

RECEIVED

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Alameda County
Environmental Health

July 10, 2006

Regional Water Quality Control Board
1515 Clay Street
Oakland, CA 94612

ATTENTION: Bruce H. Wolfe
Executive Officer

REFERENCE: Wareham Labs
Emeryville, California

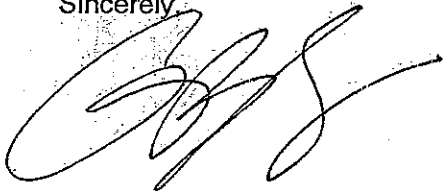
SUBJECT: Second Quarter Report
NPDES General Permit No. CAG912002

Dear Mr. Wolfe:

Attached please find the Second Quarter Report for Wareham Labs in Emeryville, CA.

I certify under penalty of law that this document and all attachments are prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who managed the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sincerely,



c: Farhad Azimzadeh - RWQCB
Bob McCarrick - PSEC

**SECOND QUARTER REPORT
NPDES TREATMENT SYSTEM
UNDER NPDES CAG912002**

EMERY STATION EAST
5885 HOLLIS STREET
EMERYVILLE, CA

JULY 5, 2006

Prepared for:
DPR
Redwood City, California

Prepared by:



Pacific States
ENVIRONMENTAL CONTRACTORS, INC.
California Contractor License #723241-A-HA7

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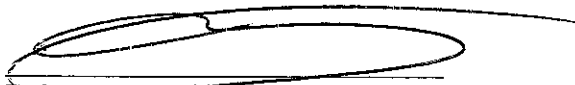
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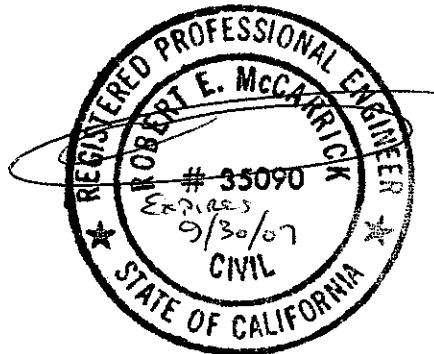
SIGNATURE PAGE

All engineering information, conclusions, and recommendations contained in this report have been prepared by a California Professional Engineer.



Robert McCarrick
California Professional Engineer
Civil

7-10-06
Date



1.0 INTRODUCTION

This Quarterly Report (Report) has been prepared by Pacific States Environmental Contractors, Inc. (PSEC) on behalf of Wareham Development Group San Rafael, California. The Application has been prepared for discharge of water generated by dewatering activities on the property located at 5885 Hollis Street Emeryville, CA. A Site Location Map as well as a Site Plan are shown in **Figure 1** and **Figure 2**, respectively. The site will be developed into either a commercial/laboratory space or multi-family residential constructed over subgrade parking.

This Report is being submitted to the Regional Water Quality Control Board – San Francisco Region (“the Regional Board”) pursuant to Order Number 01-100, CAG912002, a General Waste Discharge Requirement Permit. The Report describes the startup of the NPDES treatment system treating groundwater generated by dewatering activities during construction work taking place onsite. The groundwater beneath part of the Site is impacted by petroleum hydrocarbons.

As part of the development, excavation of underlying soil will be conducted to allow for a subgrade basement garage. The excavation will require dewatering and these dewatering activities will remove a significant quantity of contaminated groundwater. That water will be treated using treatment equipment provided by Baker Tanks and maintained by PSEC.

2.0 PROJECT DESCRIPTION

Groundwater from dewatering operations will be pumped to the temporary treatment system. Water will be pumped into two 21,000-gallon tanks, arranged in series, to allow settlement of suspended solids. The water will then pass through a sand filter, and then through at least two 2,000-pound 75-psi granular activated carbon vessels arranged in series containing either coconut shell carbon or bituminous carbon. The water may be discharged to an effluent storage tank to make treated water available for dust control and compaction use during construction, or it will be discharged to the storm drain inlet at the south end of the jobsite on Pleadeau Street. The process flow schematic is shown in **Figure 3**.

2.1 DESIGN CRITERIA

The maximum dewatering influent and effluent discharge flow rate for the treatment system of 30 wells is 5 gallons per minute per well, or 216,000 gallons per day. Average daily flows will likely be in the range of 210,000 to 220,000 gallons per day. Maximum inflow concentrations of total petroleum hydrocarbons as diesel (TPH-d) have been estimated at 8,400 µg/l. The system is also designed to treat low concentrations of benzene, toluene, ethyl benzene and total xylenes (BTEX), and other non-chlorinated volatile organic compounds (VOCs) that may be encountered during dewatering.

Effluent criteria for benzene, toluene and ethyl benzene compounds are 5 µg/l. Effluent criteria for TPH is 50 µg/l.

TPHg, TPH-d, and BTEX concentrations will be monitored via samples collected at the influent (I-1, following the settling tank), the carbon filter midpoint (M-1), and effluent from the carbon filters (E-1). Additional sampling will occur as required in the NPDES permit CAG912002 Self-Monitoring Program.

3.0 NPDES SELF- MONITORING PROGRAM

Samples were collected at system startup, March 30, 2006, on the fifth day of operation, April 7, 2006, May 16, 2006 and on June 20, 2006, to characterize untreated water, treatment system status and effluent discharge quality.

3.1 START-UP

Start-up of the treatment system began March 30, 2006. Treated water generated during the first 4 hours (approximately 4,000 gallons) was stored on site pending receipt of analytical results. Discharge from the treatment system began on April 3, 2006.

During the five-day start-up period, approximately 14,100 gallons of groundwater were treated and discharged. The average flow rate during start-up was 1.22 gallons per minute (gpm). System flow rates for the first week of treatment are summarized in **Table 1**.

3.2 SAMPLING

Influent and effluent samples were collected for laboratory analysis as required by the NPDES Self-Monitoring Program. TPHg, TPH-d, and BTEX concentrations were monitored via samples collected at the influent (I-1, following the settling tank) and effluent from the carbon filters (E-1). Temperature, pH, and electrical conductivity were monitored during sampling.

Samples were collected from sample taps in the treatment system into laboratory-supplied sample bottles. After filling and labeling, the sample containers were placed in ice-cooled, insulated chests for transport to the laboratory for analysis. Chain-of-custody records were completed for the samples. These records accompanied the samples until receipt by McCampbell Analytical Inc., of Pacheco, a California Department of Health Services Environmental Laboratory Accreditation Program (ELAP) certified laboratory (ELAP# 1644).

Laboratory quality assurance/quality control (QA/QC) data and reporting limits were reviewed for each laboratory report received.

