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Technical Memorandum

Date: 13 August 2010

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From: Mark Schultheis, P.E., Geosyntec Consultants
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Subject: Results of Macro Porous Polymer Extraction Bench-Scale Testing and Revised Pilot-Scale Workplan
Dual Site Groundwater Operable Unit
Torrance, California

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1. INTRODUCTION

This memorandum was prepared on behalf of Montrose Chemical Corporation of California ("Montrose") by Geosyntec Consultants ("Geosyntec"), with review by Hargis + Associates, Inc. ("H+A"), for submittal to the United States Environmental Protection Agency ("USEPA"). This memorandum transmits the results from the recent bench-scale tests of the macro porous polymer extraction ("MPPE") treatment technology, which is being evaluated as a potential option for the groundwater treatment system being designed for the Dual Site Groundwater Operable Unit in Torrance, California (the "site"). The bench-scale tests were conducted by Veolia Water Solutions and Technologies. Whittier Filtration of Brea, California (a division of Veolia Water Solutions and Technologies), a licensed vendor of the MPPE technology, provided oversight of the bench-scale testing. The bench-scale test was conducted at a facility operated by HPD Labs (a wholly owned subsidiary of Veolia Water Solutions and Technologies), located in Plainfield, Illinois. This memorandum also provides a planned path forward for pilot-scale testing of the MPPE technology. This memo reflects changes to the MPPE Pilot-Scale Workplan

made in response to comments received from the EPA in a July 19,2010 e-mail, which were subsequently discussed with EPA and CH2MHill on a phone call held on July 23, 2010.

In a memorandum to the USEPA on 5 March 2010, Geosyntec summarized the path forward for selecting an effective technology for removing volatile organic compounds ("VOCs") from groundwater. This became necessary after recent groundwater data indicated that the constituents present in groundwater consume a large amount of granular activated carbon (GAC), the previously planned treatment technology. Geosyntec recommended MPPE technology for further evaluation via bench-scale and potentially pilot-scale tests. If effective, MPPE would either replace or amend the GAC within the treatment train.

Bench-scale testing of MPPE is now complete. The bench-scale testing consisted of "shaker tests" in which various amounts of media were contacted with known volumes of site water. The purpose of the shaker tests was to verify that MPPE media would remove constituents of concern and to estimate partitioning coefficients that would be used to design pilot- and full-scale treatment systems.

Montrose had also considered conducting a column test in which the site water would be continuously pumped through a column packed with a known amount of MPPE. The purpose of the column test would have been to confirm the partitioning coefficients and demonstrate that MPPE can achieve target discharge concentrations for the treatment system. As discussed in this memorandum, the positive results of the shaker tests obviated the need for the column test, which therefore was not performed.

2. METHODOLOGY

As described in the 5 March 2010 memorandum, bench-scale test samples were collected from two existing extraction wells (MBFB-EW-1 and BF-EW-1). Figure 1 shows the location of these two wells. The sampling and testing procedures are summarized in Attachment 1 to this memorandum. Attachment 2 contains the field data sheets from purging and sampling of the groundwater wells. Attachment 3 contains the analytical laboratory reports for the samples as collected from each of these wells. Bulk samples from these wells were later blended to simulate the approximate concentrations of key VOCs (chlorobenzene, methylene chloride, chloroform, and 1,2-dichloroethane) expected to be in the influent to the full-scale treatment plant. As described in the 5 March 2010 memorandum, the groundwater samples were blended in a proportion of 5 percent by volume MBFB-EW-1 and 95 percent by volume BF-EW-1.

3. RESULTS AND RECOMMENDATIONS

A summary of compounds detected during the shaker test is provided in Table 1 and the full analytical laboratory report for the shaker test samples is included in Attachment 4.

Table 1: Summary of Compounds Detected During the Shaker Test

Analyte	Units	Well BF-EW-1	Well MBFB-EW-1	Blank (no media)	Test 1 (40 g media)	Test 2 (120 g media)	Test 3 (200 g media)
Volatile Organic Compounds (VOCs)							
1,2-Dichloroethane	µg/L	<25	**390**	28	**17**	**11**	**7.7**
Acetone	µg/L	**330**	<400	**45**	**72**	**210**	**63**
Benzene	µg/L	**450**	**12,000**	**410**	**180**	**97**	**62**
Chlorobenzene	µg/L	**27,000**	**990**	**5100**	**840**	**280**	**160**
Chloroform	µg/L	**800**	<80	**620**	**230**	**180**	**120**
cis-1,2-Dichloroethene	µg/L	<100	<80	<5	**0.83 J**	**0.45 J**	<1
Ethylbenzene	µg/L	<100	**1,300**	**3.9 J**	**0.39 J**	<1	<1
m&p-Xylene	µg/L	<100	**770**	**2.2 J**	**0.53 J**	**0.45 J**	**0.36 J**
Total Xylenes	µg/L	<100	**770**	**2.2 J**	**0.53 J**	**0.45 J**	**0.36 J**
Methylene Chloride	µg/L	<20	<1	**17**	**10**	**11**	**8**
Trichloroethene	µg/L	**54**	**100**	**11**	**3.1**	**1.2**	**0.79 J**
Trihalomethanes, Total	µg/L	**800**	<80	**620**	**230**	**180**	**120**
Semi-Volatile Organic Compounds (SVOCs)							
2,4-Dichlorophenol	µg/L	<190	<19	**1.4 J**	<9.3	<9.3	<9.3
2-Methylnaphthalene	µg/L	<94	**24**	**0.38 J**	<0.47	<0.47	<0.47
Benzoic acid	µg/L	<1,900	<190	<19	**8.6 J**	**8.9 J**	**9 J**
Butyl benzyl phthalate	µg/L	<470	<47	**0.88 J**	<1.9	<1.9	<1.9
Naphthalene	µg/L	<94	**64**	**0.54 J**	<0.93	<0.93	<0.93
Para-chlorobenzenesulfonic acid (pCBSA)							
pCBSA	µg/L	**120,000**	**18,000**	**120,000**	**130,000**	**120,000**	**120,000**

Notes: **(1)** Blank sample is a blended sample of 95% BF-EW-1 and 95% MBFB-EW-1.
"J" qualifier indicates that the result was less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.

