	SILTY SAND with CLAY, fine sand, slight plasticity, no odor, moist		
20			8.3	10 12 14
		SILTY SAND, well graded, medium brown, loose, no odor, moist		
25		light brown, medium dense, fine to medium grained	1.3	7 10 17
30		poorly graded very fine sands, medium brown, loose, moist	.2	5 6 7
35			0	
	SM			
40		well graded, medium dense, moist	0	7 19 27
45		well graded fine to medium grained sands, medium reddish brown, damp	0	6 6 10
50		light brown	0	11 20 19
55		SANDY SILT, very fine sands, reddish brown, loose, moist	0	7 12 13

Cover
Blank Casing
Grout

U 02194

Rincon Consultants

LOG OF MONITORING WELL 1550-MW5

(Page 2 of 2)

1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-14940
Unocal PO# ACH4P001

Date Completed : April 1st and 2nd, 2004
Location : Adjacent to the western property boundary
Method : Hollow Stem Auger
Drilled By : S & G Drilling Company
Logged By : J. Inch

Depth in Feet	Samples	USCS	GRAPHIC	DESCRIPTION	PID	Water Level	Well: 1550-MW5 Elev.: 188.029 feet msl	Blow Count
55								
60		SM		SILTY SAND, fine grained sands, medium brown, loose	0		Blank Casing	5 8 11
				GRAVEL				
65		GM		SANDY SILT with GRAVEL and CLAY, medium brown silt and sand, and various colored gravel, rounded to sub angular gravel, dry cobble layer	0		Grout	20 7 50/5
70					0			27 28 30
		ML		CLAYEY SILT, reddish brown, dense, moist				
75					0		Bentonite Seal	25 32 18
80				SANDY SILT with GRAVEL, sub angular to angular gravel, orange brown, wet, slight odor saturated zone	0			18 33 41
					0		Well Screen Filter Pack	5/50
85		GM						
90								
95								
100								
105								
110								

U 02195

Rincon Consultants

LOG OF MONITORING WELL 1550-MW6A

1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-14942
Unocal PO# ACH4P001

Date Completed	June 28 and 29, 2004	Latitude/Longitude	34 9381478
Location	Northeastern corner of the subject site		120 4637895
Method	Hollow Stem Auger		
Drilled By	Gregg Drilling Company		
Logged By	J. Inch		

Well: 1550-MW6A
Elev.: 192 68 feet msl

Depth in Feet	Samples	USCS	GRAPHIC	DESCRIPTION	PID	Water Level	Blow Count
0		SM		SILTY SAND with gravel, dense, light brown			
		OS		Black oil sand, strong odor			
5		SM		SILTY SAND, light brown, loose, moist, slight heavy oil odor	0		7 6 5
10		SM		no odor	0		7 8 8
15		SM		becomes more coarse, less fines, well graded sands			
20		SM					
25		SM					
30		SM		fine gray sand, few fines, slight odor Saturated zone encountered			
35		SM			33 6		5 13 31
40		SM			7 7		
		ML		SANDY SILT, fine sands, medium brown, slight odor, damp			
45		ML			4 8		12 24 36
		CL		CLAY, slightly plastic, moist, stiff, slight odor			
50		CL			11 2		8 17 26
55		CL			8 2		11 13 21

Cover
Blank Casing
Grout

Rincon Consultants

LOG OF MONITORING WELL 1550-MW6A

(Page 2 of 2)

1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-14942
Unocal PO# ACH4P001

Date Completed	: June 28 and 29, 2004	Latitude/Longitude	34 9381478
Location	: Northeastern corner of the subject site		120 4637895
Method	: Hollow Stem Auger		
Drilled By	: Gregg Drilling Company		
Logged By	: J. Inch		

Well: 1550-MW6A
Elev.: 192.68 feet msl

Depth in Feet	Samples	USCS	GRAPHIC	DESCRIPTION	PID	Water Level	Blow Count
55				SILTY SAND, coarse sands, loose, damp, slight odor			
60		SM		medium to fine grained, loose, moist Gravel layer begins	5		9 13 19
65				GRAVEL SAND AND CLAY, brown, medium dense, moist, no odor thin saturated layer of silty sand with gravel	0 3		100 for 6"
70		GC		more reddish silt, slight odor	0.2		39/75 for 6"
75					0.9		41 50 for 6"
80				SILTY SAND with GRAVEL, medium brown sands, dense, angular gravel, saturated, slight odor	1.7		
85		GM		well graded, gray, wet, slight odor	28 6		8 10 30
90				SILTY SAND with CLAY, brown, dense, moist, very slight odor	16.2		17 20 26
95		GC		more clay	2 1		15 17 22
100		SM		SAND, well graded, some fines and sub rounded pea gravel, brown, saturatred, no odor more silts			
105		CL		CLAY, brown, stiff			
110							

Blank Casing
Grout
Bentonite Seal
Well Screen
Filter Pack

Rincon Consultants

LOG OF MONITORING WELL 1550-MW6B

(Page 1 of 1)

1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-14942
Unocal PO# ACH4P001

Date Completed	June 29, 2004	Latitude/Longitude	34 9381692
Location	Northeastern corner of the subject site		120 4637867
Method	Hollow Stem Auger		
Drilled By	Gregg Drilling Company		
Logged By	J. Inch		

Depth in Feet	Samples	USCS	GRAPHIC	DESCRIPTION	PID	Water Level	Well: 1550-MW6B Elev 192.79 feet msl	Blow Count
0		SM		SILTY SAND with gravel, dense, light brown			Cover	
		OS		Black oil sand, strong odor				
5		SM		SAND, poorly graded, SAND, poorly graded, SILTY SAND, light brown, loose, moist, slight heavy oil odor				
10		SM		no odor			Blank Casing Grou	
15		SM		becomes more coarse, less fines, well graded sands				
20		SM						
25		SM					Bentonite Seal	
30		SM		fine gray sand, few fines, slight odor Saturated zone encountered				
35		SW		SAND with pea gravel, well graded, few fines, saturated, loose		▼	▼ Well Screen Filter Pack	
40		ML		SANDY SILT, fine sands, medium brown, slight odor, damp				
45		CL		CLAY, brown, stiff, slightly plastic, moist slight odor				
50								
55								

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LOG OF MONITORING WELL 1550-MW7

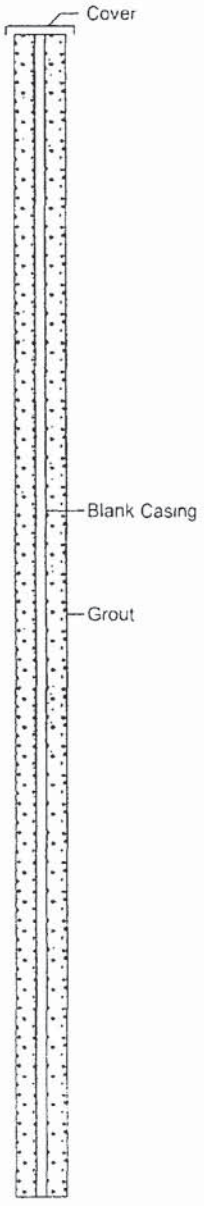
1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-14942
Unocal PO# ACH4P001

Date Completed	: June 30, 2004	Latitude/Longitude	34 9368327
Location	: Southeast of the warehouse buildings		120.4652077
Method	: Hollow Stem Auger		
Drilled By	: Gregg Drilling Company		
Logged By	: J Inch		

Well: 1550-MW7
Elev.: 187.82 feet msl

Depth in Feet	Samples	USCS	GRAPHIC	DESCRIPTION	PID	Water Level	Blow Count
0		SM		SILTY SAND with gravel, dense, light brown			
		OS		Black oil sand, strong odor			
5				Refer to the boring log for SB20 for lithologic description to 87 foot depth			
10				Refer to attached Geotechnical Report from PTS Labratories for physical properties data including: moisture content, density, porosity and total organic carbon			
15							
20							
25		SM					
30							
35							
40							
45				CLAY, slightly plastic, moist, stiff, slight odor			
50		CL					
55							



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LOG OF MONITORING WELL 1550-MW7

1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-14942
Unocal PO# ACH4P001

Date Completed	June 30, 2004	Latitude/Longitude	34 9368327
Location	Southeast of the warehouse buildings		120 4652077
Method	: Hollow Stem Auger		
Drilled By	: Gregg Drilling Company		
Logged By	: J. Inch		

Well: 1550-MW7
Elev.: 187 82 feet msl

Depth in Feet	Samples	USCS	GRAPHIC	DESCRIPTION	PID	Water Level	Blow Count
55							
60							
65		CL					
70							
75							
80		GM		SILTY SAND with GRAVEL, gray sands, dense, angular gravel, saturated, strong odor, sheen on soil	765		14 12 27
				soil becomes brown in color, no gravel, has much less of an odor	211		11 16 26
85		CL		CLAY, brown, moist, stiff	47		12 24 38
		GM		SILTY SAND with GRAVEL, light brown with some red, dense, moist, no odor	86		33 39 42
		GC		more gravel			
90				SILTY SAND with GRAVEL and CLAY, medium brown, very dense, damp, no odor	0		11 32 36
				SILTY SAND with GRAVEL, rounded gravel, brown, dense, moist, very slight odor	0		17 20 28
95				becomes more moist, slight odor, more silts			
				Saturated	0		
		GM					
100				more coarse, very few fines			
105							
		CL		CLAY, brown, stiff, slightly plastic, no odor	0		
110							

Blank Casing
Grout
Bentonite Seal
Well Screen
Filter Pack

Rincon Consultants

LOG OF MONITORING WELL 1550-MW8

(Page 1 of 2)

1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-14942
Unocal PO# ACH4P001

Date Completed	June 30 and July 1, 2004	Latitude/Longitude	34 9375780
Location	West of the warehouse buildings		120 4653762
Method	Hollow Stem Auger		
Drilled By	Gregg Drilling Company		
Logged By	J. Inch		

Depth in Feet	Samples	USCS	GRAPHIC	DESCRIPTION	PID	Water Level	Well: 1550-MW8 Elev : 186.75 feet msl	Blow Count
0		SM		SILTY SAND with gravel, dense, light brown			Cover	
				Black oil sand, strong odor				
5								
10								
		OS						
15								
20							Blank Casing	
25				Refer to Boring Log 1550-SB14 for Lithologic description to 60 foot depth			Grout	
30								
35								
40								
45								
50								
55								

Rincon Consultants

LOG OF MONITORING WELL 1550-MW8

(Page 2 of 2)

1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-14942
Unocal PO# ACH4P001

Date Completed : June 30 and July 1, 2004
Location : West of the warehouse buildings
Method : Hollow Stem Auger
Drilled By : Gregg Drilling Company
Logged By : J. Inch

Latitude/Longitude : 34 9375780
120.4653762

Well: 1550-MW8
Elev.: 186.75 feet msl

Depth in Feet	Samples	USCS	GRAPHIC	DESCRIPTION	PID	Water Level	Blow Count
60		GC		GRAVEL SAND AND CLAY, coarse sand, stiff clay, brown, damp, no odor	1.1		18 19 21
65		GM		GRAVEL SAND and SILT, light brown, granitic angular gravel, coarse sand, very dense, dry, no odor	0.1		16 53 for 6"
70		GM		sub rounded gravel, fine sands, more silt, less dense	0 7		18 22 26
75		GM		SILTY SAND with GRAVEL, brown, medium dense, poorly graded medium grained sands, slight odor	19.5		10 17 24
80		GM		more gravel, denser, slight odor	58		15 25 34
85		SM		SANDY SILT, medium brown, fine sands, medium dense, moist, no odor	7		17 20 26
90		GC		SAND CLAY and GRAVEL, brown, dense, moist, no odor	0 2		34 75 for 6"
95		GW		saturated SAND with GRAVEL, coarse grained sand, well graded gravels, saturated, no odor	0 7	▼	13 17 20
100		GM		more larger gravel, some more fines SAND GRAVEL and SILT, coarse grained sands, light brown silt, no odor	0 2		12 16 22
105		SM		SANDY SILT, well graded sands, light brown, medium dense, wet, no odor	0.1		9 20 29
110							

Blank Casing
Grout
Bentonite Seal
Well Screen
Filter Pack

Rincon Consultants

LOG OF MONITORING WELL 1550-MW9

(Page 1 of 2)

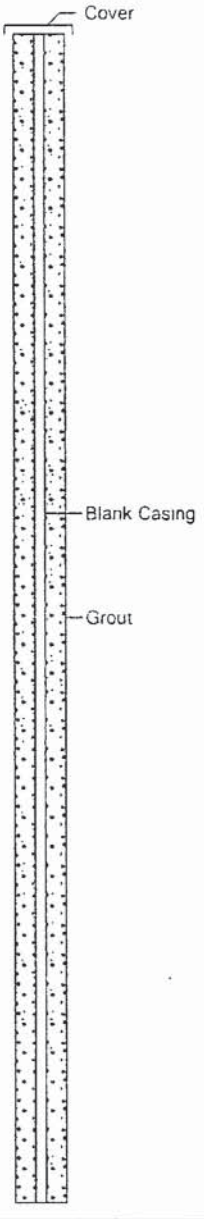
1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-14942
Unocal PO# ACH4P001

Date Completed: July 1 and 2, 2004
Location: Southwestern corner of the site
Method: Hollow Stem Auger
Drilled By: Gregg Drilling Company
Logged By: J. Inch
Latitude/Longitude: 34 9358736 120.4671333

Well: 1550-MW9
Elev.: 188.34 feet msl

Depth in Feet	Samples	USCS	GRAPHIC	DESCRIPTION	PID	Water Level	Blow Count
0		OS		Black sump material, asphalt			
5				metal engine parts encountered			
10				more viscous	3537		100 for 12"
15		SW		SAND, well graded, few fines, light brown, loose, damp, no odor	29		6 8 11
20				becomes more moist	16.4		11 12 16
25				coarser sand, some gravel, denser	0		9 12 13
30				less coarse sand, some pea gravel	0		11 12 13
35				moist, no odor	0		5 13 15
40		SC		CLAYEY SAND, sand mottled with light brown clay, high plasticity, soft, moist	1 2		7 7 12
45		ML		SANDY SILT, fine sands, medium brown, loose, moist	0		7 12 15
50		SM		SILTY SAND, well graded, few fines, light brown, moist, no odor	0		9 11 16
55				darker brown, loose, moist, no odor	0		7 8 11



Rincon Consultants

LOG OF MONITORING WELL 1550-MW9

1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-14942
Unocal PO# ACH4P001

Date Completed	July 1 and 2, 2004	Latitude/Longitude	34 9358736
Location	Southwestern corner of the site		120 4671333
Method	Hollow Stem Auger		
Drilled By	Gregg Drilling Company		
Logged By	J Inch		

Well: 1550-MW9
Elev : 188 34 feet msl

Depth in Feet	Samples	USCS	GRAPHIC	DESCRIPTION	PID	Water Level	Blow Count
55							
60		SM			0		11 15 19
		ML		SANDY SILT, fine sands, light brown, loose, saturated, no odor			
65		GC		GRAVEL SAND and CLAY, angular granitic gravel, brown, dense, damp, no odor	0		40 75 for 6"
70		SM		SILTY SAND, medium grained poorly graded sands, reddish brown, few small chunks of clay and gravel, dense, moist, no odor	0		30 39 47
75		GM		SANDY SILTY GRAVEL, light brown, very dense, dry, no odor	0		42 75 for 6"
80		GC		CLAYEY SANDY GRAVEL, dark brown with some reddish sand, dense, moist, no odor	0		17 29 50
85		ML		SANDY SILT, fine sands, brown, some gravel, soft, saturated, no odor	0		9 17 22
90		GC		SANDY CLAYEY GRAVEL, dark brown, granitic angular gravel, dense, very moist, no odor	0		13 22 29
95		ML		SILTY SAND, fine sands, light brown, saturated, soft	0		27 29 38
100							
105		SW		SAND with GRAVEL, pea gravel, medium to coarse grained sands, saturated			
110							

Blank Casing
Grout
Bentonite Seal
Well Screen
Filter Pack

Rincon Consultants

LOG OF MONITORING WELL 1550-MW10

(Page 1 of 2)