The self-monitoring samples were analyzed for turbidity, pH, hardness, conductivity, BTEX, MTBE, thirteen total metals, hex chromium, mercury, total cyanide, EDB, VOC's, TAME, DIPE, ETBE, TBA, ethanol, methanol, SVOC's, PAH's and total extractable petroleum hydrocarbons as gasoline (TPHg) and diesel (TPHd).

3.3 ANALYTICAL RESULTS

Results of self-monitoring analyses are summarized in **Tables 2** through **5** and discussed below. Copies of the laboratory analyses and chain of custody forms can be found in **Appendix A**

3.3.1 General Chemistry

As required by the General Permit, samples collected at I-1 and E-1 on March 30, 2006, April 7, 2006, May 16, 2006 and June 20, 2006, were analyzed for pH, temperature, turbidity, hardness (as CaCO₃) and electric conductivity. Results of the General Permit chemistry analyses are summarized in **Table 2**.

On March 30, 2006, the pH at influent ranged from 7.3 the standard units (S.U.) as measured in the laboratory to 7.6 S.U. as measured in the field. The pH at the effluent ranged from 8.09 S.U. as measured in the laboratory to 8.0 as measured in the field. The water was not discharged. It was stored onsite pending the results of analyses the following day.

The slight increase in pH across the treatment system was attributed to the GAC activation process. The pH of the GAC was adjusted by the vendor prior to purchase.

On May 16, 2006 and June 20, 2006, the pH at the influent ranged from 7.81 standard units (S.U.) as measured in the laboratory to 7.6 S.U. as measured in the field and from 7.32 S.U. as measured in the laboratory to 7.45 S.U. as measured in the field. The pH at the effluent ranged

from 7.5 S.U. as measured in the laboratory to 7.3 as measured in the field and 7.17 S.U. as measured in the laboratory to 7.5 in the field.

Field measurements revealed influent temperatures of 21.3 °C, effluent temperatures 22.1°C; influent conductivity at 800 µmhos/cm and effluent conductivity 900 µmhos/cm. Tests on May 16, 2006 and June 20, 2006 revealed temperatures in the same range and effluent conductivity of 1300 µmhos/cm and 1200 µmhos/cm as noted in **Table 2**.

Laboratory analysis showed turbidity of 4.10 and 29 Nephelometric Turbidity Units (NTUs) for the effluent samples collected on March 30, 2006 and April 7, 2006, respectively. In addition, the laboratory analysis showed hardness of 260 mg/L and 290 mg/L for the effluent samples collected on March 30, 2006 and April 7, 2006, respectively. Effluent samples collected on June 20, 2006 showed turbidity readings of 1.5 NTUs and a hardness of 360 mg/L.

3.3.2 Inorganic Analyses

On March 30, 2006, April 7, 2006, May 16, 2006 and June 20, 2006, samples of influent and effluent were collected for analysis of inorganic chemicals. Inorganic chemicals analyzed included antimony, arsenic, beryllium, cadmium, chromium, copper, lead, nickel, selenium, silver, thallium, and zinc analyzed by EPA Method E200.8, mercury analyzed by EPA Method E1631, cyanide analyzed by EPA Method E335.3, Hex Chromium analyzed by EPA Method E218.6 . Sampling results are summarized in **Table 3**.

3.3.3 TPH

Influent and effluent samples collected on March 30, 2006, April 7, 2006, May 16, 2006 and June 20, 2006, were analyzed for total petroleum hydrocarbons as gasoline, diesel and BTEX compounds. Laboratory analysis of the samples revealed that the discharge limit for TPH of 50 micrograms per liter (µg/l) was not exceeded except with the influent test on May 16, 2006. A summary of these results is presented in **Table 4**.

3.3.4 Volatile Organic Compounds (VOCs) and Semi Volatile Organic Compounds (SVOCs).

Laboratory analysis for VOCs by EPA Method 8260B and SVOC's by EPA Method 8270D for the effluent samples collected on April 7, 2006, May 16, 2006 and June 20, 2006 revealed no exceedances of the concentration-based triggers. A summary of VOC and SVOC analytical is also presented in **Table 4**.

3.3.5 Fish Bioassay Results

Laboratory results for a fish bioassay performed on the system effluent on April 7, 2006 and June 20, 2006 both indicated a 100% survival rate. Results are summarized in **Table 5**.

3.4 SUMMARY OF SYSTEM START-UP OPERATION

Following review of effluent analytical data collected on March 30, 2006, discharge began on April 3, 2006. Approximately 14,100 gallons of groundwater were extracted and treated between April 3 and April 7, 2006. The average flow rate was approximately 1.2 gpm.

4.0 PLANNED WORK – THIRD QUARTER 2006

Sampling and analysis of influent and effluent water from the treatment system will continue during the remainder of the third quarter of 2006. Monthly samples will be collected in accordance with the schedule and procedures specified in the General Permit.

In accordance with the Self-Monitoring Program, quarterly NPDES self-monitoring reports will continue to be prepared and submitted to the Regional board. The anticipated submittal date for the Third Quarter 2006 quarterly report is October 15, 2006.

TABLES

TABLE 1
 FLOW SUMMARY FOR NPDES TREATMENT SYSTEM
 Wareham Labs
 Emeryville, CA

Date	Meter Reading (gallons)	Instantaneous Flow Rate (gpm)	System Average Flow Rate (gpm)	System Cumulative Volume (gallons)
March 30, 2006	13339400	150	0.0	0
April 3, 2006	13344900	150	1.0	5500
April 5, 2006	13346900	150	0.9	7500
April 10, 2006	13373700	150	2.2	34300
April 21, 2006	13602300	150	8.3	262900
April 24, 2006	13622600	150	7.9	283200
April 27, 2006	13625800	150	7.1	286400
May 8, 2006	13651600	150	5.6	312200
May 16, 2006	13677500	150	5.0	338100
June 20, 2006	13832700	150	4.2	493300
June 23, 2006	13840800	150	4.1	501400
June 27, 2006	13849000	150	4.0	509600
June 30, 2006	13857200	150	3.9	517800

Total Operating Period (days)	92
Total Volume Treated & Discharged (gallons)	517,800
Average Daily Flow for Period (gallons per day)	5,628

TABLE 2
GENERAL CHEMICAL TREATMENT DATA
Wareham Labs
Emeryville, California

Sample Location	Date Sampled	Temperature (Field)	pH (Field)	Electrical Conductivity (Laboratory)	Turbidity
		(°C)	(S.U.)	µmhos/cm	(NTUs)
Influent	3/30/2006	21	7.6	837	440
	4/7/2006	21.5	7.5	1140	735
	5/16/2006	21.2	7.81	--	--
	6/20/2006	20.8	7.32	--	--
Effluent	3/30/2006	22.1	8	852	4.1
	4/7/2006	20.5	7.9	1050	29
	5/16/2006	21.6	7.5	1300	--
	6/20/2006	21.1	7.17	1200	1.5
Effluent Limitations		--	6.5-8.5	--	--
Receiving Water Limitations		No change	Change <0.5	No change	No change