As described in the "Analytical Report: Bench Scale Shaker Test" provided by Whittier Filtration (Attachment 5) and as summarized in Table 1, the shaker test data indicates that the MPPE media will remove several VOCs. In addition to removing chlorobenzene, MPPE removes chloroform, methylene chloride, and 1,2-dichloroethane. These latter three VOCs are not readily removed by granular activated carbon ("GAC"). MPPE, however, does not remove

pCBSA from the water. Instead, the current plan to remove pCBSA by advanced oxidation process located downstream of the VOC treatment will continue.

Based on the bench–scale testing results and recommendations from Whittier Filtration, Montrose is planning to perform a pilot-scale test to evaluate the operating characteristics and demands of the MPPE technology and to gather data to support firm cost quotes from Whittier Filtration. After reviewing the pilot-scale test data along with Whittier Filtration's size and cost estimates, Geosyntec will evaluate the costs of the MPPE system against other VOC treatment technologies and develop a final recommended plan for the treatment plant.

We are preparing to begin the pilot-scale MPPE test in early July. The pilot-scale test will be implemented as described in Attachment 6. If you would like to discuss the information in this memorandum prior to commencement of the pilot-scale test, please do not hesitate to contact Mark Schultheis at 714-465-1238.

Figures:

Figure 1 – MPPE Bench-Scale Well Locations

Attachments:

1 Bench-Scale Sampling and Testing Procedures

2 Groundwater Purging and Sampling Field Data Sheets

3 Analytical Report from 20 April 2010 Field Sampling

4 Analytical Laboratory Data Reports from Bench-Scale Shaker Tests

5 Analytical Report: Bench Scale Shaker Test (Whittier Filtration)

6 Macro Porous Polymer Extraction Pilot-Scale Work Plan

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Figure 1

MPPE Bench-Scale Well Locations

MPPE Bench-Scale Well Locations

Montrose Chemical Corporation of California

1,500 750 0 1,500 3,000 Feet

Geosyntec consultants

Figure 1

Project No: SB0508 | July 2010

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Attachment 1

Bench-Scale Sampling and Testing Procedures

Dual Site Groundwater Operable Unit
Montrose Chemical and Del Amo Superfund Sites
Bench-Scale Sampling and Testing Procedures

On 20 April 2010, groundwater samples were collected from each well in accordance with the groundwater sampling procedures established in the Pilot Extraction and Aquifer Test Work Plan prepared by H+A in August 2005.[1] Each well was purged using a non-dedicated stainless steel Grundfos® electric submersible pump with dedicated tubing. Over three well-casing volumes were removed from each well prior to sampling. After well-purging, the groundwater samples were collected through the dedicated tubing. Groundwater samples were collected at a flow rate of approximately 0.03 gallons per minute ("gpm").

Extraction Well MBFB-EW-1 was purged at a rate of approximately 3 gpm. Extraction Well MBFB-EW-1 contains one screened interval located at approximately 62 to 77 feet below ground surface ("ft-bgs"). The pump intake was placed approximately in the middle of the screen interval at 70 ft-bgs.

Extraction Well BF-EW-1 was purged at a rate of approximately 9 gpm. Extraction Well BF-EW-1 consists of three screened intervals at 85 to 93 ft-bgs, 109 to 114 ft-bgs, and 112 to 128 ft-bgs. The pump intake in BF-EW-1 was placed above the upper screened interval at approximately 80 ft-bgs. During purging, water quality parameters were collected using a flow-though cell and portable water quality meter.

Samples for the bench-scale test were collected and shipped to HPD Labs (a Veolia Water Solutions and Technologies Laboratory). The MPPE vendor is Whittier Filtration of Brea, California (a division of Veolia Water Solutions and Technologies). Concurrently, samples for laboratory analysis were collected to analyze concentrations of key constituents in the groundwater at the time of sampling. These baseline samples were transported to Test America in Irvine, California.

MPPE Bench-Scale Shaker Test Procedures

The shaker tests began on 11 May 2010. The MPPE shaker tests were performed at HPD labs in Plainfield, Illinois, and chemical analysis of the tested water was conducted at Test America in Chicago, Illinois. For the purposes of this test, which was to evaluate the relative effectiveness of the MPPE technology, the twenty days between sampling and the commencement of the

[1] Hargis and Associates, Inc., Pilot Extraction and Aquifer Response Test Workplan, Montrose Site, Torrance, California, DSGWRD 26-036, Revision 4.0. 12 August 2005.

shaker tests is acceptable, especially where a control test (i.e., “blank sample”) was also performed. The shaker test procedures included:

- Prior to testing, samples were blended at a ratio of 5 percent by volume of MBFB-EW-1 and 95 percent by volume of BF-EW-1.
- Four separate bottles were prepared for testing, and 3.5 liters of the blended water was added to each bottle.
- One bottle was closed without adding MPPE media to provide a blank control sample (Sample Number 500-25495-1).
- One bottle received 40 grams (g) of MPPE media (Sample Number 500-25495-2), one bottle received 120 g of MPPE Media (Sample Number 500-25495-3), and one bottle received 200 g of MPPE media (Sample Number 500-25495-4).
- The bottles were placed on the shaker table and samples were vibrated on the shaker table at a rate of 150 rotations per minutes (rpm) for a period of 24 hours.
- Water samples were collected from each bottle and sent to the analytical lab (Test America) for analysis.

Attachment 2

Groundwater Purging and Sampling Field Data Sheets

LOW FLOW WELL MONITORING DATA SHEET

Project #: 100470.13~1	Client: GeoSyntec
Sampler: BN	Gauging Date: 4.7.10
Well I.D.: MBFBE~1	Well Diameter: 2 3 4 6 (8) ~~8~~
Total Well Depth: 76.86	Depth to Water: 52.00
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
Sampling Method: Dedicated Tubing (New Tubing) Other_____

Start Purge Time: 0810 Flow Rate: 3 lpm Pump Depth:_____

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water
– 1 case volume = 94.9 gallons +30 for grout pack) 3 case volumes = 284.7 gallons								
0826	73.24	6.68	3935	10	1.75	-94.6	48	55.05
0842	73.24	6.65	3873	7	0.64	-103.9	96	55.43
0858	73.25	6.65	3853	4	0.52	-104.2	144	55.59
0914	73.24	6.64	3870	4	0.39	-99.2	192	55.63
0922	73.30	6.64	3916	3	0.44	-79.2	216	55.65
0930	73.18	6.64	3904	3	0.40	-84.0	240	55.67
0938	72.98	6.65	3900	3	0.44	-78.3	264	55.67
0946	73.10	6.64	3898	3	0.39	-81.4	288	55.69
0954	73.15	6.64	3895	2	0.38	-83.7	312	55.71
	– Post Sample –							
1046	73.35	6.63	3917	2	0.35	-83.3	337.5	55.75

Did well dewater? Yes (No) Amount actually evacuated: 337.5

Sampling Time: 0955 Sampling Date: 4.7.10

Sample I.D.: MBFBE~1 Laboratory:

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See S.O.W.