1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

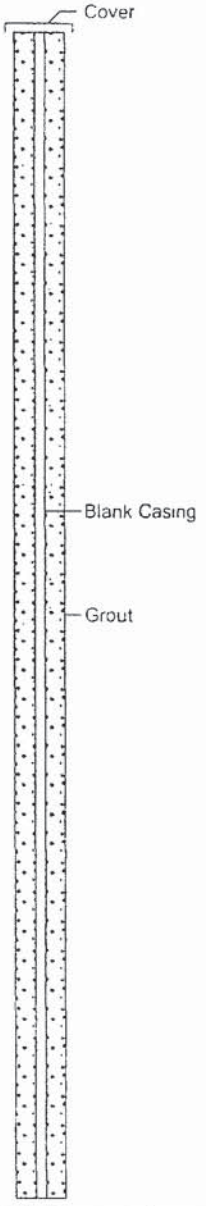
Rincon Project #03-14942
Unocal PO# ACH4P001

Date Completed : July 6, 2004
Location : South of the warehouse buildings
Method : Hollow Stem Auger
Drilled By : Gregg Drilling Company
Logged By : J. Inch

Latitude/Longitude : 34 9365965 : 120 4660049

Depth in Feet	Samples	USCS	GRAPHIC	DESCRIPTION	PID	Water Level	Blow Count
0				Asphalt			
5		SM		SILTY SAND, medium grained sand, light brown, moist			
10					0		7 8 11
15		GM		SILTY SAND with some GRAVEL, light brown, moist becomes more coarse	0		9 10 15
20					0		8 8 13
25		SM		SILTY SAND, well graded sand, moist, no odor	0		6 7 9
30		ML		SANDY SILT, very fine sands, brown, saturated, no odor some clay mottled with the sandy silt, brown, wet but not saturated	0		7 7 10
35		SM		SILTY SAND, poorly graded sands, few fines, medium grained, light brown, loose, dry,	0		6 8 11
40		CL		SILTY CLAY, slightly plastic, brown, soft, moist, no odor	0.8		12 15 19
45					0		7 12 15
50				clay becomes more gray, more stiff, less silt	0		7 10 12
55					0		9 12 16

Well: 1550-MW10
Elev : 187.80 feet msl



Rincon Consultants

LOG OF MONITORING WELL 1550-MW10

1550 West Stowell Road
Former Orcutt Refinery Property
Santa Maria, CA

Rincon Project #03-14942
Unocal PO# ACH4P001

Date Completed	July 6, 2004	Latitude/Longitude	34 9365965
Location	South of the warehouse buildings		120 4660049
Method	Hollow Stem Auger		
Drilled By	Gregg Drilling Company		
Logged By	J. Inch		

Depth in Feet	Samples	USCS	GRAPHIC	DESCRIPTION	PID	Water Level	Well: 1550-MW10 Elev.: 187.80 feet msl	Blow Count
55		SM		SILTY SAND, well graded, loose, slightly moist, no odor				
60		ML		CLAYEY SILT, medium stiff, saturated, no odor	0			17 20 26
65		SM		SILTY SAND, well graded, fine to medium grained, dark brown, moist, no odor	0			10 11 17
70		GC		SILTY SANDY CLAYEY GRAVEL, granitic angular gravel, dense, dry, no odor	0		Blank Casing Grout	13 20 22
75				more dense and more damp	0			22 30 39
80					0			15 20 23
85				more clay and less sand, moist, no odor	0			39 75 for 6"
		ML		SANDY SILT, very dense, fine sands, soft, wet, no odor			Bentonite Seal	
90		GM GC		SANDY SILTY GRAVEL, light brown, very dense, dry, no odor some minor clay encountered	0			16 22 27
		SM		SANDY CLAYEY GRAVEL, dark brown, granitic angular gravel, dense, very moist, no odor	0 0			16 22 27 16 19 21
95		SW		SILTY SAND with few chunks of CLAY, medium dense, wet, no odor			Well Screen	
		SP		GRAVELLY SAND, well graded fine to coarse sands, saturated, no odor			Filter Pack	
100		GM		SAND, poorly graded, medium grained, brown, loose, saturated	0			Retained
		ML		sand becomes more coarse				
				SILTY SAND with GRAVEL, fine sands, saturated				
105		SW		SILTY SAND, well graded medium to coarse sands, saturated				
				CLAYEY SILT, brown, soft, saturated, no odor				
110		ML		SAND with GRAVEL, pea gravel, medium to coarse grained sands, saturated				

CLIENT: **Chevron**
PROJECT: **Orcutt Refinery**
LOCATION: **Santa Maria, California**
PROJECT NUMBER: **211802642**

WELL NO: **MW-11** PAGE 1 OF 6

DRILLING STARTED: **5/10/12** COMPLETED: **5/11/12**
DRILLING COMPANY: **WDC**
DRILLING EQUIPMENT: **CME-95**
DRILLING METHOD: **Hollow Stem Auger**
SAMPLING EQUIPMENT: **Hollow Stem Auger**
LOGGED BY: **RD** CHECKED BY: **RD**

BOREHOLE DEPTH (ft): **130.0** NORTHING:
BOREHOLE DIAMETER (in): **10** EASTING:
WELL DEPTH (ft): **---** LATITUDE:
WELL CASING DIAMETER (in): LONGITUDE:
INITIAL DTW (ft): **116 8/2/11**
STATIC DTW (ft): **115 8/2/11**

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)	Depth (feet)	Borehole Backfill
		SW	**FINE/MEDIUM-GRAINED SAND WITH SILT AND SUBANGULAR GRAVEL (5-20 MM)** ; Light brown; dry; medium dense; no HC odor							Well Box
			Tan; decrease in gravel							
5			**MEDIUM/COARSE-GRAINED SAND WITH TRACE SMALL SUBANGULAR GRAVEL (5-15 MM)** ; Tan; slightly moist; loose; no HC odor			1000 MW-11 @ 6'	4 6 4	0.1	5	
10			**MEDIUM/COARSE-GRAINED SAND WITH SILT AND SMALL SUBANGULAR GRAVEL (5 MM)** ; Light orange/brown; no HC odor			1007 MW-11 @ 11'	5 8 12	0.0	10	
15			**FINE/MEDIUM-GRAINED SAND** ; Dark tan; moist; loose; no HC odor			1011 MW-11 @ 16'	6 8 10	0.2	15	
20			**MEDIUM/COARSE-GRAINED SAND WITH SUBANGULAR AND ROUNDED GRAVEL (5 MM)** ; Moist; medium dense; slight HC odor			1016 MW-11 @ 20.5'	6 9 27	0.8	20	
							5 10			

SECOR_SLO_MW MW11.GPJ SECOR_SLO.GDT 9/5/12

CLIENT: **Chevron**
PROJECT: **Orcutt Refinery**
LOCATION: **Santa Maria, California**
PROJECT NUMBER: **211802642**

WELL NO: **MW-11** PAGE 2 OF 6

DRILLING STARTED: **5/10/12** COMPLETED: **5/11/12**
DRILLING COMPANY: **WDC**
DRILLING EQUIPMENT: **CME-95**
DRILLING METHOD: **Hollow Stem Auger**
SAMPLING EQUIPMENT: **Hollow Stem Auger**
LOGGED BY: **RD** CHECKED BY: **RD**

BOREHOLE DEPTH (ft): **130.0** NORTHING:
BOREHOLE DIAMETER (in): **10** EASTING:
WELL DEPTH (ft): **---** LATITUDE:
WELL CASING DIAMETER (in): LONGITUDE:
INITIAL DTW (ft): **116 8/2/11**
STATIC DTW (ft): **115 8/2/11**

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)	Depth (feet)	Borehole Backfill
		SW	Moist; decrease in gravel; no HC odor			1025 MW-11 @ 26'	16	1.2		
30			**MEDIUM/COARSE-GRAINED SAND WITH ROUNDED GRAVEL (5-20 MM) AND TRACE SILT** ; Tan; increase in moisture; unidentified odor; no HC odor			1033 MW-11 @ 31'	12 10 7	233	30	
35			**MEDIUM/COARSE-SAND** ; Grey; moist; medium dense; heavy HC odor			1036 MW-11 @ 36'	12	117	35	
40			Decrease in coarse-grained sand; dark grey; moist; heavy HC odor			1046 MW-11 @ 41'	6 16 19	194	40	
45		CL	**CLAY WITH FINE-GRAINED SAND** ; Grey; very moist to wet; soft; strong HC odor			1050 MW-11 @ 46'	3 6 10	146	45	
		SW	**FINE/MEDIUM-GRAINED SAND WITH SILT AND CLAY**			1103	4 4			

SECOR_SLO_MW MW11.GPJ SECOR_SLO.GDT 9/5/12

CLIENT: **Chevron**
PROJECT: **Orcutt Refinery**
LOCATION: **Santa Maria, California**
PROJECT NUMBER: **211802642**

WELL NO: **MW-11** PAGE 3 OF 6

DRILLING STARTED: **5/10/12** COMPLETED: **5/11/12**
DRILLING COMPANY: **WDC**
DRILLING EQUIPMENT: **CME-95**
DRILLING METHOD: **Hollow Stem Auger**
SAMPLING EQUIPMENT: **Hollow Stem Auger**
LOGGED BY: **RD** CHECKED BY: **RD**

BOREHOLE DEPTH (ft): **130.0** NORTHING:
BOREHOLE DIAMETER (in): **10** EASTING:
WELL DEPTH (ft): **---** LATITUDE:
WELL CASING DIAMETER (in): LONGITUDE:
INITIAL DTW (ft): **116 8/2/11**
STATIC DTW (ft): **115 8/2/11**

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)	Depth (feet)	Borehole Backfill
		SW	**AND TRACE ROUNDED GRAVEL (10 MM)** ; Grey; wet; HC odor			MW-11 @ 50.5'	14			
			Increase in coarse-grained sand; medium dense							
							4			
55			Decrease in coarse-grained sand; moist			1110	5		55	
						MW-11 @ 56'	7	1086		
							12			
60			Olive grey; very moist to wet			1125	14		60	
		CL	**CLAY WITH FINE-GRAINED SAND AND TRACE ROUNDED GRAVEL (5 MM)** ; Olive/grey; moist; medium stiff; HC odor			MW-11 @ 61'	14	66.4		
							17			
65		SP	**COARSE-GRAINED SAND WITH ROUNDED GRAVEL (5-20 MM) AND CLAY** ; Olive green with grey mottles; moist; dense; HC odor			1135	29		65	
						MW-11 @ 66'	30	284		
							5			
70			**CLAYEY COARSE-GRAINED SAND**			1145	14		70	
		SC	**CLAY WITH FINE-GRAINED SAND AND ROUNDED GRAVEL (5-10 MM)** ; Grey/green; moist; medium stiff; HC odor			MW-11 @ 71'	18	176		
							12			
							22			

Bentonite/ Portland cement

PVC Blank

SECOR_SLO_MW MW11.GPJ SECOR_SLO.GDT 9/5/12

CLIENT: **Chevron**
PROJECT: **Orcutt Refinery**
LOCATION: **Santa Maria, California**
PROJECT NUMBER: **211802642**

WELL NO: **MW-11** PAGE 4 OF 6

DRILLING STARTED: **5/10/12** COMPLETED: **5/11/12**
DRILLING COMPANY: **WDC**
DRILLING EQUIPMENT: **CME-95**
DRILLING METHOD: **Hollow Stem Auger**
SAMPLING EQUIPMENT: **Hollow Stem Auger**
LOGGED BY: **RD** CHECKED BY: **RD**

BOREHOLE DEPTH (ft): **130.0** NORTHING:
BOREHOLE DIAMETER (in): **10** EASTING:
WELL DEPTH (ft): **---** LATITUDE:
WELL CASING DIAMETER (in): LONGITUDE:
INITIAL DTW (ft): **116 8/2/11**
STATIC DTW (ft): **115 8/2/11**

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)	Depth (feet)	Borehole Backfill
		SC	**GRAVELLY COARSE-GRAINED SAND WITH CLAY** ; Green with dark grey mottles; moist; dense; increase in HC odor (limited recovery)			1155 MW-11 @ 76'	25	112		
80			**MEDIUM/COARSE-GRAINED SAND WITH CLAY** ; Dark grey with black mottles; very moist to wet; increase in gravel			1205 MW-11 @ 81'	17 23 30	104	80	
85		SW	**FINE-GRAINED SAND WITH SILT** ; Dark tan; very moist; loose; decrease in HC odor			1215 MW-11 @ 86'		76.3	85	
90		SW	**COARSE-GRAINED SAND WITH ROUNDED GRAVEL (5-15 MM)AND TRACE CLAY** ; Dark tan with red/pink deposits; slight HC odor; very moist to moist; dense			1230 MW-11 @ 91'	12 28 26	53.2	90	
95			Increase in medium-grained sand; moist; dense			1245 MW-11 @ 96'	11 25 28	40.3	95	
							11 15			

SECOR_SLO_MW MW11.GPJ SECOR_SLO.GDT 9/5/12

CLIENT: **Chevron**
PROJECT: **Orcutt Refinery**
LOCATION: **Santa Maria, California**
PROJECT NUMBER: **211802642**

WELL NO: **MW-11** PAGE 5 OF 6

DRILLING STARTED: **5/10/12** COMPLETED: **5/11/12**
DRILLING COMPANY: **WDC**
DRILLING EQUIPMENT: **CME-95**
DRILLING METHOD: **Hollow Stem Auger**
SAMPLING EQUIPMENT: **Hollow Stem Auger**
LOGGED BY: **RD** CHECKED BY: **RD**

BOREHOLE DEPTH (ft): **130.0** NORTHING:
BOREHOLE DIAMETER (in): **10** EASTING:
WELL DEPTH (ft): **---** LATITUDE:
WELL CASING DIAMETER (in): LONGITUDE:
INITIAL DTW (ft): **116 8/2/11**
STATIC DTW (ft): **115 8/2/11**

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)	Depth (feet)	Borehole Backfill
		SW	Olive; moist; increase in HC odor			1330 MW-11 @ 101'	31	7.0		
			Increase in gravel; dense							
105		SW	**VERY FINE/FINE-GRAINED SAND AND SILT** ; Orange/rust/tan; wet; loose; little to no HC odor			1345 MW-11 @ 106'	6 7 8	0.4	105	Bentonite seal
110		SW	**MEDIUM/COARSE-GRAINED SAND WITH ROUNDED GRAVEL (5-10 MM)** ; Tan; moist; dense to very dense; slight HC odor (limited recovery)			1355 MW-11 @ 110.5'	20 50 for 6"		110	
115			Olive/tan; loose; decrease in gravel; very wet to saturated; slight to no HC odor			1405 MW-11 @ 116'	5 7 10	0.2	115	Sand 0.02" Screened Pipe
120		SW	**FINE/MEDIUM-GRAINED SAND WITH SILT AND TRACE COARSE-GRAINED SAND** ; Dark tan; saturated; loose; no HC odor (limited recovery)			1420 MW-11 @ 121'	7 11 18		120	
							6 7			

SECOR_SLO_MW MW11.GPJ SECOR_SLO.GDT 9/5/12

CLIENT: **Chevron**
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LOCATION: **Santa Maria, California**
PROJECT NUMBER: **211802642**

WELL NO:

MW-11 PAGE 6 OF 6

DRILLING STARTED: **5/10/12** COMPLETED: **5/11/12**
DRILLING COMPANY: **WDC**
DRILLING EQUIPMENT: **CME-95**
DRILLING METHOD: **Hollow Stem Auger**
SAMPLING EQUIPMENT: **Hollow Stem Auger**
LOGGED BY: **RD** CHECKED BY: **RD**

BOREHOLE DEPTH (ft): **130.0** NORTHING:
BOREHOLE DIAMETER (in): **10** EASTING:
WELL DEPTH (ft): **---** LATITUDE:
WELL CASING DIAMETER (in): LONGITUDE:
INITIAL DTW (ft): **116 8/2/11**
STATIC DTW (ft): **115 8/2/11**

Depth (feet)	Graphic Log	USCS	Description	Recovery	Sample	Time Sample ID	Blow Count (Per 6")	Headspace PID (units)	Depth (feet)	Borehole Backfill
		SW	**FINE/MEDIUM-GRAINED SAND** ; Tan; saturated; loose; no HC odor			1430 MW-11 @ 126'	12	0.1		
						1530 MW-11 @ 129'		0.7		
130			**GRAVELLY COARSE/MEDIUM-GRAINED SAND WITH TRACE FINES** ; Dark tan; saturated; no HC odor						130	
			Borehole terminated at 130 feet.							
135									135	
140									140	
145									145	