Notes:

°C – degrees centigrade, measured in field
µmhos/cm – micromhos per centimeter
NTUs – nephelometric turbidity units
mg/l – milligrams per liter
-- not analyzed

TABLE 3
 INORGANIC CHEMICAL DATA – TOTAL METALS*
 Wareham Labs
 Emeryville, California

Sample Location	Date Sampled	Flowrate (gpd)	Antimony (µg/l)	Arsenic (µg/l)	Beryllium (µg/l)	Cadmium (µg/l)	Chromium (µg/l)	Copper (µg/l)	Lead (µg/l)	Mercury (µg/l)	Nickel (µg/l)	Selenium (µg/l)	Silver (µg/l)	Thallium (µg/l)	Zinc (µg/l)	Cyanide (µg/l)	Hexachrome (µg/l)
Influent	3/30/2006	1,368	0.81	2.1	ND	ND	15	6.2	1.3	0.015	10	0.96	ND	ND	21	ND	7.7
	4/7/2006	1,756	0.7	2.9	ND	ND	2.6	7	ND	0.016	5.5	0.75	ND	ND	25	ND	1.5
	5/16/2006	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/20/2006	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Effluent	3/30/2006	1,368	1.3	10	ND	ND	0.72	52	9.4	0.0035	6.5	0.97	ND	ND	86	ND	ND
	4/7/2006	1,756	1.3	7.5	ND	ND	7.6	8	2.4	0.0028	10	1.1	ND	ND	21	ND	ND
	5/16/2006	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/20/2006	6,048	ND	ND	ND	ND	ND	78	10	ND	ND	ND	ND	16	120	ND	ND
Mass Discharged (g/d) 3/30/2006			6.74E-03	5.18E-02	N/A	N/A	3.73E-03	2.69E-01	4.87E-02	1.81E-05	3.37E-02	5.03E-03	N/A	N/A	4.46E-01	N/A	N/A
Mass Discharged (g/d) 4/7/2006			8.65E-03	4.99E-02	N/A	N/A	5.06E-02	5.32E-02	1.60E-02	1.86E-05	6.65E-02	7.32E-03	N/A	N/A	1.40E-01	N/A	N/A
Mass Discharged (g/d) 5/16/2006			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Mass Discharged (g/d) 6/20/2006			N/A	N/A	N/A	N/A	N/A	1.79E+00	2.29E-01	N/A	N/A	N/A	N/A	3.67E-01	2.75E+00	N/A	N/A
Mass Based Trigger (g/d) Flow: less than 10 gpm			3	1	3	1	2	3	5	0.01	5	2	1	3	10	1	N/A
Mass Based Trigger (g/d) Flow: >100 gpm			10	10	10	4	20	10	10	0.5	40	45	10	10	200	1	N/A

Notes:

gpd – gallons per day
 µg/l – micrograms per liter
 g/d – grams per day
 ND – Not detected
 -- not analyzed

TABLE 4
 PETROLEUM HYDROCARBON AND
 VOLATILE ORGANIC COMPOUND CONCENTRATIONS¹
 Wareham Labs
 Emeryville, CA

Sample Location	Date Sampled	Petroleum Hydrocarbons						
		TPH-g (µg/l)	TPH-d (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl- benzene (µg/l)	Total Xylenes (µg/l)	MTBE (µg/l)
Influent	3/30/2006	200,000	64	1400	510	ND	ND	ND
	4/7/2006	70,000	ND	630	ND	ND	ND	ND
	5/16/2006	51	ND	ND	ND	ND	ND	ND
	6/20/2006	ND	ND	ND	ND	ND	ND	ND
Effluent	3/30/2006	ND	ND	ND	ND	ND	ND	ND
	4/7/2006	ND	ND	ND	ND	ND	ND	ND
	5/16/2006	ND	ND	ND	ND	ND	ND	ND
	6/20/2006	ND	ND	ND	ND	ND	ND	ND
Effluent Limitations		50	50	1	5	5	5	5

Notes:

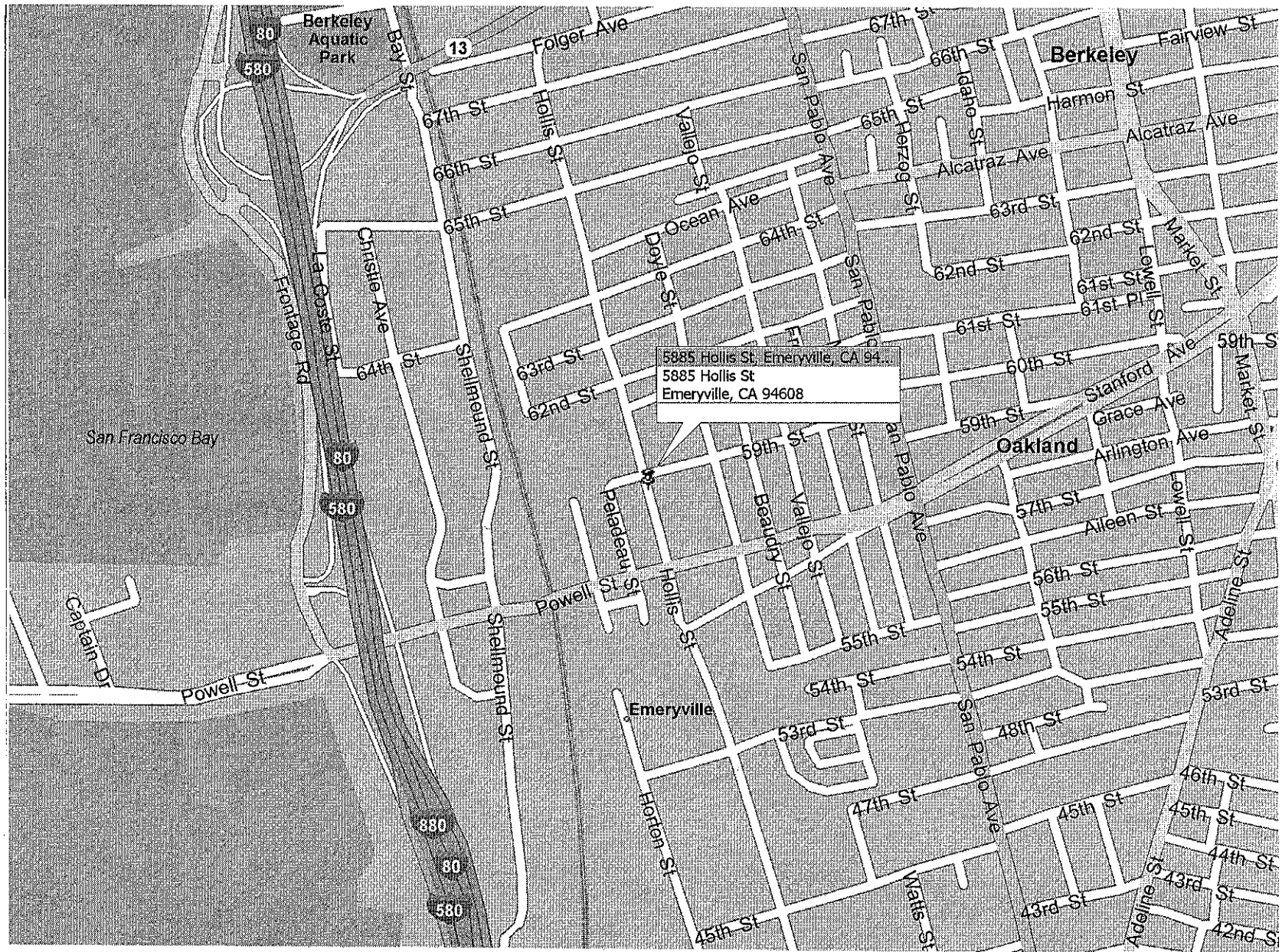
µg/l – Micrograms per liter
 TPH-g – Total petroleum hydrocarbons as gasoline
 TPH-d – Total petroleum hydrocarbons as diesel