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET 2 of 2

Project #: 100420.BN1	Client: Fro Synteo
Sampler: BN	Gauging Date: 4.20.10
Well I.D.: RFEW1	Well Diameter: 2 3 4 6 8 10
Total Well Depth: 127.63	Depth to Water: 52.49
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump

Sampling Method: Dedicated Tubing New Tubing Other_____

Start Purge Time: 0837 Flow Rate: 9 GPM Pump Depth: 80'

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals or mL)	Depth to Water
1134	74.03	7.10	1718	2	3.07	-56.8	1574	58.38
1209	74.22	7.08	1702	2	2.98	-49.8	1916	58.38
1331	74.52	7.04	1698	2	3.10	-40.7	2654	58.38

Did well dewater? Yes No	Amount actually evacuated: 2,654
Sampling Time: 1134	Sampling Date: 4.20.10
Sample I.D.: RFEW1	Laboratory:
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: See S.O.W
Equipment Blank I.D.: @ Time	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

1 of 2

Project #: 100470.BN1	Client: GeoSyntec
Sampler: BN	Gauging Date: 4.20.10
Well I.D.: BFEW1	Well Diameter: 2 3 4 6 8 10
Total Well Depth: 127.63	Depth to Water: 52.49
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing New Tubing Other

Start Purge Time: 0837 Flow Rate: 9 GPM Pump Depth: 80'

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water
		1 case volume = 348 gallons			3 case volumes = 1,042.5 gals			
0837 -	Begin	Purge-						
0857	72.99	7.19	2438	7	3.09	-18.2	174	57.92
0916	73.18	7.26	2031	6	4.31	-10.8	348	58.10
0936	73.49	7.10	1887	4	3.04	-59.7	522	58.23
0955	73.68	7.21	1878	3	2.81	-73.1	696	58.35
1015	73.52	7.11	1776	4	3.18	-13.6	870	58.35
1034	73.89	7.12	1733	3	3.09	-6.7	1040	58.35
1054	73.97	7.15	1729	3	3.05	-72.4	1214	58.35
1104	73.91	7.14	1732	3	3.12	-63.1	1304	58.35
1114	73.97	7.13	1729	3	3.15	-59.5	1394	58.38
1124	73.96	7.11	1725	3	3.10	-58.7	1484	58.38

Did well dewater? Yes No	Amount actually evacuated: ~~74~~ 2654
Sampling Time: 1134	Sampling Date: 4.20.10
Sample I.D.: BFEW1	Laboratory:
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: SpecS.O.W
Equipment Blank I.D.: @ Time	Duplicate I.D.:

TEST EQUIPMENT CALIBRATION LOG

PROJECT NAME Epoxylec @ MPBE				PROJECT NUMBER 10042013.03			
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP.	INITIALS
YSI 556	BTS#2	4.10.19 0600	pH7 pH4 pH10	6.99 4.10 10.08	7.00 4.00 10.00	19.1°C	BN
↓	↓	↓	3400 uS 237.5 mV 100.0 uS	3689 uS 236.2 mV 92.14 uS	3400 uS 237.5 mV 99.1 uS	19.4°C	BN

Attachment 3

Analytical Report from 20 April 2010 Field Sampling

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

LABORATORY REPORT

Prepared For: Geosyntec Consultants
2100 Main Street, Suite 150
Huntington Beach, CA 92648
Attention: David Hawley

Project: Montrose-Torrance
SB0508-03 #01

Sampled: 04/20/10
Received: 04/20/10
Issued: 05/20/10 12:09

NELAP #01108CA California ELAP#2706 CSDLAC #10256 AZ #AZ0671 NV #CA01531

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.
This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

LABORATORY ID	CLIENT ID	MATRIX
ITD1858-01	BF-EW-1	Water
ITD1858-02	MBFB-EW-1	Water

Reviewed By:

Heather Clark

TestAmerica Irvine

Heather Clark For Chad Messer
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

Geosyntec Consultants
2100 Main Street, Suite 150
Huntington Beach, CA 92648
Attention: David Hawley

Project ID: Montrose-Torrance
SB0508-03 #01
Report Number: ITD1858

Sampled: 04/20/10
Received: 04/20/10

VOLATILE ORGANICS--GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITD1858-01 (BF-EW-1 - Water)									
Reporting Units: ug/l									
Acrolein	EPA 8260B	10D2509	200	2500	ND	50	04/22/10	04/22/10	
Acrylonitrile	EPA 8260B	10D2509	60	2500	ND	50	04/22/10	04/22/10	
Surrogate: 4-Bromofluorobenzene (80-120%)					*107 %*				
Surrogate: Dibromofluoromethane (80-120%)					*94 %*				
Surrogate: Toluene-d8 (80-120%)					*110 %*				
Sample ID: ITD1858-02 (MBFB-EW-1 - Water)									
Reporting Units: ug/l									
Acrolein	EPA 8260B	10D2530	160	2000	ND	40	04/22/10	04/22/10	
Acrylonitrile	EPA 8260B	10D2530	48	2000	ND	40	04/22/10	04/22/10	
Surrogate: 4-Bromofluorobenzene (80-120%)					*109 %*				
Surrogate: Dibromofluoromethane (80-120%)					*106 %*				
Surrogate: Toluene-d8 (80-120%)					*110 %*				

TestAmerica Irvine

Heather Clark For Chad Messer
Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

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Geosyntec Consultants
2100 Main Street, Suite 150
Huntington Beach, CA 92648
Attention: David Hawley