SECOR_SLO_MW MW11.GPJ SECOR_SLO.GDT 9/5/12

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LOG OF DRILL HOLE MW-12

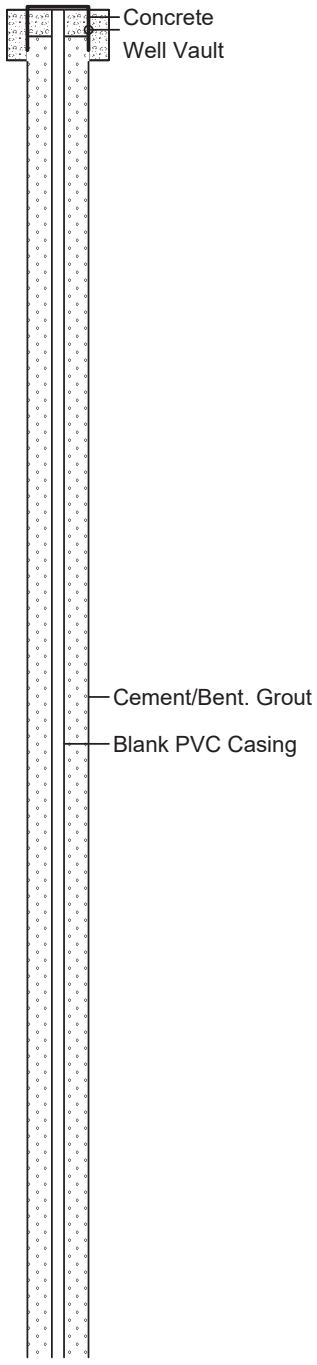
Former Orcutt Refinery
1550 West Stowell Road
Santa Maria, CA

Chevron EMC / Sunoco

Project Number	: 1001-1531	Boring Total Depth	: 130 feet
Project Name	: Additional Groundwater Assmt.	Drilling Date	: 5/20/13
Logged By	: Paul G. Lavelle	Completed With	: 2-inch Monitoring Well
Checked By	: Louis J. Cappel P.G., C.Hg.	Initial Water Depth	: 112 feet
Driller-Method	: Cascade-HSA	Static Water Depth	: 110.67 feet

Depth in Feet	Water Level	USCS	GRAPHIC	Samples Collected	PID (ppmv)	Blow Count	DESCRIPTION
0		SM					Silty SAND (SM): dark brown (10YR 3/3); fine grained sand with silt; platy structure; medium dense; dry; slight hydrocarbon odor. Becomes black (10 YR 2/1); sticky; moist; strong hydrocarbon staining and odor.
5		SW		■	0.0	3-5-7	Well graded SAND (SW): dark yellowish brown (10YR 4/4); fine to coarse grained sand; subrounded grains; few fine asphaltic fragments; medium dense; damp; no hydrocarbon staining or odor.
10				■	0.0	5-5-6	Same as above, with increased coarse sand content; no asphaltic fragments.
15				■	0.0	5-5-8	Same as above, with few medium angular siltstone gravel; trace clay.
20				■	0.0	7-7-9	Same as above.
25				■	0.0	9-12-20	

Well Construction Details:



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LOG OF DRILL HOLE MW-12

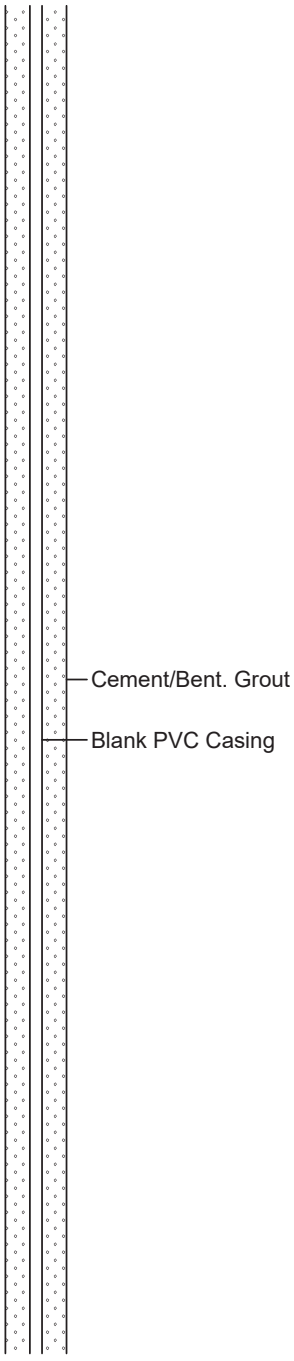
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Santa Maria, CA

Chevron EMC / Sunoco

Project Number	: 1001-1531	Boring Total Depth	: 130 feet
Project Name	: Additional Groundwater Assmt.	Drilling Date	: 5/20/13
Logged By	: Paul G. Lavelle	Completed With	: 2-inch Monitoring Well
Checked By	: Louis J. Cappel P.G., C.Hg.	Initial Water Depth	: 112 feet
Driller-Method	: Cascade-HSA	Static Water Depth	: 110.67 feet

Depth in Feet	Water Level	USCS	GRAPHIC	Samples Collected	PID (ppmv)	Blow Count	DESCRIPTION
25		SW					Becomes yellowish brown (10YR 5/4); some very fine sand; no clay.
							Poorly graded SAND (SP): yellowish brown (10YR 5/4); very fine to fine grained; trace silt; medium dense; damp; no hydrocarbon staining or odor.
30				■	0.0	4-5-8	
35		SP		■	0.0	11-12-14	Same as above, with no silt.
40				■	0.0	8-9-11	Becomes dark yellowish brown (10YR 4/4); very fine grained; little silt.
45				■	0.0	12-13-16	Becomes light yellowish brown (10YR 6/4); no silt.
50				■	0.0	7-8-9	Same as above.

Well Construction Details:



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LOG OF DRILL HOLE MW-12

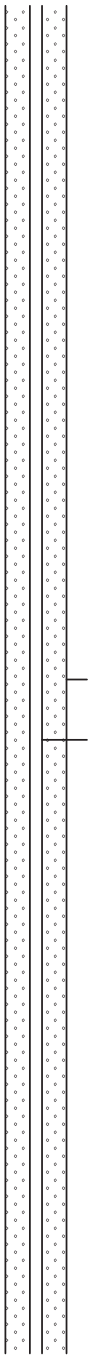
Former Orcutt Refinery
1550 West Stowell Road
Santa Maria, CA

Chevron EMC / Sunoco

Project Number	: 1001-1531	Boring Total Depth	: 130 feet
Project Name	: Additional Groundwater Assmt.	Drilling Date	: 5/20/13
Logged By	: Paul G. Lavelle	Completed With	: 2-inch Monitoring Well
Checked By	: Louis J. Cappel P.G., C.Hg.	Initial Water Depth	: 112 feet
Driller-Method	: Cascade-HSA	Static Water Depth	: 110.67 feet

Depth in Feet	Water Level	USCS	GRAPHIC	Samples Collected	PID (ppmv)	Blow Count	DESCRIPTION
50							Same as above.
55		SP			0.0	9-11-12	Becomes fine to medium grained; subrounded grains.
60					0.0	7-11-12	Becomes dark yellowish brown (10 YR 3/4); fine grained sand with some silt; trace clay.
65		SP-GP			0.0	12-13-16	Poorly graded SAND and GRAVEL (SP-GP): strong brown (7.5YR 4/6); fine to medium grained sand with fine to medium subrounded gravel; little silt and clay; medium dense; moist; no hydrocarbon staining or odor.
70					0.0	14-16-17	Becomes dense, with fine gravel.
75		SC			0.0	14-14-16	Clayey SAND (SC): brown (7.5YR 4/4); fine grained; few fine gravel; medium dense; moist; no hydrocarbon staining or odor.

Well Construction Details:



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LOG OF DRILL HOLE MW-12

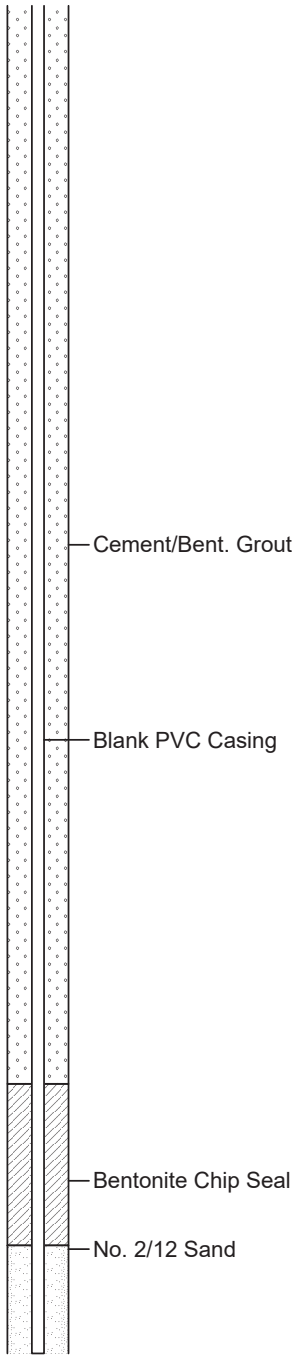
Former Orcutt Refinery
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Chevron EMC / Sunoco

Project Number	: 1001-1531	Boring Total Depth	: 130 feet
Project Name	: Additional Groundwater Assmt.	Drilling Date	: 5/20/13
Logged By	: Paul G. Lavelle	Completed With	: 2-inch Monitoring Well
Checked By	: Louis J. Cappel P.G., C.Hg.	Initial Water Depth	: 112 feet
Driller-Method	: Cascade-HSA	Static Water Depth	: 110.67 feet

Depth in Feet	Water Level	USCS	GRAPHIC	Samples Collected	PID (ppmv)	Blow Count	DESCRIPTION
75							Same as above with some coarse sand and medium to coarse subrounded gravel; dense.
80		SC			0.0	13-17-18	
							Poorly graded SAND and GRAVEL (SP-GP); dark yellowish brown (10YR 4/4); coarse grained sand with medium to coarse subrounded gravel; medium dense; moist; no hydrocarbon staining or odor.
85					0.0	11-12-16	
90		SP-GP			0.0	12-14-16	Same as above, with no coarse gravel; trace clay.
95					0.0	14-17-18	Becomes brown (10YR 5/4).
100					0.0	21-23-27	

Well Construction Details:



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LOG OF DRILL HOLE MW-12

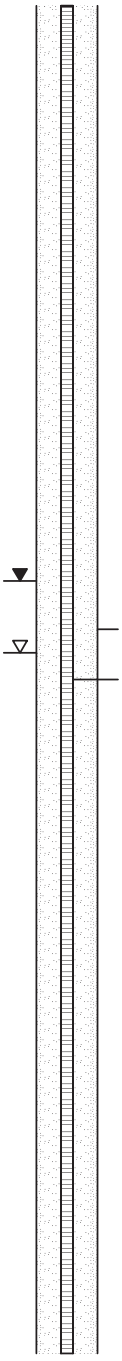
Former Orcutt Refinery
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Chevron EMC / Sunoco

Project Number	: 1001-1531	Boring Total Depth	: 130 feet
Project Name	: Additional Groundwater Assmt.	Drilling Date	: 5/20/13
Logged By	: Paul G. Lavelle	Completed With	: 2-inch Monitoring Well
Checked By	: Louis J. Cappel P.G., C.Hg.	Initial Water Depth	: 112 feet
Driller-Method	: Cascade-HSA	Static Water Depth	: 110.67 feet

Depth in Feet	Water Level	USCS	GRAPHIC	Samples Collected	PID (ppmv)	Blow Count	DESCRIPTION
100							Same as above, with some coarse gravel; dense; slight hydrocarbon odor.
		SP-GP		■	0.0	14-17-19	Becomes medium to coarse grained sand with medium to coarse gravel; subrounded grains; fragments of siltstone; slight hydrocarbon odor.
105							
							CLAY (CL): yellowish brown (10YR 5/6); some silt and fine grained sand; very moist; stiff; no hydrocarbon staining or odor.
110	▼	CL		■	0.0	9-12-17	
	▽						
115		SW		■	0.0	6-9-8	Well graded SAND (SW): brown (10YR 4/3); fine to coarse grained; trace fine gravel; subrounded grains; medium dense; wet; no hydrocarbon staining or odor.
120				■	0.0	15-12-17	Same as above, with abundant fine gravel; wet.
		SC		■	0.0	9-12-13	Clayey SAND (SC): dark yellowish brown (10YR 4/4); fine grained sand with clay; little silt; medium dense; no hydrocarbon staining or odor.
125							

Well Construction Details:



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LOG OF DRILL HOLE MW-12

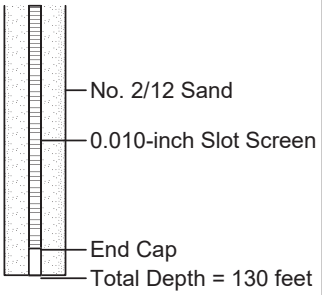
Former Orcutt Refinery
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Santa Maria, CA

Chevron EMC / Sunoco

Project Number	: 1001-1531	Boring Total Depth	: 130 feet
Project Name	: Additional Groundwater Assmt.	Drilling Date	: 5/20/13
Logged By	: Paul G. Lavelle	Completed With	: 2-inch Monitoring Well
Checked By	: Louis J. Cappel P.G., C.Hg.	Initial Water Depth	: 112 feet
Driller-Method	: Cascade-HSA	Static Water Depth	: 110.67 feet

Depth in Feet	Water Level	USCS	GRAPHIC	Samples Collected	PID (ppmv)	Blow Count	DESCRIPTION
125		SC					Same as above; wet.
130		SP			0.0	12-16-14	Poorly graded SAND (SP): fine grained sand; no fines; medium dense; wet; no hydrocarbon staining or odor.

Well Construction Details:



Notes:

1. HSA = Hollow Stem Auger
2. Suspected hydrocarbon-containing soil observed at approximate depths of 2 feet to 4 feet.
3. Drill hole completed with a 2-inch diameter schedule-80 PVC monitoring well (refer to well construction details).

135
140
145
150

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LOG OF DRILL HOLE MW-13

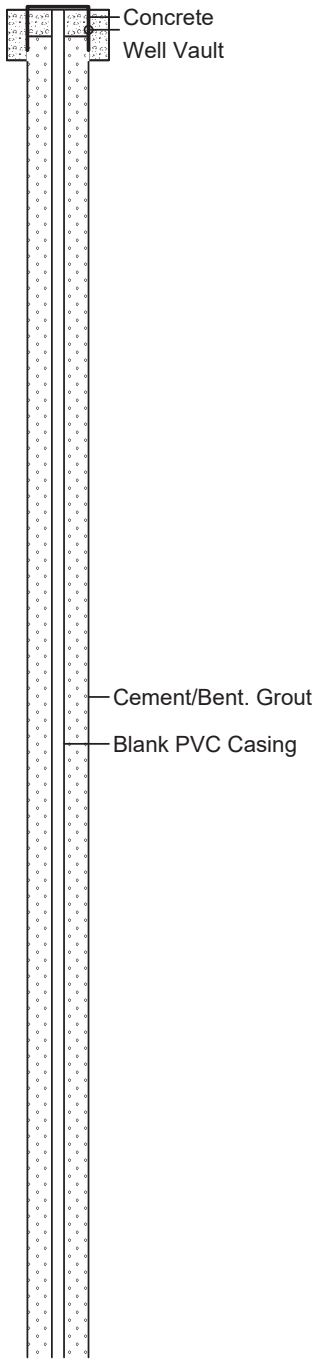
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Santa Maria, CA

Chevron EMC / Sunoco

Project Number	: 1001-1531	Boring Total Depth	: 130 feet
Project Name	: Additional Groundwater Assmt.	Drilling Date	: 5/21/13
Logged By	: Paul G. Lavelle	Completed With	: 2-inch Monitoring Well
Checked By	: Louis J. Cappel P.G., C.Hg.	Initial Water Depth	: 110 feet
Driller-Method	: Cascade-HSA	Static Water Depth	: 110.65 feet

Depth in Feet	Water Level	USCS	GRAPHIC	Samples Collected	PID (ppmv)	Blow Count	DESCRIPTION
0							Poorly graded SAND (SP): dark yellowish brown (10YR 4/4); fine grained; subangular grains; loose; dry; no hydrocarbon staining or odor.
5				■	0.0	5-7-7	Becomes yellowish brown (10YR 5/4); damp.
10		SP		■	0.0	7-9-11	
15				■	0.0	8-8-9	Same as above.
20		SW		■	0.0	9-10-12	Well graded SAND (SW): brown (10YR 5/3); fine to coarse grained; subrounded grains; medium dense; damp; no hydrocarbon staining or odor.
25				■	0.0	7-9-11	

Well Construction Details:



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LOG OF DRILL HOLE MW-13

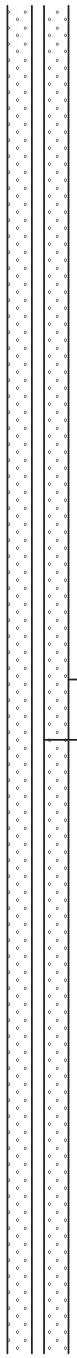
Former Orcutt Refinery
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Chevron EMC / Sunoco

Project Number	: 1001-1531	Boring Total Depth	: 130 feet
Project Name	: Additional Groundwater Assmt.	Drilling Date	: 5/21/13
Logged By	: Paul G. Lavelle	Completed With	: 2-inch Monitoring Well
Checked By	: Louis J. Cappel P.G., C.Hg.	Initial Water Depth	: 110 feet
Driller-Method	: Cascade-HSA	Static Water Depth	: 110.65 feet

Depth in Feet	Water Level	USCS	GRAPHIC	Samples Collected	PID (ppmv)	Blow Count	DESCRIPTION
25		SW					Same as above.
30		SP		■	0.0	7-9-9	Poorly graded SAND (SP): brown (10YR 5/3); fine to medium grained; medium dense; damp; no hydrocarbon staining or odor.
35				■	0.0	8-10-12	Same as above.
40		SW		■	0.0	5-6-8	Well graded SAND (SW): pale brown (10YR 6/3); very fine to coarse grained; subrounded grains; no fines; medium dense; damp; no hydrocarbon staining or odor.
45		SP		■	0.0	7-9-11	Poorly graded SAND (SP): brown (10YR 5/3); fine grained; trace silt; slightly moist; no hydrocarbon staining or odor.
50		ML		■	0.0	4-7-8	SILT (ML): dark yellowish brown (10YR 4/4); some very fine sand; stiff; moist; no hydrocarbon staining or odor.