¹ – Influent and effluent samples taken on April 7, 2006 were analyzed for Volatile Organic Compound (VOC) by EPA Method 8260B; for Semi-Volatile Organic Compounds (SVOCs) by EPA Method 8270D for Alcohols by GC-FID and for Polynuclear Aromatic Hydrocarbons. All effluent compounds were non-detect.

TABLE 5
FISH BIOASSAY RESULTS - EFFLUENT
Wareham Labs
Emeryville, CA

Date	Test Organisms	% Survival
4/7/2006	Fathead Minow	100
6/20/2006	Rainbow Trout	100

FIGURES

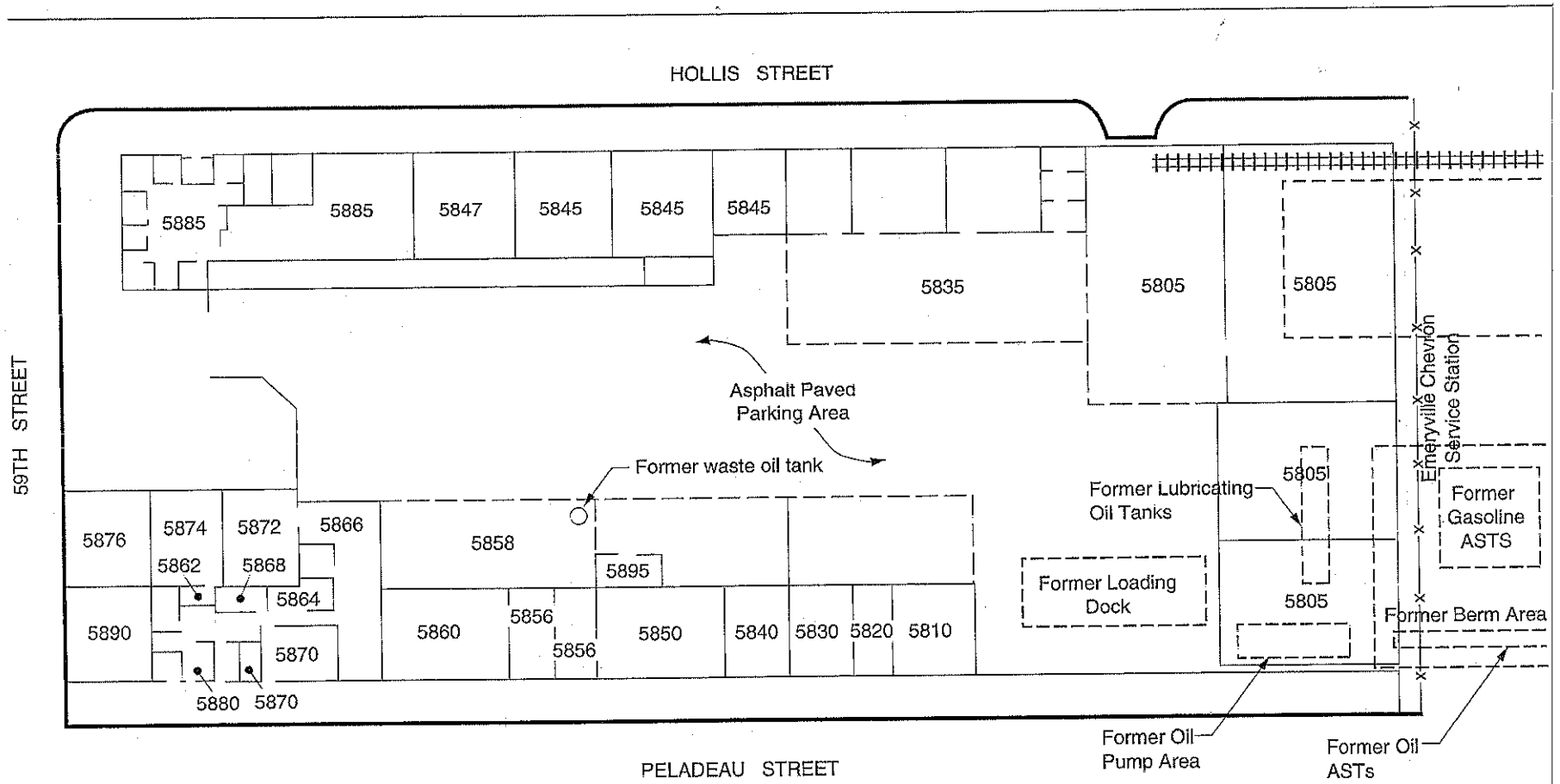


Pacific States
 ENVIRONMENTAL CONTRACTORS, INC.
 California Contractor License #723241-A-AZ

Site Location Map

5885 Hollis Street
 Emeryville, CA

Figure
 1



EXPLANATION:

--- Approximate location of Union Oil or California Operations

5885 HOLLIS STREET
Emeryville, California

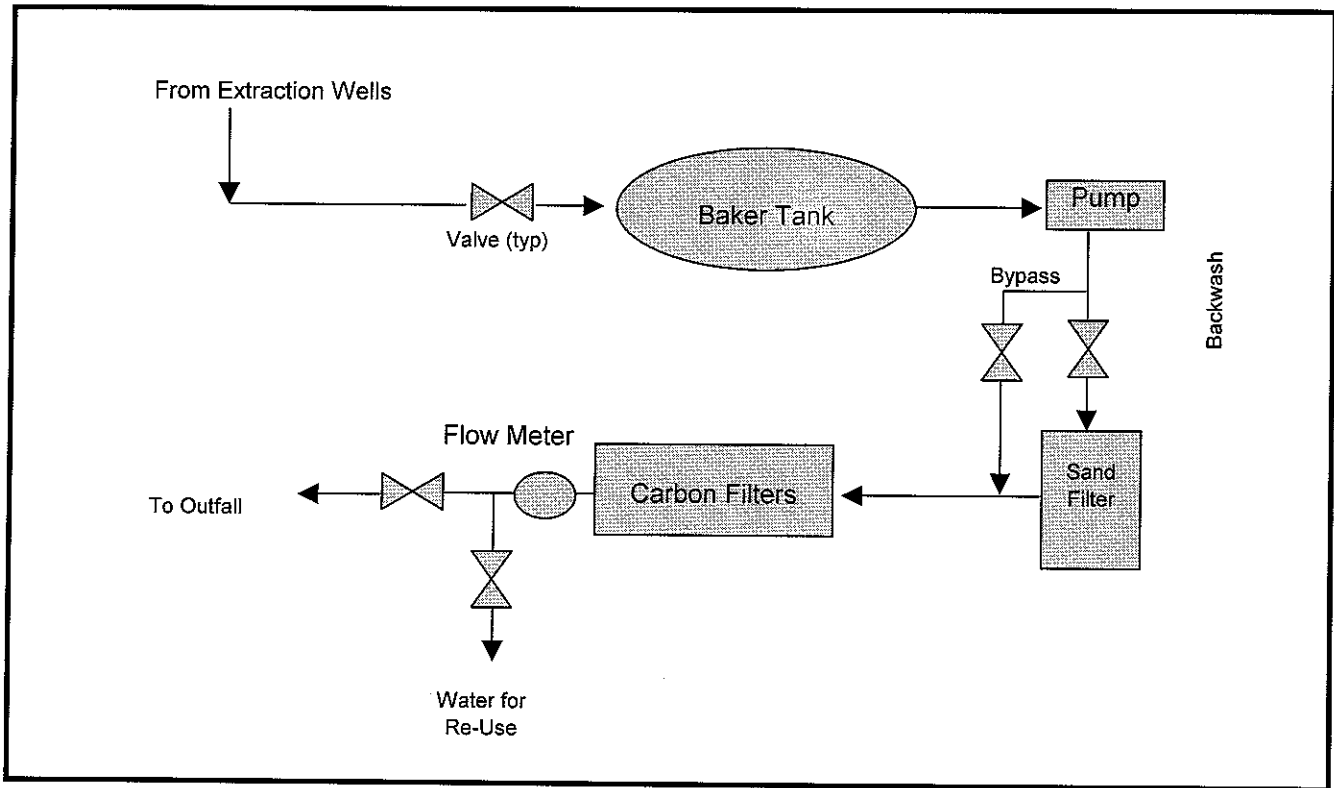



Pacific States
ENVIRONMENTAL CONTRACTORS, INC.
California Contractor License #723241-A-HAZ

Site Plan

5885 Hollis Street
Emeryville, CA

Figure
2




Pacific States
 ENVIRONMENTAL CONTRACTORS, INC.
California Contractor License # 232617 HAZ

Process Flow Schematic
5885 Hollis Street
Emeryville, CA

Figure
3

APPENDIX A

Psed 0603646

RUSH

MCCAMPBELL ANALYTICAL INC.

110 2ND AVENUE SOUTH, #D7
PACHECO, CA 94553-5560

Telephone: (925) 798-1620

Fax: (925) 798-1622

CHAIN OF CUSTODY RECORD
TURN AROUND TIME

EDF Required? Coelt (Normal) No Write On (DW) No 72 HR 5 DAY

KUSH 24 HR

48 HR

72 HR

5 DAY

Report To: Cory Divers

Bill To: Pacific States

Company: Pacific States

Envir

11555 Dublin Blvd

Dublin, CA 94568

Tele: (925) 803-4337

E-Mail: C.DIVERS@pacificstates.com

Project #: 605153

Fax: (925) 803-4334

Project Location: Hullis St, Emeryville

Project Name: DDR

Sampler Signature: [Signature]

Analysis Request

Other

Comments

ETEX & TPH as Gas (602/8020 + 8015)																				
TPH as Diesel (8015)																				
Total Petroleum Oil & Grease (5520 E&F/B&F)																				
Total Petroleum Hydrocarbons (418.1)																				
EPA 601 / 8010																				
ETEX ONLY (EPA 602 / 8020)																				
EPA 608 / 8080																				
EPA 608 / 8080 PCB's ONLY																				
EPA 624 / 8240 / 8260																				
EPA 625 / 8278																				
PAH's / PNA's by EPA 625 / 8270 / 8310																				
CAM-17 Metals (Zinc 2.00g/L)																				
LUFT 5 Metals																				
Lead (7240/7421/2392/6010)																				
RCI																				
pH, Electrical Conductivity																				
TPH - Diesel 8015 Modified																				
Chromiun Hexavalent 2.18																				
Mercury Total 1631 RL-2.18																				
Cyanide Total 335																				

SAMPLE ID (Field Point Name)	LOCATION	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED										
		Date	Time			Water	Soil	Air	Sludge	Other	Ice	HCl	HNO ₃	Other							
Wal LB-3-30	Emerville	3/30/06	12:00	1	250ml	X															
				6	VCA	X															
				2	AMB	X															
				1	250ml	X															
				1	250ml	X															
				3	500 ml	X															
				1	500 ml	X															

X NaOH Pres.

Relinquished By: <u>[Signature]</u>	Date: <u>3/30/06</u>	Time: <u>3:15pm</u>	Received By: <u>[Signature]</u>
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/T ✓	VOAS ✓	O&G ✓	METALS ✓	OTHER ✓
GOOD CONDITION ✓	PRESERVATION APPROPRIATE ✓	CONTAINERS PRESERVED IN LAB ✓		
HEAD SPACE ABSENT ✓				
DECHLORINATED IN LAB ✓				

Mar 31 2006 2:42PM
MCCAMPBELL ANALYTICAL
9257984612
P 2

0603645

RUSH

McCAMPBELL ANALYTICAL INC.