Project ID: Montrose-Torrance
SB0508-03 #01
Report Number: ITD1858

Sampled: 04/20/10
Received: 04/20/10

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITD1858-01 (BF-EW-1 - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	10D2509	220	500	**330**	50	04/22/10	04/22/10	J
Bromobenzene	EPA 8260B	10D2509	14	250	ND	50	04/22/10	04/22/10	
Bromochloromethane	EPA 8260B	10D2509	20	250	ND	50	04/22/10	04/22/10	
Bromodichloromethane	EPA 8260B	10D2509	15	100	ND	50	04/22/10	04/22/10	
Bromoform	EPA 8260B	10D2509	20	250	ND	50	04/22/10	04/22/10	
Bromomethane	EPA 8260B	10D2509	21	250	ND	50	04/22/10	04/22/10	
2-Butanone (MEK)	EPA 8260B	10D2509	240	500	ND	50	04/22/10	04/22/10	
n-Butylbenzene	EPA 8260B	10D2509	18	250	ND	50	04/22/10	04/22/10	
sec-Butylbenzene	EPA 8260B	10D2509	12	250	ND	50	04/22/10	04/22/10	
tert-Butylbenzene	EPA 8260B	10D2509	11	250	ND	50	04/22/10	04/22/10	
Carbon Disulfide	EPA 8260B	10D2509	24	50	ND	50	04/22/10	04/22/10	
Carbon tetrachloride	EPA 8260B	10D2509	14	25	ND	50	04/22/10	04/22/10	
Chloroethane	EPA 8260B	10D2509	20	250	ND	50	04/22/10	04/22/10	
Chloroform	EPA 8260B	10D2509	16	100	**800**	50	04/22/10	04/22/10	
Chloromethane	EPA 8260B	10D2509	20	75	ND	50	04/22/10	04/22/10	
2-Chlorotoluene	EPA 8260B	10D2509	14	250	ND	50	04/22/10	04/22/10	
4-Chlorotoluene	EPA 8260B	10D2509	14	250	ND	50	04/22/10	04/22/10	
1,2-Dibromo-3-chloropropane	EPA 8260B	10D2509	48	250	ND	50	04/22/10	04/22/10	
Dibromochloromethane	EPA 8260B	10D2509	20	100	ND	50	04/22/10	04/22/10	
1,2-Dibromoethane (EDB)	EPA 8260B	10D2509	20	100	ND	50	04/22/10	04/22/10	
Dibromomethane	EPA 8260B	10D2509	18	100	ND	50	04/22/10	04/22/10	
1,2-Dichlorobenzene	EPA 8260B	10D2509	16	100	ND	50	04/22/10	04/22/10	
1,3-Dichlorobenzene	EPA 8260B	10D2509	18	100	ND	50	04/22/10	04/22/10	
1,4-Dichlorobenzene	EPA 8260B	10D2509	18	100	**50**	50	04/22/10	04/22/10	J
Dichlorodifluoromethane	EPA 8260B	10D2509	13	250	ND	50	04/22/10	04/22/10	
1,1-Dichloroethane	EPA 8260B	10D2509	20	100	ND	50	04/22/10	04/22/10	
1,2-Dichloroethane	EPA 8260B	10D2509	14	25	ND	50	04/22/10	04/22/10	
1,1-Dichloroethene	EPA 8260B	10D2509	21	250	ND	50	04/22/10	04/22/10	
cis-1,2-Dichloroethene	EPA 8260B	10D2509	16	100	ND	50	04/22/10	04/22/10	
trans-1,2-Dichloroethene	EPA 8260B	10D2509	15	100	ND	50	04/22/10	04/22/10	
1,2-Dichloropropane	EPA 8260B	10D2509	18	100	ND	50	04/22/10	04/22/10	
1,3-Dichloropropane	EPA 8260B	10D2509	16	100	ND	50	04/22/10	04/22/10	
2,2-Dichloropropane	EPA 8260B	10D2509	17	100	ND	50	04/22/10	04/22/10	
cis-1,3-Dichloropropene	EPA 8260B	10D2509	11	100	ND	50	04/22/10	04/22/10	
trans-1,3-Dichloropropene	EPA 8260B	10D2509	16	100	ND	50	04/22/10	04/22/10	
1,1-Dichloropropene	EPA 8260B	10D2509	14	100	ND	50	04/22/10	04/22/10	
1,2-Dichloro-1,1,2-trifluoroethane	EPA 8260B	10D2509	55	100	ND	50	04/22/10	04/22/10	
Ethylbenzene	EPA 8260B	10D2509	12	100	ND	50	04/22/10	04/22/10	
Hexachlorobutadiene	EPA 8260B	10D2509	19	250	ND	50	04/22/10	04/22/10	
2-Hexanone	EPA 8260B	10D2509	130	500	ND	50	04/22/10	04/22/10	
Isopropylbenzene	EPA 8260B	10D2509	12	100	ND	50	04/22/10	04/22/10	

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Heather Clark For Chad Messer
Project Manager

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Geosyntec Consultants
2100 Main Street, Suite 150
Huntington Beach, CA 92648
Attention: David Hawley

Project ID: Montrose-Torrance
SB0508-03 #01
Report Number: ITD1858

Sampled: 04/20/10
Received: 04/20/10

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITD1858-01 (BF-EW-1 - Water) - cont.									
Reporting Units: ug/l									
p-Isopropyltoluene	EPA 8260B	10D2509	14	100	ND	50	04/22/10	04/22/10	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	10D2509	180	500	ND	50	04/22/10	04/22/10	
Methylene chloride	EPA 8260B	10D2509	48	250	ND	50	04/22/10	04/22/10	
Naphthalene	EPA 8260B	10D2509	20	250	ND	50	04/22/10	04/22/10	
n-Propylbenzene	EPA 8260B	10D2509	14	100	ND	50	04/22/10	04/22/10	
Styrene	EPA 8260B	10D2509	10	100	ND	50	04/22/10	04/22/10	
1,1,1,2-Tetrachloroethane	EPA 8260B	10D2509	14	250	ND	50	04/22/10	04/22/10	
1,1,2,2-Tetrachloroethane	EPA 8260B	10D2509	15	50	ND	50	04/22/10	04/22/10	
Tetrachloroethene	EPA 8260B	10D2509	16	100	**42**	50	04/22/10	04/22/10	J
Toluene	EPA 8260B	10D2509	18	100	ND	50	04/22/10	04/22/10	
1,2,3-Trichlorobenzene	EPA 8260B	10D2509	15	250	ND	50	04/22/10	04/22/10	
1,2,4-Trichlorobenzene	EPA 8260B	10D2509	24	250	ND	50	04/22/10	04/22/10	
1,1,1-Trichloroethane	EPA 8260B	10D2509	15	100	ND	50	04/22/10	04/22/10	
1,1,2-Trichloroethane	EPA 8260B	10D2509	15	100	ND	50	04/22/10	04/22/10	
Trichloroethene	EPA 8260B	10D2509	13	100	**54**	50	04/22/10	04/22/10	J
Trichlorofluoromethane	EPA 8260B	10D2509	17	250	ND	50	04/22/10	04/22/10	
1,2,3-Trichloropropane	EPA 8260B	10D2509	20	500	ND	50	04/22/10	04/22/10	
1,2,4-Trimethylbenzene	EPA 8260B	10D2509	12	100	ND	50	04/22/10	04/22/10	
1,3,5-Trimethylbenzene	EPA 8260B	10D2509	13	100	ND	50	04/22/10	04/22/10	
Vinyl acetate	EPA 8260B	10D2509	50	250	ND	50	04/22/10	04/22/10	L
Vinyl chloride	EPA 8260B	10D2509	20	25	ND	50	04/22/10	04/22/10	
m,p-Xylenes	EPA 8260B	10D2509	30	100	ND	50	04/22/10	04/22/10	
o-Xylene	EPA 8260B	10D2509	15	100	ND	50	04/22/10	04/22/10	
Xylenes, Total	EPA 8260B	10D2509	45	100	ND	50	04/22/10	04/22/10	
Surrogate: 4-Bromofluorobenzene (80-120%)					*108 %*				
Surrogate: Dibromofluoromethane (80-120%)					*97 %*				
Surrogate: Toluene-d8 (80-120%)					*107 %*				