Well Construction Details:



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LOG OF DRILL HOLE MW-13

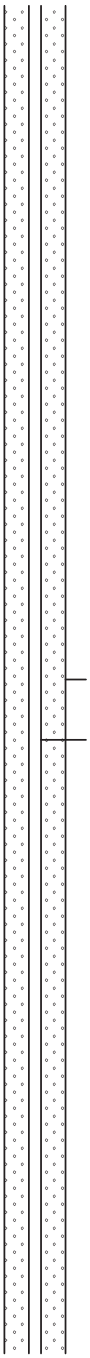
Former Orcutt Refinery
1550 West Stowell Road
Santa Maria, CA

Chevron EMC / Sunoco

Project Number	: 1001-1531	Boring Total Depth	: 130 feet
Project Name	: Additional Groundwater Assmt.	Drilling Date	: 5/21/13
Logged By	: Paul G. Lavelle	Completed With	: 2-inch Monitoring Well
Checked By	: Louis J. Cappel P.G., C.Hg.	Initial Water Depth	: 110 feet
Driller-Method	: Cascade-HSA	Static Water Depth	: 110.65 feet

Depth in Feet	Water Level	USCS	GRAPHIC	Samples Collected	PID (ppmv)	Blow Count	DESCRIPTION
50		ML					Same as above.
55		SM		■	0.0	8-8-11	Silty SAND (SM): brown (10YR 5/3); fine grained; moist; no hydrocarbon staining or odor.
60				■	0.0	4-6-8	Becomes wet (approx. 6-inch thick saturated zone). Stopped drilling for 15 minutes and taped hole; dry. Re-started drilling.
65		SP-GP		■	0.0	11-14-17	Poorly graded SAND and GRAVEL (SP-GP): brown (7.5YR 4/4); fine to medium grained sand with fine to medium subrounded gravel; few fragments of siltstone; trace clay; dense; moist; no hydrocarbon staining or odor.
70		GC		■	0.0	9-12-12	Clayey GRAVEL (GC): strong brown (7.5YR 4/6); some very fine sand; gravel is subrounded; medium dense; moist; no hydrocarbon staining or odor.
75		SP-GP		■	0.0	9-17-12	Poorly graded SAND and GRAVEL (SP-GP): brown (7.5YR 4/4); fine to medium sand with fine to medium subrounded gravel; medium dense; moist; no hydrocarbon staining or odor.

Well Construction Details:



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LOG OF DRILL HOLE MW-13

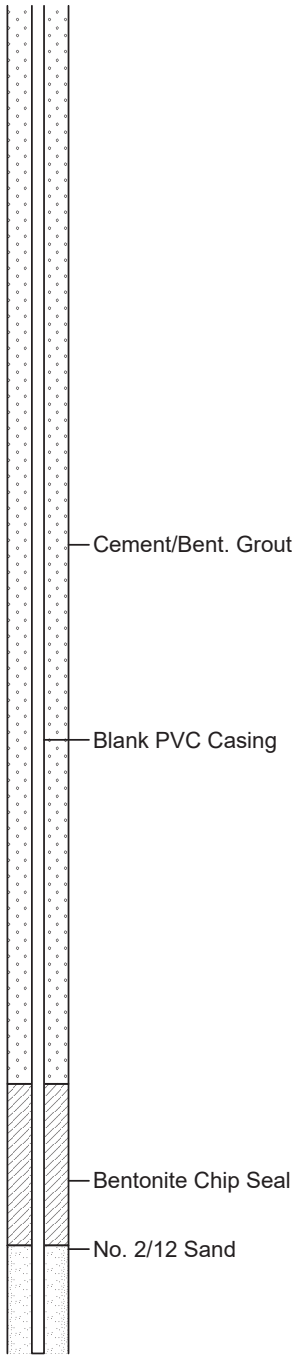
Former Orcutt Refinery
1550 West Stowell Road
Santa Maria, CA

Chevron EMC / Sunoco

Project Number	: 1001-1531	Boring Total Depth	: 130 feet
Project Name	: Additional Groundwater Assmt.	Drilling Date	: 5/21/13
Logged By	: Paul G. Lavelle	Completed With	: 2-inch Monitoring Well
Checked By	: Louis J. Cappel P.G., C.Hg.	Initial Water Depth	: 110 feet
Driller-Method	: Cascade-HSA	Static Water Depth	: 110.65 feet

Depth in Feet	Water Level	USCS	GRAPHIC	Samples Collected	PID (ppmv)	Blow Count	DESCRIPTION
75							Same as above.
80					0.0	12-19-20	Same as above, with some clay and fine fragments of weathered claystone.
85		SP-GP			0.0	11-17-21	Becomes brown (10YR 4/3); little silt; dense; very moist.
90					0.0	12-17-24	Same as above, with some coarse sand.
95					0.0	21-23-27	Same as above, with decreased clay content; gravel are subangular to subrounded.
100					0.0	18-21-26	

Well Construction Details:



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LOG OF DRILL HOLE MW-13

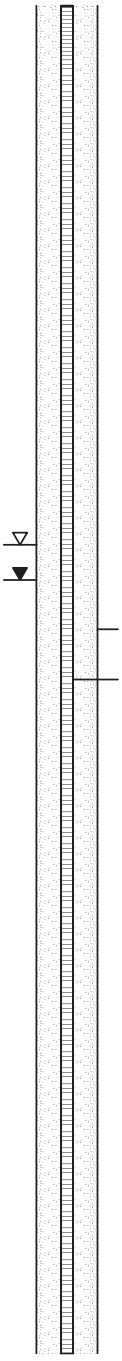
Former Orcutt Refinery
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Santa Maria, CA

Chevron EMC / Sunoco

Project Number	: 1001-1531	Boring Total Depth	: 130 feet
Project Name	: Additional Groundwater Assmt.	Drilling Date	: 5/21/13
Logged By	: Paul G. Lavelle	Completed With	: 2-inch Monitoring Well
Checked By	: Louis J. Cappel P.G., C.Hg.	Initial Water Depth	: 110 feet
Driller-Method	: Cascade-HSA	Static Water Depth	: 110.65 feet

Depth in Feet	Water Level	USCS	GRAPHIC	Samples Collected	PID (ppmv)	Blow Count	DESCRIPTION
100							Same as above.
105				■	0.0	12-14-19	Same as above, with little silt; very moist.
110	▽			■	0.0	12-14-18	Becomes wet; no fines; dense.
	▼	SP-GP					
115				■	0.0	13-17-20	
120				■	0.0	9-12-16	Becomes yellowsh brown (10YR 5/4); few thin lenses of silty sand betwen gravel layers.
		SP		■	0.0	14-17-19	Poorly graded SAND (SP): brown (7.5YR 4/4); fine to medium grained; no fines; no gravel; wet; dense; no hydrocarbon staining or odor.
125							

Well Construction Details:



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LOG OF DRILL HOLE MW-13

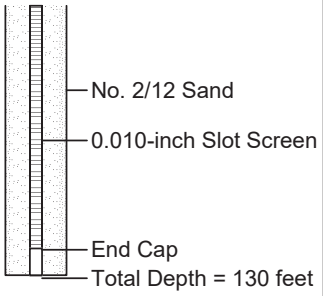
Former Orcutt Refinery
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Santa Maria, CA

Chevron EMC / Sunoco

Project Number	: 1001-1531	Boring Total Depth	: 130 feet
Project Name	: Additional Groundwater Assmt.	Drilling Date	: 5/21/13
Logged By	: Paul G. Lavelle	Completed With	: 2-inch Monitoring Well
Checked By	: Louis J. Cappel P.G., C.Hg.	Initial Water Depth	: 110 feet
Driller-Method	: Cascade-HSA	Static Water Depth	: 110.65 feet

Depth in Feet	Water Level	USCS	GRAPHIC	Samples Collected	PID (ppmv)	Blow Count	DESCRIPTION
125		SP					Same as above.
130		SP-GP			0.0	21-19-24	Poorly graded SAND and GRAVEL (SP-GP): brown (7.5YR 4/4); fine to medium sand with fine to medium gravel; trace clay; dense; wet; no hydrocarbon staining or odor.
135							
140							
145							
150							

Well Construction Details:



Notes:

1. HSA = Hollow Stem Auger
2. No suspected hydrocarbon-containing soil observed in drill hole.
3. Drill hole completed with a 2-inch diameter schedule-80 PVC monitoring well (refer to well construction details).

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LOG OF DRILL HOLE MW-14

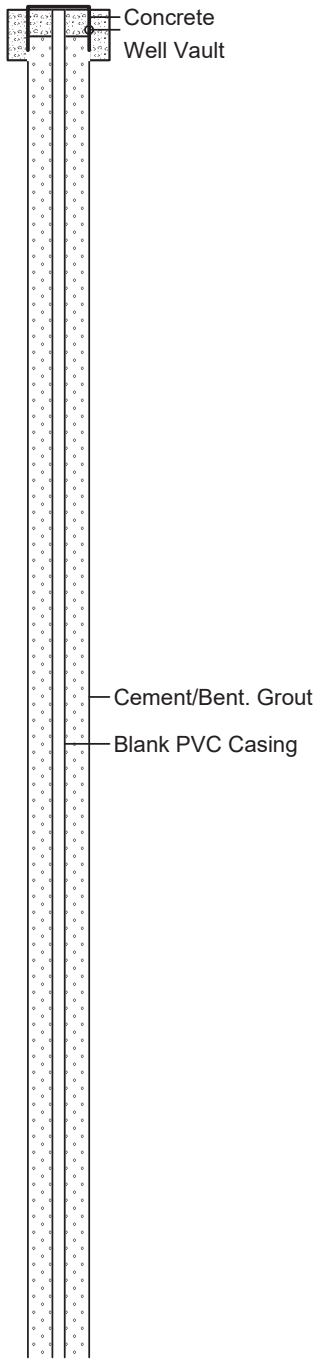
Former Orcutt Refinery
1550 West Stowell Road
Santa Maria, CA

Chevron EMC / Sunoco

Project Number	: 1001-1531	Boring Total Depth	: 130 feet
Project Name	: Additional Groundwater Assmt.	Drilling Date	: 5/22/13
Logged By	: Paul G. Lavelle	Completed With	: 2-inch Monitoring Well
Checked By	: Louis J. Cappel P.G., C.Hg.	Initial Water Depth	: 115 feet
Driller-Method	: Cascade-HSA	Static Water Depth	: 115.67 feet

Depth in Feet	Water Level	USCS	GRAPHIC	Samples Collected	PID (ppmv)	Blow Count	DESCRIPTION
0							Poorly graded SAND (SP): dark yellowish brown (10YR 4/4); fine to medium grained; little silt; loose; dry; no hydrocarbon staining or odor.
5				■	0.0	3-3-5	Becomes yellowish brown (10YR 5/4); no fines; damp.
10		SP		■	0.0	5-6-6	
15				■	0.0	3-4-6	Same as above, with few medium gravel.
20		SM		■	0.0	2-4-6	Silty SAND (SM): dark yellowish brown (10YR 4/4); very fine grained sand with silt; medium dense; damp; no hydrocarbon staining or odor.
25		SP		■	0.0	6-8-1	Poorly graded SAND (SP): yellowish brown (10YR 5/4); fine to medium grained; medium dense; damp; no hydrocarbon staining or odor.

Well Construction Details:



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LOG OF DRILL HOLE MW-14

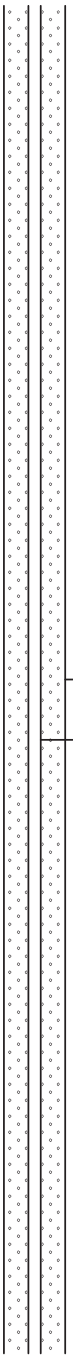
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Chevron EMC / Sunoco

Project Number	: 1001-1531	Boring Total Depth	: 130 feet
Project Name	: Additional Groundwater Assmt.	Drilling Date	: 5/22/13
Logged By	: Paul G. Lavelle	Completed With	: 2-inch Monitoring Well
Checked By	: Louis J. Cappel P.G., C.Hg.	Initial Water Depth	: 115 feet
Driller-Method	: Cascade-HSA	Static Water Depth	: 115.67 feet

Depth in Feet	Water Level	USCS	GRAPHIC	Samples Collected	PID (ppmv)	Blow Count	DESCRIPTION
25							Same as above.
30				■	0.1	9-6-11	
35				■	0.2	9-13-14	Same as above.
		SP					
40				■	0.4	6-7-11	
45				■	0.0	4-4-6	Becomes dark yellowish brown (10YR 4/4); very fine to fine grained; little silt; loose; moist.
50				■	0.0	12-14-8	

Well Construction Details:



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LOG OF DRILL HOLE MW-14

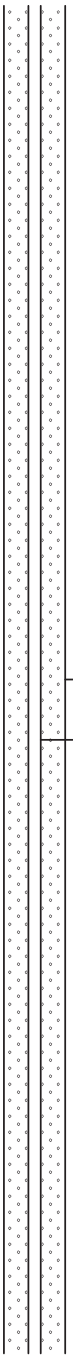
Former Orcutt Refinery
1550 West Stowell Road
Santa Maria, CA

Chevron EMC / Sunoco

Project Number	: 1001-1531	Boring Total Depth	: 130 feet
Project Name	: Additional Groundwater Assmt.	Drilling Date	: 5/22/13
Logged By	: Paul G. Lavelle	Completed With	: 2-inch Monitoring Well
Checked By	: Louis J. Cappel P.G., C.Hg.	Initial Water Depth	: 115 feet
Driller-Method	: Cascade-HSA	Static Water Depth	: 115.67 feet

Depth in Feet	Water Level	USCS	GRAPHIC	Samples Collected	PID (ppmv)	Blow Count	DESCRIPTION
50							Same as above, with decreased silt content.
55		SP		■	0.0	13-19-17	Becomes dense; no fines.
60				■	0.0	10-11-13	Becomes brown (7.5YR 4/4); fine grained; some silt; medium dense; wet (approx. 6-inch thick saturated zone).
65				■	0.0	12-17-22	Poorly graded SAND and GRAVEL (SP-GP): strong brown (7.5YR 4/6); medium to coarse grained sand with fine to medium subrounded gravel; some clay; dense; moist; no hydrocarbon staining or odor.
70		SP-GP		□	0.0	--	No recovery.
75				■	0.0	27-31-37	Same as above, with some coarse gravel including igneous rock fragments.