110 2nd AVENUE SOUTH, #D7
 PACHECO, CA 94553-5560
 Telephone: (925) 798-1620 Fax: (925) 798-1622

CHAIN OF CUSTODY RECORD
TURN AROUND TIME

EDF Required? Coelt (Normal) No Write On (DW) No 24 HR 48 HR 72 HR 5 DAY

Report To: Cory Divers Bill To: Pacific States
 Company: Pacific States
11555 Dublin Blvd
Dublin, CA 94568
 Tele: () 925-803-4333 E-Mail: C.Divers@pacificstates.net
 Project #: 605153 Fax: () 925-803-4334
 Project Location: Hollis St, Emeryville Project Name: DPR
 Sampler Signature: [Signature]

Analysis Request

Analysis Request	Other
BTX & TPH as Gas (602/8020 + 8015) AM/TE	
TPH as Diesel (8015)	
Total Petroleum Oil & Grease (5520 H&P/E&F)	
Total Petroleum Hydrocarbons (41E.1)	
EPA 601 / 8010	
BTEX ONLY (EPA 602 / 8020)	
EPA 608 / 8080	
EPA 608 / 8080 PCB's ONLY	
EPA 624 / 8240 / 8260	
EPA 625 / 8270	
PAH's / PNA's by EPA 825 / 8270 / 8310	
CAM-17 Metals (<u>Disc 2 also / L</u>)	
LURT 5 Metals	
Lead (7240/7421/239.2/6010)	
RCI	
	PH, Electrical Conductivity
	TPH Diesel 8015 Modified
	Hardness
	Chromium Hexavalent 2R
	Mercury Total 1631
	Cyanide Total 335

SAMPLE ID (Field Point Name)	LOCATION	SAMPLING		# Containers	Type Containers	MATRIX							METHOD PRESERVED							
		Date	Time			Water	Soil	Air	Sludge	Other	Ice	HCl		HNO ₃	Other					
W06B-3-30-06-6	Emeryville	3/30/06	12:30	1	250 mL	X						X								
	Emeryville			1	250 mL	X						X								
				6	VCA	X						X								
				2	AMB	X						X								
				1	250 mL	X						X								
				1	250 mL	X						X								
				1	250 mL	X						X								
				3	500 mL	X						X								
				1	500 mL	X						X								

Relinquished By: Ameet Patel Date: 3/30/06 Time: 3:15 PM Received By: [Signature]
 Relinquished By: _____ Date: _____ Time: _____ Received By: _____
 Relinquished By: _____ Date: _____ Time: _____ Received By: _____

ICE/Iⁿ ✓
 GOOD CONDITION ✓
 HEAD SPACE ABSENT ✓
 DECHLORINATED IN LAB ✓

PRESERVATION APPROPRIATE ✓
 CONTAINERS PRESERVED IN LAB ✓

VOCS O&G METALS OTHER

Mar. 31 2006 2:44PM McCAMPBELL ANALYTICAL 9257984612

0604134 PSET

RUSH

McCAMPBELL ANALYTICAL INC.

110 2ND AVENUE SOUTH, #D7
 PACHECO, CA 94553-5560
 Telephone: (925) 798-1620 Fax: (925) 798-1622

CHAIN OF CUSTODY RECORD
TURN AROUND TIME

EDF Required? Coelt (Normal) RUSH 24 HR 48 HR 72 HR 5 DAY
 No Write On (DW) No

Report To: Ameer Patel Bill To: PACIFIC STATES
 Company: PACIFIC STATES

E-Mail: AMTEL@PACIFICSTATES.NET
 Tele: (925) 803-7333 Fax: (925) 803-7334
 Project #: 605153 Project Name: DPK
 Project Location: EMERYVILLE
 Sampler Signature: [Signature]

Analysis Request

Analysis Request		Other	Comments
BTEX & TPH as Gas (602/8020 + 8015)/MTBE			
TPH as Diesel (8015)			
Total Petroleum Oil & Grease (5520 E&F/B&F)			
Total Petroleum Hydrocarbons (418.1)			
EPA 601 / 8010			
PTEX ONLY (EPA 602 / 8020)			
EPA 608 / 8080			
EPA 608 / 8080 PCB's ONLY			
EPA 624 / 8240 / 8260			
EPA 625 / 8270			
PAH's /PNA's by EPA 625 / 8270 / 8310			
CAM-17 Metals			
LUFT 5 Metals			
Lead (7240/7421/239.2/6010)			
RCI			
		<u>EDB</u>	
		<u>VOC's 82006</u>	
		<u>TAME, DIPE, ETBE, TBA</u>	
		<u>ETHANOL, METHANOL</u>	
		<u>SPEC'S 82700</u>	
		<u>PAH'S</u>	

SAMPLE ID (Field Point Name)	LOCATION	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED					
		Date	Time			Water	Soil	Air	Sludge	Other	Ice	HCl	HNO ₃	Other		
<u>WARLB-4-7-06-#</u>	<u>INFLUENT</u>	<u>4-7-06</u>		<u>2</u>	<u>VOA</u>	<u>X</u>						<u>X</u>				
				<u>3</u>	<u>VOA</u>	<u>X</u>						<u>X</u>				
				<u>1</u>	<u>LOCA</u>	<u>X</u>						<u>X</u>				
				<u>1</u>	<u>LOCA</u>	<u>X</u>						<u>X</u>				

Relinquished By: [Signature] Date: 4/7/06 Time: 21:15 Received By: [Signature]
 Relinquished By: _____ Date: _____ Time: _____ Received By: _____
 Relinquished By: _____ Date: _____ Time: _____ Received By: _____

ICE/✓ GOOD CONDITION ✓ PRESERVATION VOAS ✓ O&G METALS OTHER ✓
 HEAD SPACE ABSENT ✓ APPROPRIATE CONTAINERS ✓
 DECHLORINATED IN LAB ✓ PERSERVED IN LAB ✓

0604135 PSET

RUSH

MCCAMPBELL ANALYTICAL INC.

110 2nd AVENUE SOUTH, #D7
PACHECO, CA 94553-5560

Telephone: (925) 798-1620

Fax: (925) 798-1622

CHAIN OF CUSTODY RECORD

TURN AROUND TIME

RUSH 24 HR 48 HR 72 HR 5 DAY
 RUSH 24 HR 48 HR 72 HR 5 DAY

Report To: AMET PATEL

Bill To: PACIFIC STATES

Company: PACIFIC STATES ENV.

Tele: (925) 863-4333

E-Mail: APATEL@PACIFICSTATES.NET

Project #: 605153

Fax: (925) 863-4334

Project Location: EMERYVILLE

Project Name: OPR

Sampler Signature: [Signature]

SAMPLE ID (Field Point Name)	LOCATION	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED				Analysis Request	Other	Comments
		Date	Time			Water	Soil	Air	Sludge	Other	Ice	HCl	HNO ₃	Other			
<u>WARLB-474-E</u>	<u>EFFLUENT</u>	<u>4-7-06</u>		<u>2</u>	<u>100s</u>	X								X			
					<u>250ml</u>	X							X				
					<u>1L</u>	X						X					
					<u>250ml</u>	X						X					
					<u>250ml</u>	X					X						
					<u>3 500ml</u>	X						X					
					<u>500ml</u>	X						X					
					<u>1 250ml</u>	X							X				X Nitrit Present
					<u>1 250ml</u>	X						X					X