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Geosyntec Consultants	Project ID:	Montrose-Torrance SB0508-03 #01	
2100 Main Street, Suite 150			Sampled: 04/20/10
Huntington Beach, CA 92648	Report Number:	ITD1858	Received: 04/20/10
Attention: David Hawley			

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITD1858-01RE1 (BF-EW-1 - Water) - cont.									
Reporting Units: ug/l									
Benzene	EPA 8260B	10D2678	28	200	**450**	100	04/23/10	04/23/10	
Chlorobenzene	EPA 8260B	10D2678	36	200	**27000**	100	04/23/10	04/23/10	
Surrogate: 4-Bromofluorobenzene (80-120%)					*101 %*				
Surrogate: Dibromofluoromethane (80-120%)					*98 %*				
Surrogate: Toluene-d8 (80-120%)					*106 %*				

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Geosyntec Consultants	Project ID:	Montrose-Torrance SB0508-03 #01	
2100 Main Street, Suite 150			Sampled: 04/20/10
Huntington Beach, CA 92648	Report Number:	ITD1858	Received: 04/20/10
Attention: David Hawley			

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITD1858-01RE2 (BF-EW-1 - Water) - cont.									
Reporting Units: ug/l									
Methylene chloride	EPA 8260B	10D3217	19	20	ND	20	04/28/10	04/29/10	
Surrogate: 4-Bromofluorobenzene (80-120%)					*98 %*				
Surrogate: Dibromofluoromethane (80-120%)					*105 %*				
Surrogate: Toluene-d8 (80-120%)					*106 %*				

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Report Number: ITD1858

Sampled: 04/20/10
Received: 04/20/10

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITD1858-02 (MBFB-EW-1 - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	10D2678	180	400	ND	40	04/23/10	04/23/10	
Bromobenzene	EPA 8260B	10D2678	11	200	ND	40	04/23/10	04/23/10	
Bromochloromethane	EPA 8260B	10D2678	16	200	ND	40	04/23/10	04/23/10	
Bromodichloromethane	EPA 8260B	10D2678	12	80	ND	40	04/23/10	04/23/10	
Bromoform	EPA 8260B	10D2678	16	200	ND	40	04/23/10	04/23/10	
Bromomethane	EPA 8260B	10D2678	17	200	ND	40	04/23/10	04/23/10	
2-Butanone (MEK)	EPA 8260B	10D2678	190	400	ND	40	04/23/10	04/23/10	
n-Butylbenzene	EPA 8260B	10D2678	15	200	ND	40	04/23/10	04/23/10	
sec-Butylbenzene	EPA 8260B	10D2678	10	200	ND	40	04/23/10	04/23/10	
tert-Butylbenzene	EPA 8260B	10D2678	8.8	200	ND	40	04/23/10	04/23/10	
Carbon Disulfide	EPA 8260B	10D2678	19	40	ND	40	04/23/10	04/23/10	
Carbon tetrachloride	EPA 8260B	10D2678	11	20	ND	40	04/23/10	04/23/10	
Chlorobenzene	EPA 8260B	10D2678	14	80	**990**	40	04/23/10	04/23/10	
Chloroethane	EPA 8260B	10D2678	16	200	ND	40	04/23/10	04/23/10	
Chloroform	EPA 8260B	10D2678	13	80	ND	40	04/23/10	04/23/10	
Chloromethane	EPA 8260B	10D2678	16	60	ND	40	04/23/10	04/23/10	
2-Chlorotoluene	EPA 8260B	10D2678	11	200	ND	40	04/23/10	04/23/10	
4-Chlorotoluene	EPA 8260B	10D2678	12	200	ND	40	04/23/10	04/23/10	
1,2-Dibromo-3-chloropropane	EPA 8260B	10D2678	39	200	ND	40	04/23/10	04/23/10	
Dibromochloromethane	EPA 8260B	10D2678	16	80	ND	40	04/23/10	04/23/10	
1,2-Dibromoethane (EDB)	EPA 8260B	10D2678	16	80	ND	40	04/23/10	04/23/10	
Dibromomethane	EPA 8260B	10D2678	14	80	ND	40	04/23/10	04/23/10	
1,2-Dichlorobenzene	EPA 8260B	10D2678	13	80	ND	40	04/23/10	04/23/10	
1,3-Dichlorobenzene	EPA 8260B	10D2678	14	80	ND	40	04/23/10	04/23/10	
1,4-Dichlorobenzene	EPA 8260B	10D2678	15	80	ND	40	04/23/10	04/23/10	
Dichlorodifluoromethane	EPA 8260B	10D2678	10	200	ND	40	04/23/10	04/23/10	
1,1-Dichloroethane	EPA 8260B	10D2678	16	80	ND	40	04/23/10	04/23/10	
1,2-Dichloroethane	EPA 8260B	10D2678	11	20	**390**	40	04/23/10	04/23/10	
1,1-Dichloroethene	EPA 8260B	10D2678	17	200	ND	40	04/23/10	04/23/10	
cis-1,2-Dichloroethene	EPA 8260B	10D2678	13	80	ND	40	04/23/10	04/23/10	
trans-1,2-Dichloroethene	EPA 8260B	10D2678	12	80	ND	40	04/23/10	04/23/10	
1,2-Dichloropropane	EPA 8260B	10D2678	14	80	ND	40	04/23/10	04/23/10	
1,3-Dichloropropane	EPA 8260B	10D2678	13	80	ND	40	04/23/10	04/23/10	
2,2-Dichloropropane	EPA 8260B	10D2678	14	80	ND	40	04/23/10	04/23/10	
cis-1,3-Dichloropropene	EPA 8260B	10D2678	8.8	80	ND	40	04/23/10	04/23/10	
trans-1,3-Dichloropropene	EPA 8260B	10D2678	13	80	ND	40	04/23/10	04/23/10	
1,1-Dichloropropene	EPA 8260B	10D2678	11	80	ND	40	04/23/10	04/23/10	
1,2-Dichloro-1,1,2-trifluoroethane	EPA 8260B	10D2678	44	80	ND	40	04/23/10	04/23/10	
Ethylbenzene	EPA 8260B	10D2678	10	80	**1300**	40	04/23/10	04/23/10	
Hexachlorobutadiene	EPA 8260B	10D2678	15	200	ND	40	04/23/10	04/23/10	
2-Hexanone	EPA 8260B	10D2678	100	400	ND	40	04/23/10	04/23/10	