Well Construction Details:



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LOG OF DRILL HOLE MW-14

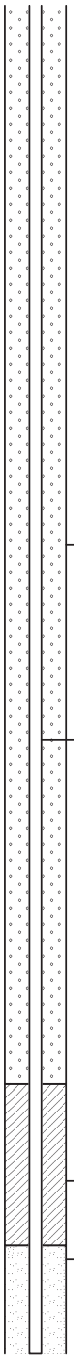
Former Orcutt Refinery
1550 West Stowell Road
Santa Maria, CA

Chevron EMC / Sunoco

Project Number	: 1001-1531	Boring Total Depth	: 130 feet
Project Name	: Additional Groundwater Assmt.	Drilling Date	: 5/22/13
Logged By	: Paul G. Lavelle	Completed With	: 2-inch Monitoring Well
Checked By	: Louis J. Cappel P.G., C.Hg.	Initial Water Depth	: 115 feet
Driller-Method	: Cascade-HSA	Static Water Depth	: 115.67 feet

Depth in Feet	Water Level	USCS	GRAPHIC	Samples Collected	PID (ppmv)	Blow Count	DESCRIPTION
75							Same as above
80		SP-GP			0.0	13-17-21	Same as above, with little clay; fragments of siltstone and claystone; dense; wet.
85		SM			0.0	12-16-19	Silty SAND (SM): dark yellowish brown (10YR 4/4); fine grained sand with silt; dense; very moist to slightly wet; no hydrocarbon staining or odor.
90					0.0	17-18-24	Poorly graded SAND and GRAVEL (SP-GP): dark yellowish brown (10YR 4/4); fine to medium sand and gravel; little silt; trace clay; fragments of chert; dense; very moist; no hydrocarbon staining or odor.
95		SP-GP			0.2	15-19-21	Same as above.
100					0.3	11-17-22	Same as above.

Well Construction Details:



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LOG OF DRILL HOLE MW-14

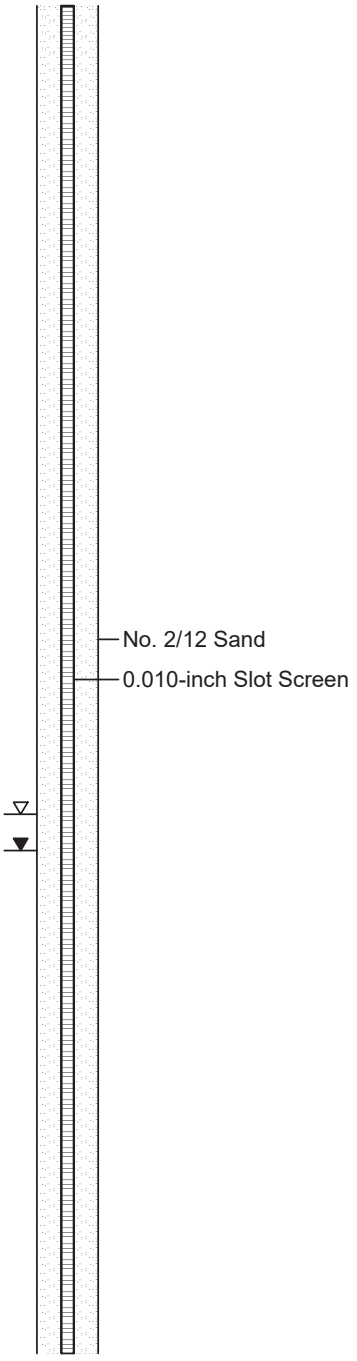
Former Orcutt Refinery
1550 West Stowell Road
Santa Maria, CA

Chevron EMC / Sunoco

Project Number	: 1001-1531	Boring Total Depth	: 130 feet
Project Name	: Additional Groundwater Assmt.	Drilling Date	: 5/22/13
Logged By	: Paul G. Lavelle	Completed With	: 2-inch Monitoring Well
Checked By	: Louis J. Cappel P.G., C.Hg.	Initial Water Depth	: 115 feet
Driller-Method	: Cascade-HSA	Static Water Depth	: 115.67 feet

Depth in Feet	Water Level	USCS	GRAPHIC	Samples Collected	PID (ppmv)	Blow Count	DESCRIPTION
100		SP-GP					Same as above, with no clay; trace silt; dense; no hydrocarbon staining or odor.
105		SP			0.0	12-16-23	Poorly graded SAND (SP): dark yellowish brown (10 YR 4/4); fine to medium grained; trace silt; no gravel; dense; moist; no hydrocarbon staining or odor.
110					0.0	17-19-26	Same as above, with few fine subrounded gravel.
115	▽ ▼	SP-GP			0.1	14-18-23	Poorly graded SAND and GRAVEL (SP-GP): dark yellowish brown (10YR 4/6); fine to medium sand with fine to medium gravel; dense; wet; no hydrocarbon staining or odor.
120		SW			0.3	16-19-24	Well graded SAND (SW): yellowish brown (10YR 5/4); fine to coarse grained subrounded sand; few fine gravel; dense; wet; no hydrocarbon staining or odor.
125					0.0	16-18-19	

Well Construction Details:



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LOG OF DRILL HOLE MW-14

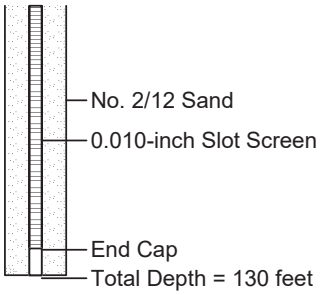
Former Orcutt Refinery
1550 West Stowell Road
Santa Maria, CA

Chevron EMC / Sunoco

Project Number	: 1001-1531	Boring Total Depth	: 130 feet
Project Name	: Additional Groundwater Assmt.	Drilling Date	: 5/22/13
Logged By	: Paul G. Lavelle	Completed With	: 2-inch Monitoring Well
Checked By	: Louis J. Cappel P.G., C.Hg.	Initial Water Depth	: 115 feet
Driller-Method	: Cascade-HSA	Static Water Depth	: 115.67 feet

Depth in Feet	Water Level	USCS	GRAPHIC	Samples Collected	PID (ppmv)	Blow Count	DESCRIPTION
125		SW					Same as above.
130					0.0	13-20-13	Same as above.

Well Construction Details:



Notes:

1. HSA = Hollow Stem Auger
2. No suspected hydrocarbon-containing soil observed in drill hole.
3. Drill hole completed with a 2-inch diameter schedule-80 PVC monitoring well (refer to well construction details).

135
140
145
150

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LOG OF DRILL HOLE MW-15

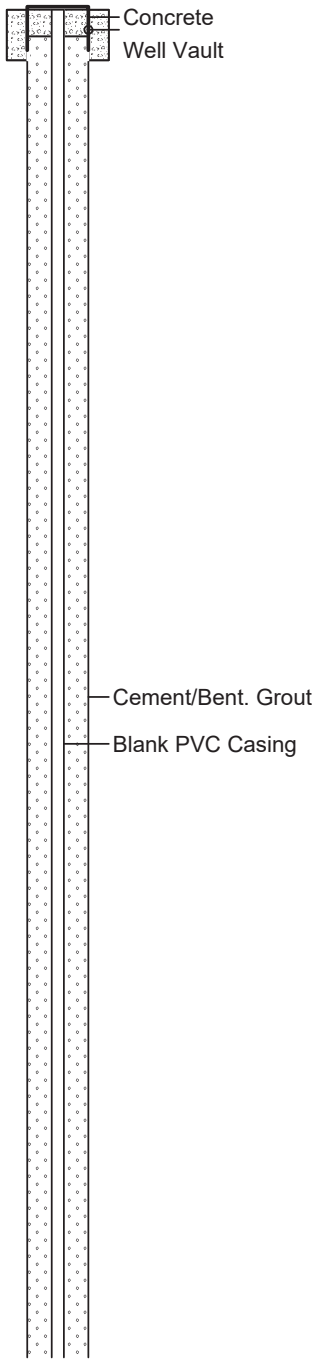
Former Orcutt Refinery
1550 West Stowell Road
Santa Maria, CA

Chevron EMC / Sunoco

Project Number	: 1001-1531	Boring Total Depth	: 90 feet
Project Name	: Additional Groundwater Assmt.	Drilling Date	: 5/23/13
Logged By	: Paul G. Lavelle	Completed With	: 2-inch Monitoring Well
Checked By	: Louis J. Cappel P.G., C.Hg.	Initial Water Depth	: 80 feet
Driller-Method	: Cascade-HSA	Static Water Depth	: 89.65 feet

Depth in Feet	Water Level	USCS	GRAPHIC	DESCRIPTION
0		SM		Silty SAND (SM): light yellowish brown (10YR 6/4); loose; dry; no hydrocarbon staining or odor.
		SW		Well graded SAND (SW): dark yellowish brown (10YR 4/4); fine to coarse grained; subrounded grains; loose; damp; few asphaltic fragments; no hydrocarbon staining or odor.
5				Becomes medium dense; no asphaltic fragments.
10				Same as above.
15				Same as above, with some medium gravel; damp.
20				
25				Same as above.

Well Construction Details:



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LOG OF DRILL HOLE MW-15

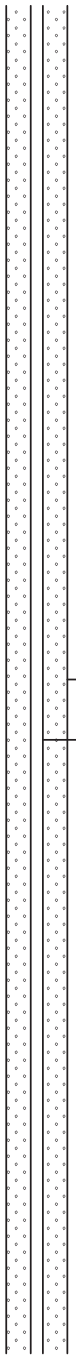
Former Orcutt Refinery
1550 West Stowell Road
Santa Maria, CA

Chevron EMC / Sunoco

Project Number	: 1001-1531	Boring Total Depth	: 90 feet
Project Name	: Additional Groundwater Assmt.	Drilling Date	: 5/23/13
Logged By	: Paul G. Lavelle	Completed With	: 2-inch Monitoring Well
Checked By	: Louis J. Cappel P.G., C.Hg.	Initial Water Depth	: 80 feet
Driller-Method	: Cascade-HSA	Static Water Depth	: 89.65 feet

Depth in Feet	Water Level	USCS	GRAPHIC	DESCRIPTION
25				Becomes dark yellowish brown (10YR 4/6); trace silt.
30		SW		Same as above, but with little silt; few fine gravel; dense; damp; no hydrocarbon staining or odor.
35				Same as above.
40		SP		Poorly Graded SAND (SP): dark yellowish brown (10YR 4/6); fine to medium grained; some silt; medium dense; moist; no hydrocarbon staining or odor.
45				
50				Same as above.

Well Construction Details:



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LOG OF DRILL HOLE MW-15

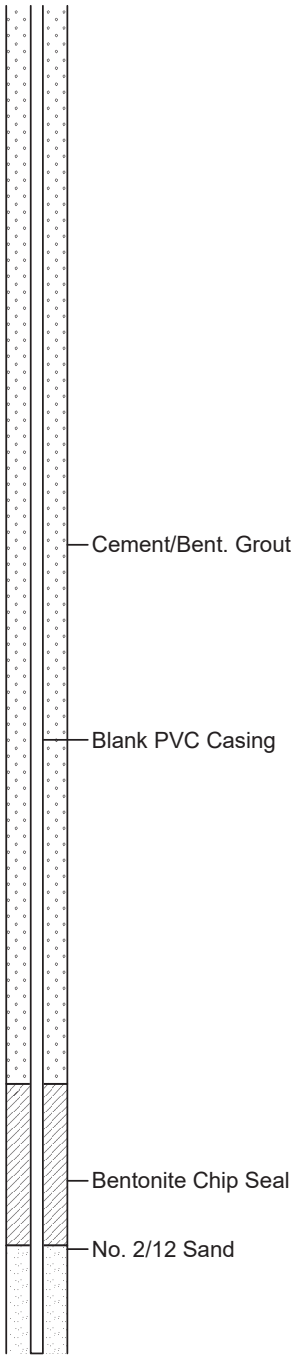
Former Orcutt Refinery
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Santa Maria, CA

Chevron EMC / Sunoco

Project Number	: 1001-1531	Boring Total Depth	: 90 feet
Project Name	: Additional Groundwater Assmt.	Drilling Date	: 5/23/13
Logged By	: Paul G. Lavelle	Completed With	: 2-inch Monitoring Well
Checked By	: Louis J. Cappel P.G., C.Hg.	Initial Water Depth	: 80 feet
Driller-Method	: Cascade-HSA	Static Water Depth	: 89.65 feet

Depth in Feet	Water Level	USCS	GRAPHIC	DESCRIPTION
50				Same as above.
55		SP		
60				Same as above.
65		SP-GP		Poorly graded SAND and GRAVEL (SP-GP): strong brown (7.5YR 4/6); medium to coarse grained sand with fine to medium gravel; dense; moist; no hydrocarbon staining or odor.
70				Same as above.
75				Same as above, but with some clay; very moist.

Well Construction Details:



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LOG OF DRILL HOLE MW-15

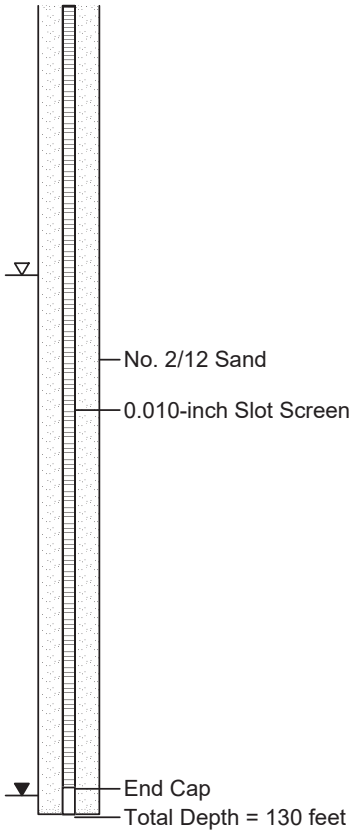
Former Orcutt Refinery
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Santa Maria, CA

Chevron EMC / Sunoco

Project Number	: 1001-1531	Boring Total Depth	: 90 feet
Project Name	: Additional Groundwater Assmt.	Drilling Date	: 5/23/13
Logged By	: Paul G. Lavelle	Completed With	: 2-inch Monitoring Well
Checked By	: Louis J. Cappel P.G., C.Hg.	Initial Water Depth	: 80 feet
Driller-Method	: Cascade-HSA	Static Water Depth	: 89.65 feet

Depth in Feet	Water Level	USCS	GRAPHIC	DESCRIPTION
75				Same as above.
80	▽	SP-GP		Same as above, but with little clay; trace silt; becomes slightly wet.
85				Same as above, but with fine gravel; wet.
90	▼			Same as above, but moist; no hydrocarbon staining or odor.
95				
100				

Well Construction Details:



Notes:

1. HSA = Hollow Stem Auger
2. No suspected hydrocarbon-containing soil observed in drill hole.
3. No soil samples collected during drill hole advancement.
4. Drill hole completed with a 2-inch diameter schedule-40 PVC monitoring well (refer to well construction details).

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LOG OF DRILL HOLE MW-16

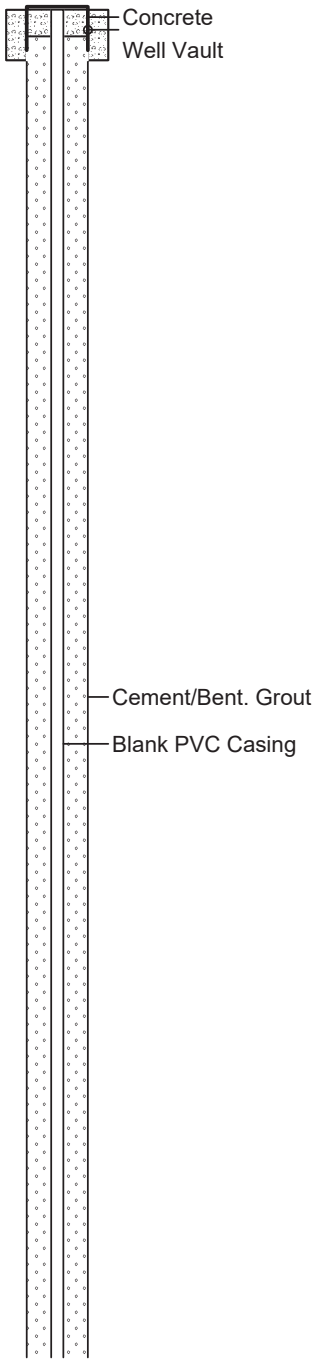
Former Orcutt Refinery
1550 West Stowell Road
Santa Maria, CA

Chevron EMC / Sunoco

Project Number	: 1001-1531	Boring Total Depth	: 130 feet
Project Name	: Additional Groundwater Assmt.	Drilling Date	: 5/23/13
Logged By	: Paul G. Lavelle	Completed With	: 2-inch Monitoring Well
Checked By	: Louis J. Cappel P.G., C.Hg.	Initial Water Depth	: 113 feet
Driller-Method	: Cascade-HSA	Static Water Depth	: 114.76 feet

Depth in Feet	Water Level	USCS	GRAPHIC	Samples Collected	PID (ppmv)	Blow Count	DESCRIPTION
0		SM					Silty SAND (SM): light yellowish brown (10YR 6/4); fine to medium grained sand with silt; loose; dry; no hydrocarbon staining or odor.
		SW					Well graded SAND (SW): yellowish brown (10YR 5/4); fine to coarse grained sand; subrounded grains; few fine gravel; loose; damp; no hydrocarbon staining or odor.
5				■	0.0	3-6-8	Becomes brown (10YR 5/4).
10				■	0.0	2-3-4	Same as above.
15				■	0.0	4-5-7	Same as above, with some very coarse sand and fine gravel; no hydrocarbon staining or odor.
20				■	0.0	7-7-8	Same as above, but with few medium subrounded gravel; damp; no hydrocarbon staining or odor.
25				■	0.0	4-5-9	Same as above.