Analysis Request
 BTEX & TPH as Gas (602/8020 + 8015)M/TBE
 TPH as Diesel (8015)
 Total Petroleum Oil & Grease (5520 E&F&B&F)
 Total Petroleum Hydrocarbons (418.1)
 EPA 601 / 8010
 BTEX ONLY (EPA 602 / 8020)
 EPA 608 / 8080
 EPA 608 / 8080 PCB's ONLY
 EPA 624 / 8240 / 8260
 EPA 625 / 8270
 PAH's / PNA's by EPA 625 / 8270 / 8310
 6+17 Metals (Zinc 2pg / 2L)
 LUFT 5 Metals
 Lead (7240/7421/239.2/6010)
 RCI
 Other
 PHAECG ANALYTICAL
 TPH-DIASEL 8015 ANALYSED
 Chromium Hexavalent 218
 MERCURY TOTAL 1631 0.210ug/L 1000
 CYANIDE TOTAL 335
 THURBIDITY
 AMMONIA

Relinquished By: [Signature]

Date: 4/7/06 Time: 2:15

Received By: [Signature]

Relinquished By:

Date: Time:

Received By:

Relinquished By:

Date: Time:

Received By:

★ Ni, Se, Ag, Tl, Zn, Sb, As, Ba, Cd, Cr, Cu, Pb
 ICE/4
 GOOD CONDITION
 HEAD SPACE ABSENT
 DECHLORINATED IN LAB
 PRESERVATION APPROPRIATE
 CONTAINERS
 PERSERVED IN LAB
 VOAS O&G METALS OTHER

0607134

RUSH

McCAMPBELL ANALYTICAL INC.

110 2ND AVENUE SOUTH, #D7
PACHECO, CA 94553-5560

Telephone: (925) 798-1620

Fax: (925) 798-1622

CHAIN OF CUSTODY RECORD

TURN AROUND TIME

RUSH 24 HR 48 HR 72 HR 5 DAY

EDF Required? Coelt (Normal) No Write On (OW) No

Report To: ANILET HOTEL Bill To: PACIFIC STATES

Company: PACIFIC STATES OIL

Tele: () 925-803-4333

E-Mail: ANILET@PACIFICSTATES.NET

Project #: 605153

Fax: () 925-803-4334

Project Location: EMERYVILLE

Project Name: OPR

Sampler Signature: [Signature]

Analysis Request

Analysis Request		Other	Comments
<input type="checkbox"/>	BTEX & TPH as Gas (602/8020 + 8015)/MTBE		
<input type="checkbox"/>	TPH as Diesel (8015)		
<input type="checkbox"/>	Total Petroleum Oil & Grease (5520 E&F/B&F)		
<input type="checkbox"/>	Total Petroleum Hydrocarbons (418.1)		
<input type="checkbox"/>	EPA 601 / 8010		
<input type="checkbox"/>	BTEX ONLY (EPA 602 / 8020)		
<input type="checkbox"/>	EPA 608 / 8080		
<input type="checkbox"/>	EPA 608 / 8080 PCB'S ONLY		
<input type="checkbox"/>	EPA 624 / 8240 / 8260		
<input type="checkbox"/>	EPA 625 / 8270		
<input type="checkbox"/>	PAH's / PNA's by EPA 625 / 8270 / 8310		
<input type="checkbox"/>	CAM-17 Metals		
<input type="checkbox"/>	LUFT 5 Metals		
<input type="checkbox"/>	Lead (7240/7421/239.2/6010)		
<input type="checkbox"/>	RCI		
<input checked="" type="checkbox"/>		608	
<input checked="" type="checkbox"/>		VOC'S 8266	
<input checked="" type="checkbox"/>		TAME, DIPE, ETBE, TBA	
<input checked="" type="checkbox"/>		ETHANOL, METHANOL	
<input checked="" type="checkbox"/>		SVOCS 8270 C	
<input checked="" type="checkbox"/>		PAR'S	
<input checked="" type="checkbox"/>		FISH TOXICITY	

SAMPLE ID (Field Point Name)	LOCATION	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED									
		Date	Time			Water	Soil	Air	Sludge	Other	Ice	HCl	HNO ₃	Other						
WARLB-4-7-06-E	EFFLUENT	4-7-06		2	VOA	X														
				3	VOA	X														
				1	LITER	X						X								
				1	LITER	X						X								
				1	LITER	X						X								

Relinquished By: <u>[Signature]</u>	Date: <u>4/7/06</u>	Time: <u>21:15</u>	Received By: <u>[Signature]</u>
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/° _____ PRESERVATION _____
 GOOD CONDITION _____ APPROPRIATE _____
 HEAD SPACE ABSENT _____ CONTAINERS _____
 DECHLORINATED IN LAB _____ PERSERVED IN LAB _____

**SEVERN
TRENT**

STL
720-3721

STL San Francisco Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 484-1096
Email: sflogin@stl-inc.com

Reference #: 41012

Date 5/16/06 Page 1 of 1

Report To						Analysis Request																		
Attn: <u>CORY DIVERS</u>																								
Company: <u>PACIFIC STATES ENV.</u>																								
Address: <u>11555 DUBLIN BLVD. DUBLIN CA</u>																								
Phone: <u>925-803-4333</u> Email: <u>See Below</u>																								
Bill To:			Sampled By:																					
<u>PACIFIC STATES</u>			<u>CORY DIVERS</u>																					
Attn: <u>CORY</u>			Phone: <u>503-4333</u>																					
Sample ID	Date	Time	Mat rix	Pres erv.																				
<u>WARLB-5-16-06-I</u>	<u>5/16/06</u>	<u>1:30</u>	<u>H₂O</u>	<u>4°C</u>																				
↓	↓	↓	↓	<u>HCL</u>	<input checked="" type="checkbox"/>																			
↓	↓	↓	↓	<u>4°C</u>		<input checked="" type="checkbox"/>																		
<u>WARLB-5-16-06-E</u>	<u>5/16/06</u>	<u>1:30</u>	<u>H₂O</u>	<u>4°C</u>																				
↓	↓	↓	↓	<u>HCL</u>	<input checked="" type="checkbox"/>																			
↓	↓	↓	↓	<u>4°C</u>		<input checked="" type="checkbox"/>																		