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Heather Clark For Chad Messer
Project Manager

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Geosyntec Consultants
2100 Main Street, Suite 150
Huntington Beach, CA 92648
Attention: David Hawley

Project ID: Montrose-Torrance
SB0508-03 #01
Report Number: ITD1858

Sampled: 04/20/10
Received: 04/20/10

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITD1858-02 (MBFB-EW-1 - Water) - cont.									
Reporting Units: ug/l									
Isopropylbenzene	EPA 8260B	10D2678	10	80	**45**	40	04/23/10	04/23/10	J
p-Isopropyltoluene	EPA 8260B	10D2678	11	80	ND	40	04/23/10	04/23/10	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	10D2678	140	400	ND	40	04/23/10	04/23/10	
Methylene chloride	EPA 8260B	10D2678	38	200	ND	40	04/23/10	04/23/10	
Naphthalene	EPA 8260B	10D2678	16	200	**100**	40	04/23/10	04/23/10	J
n-Propylbenzene	EPA 8260B	10D2678	11	80	**99**	40	04/23/10	04/23/10	
Styrene	EPA 8260B	10D2678	8.0	80	ND	40	04/23/10	04/23/10	
1,1,1,2-Tetrachloroethane	EPA 8260B	10D2678	11	200	ND	40	04/23/10	04/23/10	
1,1,2,2-Tetrachloroethane	EPA 8260B	10D2678	12	40	ND	40	04/23/10	04/23/10	
Tetrachloroethene	EPA 8260B	10D2678	13	80	**34**	40	04/23/10	04/23/10	J
Toluene	EPA 8260B	10D2678	14	80	**46**	40	04/23/10	04/23/10	J
1,2,3-Trichlorobenzene	EPA 8260B	10D2678	12	200	ND	40	04/23/10	04/23/10	
1,2,4-Trichlorobenzene	EPA 8260B	10D2678	19	200	ND	40	04/23/10	04/23/10	
1,1,1-Trichloroethane	EPA 8260B	10D2678	12	80	ND	40	04/23/10	04/23/10	
1,1,2-Trichloroethane	EPA 8260B	10D2678	12	80	ND	40	04/23/10	04/23/10	
Trichloroethene	EPA 8260B	10D2678	10	80	**100**	40	04/23/10	04/23/10	
Trichlorofluoromethane	EPA 8260B	10D2678	14	200	ND	40	04/23/10	04/23/10	
1,2,3-Trichloropropane	EPA 8260B	10D2678	16	400	ND	40	04/23/10	04/23/10	
1,2,4-Trimethylbenzene	EPA 8260B	10D2678	9.2	80	**680**	40	04/23/10	04/23/10	
1,3,5-Trimethylbenzene	EPA 8260B	10D2678	10	80	**160**	40	04/23/10	04/23/10	
Vinyl acetate	EPA 8260B	10D2678	40	200	ND	40	04/23/10	04/23/10	L, M7
Vinyl chloride	EPA 8260B	10D2678	16	20	ND	40	04/23/10	04/23/10	
m,p-Xylenes	EPA 8260B	10D2678	24	80	**770**	40	04/23/10	04/23/10	
o-Xylene	EPA 8260B	10D2678	12	80	ND	40	04/23/10	04/23/10	
Xylenes, Total	EPA 8260B	10D2678	36	80	**770**	40	04/23/10	04/23/10	
Surrogate: 4-Bromofluorobenzene (80-120%)					*107 %*				
Surrogate: Dibromofluoromethane (80-120%)					*100 %*				
Surrogate: Toluene-d8 (80-120%)					*107 %*				

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Heather Clark For Chad Messer
Project Manager

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Geosyntec Consultants	Project ID:	Montrose-Torrance SB0508-03 #01	
2100 Main Street, Suite 150			Sampled: 04/20/10
Huntington Beach, CA 92648	Report Number:	ITD1858	Received: 04/20/10
Attention: David Hawley			

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITD1858-02RE1 (MBFB-EW-1 - Water) - cont.									
Reporting Units: ug/l									
Benzene	EPA 8260B	10D2678	56	400	**12000**	200	04/23/10	04/23/10	
Surrogate: 4-Bromofluorobenzene (80-120%)					*103 %*				
Surrogate: Dibromofluoromethane (80-120%)					*97 %*				
Surrogate: Toluene-d8 (80-120%)					*107 %*				

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2100 Main Street, Suite 150			Sampled: 04/20/10
Huntington Beach, CA 92648	Report Number:	ITD1858	Received: 04/20/10
Attention: David Hawley			

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITD1858-02RE2 (MBFB-EW-1 - Water) - cont.									
Reporting Units: ug/l									
Methylene chloride	EPA 8260B	10D3199	0.95	1.0	ND	1	04/28/10	04/28/10	
Surrogate: 4-Bromofluorobenzene (80-120%)					*101 %*				
Surrogate: Dibromofluoromethane (80-120%)					*91 %*				
Surrogate: Toluene-d8 (80-120%)					*105 %*				

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Project ID: Montrose-Torrance
SB0508-03 #01
Report Number: ITD1858