Well Construction Details:



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LOG OF DRILL HOLE MW-16

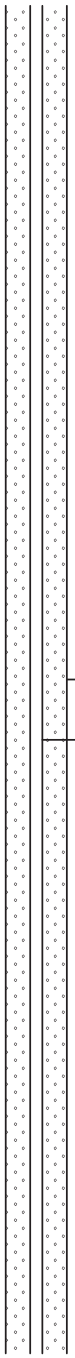
Former Orcutt Refinery
1550 West Stowell Road
Santa Maria, CA

Chevron EMC / Sunoco

Project Number	: 1001-1531	Boring Total Depth	: 130 feet
Project Name	: Additional Groundwater Assmt.	Drilling Date	: 5/23/13
Logged By	: Paul G. Lavelle	Completed With	: 2-inch Monitoring Well
Checked By	: Louis J. Cappel P.G., C.Hg.	Initial Water Depth	: 113 feet
Driller-Method	: Cascade-HSA	Static Water Depth	: 114.76 feet

Depth in Feet	Water Level	USCS	GRAPHIC	Samples Collected	PID (ppmv)	Blow Count	DESCRIPTION
25		SW					Same as above.
30		ML		■	0.0	5-6-9	SILT (ML): yellowish brown (10YR 5/4); silt with few very fine sand; firm; wet; no hydrocarbon staining or odor.
		SP		■	0.0	5-5-7	Poorly graded SAND (SP): light yellowish brown (10YR 6/4); fine to medium grained; no fines or gravel; medium dense; damp; no hydrocarbon staining or odor. Same as above.
40				■	0.0	6-9-11	Same as above.
45				■	0.0	9-9-11	Becomes light yellowish brown (10YR 5/4); no hydrocarbon staining or odor.
50				■	0.0	8-8-9	Same as above.

Well Construction Details:



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LOG OF DRILL HOLE MW-16

Former Orcutt Refinery
1550 West Stowell Road
Santa Maria, CA

Chevron EMC / Sunoco

Project Number	: 1001-1531	Boring Total Depth	: 130 feet
Project Name	: Additional Groundwater Assmt.	Drilling Date	: 5/23/13
Logged By	: Paul G. Lavelle	Completed With	: 2-inch Monitoring Well
Checked By	: Louis J. Cappel P.G., C.Hg.	Initial Water Depth	: 113 feet
Driller-Method	: Cascade-HSA	Static Water Depth	: 114.76 feet

Depth in Feet	Water Level	USCS	GRAPHIC	Samples Collected	PID (ppmv)	Blow Count	DESCRIPTION
50		SP					Same as above
55		SW		■	12.1	8-8-9	Well graded SAND (SW): dark grayish brown (2.5Y 4/2); no fines; hydrocarbon staining and odor.
60		SP		■	67.3	8-8-8	Poorly graded SAND (SP): dark olive brown (2.5Y 3/3); fine to medium grained sand; little silt; medium dense; wet; faint hydrocarbon odor.
65				■	7.8	15-20-24	Becomes very dark grayish brown (10YR 3/2); some coarse gravel; dense; moist; hydrocarbon odor.
70		SP-GP		■	3.9	18-23-27	Poorly graded SAND and GRAVEL (SP-GP): dark grayish brown (2.5Y 4/2); medium to coarse sand with fine to medium gravel; some clay; dense; slightly wet; slight hydrocarbon staining and odor.
75				■	26.6	19-23-24	Same as above.

Well Construction Details:

Cement/Bent. Grout

Blank PVC Casing

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LOG OF DRILL HOLE MW-16

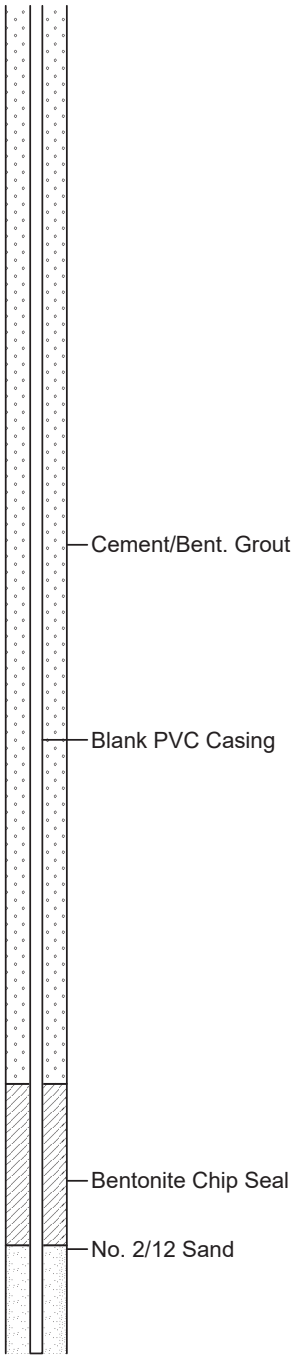
Former Orcutt Refinery
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Santa Maria, CA

Chevron EMC / Sunoco

Project Number	: 1001-1531	Boring Total Depth	: 130 feet
Project Name	: Additional Groundwater Assmt.	Drilling Date	: 5/23/13
Logged By	: Paul G. Lavelle	Completed With	: 2-inch Monitoring Well
Checked By	: Louis J. Cappel P.G., C.Hg.	Initial Water Depth	: 113 feet
Driller-Method	: Cascade-HSA	Static Water Depth	: 114.76 feet

Depth in Feet	Water Level	USCS	GRAPHIC	Samples Collected	PID (ppmv)	Blow Count	DESCRIPTION
75							Same as above.
		SP-GP			3.1	16-18-19	Same as above, with some coarse gravel; trace clay; dense; faint hydrocarbon odor.
80							
		SP			0.1	7-7-8	Poorly graded SAND (SP): light olive brown (2.5Y 5/3); fine grained sand; trace silt; no gravel; dense; moist; no hydrocarbon staining or odor.
85							
		SP-GP			0.0	9-14-21	Poorly graded SAND and GRAVEL (SP-GP): brown (10YR 4/3); medium to coarse sand with fine to medium gravel; trace clay; fragments of sandstone; dense; moist; no hydrocarbon staining or odor.
90							
					0.0	6-19-22	Same as above, with little clay; very moist; no hydrocarbon staining or odor.
95							
					0.0	12-17-20	Same as above, with decreased clay content; no hydrocarbon staining or odor.
100							

Well Construction Details:



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LOG OF DRILL HOLE MW-16

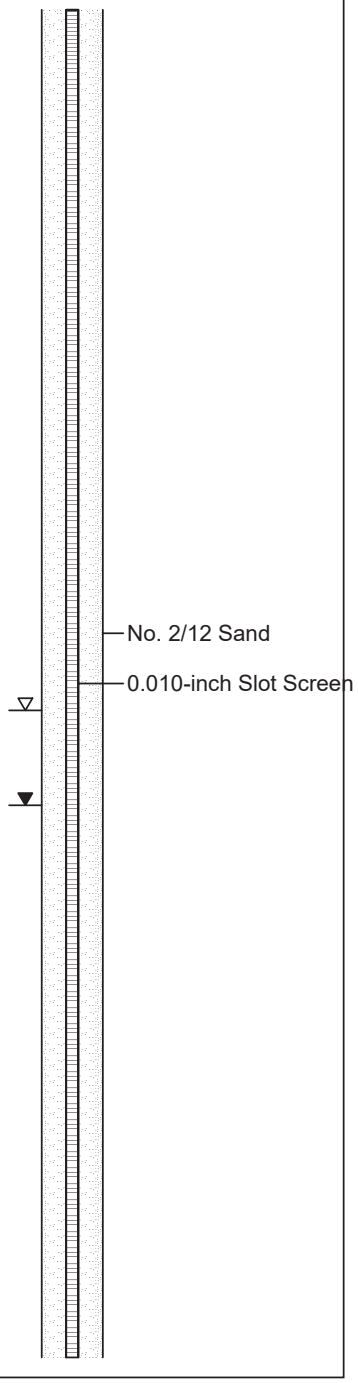
Former Orcutt Refinery
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Chevron EMC / Sunoco

Project Number	: 1001-1531	Boring Total Depth	: 130 feet
Project Name	: Additional Groundwater Assmt.	Drilling Date	: 5/23/13
Logged By	: Paul G. Lavelle	Completed With	: 2-inch Monitoring Well
Checked By	: Louis J. Cappel P.G., C.Hg.	Initial Water Depth	: 113 feet
Driller-Method	: Cascade-HSA	Static Water Depth	: 114.76 feet

Depth in Feet	Water Level	USCS	GRAPHIC	Samples Collected	PID (ppmv)	Blow Count	DESCRIPTION
100							Same as above.
105		SP-GP		■	0.0	13-14-17	Same as above.
110	▽	SM		■	0.0	7-13-21	Silty SAND (SM): dark yellowish brown (10YR 4/4); very fine sand with silt; medium dense; very moist; no hydrocarbon staining or odor.
115	▼	SW		■	0.0	8-16-25	Well graded SAND (SW): brown (10YR 5/3); fine to coarse sand; trace gravel; dense; wet; no hydrocarbon staining or odor.
120		CL		■	0.0	7-16-18	CLAY (CL): yellowish brown (10YR 5/8); little silt; trace very fine sand; medium plasticity; stiff; wet; no hydrocarbon staining or odor.
125		SP		■	0.0	13-14-17	Poorly graded SAND (SP): dark yellowish brown (10YR 4/6); fine to medium grained sand; dense; wet; no hydrocarbon staining or odor. Same as above.

Well Construction Details:



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LOG OF DRILL HOLE MW-16

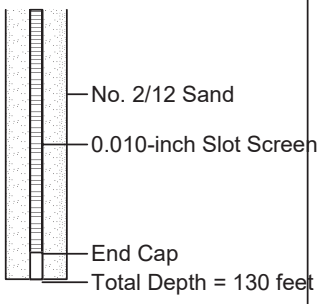
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Chevron EMC / Sunoco

Project Number	: 1001-1531	Boring Total Depth	: 130 feet
Project Name	: Additional Groundwater Assmt.	Drilling Date	: 5/23/13
Logged By	: Paul G. Lavelle	Completed With	: 2-inch Monitoring Well
Checked By	: Louis J. Cappel P.G., C.Hg.	Initial Water Depth	: 113 feet
Driller-Method	: Cascade-HSA	Static Water Depth	: 114.76 feet

Depth in Feet	Water Level	USCS	GRAPHIC	Samples Collected	PID (ppmv)	Blow Count	DESCRIPTION
125		SP					Same as above.
130					0.0	11-17-18	Becomes brown (10YR 4/3); medium to coarse grained sand; trace fine subangular to rounded gravel; dense; wet; no hydrocarbon staining or odor.
135							
140							
145							
150							

Well Construction Details:



Notes:

1. HSA = Hollow Stem Auger
2. Suspected hydrocarbon-containing soil observed at approximate depths of 60 feet to 83 feet.
3. Drill hole completed with a 2-inch diameter schedule-80 PVC monitoring well (refer to well construction details).

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LOG OF DRILL HOLE MW-17

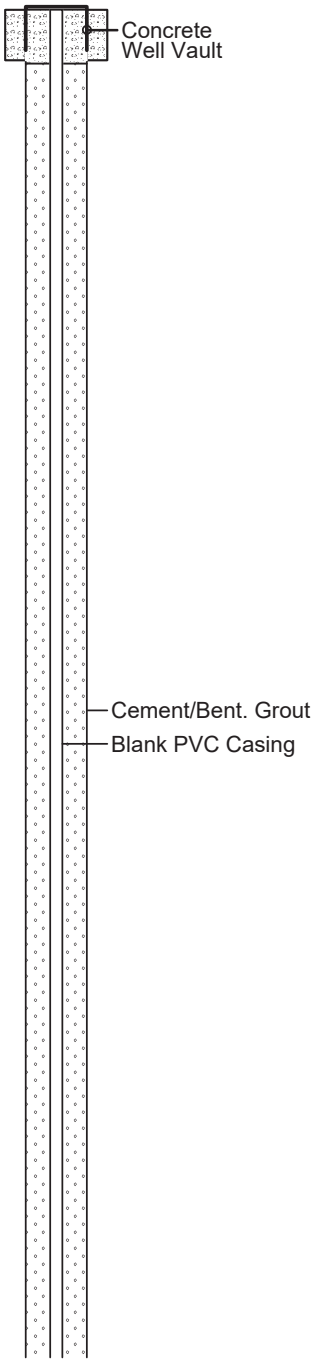
Former Orcutt Refinery
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Santa Maria, CA

Chevron EMC / Sunoco

Project Number	: 1001-1531	Boring Total Depth	: 130 feet
Project Name	: Additional Groundwater Assmt.	Drilling Date	: 5/28/13 - 5/29/13
Logged By	: Paul G. Lavelle	Completed With	: 2-inch Monitoring Well
Checked By	: Louis J. Cappel P.G., C.Hg.	Initial Water Depth	: 90 feet
Driller-Method	: Cascade-HSA	Static Water Depth	: 111.60 feet

Depth in Feet	USCS	Samples Collected	PID (ppmv)	Blow Count	DESCRIPTION
0	SP				Poorly graded SAND (SP): yellowish brown (10YR 5/4); fine to medium sand with silt; some subrounded gravel; asphalt fragments; loose; dry.
			29.7	--	Same as above, but with some black (10YR 2/1) semi-pliable tar-like hydrocarbon material; dense; strong hydrocarbon odor.
5	SW		6.1	6-11-11	Well graded SAND (SW): yellowish brown (10YR 5/4); fine to coarse grained sand; subrounded grains; few fine gravel; medium dense; dry; no hydrocarbon staining or odor.
10			38.7	5-5-6	Becomes brown; loose; damp; no hydrocarbon staining or odor.
15	SC		2.6	4-4-5	Clayey SAND (SC): dark yellowish brown (10YR 4/4); fine to medium sand with clay; little silt and fine gravel; slightly moist; no hydrocarbon staining or odor.
20	SP		0.1	8-9-11	Poorly graded SAND (SP): yellowish brown (10YR 5/4); fine grained sand; no fines; medium dense; damp; no hydrocarbon staining or odor.
25			0.0	8-8-12	Same as above.