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Project Info.					Sample Receipt					1) Relinquished by:			2) Relinquished by:			3) Relinquished by:		
Project Name: <u>WARHAM LAB, EMERYVILLE</u>					# of Containers: <u>18</u>					Signature: <u>[Signature]</u> Time: <u>15:30</u>			Signature: <u>[Signature]</u> Time: <u>8:10</u>			Signature: _____ Time: _____		
Project#: <u>605153</u>					Head Space: _____					Printed Name: <u>CORY DIVERS</u> Date: <u>5/16/06</u>			Printed Name: <u>Keith Wayne</u> Date: <u>5/17/06</u>			Printed Name: _____ Date: _____		
PO#: <u>605153</u>					Temp: <u>4°C 20</u>					Company: <u>PACIFIC STATES</u>			Company: <u>PACIFIC STATES ENV.</u>			Company: _____		
Credit Card#: _____					Conforms to record: _____					Company: _____			Company: _____			Company: _____		
T	A	(5 Day)	72h	48h	24h	Other: _____				1) Received by: <u>[Signature]</u> Time: <u>15:32</u>			2) Received by: <u>[Signature]</u> Time: <u>08:10</u>			3) Received by: _____		
Report: <input type="checkbox"/> Routine <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 <input type="checkbox"/> EDD <input type="checkbox"/> State Tank Fund EDF <input type="checkbox"/> Global ID _____										Signature: <u>Keith Wayne</u> Time: _____			Signature: <u>Bryan Thomas</u> Time: _____			Signature: _____ Time: _____		
Special Instructions / Comments: <u>PLEASE EMAIL RESULTS TO: cdivers@pacificstates.net</u>										Printed Name: <u>Keith Wayne</u> Date: <u>5/16/06</u>			Printed Name: <u>Bryan Thomas</u> Date: <u>5/17/06</u>			Printed Name: _____ Date: _____		
See Terms and Conditions on reverse										Company: <u>PACIFIC STATES</u>			Company: <u>STL-SF</u>			Company: _____		



STL

STL San Francisco Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 Fax: (925) 484-1096
Email: sflogin@stl.com

Reference #: 100457

Date 6/20/06 Page 1 of 2

Report To: Attn: Cory Divers, Company: PACIFIC STATES ENV., Address: 11555 DUBLIN BLVD. Analysis Request: TPH EPA 8015/8021, BTEX, MTBE, Pesticides, etc. Project Info: Project Name: DPR-WAREHAM LAB, Project #: 605153, PO#: 605153. Sample Receipt: 1) Relinquished by: Cory Divers, 10.24. 2) Relinquished by: [Signature], [Time]. 3) Relinquished by: [Signature], [Time].

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Vertical handwritten note on the right margin.



STL

STL San Francisco Chain of Custody
 1220 Quarry Lane • Pleasanton CA 94566-4756
 Phone: (925) 484-1919 Fax: (925) 484-1096
 Email: stl@stltesting.com

100457

Reference #: _____

Date 6/20/06 Page 2 of 2

720-4174

Report To						Analysis Request																		
Attn: <u>Cory Divers</u>																								
Company: <u>PACIFIC STATES ENV.</u>																								
Address: <u>11555 DUBLIN BLVD</u>																								
Phone: <u>803-9333</u> Email: <u>See Below</u>																								
Bill To: <u>PACIFIC STATES</u>			Sampled By: <u>Cory</u>																					
Attn: <u>Cory</u>			Phone: <u>803-9333</u>																					
Sample ID	Date	Time	Mat rix	Pres erv.	TPH EPA 8015/8021 802608 <input checked="" type="checkbox"/> Gas w/ <input checked="" type="checkbox"/> BTEX <input checked="" type="checkbox"/> MTBE	Purgeable Aromatics BTEX EPA <input type="checkbox"/> 8021 <input type="checkbox"/> 82608	TEPH-EPA 8015M* <input type="checkbox"/> Silica Gel <input type="checkbox"/> Diesel <input type="checkbox"/> Motor Oil <input type="checkbox"/> Other	Fuel Tests EPA 8260B <input type="checkbox"/> Gas <input type="checkbox"/> BTEX <input type="checkbox"/> Five Oxygenates <input type="checkbox"/> BCAA <input type="checkbox"/> E00 <input type="checkbox"/> Ethanol	Purgeable Halocarbons (HVOCs) EPA 8021 by 82608	Volatile Organics GC/MS (VOCs) EPA 8260B <input type="checkbox"/> 624 Semivolatiles GC/MS EPA 8270 <input type="checkbox"/> 625	Oil and Grease (EPA 1664) <input type="checkbox"/> Petroleum <input type="checkbox"/> Total	Pesticides EPA 8081 <input type="checkbox"/> 608 EPA 8082 <input type="checkbox"/> 608 PCBs	PNAs by <input type="checkbox"/> 8270 <input type="checkbox"/> 8310	CAM17 Metals (EPA 6010/7470/7471)	Metals: <input type="checkbox"/> Lead <input type="checkbox"/> LUFT <input type="checkbox"/> RCRA <input type="checkbox"/> Other	Low Level Metals by EPA 200.8/6020 (ICP-MS) <input type="checkbox"/> WET (STLC) <input type="checkbox"/> TCLP	Hexavalent Chromium pH (24h hold time for H ₂ O)	Spec Cond TSS Alkalinity TDS	Anions: <input type="checkbox"/> Cl <input type="checkbox"/> SO ₄ <input type="checkbox"/> NO ₃ <input type="checkbox"/> F <input type="checkbox"/> Br <input type="checkbox"/> NO ₂ <input type="checkbox"/> PO ₄	CYANIDE - TOTAL	LOW LEVEL MERCURY	FISH BIC ASSAY BIC HPL	Number of Containers	
WARLB-G-20-06 E	6/20	7:10	H ₂ O	NACH																	X			
				HCl	X																			
				4°C																				
				4°C																				

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Project Info.		Sample Receipt		1) Relinquished by:		2) Relinquished by:		3) Relinquished by:	
Project Name: <u>DRP-WAREHAM LAB</u>		# of Containers: <u>29 (TOTAL)</u>		Signature: <u>Cory Divers</u> Time: <u>10:24</u>		Signature: _____ Time: _____		Signature: _____ Time: _____	
Project#: <u>605153</u>		Head Space:		Printed Name: <u>Cory Divers</u> Date: <u>6/20/06</u>		Printed Name: _____ Date: _____		Printed Name: _____ Date: _____	
PO#: <u>605153</u>		Temp:		Company: <u>PACIFIC STATES</u>		Company: _____		Company: _____	
Credit Card#:		Conforms to record:		Company: _____		Company: _____		Company: _____	
T A T	<u>5</u> Day	72h	48h	24h	Other:	1) Received by: Signature: <u>Joan Miller</u> Time: <u>10:24</u>		2) Received by: Signature: _____ Time: _____	
Report: <input type="checkbox"/> Routine <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 <input type="checkbox"/> EDD <input type="checkbox"/> State Tank Fund EDF Special Instructions / Comments: <u>PLEASE EMAIL RESULTS TO: cdivers@pacificstates.net</u>						Signature: <u>Joan Miller</u> Time: <u>6-20-06</u>		Signature: _____ Time: _____	
						Printed Name: <u>STL SF</u> Date: _____		Printed Name: _____ Date: _____	
						Company: _____		Company: _____	

*STL SF reports 8015M from C₆-C₂₄ (industry norm). Default for 8015B is C₁₀-C₂₀