Sampled: 04/20/10
Received: 04/20/10

PURGEABLES BY GC/MS (EPA 624)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITD1858-01 (BF-EW-1 - Water)									
Reporting Units: ug/l									
Bromodichloromethane	EPA 624	10D2509	15	100	ND	50	04/22/10	04/22/10	
Bromoform	EPA 624	10D2509	20	100	ND	50	04/22/10	04/22/10	
Chloroform	EPA 624	10D2509	16	100	**800**	50	04/22/10	04/22/10	
Dibromochloromethane	EPA 624	10D2509	20	100	ND	50	04/22/10	04/22/10	
Trihalomethanes, Total	EPA 624	10D2509	N/A	NA	**800**	50	04/22/10	04/22/10	
Surrogate: 4-Bromofluorobenzene (80-120%)					*108 %*				
Surrogate: Dibromofluoromethane (80-120%)					*97 %*				
Surrogate: Toluene-d8 (80-120%)					*107 %*				
Sample ID: ITD1858-02 (MBFB-EW-1 - Water)									
Reporting Units: ug/l									
Bromodichloromethane	EPA 624	10D2678	12	80	ND	40	04/23/10	04/23/10	
Bromoform	EPA 624	10D2678	16	80	ND	40	04/23/10	04/23/10	
Chloroform	EPA 624	10D2678	13	80	ND	40	04/23/10	04/23/10	
Dibromochloromethane	EPA 624	10D2678	16	80	ND	40	04/23/10	04/23/10	
Trihalomethanes, Total	EPA 624	10D2678	N/A	NA	ND	40	04/23/10	04/23/10	
Surrogate: 4-Bromofluorobenzene (80-120%)					*107 %*				
Surrogate: Dibromofluoromethane (80-120%)					*100 %*				
Surrogate: Toluene-d8 (80-120%)					*107 %*				

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Sampled: 04/20/10
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PURGEABLES BY GC/MS, TENTATIVELY IDENTIFIED COMPOUNDS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITD1858-01 (BF-EW-1 - Water)									
Reporting Units: ug/l									
Cyclohexane	EPA 8260B	10D2509	N/A	6200	ND	50	04/22/10	04/22/10	
Sample ID: ITD1858-02 (MBFB-EW-1 - Water)									
Reporting Units: ug/l									
Cyclohexane	EPA 8260B	10D2678	N/A	5000	ND	40	04/23/10	04/23/10	

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Project ID: Montrose-Torrance
SB0508-03 #01
Report Number: ITD1858

Sampled: 04/20/10
Received: 04/20/10

SEMI-VOLATILE ORGANICS BY GC/MS (EPA 8270C)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITD1858-01 (BF-EW-1 - Water)									**RL3**
Reporting Units: ug/l									
Acenaphthene	EPA 8270C	10D2716	9.4	47	ND	94.3	04/23/10	04/26/10	
Acenaphthylene	EPA 8270C	10D2716	9.4	47	ND	94.3	04/23/10	04/26/10	
Aniline	EPA 8270C	10D2716	28	940	ND	94.3	04/23/10	04/26/10	
Anthracene	EPA 8270C	10D2716	9.4	47	ND	94.3	04/23/10	04/26/10	
Benzidine	EPA 8270C	10D2716	470	470	ND	94.3	04/23/10	04/26/10	
Benzo(a)anthracene	EPA 8270C	10D2716	9.4	470	ND	94.3	04/23/10	04/26/10	
Benzo(a)pyrene	EPA 8270C	10D2716	9.4	190	ND	94.3	04/23/10	04/26/10	
Benzo(b)fluoranthene	EPA 8270C	10D2716	9.4	190	ND	94.3	04/23/10	04/26/10	
Benzo(g,h,i)perylene	EPA 8270C	10D2716	9.4	470	ND	94.3	04/23/10	04/26/10	
Benzo(k)fluoranthene	EPA 8270C	10D2716	9.4	47	ND	94.3	04/23/10	04/26/10	
Benzoic acid	EPA 8270C	10D2716	280	1900	ND	94.3	04/23/10	04/26/10	
Benzyl alcohol	EPA 8270C	10D2716	9.4	470	ND	94.3	04/23/10	04/26/10	
4-Bromophenyl phenyl ether	EPA 8270C	10D2716	9.4	94	ND	94.3	04/23/10	04/26/10	
Butyl benzyl phthalate	EPA 8270C	10D2716	66	470	ND	94.3	04/23/10	04/26/10	
4-Chloro-3-methylphenol	EPA 8270C	10D2716	19	190	ND	94.3	04/23/10	04/26/10	
4-Chloroaniline	EPA 8270C	10D2716	9.4	190	ND	94.3	04/23/10	04/26/10	
Bis(2-chloroethoxy)methane	EPA 8270C	10D2716	9.4	47	ND	94.3	04/23/10	04/26/10	
Bis(2-chloroethyl)ether	EPA 8270C	10D2716	9.4	47	ND	94.3	04/23/10	04/26/10	
Bis(2-chloroisopropyl)ether	EPA 8270C	10D2716	9.4	47	ND	94.3	04/23/10	04/26/10	
Bis(2-ethylhexyl)phthalate	EPA 8270C	10D2716	160	470	ND	94.3	04/23/10	04/26/10	
2-Chloronaphthalene	EPA 8270C	10D2716	9.4	47	ND	94.3	04/23/10	04/26/10	
2-Chlorophenol	EPA 8270C	10D2716	19	94	ND	94.3	04/23/10	04/26/10	
4-Chlorophenyl phenyl ether	EPA 8270C	10D2716	9.4	47	ND	94.3	04/23/10	04/26/10	
Chrysene	EPA 8270C	10D2716	9.4	47	ND	94.3	04/23/10	04/26/10	
Dibenz(a,h)anthracene	EPA 8270C	10D2716	9.4	47	ND	94.3	04/23/10	04/26/10	
Dibenzofuran	EPA 8270C	10D2716	9.4	47	ND	94.3	04/23/10	04/26/10	
Di-n-butyl phthalate	EPA 8270C	10D2716	19	190	ND	94.3	04/23/10	04/26/10	
1,2-Dichlorobenzene	EPA 8270C	10D2716	9.4	47	ND	94.3	04/23/10	04/26/10	
1,3-Dichlorobenzene	EPA 8270C	10D2716	9.4	47	ND	94.3	04/23/10	04/26/10	
1,4-Dichlorobenzene	EPA 8270C	10D2716	19	47	**32**	94.3	04/23/10	04/26/10	J
3,3'-Dichlorobenzidine	EPA 8270C	10D2716	470	470	ND	94.3	04/23/10	04/26/10	
2,4-Dichlorophenol	EPA 8270C	10D2716	19	190	ND	94.3	04/23/10	04/26/10	
Diethyl phthalate	EPA 8270C	10D2716	9.4	94	ND	94.3	04/23/10	04/26/10	
2,4-Dimethylphenol	EPA 8270C	10D2716	28	190	ND	94.3	04/23/10	04/26/10	
Dimethyl phthalate	EPA 8270C	10D2716	9.4	47	ND	94.3	04/23/10	04/26/10	
4,6-Dinitro-2-methylphenol	EPA 8270C	10D2716	19	470	ND	94.3	04/23/10	04/26/10	
2,4-Dinitrophenol	EPA 8270C	10D2716	85	470	ND	94.3	04/23/10	04/26/10	
2,4-Dinitrotoluene	EPA 8270C	10D2716	19	470	ND	94.3	04/23/10	04/26/10	
2,6-Dinitrotoluene	EPA 8270C	10D2716	9.4	470	ND	94.3	04/23/10	04/26/10	
Di-n-octyl phthalate	EPA 8270C	10D2716	9.4	470	ND	94.3	04/23/10	04/26/10	
1,2-Diphenylhydrazine/Azobenzene	EPA 8270C	10D2716	9.4	94	ND	94.3	04/23/10	04/26/10	