Well Construction Details:



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LOG OF DRILL HOLE MW-17

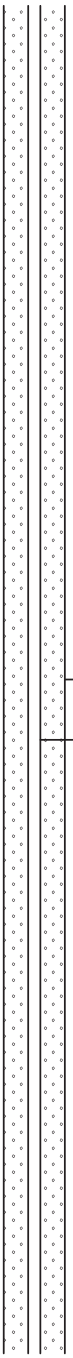
Former Orcutt Refinery
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Chevron EMC / Sunoco

Project Number	: 1001-1531	Boring Total Depth	: 130 feet
Project Name	: Additional Groundwater Assmt.	Drilling Date	: 5/28/13 - 5/29/13
Logged By	: Paul G. Lavelle	Completed With	: 2-inch Monitoring Well
Checked By	: Louis J. Cappel P.G., C.Hg.	Initial Water Depth	: 90 feet
Driller-Method	: Cascade-HSA	Static Water Depth	: 111.60 feet

Depth in Feet	Water Level	USCS	GRAPHIC	Samples Collected	PID (ppmv)	Blow Count	DESCRIPTION
25		SP					Same as above.
		CL			0.0	9-9-11	CLAY (CL): dark yellowish brown (10YR 4/4); some silt; medium plasticity; firm; moist; no hydrocarbon staining or odor.
30							
					0.0	8-9-11	Poorly graded SAND (SP): brown; fine grained sand; no fines; trace fine gravel; medium dense; moist; no hydrocarbon staining or odor.
35							
					0.0	7-7-8	
40		SP					Becomes brown (10YR 4/3); some silt.
					0.0	8-9-12	
45							Same as above.
		SW			0.0	7-7-8	Well graded SAND (SW): yellowish brown (10YR 5/4); fine to coarse grained sand; few fine gravel; no fines; medium dense; moist; no hydrocarbon staining or odor.
50							

Well Construction Details:



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LOG OF DRILL HOLE MW-17

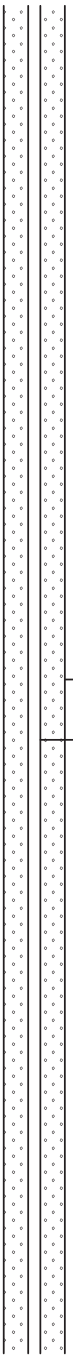
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Santa Maria, CA

Chevron EMC / Sunoco

Project Number	: 1001-1531	Boring Total Depth	: 130 feet
Project Name	: Additional Groundwater Assmt.	Drilling Date	: 5/28/13 - 5/29/13
Logged By	: Paul G. Lavelle	Completed With	: 2-inch Monitoring Well
Checked By	: Louis J. Cappel P.G., C.Hg.	Initial Water Depth	: 90 feet
Driller-Method	: Cascade-HSA	Static Water Depth	: 111.60 feet

Depth in Feet	Water Level	USCS	GRAPHIC	Samples Collected	PID (ppmv)	Blow Count	DESCRIPTION
50		SW					Same as above.
55		SP		■	0.5	16-19-26	Poorly graded SAND (SP): brown (10YR 5/3); fine to medium grained sand; subangular to subrounded grains; dense; moist; no hydrocarbon staining or odor.
60				■	0.1	21-22-26	
65				■	0.3	19-26-31	Same as above, but with very coarse gravel including fractured sandstone and claystone fragments; very dense.
		SP					Poorly graded SAND (SP): yellowish brown; wet.
70		SM		■	0.1	12-13-16	Silty SAND (SM): strong brown (7.5YR 5/6); very fine sand with silt; trace clay; medium dense; very moist; no hydrocarbon staining or odor.
75		SC-GC		■	0.2	19-21-23	Clayey SAND and GRAVEL (SC-GC): yellowish brown (10YR 5/6); medium to coarse sand with fine to medium gravel and clay; subrounded gravel; medium dense; very moist; no hydrocarbon staining or odor.

Well Construction Details:



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LOG OF DRILL HOLE MW-17

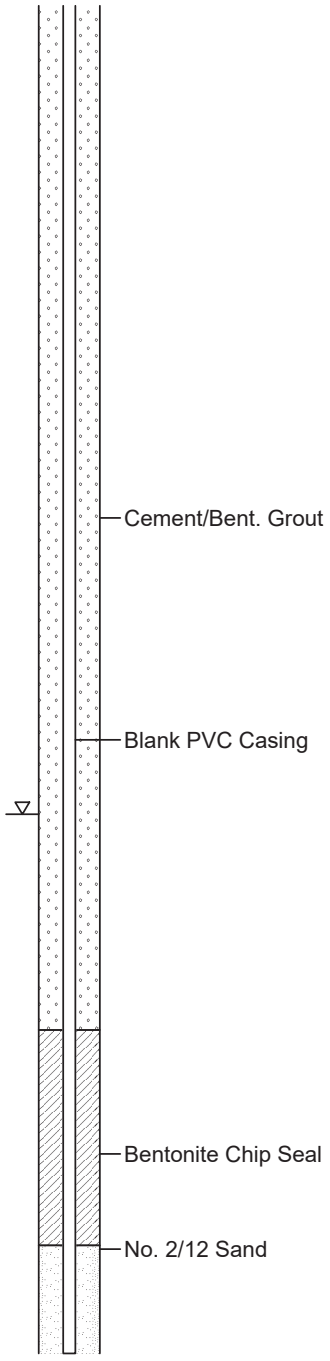
Former Orcutt Refinery
1550 West Stowell Road
Santa Maria, CA

Chevron EMC / Sunoco

Project Number	: 1001-1531	Boring Total Depth	: 130 feet
Project Name	: Additional Groundwater Assmt.	Drilling Date	: 5/28/13 - 5/29/13
Logged By	: Paul G. Lavelle	Completed With	: 2-inch Monitoring Well
Checked By	: Louis J. Cappel P.G., C.Hg.	Initial Water Depth	: 90 feet
Driller-Method	: Cascade-HSA	Static Water Depth	: 111.60 feet

Depth in Feet	Water Level	USCS	GRAPHIC	Samples Collected	PID (ppmv)	Blow Count	DESCRIPTION
75							Same as above.
80					--	41-50/6"	Same as above, with some very coarse gravel; very dense.
85		SC-GC			0.2	43-50/6"	Same as above, but wet; water lines gravel and sand lenses.
90	▽				0.2	21-29-31	Becomes light olive brown (2.5Y 5/4); some fine grained sand; very dense; wet.
95					0.0	26-50/6"	Same as above with few fine sand; subrounded to angular gravel; very dense; wet; no hydrocarbon staining or odor.
100					0.1	12-16-19	Same as above.

Well Construction Details:



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LOG OF DRILL HOLE MW-17

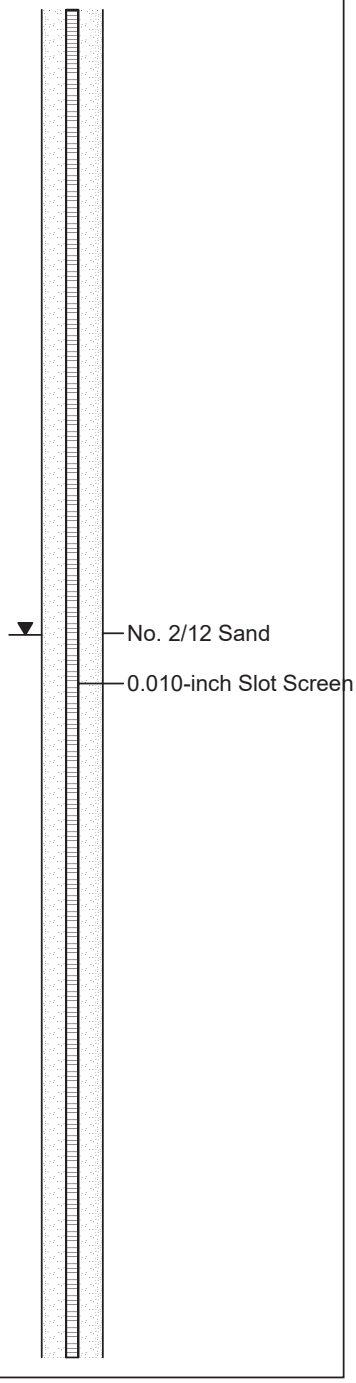
Former Orcutt Refinery
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Chevron EMC / Sunoco

Project Number	: 1001-1531	Boring Total Depth	: 130 feet
Project Name	: Additional Groundwater Assmt.	Drilling Date	: 5/28/13 - 5/29/13
Logged By	: Paul G. Lavelle	Completed With	: 2-inch Monitoring Well
Checked By	: Louis J. Cappel P.G., C.Hg.	Initial Water Depth	: 90 feet
Driller-Method	: Cascade-HSA	Static Water Depth	: 111.60 feet

Depth in Feet	Water Level	USCS	GRAPHIC	Samples Collected	PID (ppmv)	Blow Count	DESCRIPTION
100		SC-GC					Same as above.
105		SW		■	0.1	13-17-21	Well graded SAND (SW): light olive brown (2.5Y 5/3); fine to coarse grained sand; few fine subangular gravel; dense; wet; no hydrocarbon staining or odor.
		SC					Clayey SAND (SC): dark yellowish brown (10YR 4/6); fine grained sand with clay; dense; wet.
110	▼	CL		■	0.0	9-11-12	CLAY (CL): dark yellowish brown (10YR 4/6); some silt; little fine grained sand; low to medium plasticity; firm; wet; no hydrocarbon staining or odor.
		SW					Well graded SAND (SW): brown (10YR 4/3); fine to coarse sand with few gravel; dense; wet.
115				■	0.0	20-17-23	
		CL					Sandy CLAY (CL): sandy clay with some silt; low to medium plasticity; stiff; wet; no hydrocarbon staining or odor.
120				■	0.2	10-11-14	
125				■	0.1	11-13-14	Same as above.

Well Construction Details:



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LOG OF DRILL HOLE MW-17

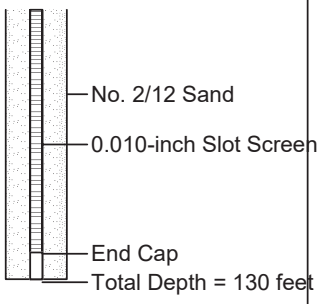
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1550 West Stowell Road
Santa Maria, CA

Chevron EMC / Sunoco

Project Number	: 1001-1531	Boring Total Depth	: 130 feet
Project Name	: Additional Groundwater Assmt.	Drilling Date	: 5/28/13 - 5/29/13
Logged By	: Paul G. Lavelle	Completed With	: 2-inch Monitoring Well
Checked By	: Louis J. Cappel P.G., C.Hg.	Initial Water Depth	: 90 feet
Driller-Method	: Cascade-HSA	Static Water Depth	: 111.60 feet

Depth in Feet	Water Level	USCS	GRAPHIC	Samples Collected	PID (ppmv)	Blow Count	DESCRIPTION
125		CL					Same as above.
130		SC-GC			0.0	11-17-18	Clayey SAND and GRAVEL (SC-GC): dark yellowish brown (10YR 4/6); medium to coarse sand with fine to medium subrounded gravel and clay; medium dense; wet; no hydrocarbon staining or odor.
135							
140							
145							
150							

Well Construction Details:



Notes:

1. HSA = Hollow Stem Auger
2. Suspected hydrocarbon-containing soil observed at approximate depths of 1 feet to 3.5 feet.
3. Drill hole completed with a 2-inch diameter schedule-80 PVC monitoring well (refer to well construction details).

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LOG OF DRILL HOLE MW-18

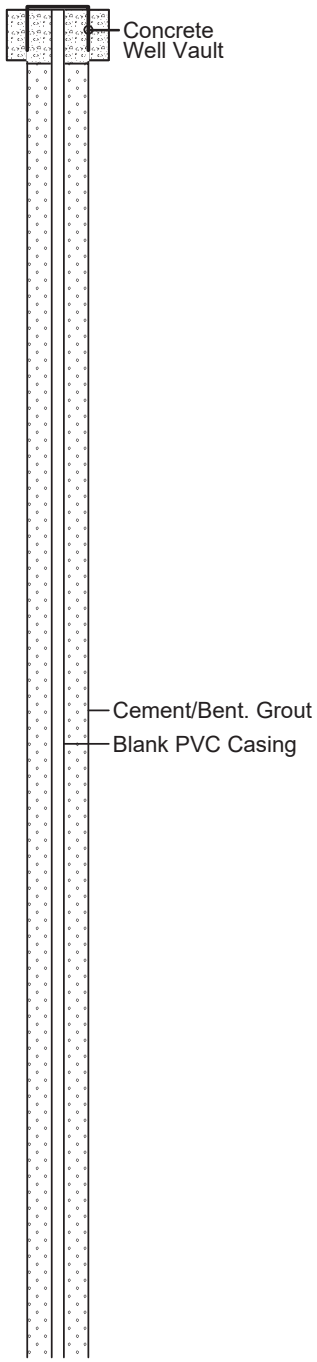
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1550 West Stowell Road
Santa Maria, CA

Chevron EMC / Sunoco

Project Number	: 1001-1531	Boring Total Depth	: 90 feet
Project Name	: Additional Groundwater Assmt.	Drilling Date	: 5/29/13
Logged By	: Paul G. Lavelle	Completed With	: 2-inch Monitoring Well
Checked By	: Louis J. Cappel P.G., C.Hg.	Initial Water Depth	: 87 feet
Driller-Method	: Cascade-HSA	Static Water Depth	: 86.98 feet

Depth in Feet	Water Level	USCS	GRAPHIC	DESCRIPTION
0		SM		Silty SAND (SM): yellowish brown; few fragments of asphalt; dry; no hydrocarbon staining or odor.
				Becomes black; semi-pliable hydrocarbon material with soil; dense; strong hydrocarbon staining and odor.
5		SP		Poorly graded SAND (SP): light yellowish brown; loose; damp; no hydrocarbon staining or odor.
10				Same as above, with slight hydrocarbon odor; damp.
15				Same as above.
20				Becomes brown; some silt; moist.
25		SW		Well graded SAND (SW): yellowish brown; fine to coarse sand; some gravel; moist; slight hydrocarbon odor.

Well Construction Details:



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LOG OF DRILL HOLE MW-18

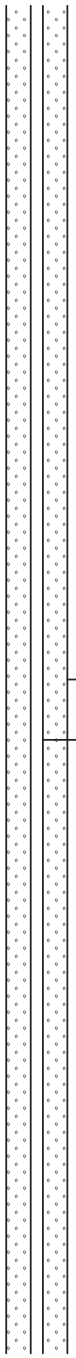
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Project Number	: 1001-1531	Boring Total Depth	: 90 feet
Project Name	: Additional Groundwater Assmt.	Drilling Date	: 5/29/13
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Checked By	: Louis J. Cappel P.G., C.Hg.	Initial Water Depth	: 87 feet
Driller-Method	: Cascade-HSA	Static Water Depth	: 86.98 feet

Depth in Feet	Water Level	USCS	GRAPHIC	DESCRIPTION
25				Same as above.
30		SW		Same as above, with little clay; moist.
35				Same as above, slight hydrocarbon odor.
40		SP		Poorly graded SAND (SP): fine to medium grained sand; some gravel; moist; dense; slight hydrocarbon odor.
45				Same as above.
50				Same as above.

Well Construction Details:



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LOG OF DRILL HOLE MW-18

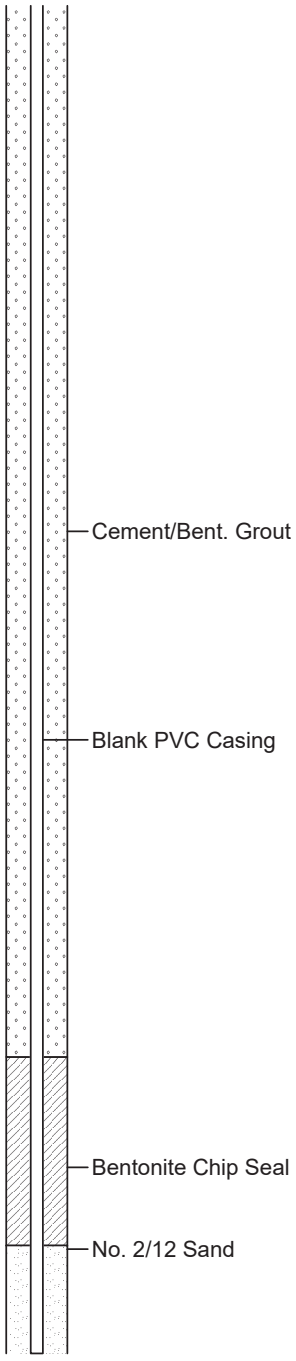
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Project Number	: 1001-1531	Boring Total Depth	: 90 feet
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Checked By	: Louis J. Cappel P.G., C.Hg.	Initial Water Depth	: 87 feet
Driller-Method	: Cascade-HSA	Static Water Depth	: 86.98 feet

Depth in Feet	Water Level	USCS	GRAPHIC	DESCRIPTION
50				Same as above.
55		SP		Same as above, with little silt; trace clay; dense; moist; slight hydrocarbon odor.
60				Same as above.
65		SM		Silty SAND (SM): dark yellowish brown; fine to medium grained sand with silt; dense; moist; no hydrocarbon staining or odor.
70		SC-GC		Clayey SAND and GRAVEL (SC-GC): fine to medium sand with fine to medium gravel and clay; dense; moist; no hydrocarbon staining or odor.
75				Same as above.

Well Construction Details:



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LOG OF DRILL HOLE MW-18

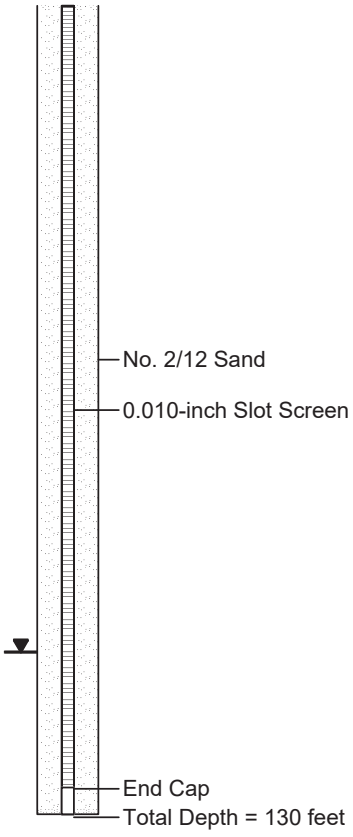
Former Orcutt Refinery
1550 West Stowell Road
Santa Maria, CA

Chevron EMC / Sunoco

Project Number	: 1001-1531	Boring Total Depth	: 90 feet
Project Name	: Additional Groundwater Assmt.	Drilling Date	: 5/29/13
Logged By	: Paul G. Lavelle	Completed With	: 2-inch Monitoring Well
Checked By	: Louis J. Cappel P.G., C.Hg.	Initial Water Depth	: 87 feet
Driller-Method	: Cascade-HSA	Static Water Depth	: 86.98 feet

Depth in Feet	Water Level	USCS	GRAPHIC	DESCRIPTION
75				Same as above.
80		SC-GC		Becomes strong brown; dense; moist.
85	▼			Same as above, with some silt; chert, siltstone, and sandstone gravel; dense; moist.
90				Same as above, but sand becomes medium to coarse grained; subrounded grains; dense; wet.
95				
100				

Well Construction Details:



Notes:

1. HSA = Hollow Stem Auger
2. Suspected hydrocarbon-containing soil observed at approximate depths of 2 feet to 4 feet.
3. No samples collected during drill hole advancement.
4. Drill hole completed with a 2-inch diameter schedule-40 PVC monitoring well (refer to well construction details).

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LOG OF DRILL HOLE MW-19

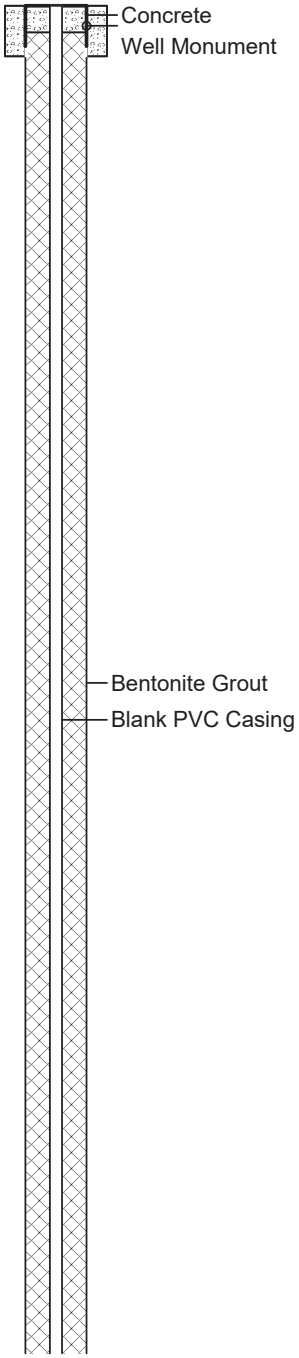
Former Orcutt Refinery
1550 West Stowell Road
Santa Maria, CA

Chevron EMC / Sunoco

Project Number	: 1001-1533	Boring Total Depth	: 145 feet
Project Name	: Supplemental GW Assessment	Drilling Date	: 12/1/14 - 12/3/14
Logged By	: Paul G. Lavelle	Completed With	: 2-inch Monitoring Well
Checked By	: Louis J. Cappel P.G., C.Hg.	Initial Water Depth	: 132.62 fbg
Driller-Method	: Gregg Drilling-HSA	Static Water Depth	: 131.35 fbg

Depth in Feet	Water Level	USCS	GRAPHIC	Sample	PID (ppmv)	Sample ID	DESCRIPTION
0		GP					Poorly graded GRAVEL (GP); imported gravel base material.
		SP					Poorly graded SAND (SP); yellowish brown (10YR 5/4); mostly fine grained; little medium and coarse sand; few subrounded gravel; loose; damp; no hydrocarbon staining or odor.
5				☒	0.0	MW-19-5'	Same as above.
10				☒	0.0	MW-19-10'	Same as above, with some subangular quartzose grains.
15		SW		☒	0.0	MW-19-15'	Well graded SAND (SW); dark yellowish brown (10YR 4/4); fine to coarse grained; few fine subrounded gravel; dense; damp; no hydrocarbon staining or odor.
20				☒	0.0	MW-19-20'	Same as above; grains are mostly subangular.
25				☒	0.0	MW-19-25'	Becomes brown (10YR 5/3); increased fine grained sand content.

Well Construction Details:



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LOG OF DRILL HOLE MW-19

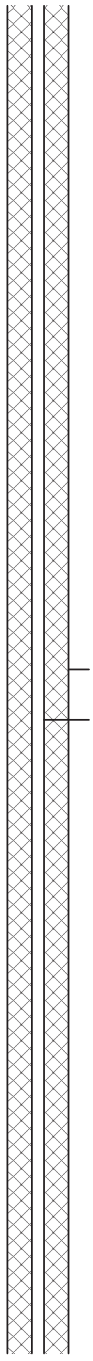
Former Orcutt Refinery
1550 West Stowell Road
Santa Maria, CA

Chevron EMC / Sunoco

Project Number	: 1001-1533	Boring Total Depth	: 145 feet
Project Name	: Supplemental GW Assessment	Drilling Date	: 12/1/14 - 12/3/14
Logged By	: Paul G. Lavelle	Completed With	: 2-inch Monitoring Well
Checked By	: Louis J. Cappel P.G., C.Hg.	Initial Water Depth	: 132.62 fbg
Driller-Method	: Gregg Drilling-HSA	Static Water Depth	: 131.35 fbg

Depth in Feet	Water Level	USCS	GRAPHIC	Sample	PID (ppmv)	Sample ID	DESCRIPTION
25							Well graded SAND (SW), as above.
30		SW		☒	0.0	MW-19-30'	Same as above, with trace silt.
35				☒	0.0	MW-19-35'	Poorly graded SAND (SP): brown (10YR 5/3); very fine to fine grained; trace silt; medium dense; damp; no hydrocarbon staining or odor.
40		SP		☒	0.0	MW-19-40'	Same as above.
45				☒	0.0	MW-19-45'	Becomes brown (10YR 4/3); some silt; trace clay; dense; moist.
50		SW		☒	0.0	MW-19-50'	Well graded SAND (SW): yellowish brown (10YR 5/4); fine to coarse mostly subangular grains; dense; damp; no hydrocarbon staining or odor.

Well Construction Details:



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LOG OF DRILL HOLE MW-19

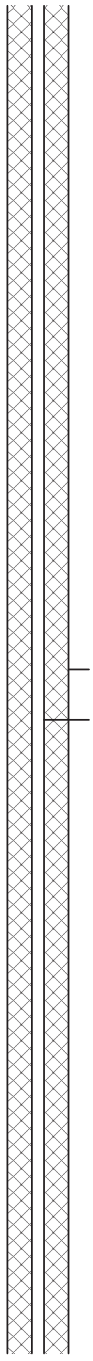
Former Orcutt Refinery
1550 West Stowell Road
Santa Maria, CA

Chevron EMC / Sunoco

Project Number	: 1001-1533	Boring Total Depth	: 145 feet
Project Name	: Supplemental GW Assessment	Drilling Date	: 12/1/14 - 12/3/14
Logged By	: Paul G. Lavelle	Completed With	: 2-inch Monitoring Well
Checked By	: Louis J. Cappel P.G., C.Hg.	Initial Water Depth	: 132.62 fbg
Driller-Method	: Gregg Drilling-HSA	Static Water Depth	: 131.35 fbg

Depth in Feet	USCS	PID (ppmv)	Sample ID	DESCRIPTION
50	SW			Well graded SAND (SW), as above.
	SC			Clayey SAND (SC): dark yellowish brown (10YR 4/4); thin lense (~12 in. thick); fine grained sand with clay; medium dense; slightly moist; no hydrocarbon staining or odor.
55	SP	0.0	MW-19-55'	Poorly graded SAND (SP): yellowish brown (10YR 5/4); fine grained clean sand; medium dense; damp; no hydrocarbon staining or odor.
60		0.2	MW-19-60'	Becomes brown (7.5YR 5/3); little silt.
65	SP-GP	0.1	MW-19-65'	Poorly graded SAND and GRAVEL (SP-GP): brown (7.5YR 4/3); medium to coarse grained sand with fine to medium subrounded gravel including fragments of chert and siltstone; dense; moist; no hydrocarbon staining or odor.
70	SC	0.0	MW-19-70'	Clayey SAND (SC): strong brown (7.5YR 4/3); fine grained; little black organic residue in pores; dense; moist; no hydrocarbon staining or odor.
	SP-GP			Poorly graded SAND and GRAVEL (SP-GP); brown (7.5YR 4/3); medium to coarse grained sand with fine to medium subrounded gravel; dense; moist; no hydrocarbon staining or odor.
75		0.0	MW-19-75'	

Well Construction Details:



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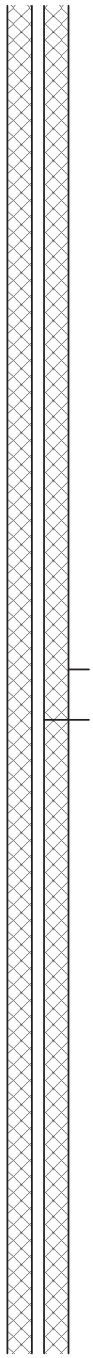
Former Orcutt Refinery
1550 West Stowell Road
Santa Maria, CA

Chevron EMC / Sunoco

Project Number	: 1001-1533	Boring Total Depth	: 145 feet
Project Name	: Supplemental GW Assessment	Drilling Date	: 12/1/14 - 12/3/14
Logged By	: Paul G. Lavelle	Completed With	: 2-inch Monitoring Well
Checked By	: Louis J. Cappel P.G., C.Hg.	Initial Water Depth	: 132.62 fbg
Driller-Method	: Gregg Drilling-HSA	Static Water Depth	: 131.35 fbg

Depth in Feet	USCS	Sample	PID (ppmv)	Sample ID	DESCRIPTION
75					Poorly graded SAND and GRAVEL (SP-GP), as above.
	SP-GP	☒	0.0	MW-19-80'	Same as above; coarse gravel in shoe; few gravel fragments in sampler; poor recovery.
80					
	SP	☒	3.1	MW-19-85'	Poorly graded SAND (SP): greenish gray (Gley 5/10Y); fine grained; trace silt; medium dense; damp; slight hydrocarbon odor.
85					Poorly graded SAND and GRAVEL (SP-GP): brown (7.5YR 5/4); trace clay; dense; moist; slight hydrocarbon odor.
		☒	0.2	MW-19-90'	Same as above.
90	SP-GP				
		☒	0.0	MW-19-95'	Same as above, with fine to medium subangular to subrounded gravel; slight hydrocarbon odor.
95					
		☒	0.0	MW-19-100'	Same as above, with few coarse gravel fragments.
100					

Well Construction Details:



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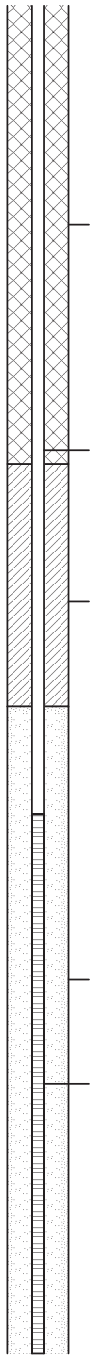
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Project Number	: 1001-1533	Boring Total Depth	: 145 feet
Project Name	: Supplemental GW Assessment	Drilling Date	: 12/1/14 - 12/3/14
Logged By	: Paul G. Lavelle	Completed With	: 2-inch Monitoring Well
Checked By	: Louis J. Cappel P.G., C.Hg.	Initial Water Depth	: 132.62 fbg
Driller-Method	: Gregg Drilling-HSA	Static Water Depth	: 131.35 fbg

Depth in Feet	Water Level	USCS	GRAPHIC	Sample	PID (ppmv)	Sample ID	DESCRIPTION
100		SP-GP					Poorly graded SAND and GRAVEL (SP-GP), as above.
105		SM		☒	0.0	MW-19-105'	Silty SAND (SM): yellowish brown (10YR 5/4); fine grained; little clay; dense; moist; no hydrocarbon staining or odor.
110		SP-SM		☒	0.0	MW-19-110'	Poorly graded silty SAND (SP-SM); brown (10YR 5/3); mostly medium sand with silt; little coarse sand; trace clay; dense; moist; no hydrocarbon staining or odor.
115		SP		☒	0.0	MW-19-115'	Poorly graded SAND (SP): yellowish brown (10YR 5/4); fine to medium grained; clean; many subangular quartzose grains; dense; moist; no hydrocarbon staining or odor.
120		CL		☒	0.0	MW-19-120'	CLAY (CL): dark yellowish brown (10YR 4/6); some silt; low to moderate plasticity; stiff; moist; no hydrocarbon staining or odor.
125				☒	0.0	MW-19-125'	

Well Construction Details:



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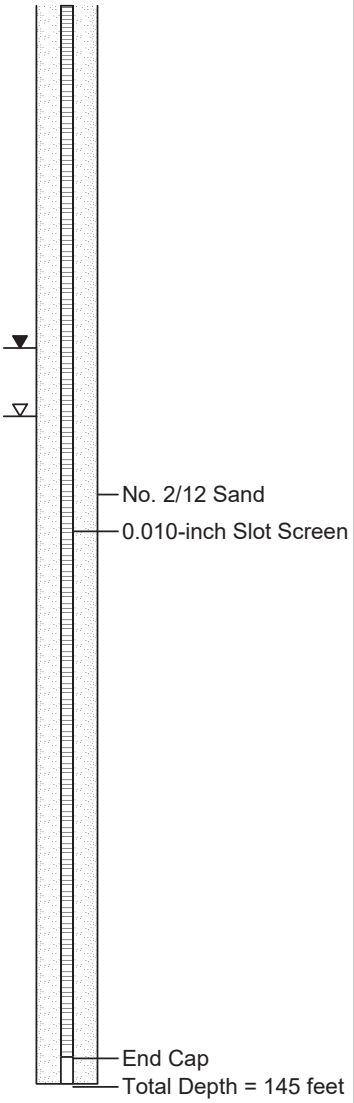
Former Orcutt Refinery
1550 West Stowell Road
Santa Maria, CA

Chevron EMC / Sunoco

Project Number	: 1001-1533	Boring Total Depth	: 145 feet
Project Name	: Supplemental GW Assessment	Drilling Date	: 12/1/14 - 12/3/14
Logged By	: Paul G. Lavelle	Completed With	: 2-inch Monitoring Well
Checked By	: Louis J. Cappel P.G., C.Hg.	Initial Water Depth	: 132.62 fbg
Driller-Method	: Gregg Drilling-HSA	Static Water Depth	: 131.35 fbg

Depth in Feet	Water Level	USCS	GRAPHIC	Sample	PID (ppmv)	Sample ID	DESCRIPTION
125							CLAY (CL) as above, with some black organic residue in soil pores.
		CL					
130	▼			☒	0.0	MW-19-130'	Becomes yellowish brown (10YR 5/6); very moist.
	▽						Poorly graded SAND and GRAVEL (SP-GP): yellowish brown (10YR 5/6); sand with fine to medium subangular gravel; trace clay and coarse gravel fragments; dense; wet; no hydrocarbon staining or odor.
135		SP-GP		☒	0.0	MW-19-135'	
140		ML		☒	0.0	MW-19-140'	SILT (ML): some clay; little fine grained sand; trace medium subrounded gravel; firm; wet; no hydrocarbon staining or odor.
		SP-GP					Poorly graded SAND and GRAVEL (SP-GP): brown (7.5YR 4/4); medium to coarse sand with fine to medium subangular to subrounded gravel including red sandstone and graywacke; dense; wet; no hydrocarbon staining or odor.
145				☒	0.0	MW-19-145'	
150							

Well Construction Details:



Notes:
1. HSA = Hollow Stem Auger
2. fbg = feet below grade.
3. Suspected hydrocarbon-containing soil observed from approximately 85 feet to 95 feet.
4. Drill hole completed with a 2-inch diameter schedule-80 PVC monitoring well.
5. Well developed on 12/4/14 by surging and bailing using drill rig.
6. Surface completed with 3-foot above-ground steel monument.

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