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Heather Clark For Chad Messer
Project Manager

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Geosyntec Consultants
2100 Main Street, Suite 150
Huntington Beach, CA 92648
Attention: David Hawley

Project ID: Montrose-Torrance
SB0508-03 #01
Report Number: ITD1858

Sampled: 04/20/10
Received: 04/20/10

SEMI-VOLATILE ORGANICS BY GC/MS (EPA 8270C)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITD1858-01 (BF-EW-1 - Water) - cont.									**RL3**
Reporting Units: ug/l									
Fluoranthene	EPA 8270C	10D2716	9.4	47	ND	94.3	04/23/10	04/26/10	
Fluorene	EPA 8270C	10D2716	9.4	47	ND	94.3	04/23/10	04/26/10	
Hexachlorobenzene	EPA 8270C	10D2716	9.4	94	ND	94.3	04/23/10	04/26/10	
Hexachlorobutadiene	EPA 8270C	10D2716	19	190	ND	94.3	04/23/10	04/26/10	
Hexachlorocyclopentadiene	EPA 8270C	10D2716	9.4	470	ND	94.3	04/23/10	04/26/10	
Hexachloroethane	EPA 8270C	10D2716	19	280	ND	94.3	04/23/10	04/26/10	
Indeno(1,2,3-cd)pyrene	EPA 8270C	10D2716	9.4	190	ND	94.3	04/23/10	04/26/10	
Isophorone	EPA 8270C	10D2716	9.4	94	ND	94.3	04/23/10	04/26/10	
2-Methylnaphthalene	EPA 8270C	10D2716	9.4	94	ND	94.3	04/23/10	04/26/10	
2-Methylphenol	EPA 8270C	10D2716	9.4	190	ND	94.3	04/23/10	04/26/10	
4-Methylphenol	EPA 8270C	10D2716	19	470	ND	94.3	04/23/10	04/26/10	
Naphthalene	EPA 8270C	10D2716	9.4	94	ND	94.3	04/23/10	04/26/10	
2-Nitroaniline	EPA 8270C	10D2716	9.4	470	ND	94.3	04/23/10	04/26/10	
3-Nitroaniline	EPA 8270C	10D2716	19	470	ND	94.3	04/23/10	04/26/10	
4-Nitroaniline	EPA 8270C	10D2716	47	470	ND	94.3	04/23/10	04/26/10	
Nitrobenzene	EPA 8270C	10D2716	9.4	94	ND	94.3	04/23/10	04/26/10	
2-Nitrophenol	EPA 8270C	10D2716	9.4	190	ND	94.3	04/23/10	04/26/10	
4-Nitrophenol	EPA 8270C	10D2716	240	470	ND	94.3	04/23/10	04/26/10	
N-Nitroso-di-n-propylamine	EPA 8270C	10D2716	9.4	190	ND	94.3	04/23/10	04/26/10	
N-Nitrosodimethylamine	EPA 8270C	10D2716	9.4	190	ND	94.3	04/23/10	04/26/10	
N-Nitrosodiphenylamine	EPA 8270C	10D2716	9.4	94	ND	94.3	04/23/10	04/26/10	
Pentachlorophenol	EPA 8270C	10D2716	9.4	190	ND	94.3	04/23/10	04/26/10	
Phenanthrene	EPA 8270C	10D2716	9.4	47	ND	94.3	04/23/10	04/26/10	
Phenol	EPA 8270C	10D2716	28	94	ND	94.3	04/23/10	04/26/10	
Pyrene	EPA 8270C	10D2716	9.4	47	ND	94.3	04/23/10	04/26/10	
1,2,4-Trichlorobenzene	EPA 8270C	10D2716	9.4	94	ND	94.3	04/23/10	04/26/10	
2,4,5-Trichlorophenol	EPA 8270C	10D2716	19	190	ND	94.3	04/23/10	04/26/10	
2,4,6-Trichlorophenol	EPA 8270C	10D2716	9.4	94	ND	94.3	04/23/10	04/26/10	
Surrogate: 2,4,6-Tribromophenol (40-120%)					*30 %*				*Z3*
Surrogate: 2-Fluorobiphenyl (50-120%)					*100 %*				*Z3*
Surrogate: 2-Fluorophenol (30-120%)					*70 %*				*Z3*
Surrogate: Nitrobenzene-d5 (45-120%)					*60 %*				*Z3*
Surrogate: Phenol-d6 (35-120%)					*30 %*				*Z3*
Surrogate: Terphenyl-d14 (50-125%)					*80 %*				*Z3*

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Heather Clark For Chad Messer
Project Manager

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Geosyntec Consultants
2100 Main Street, Suite 150
Huntington Beach, CA 92648
Attention: David Hawley

Project ID: Montrose-Torrance
SB0508-03 #01
Report Number: ITD1858

Sampled: 04/20/10
Received: 04/20/10

SEMI-VOLATILE ORGANICS BY GC/MS (EPA 8270C)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITD1858-02 (MBFB-EW-1 - Water)									
Reporting Units: ug/l									
Acenaphthene	EPA 8270C	10D2716	0.94	4.7	ND	9.43	04/23/10	04/26/10	
Acenaphthylene	EPA 8270C	10D2716	0.94	4.7	ND	9.43	04/23/10	04/26/10	
Aniline	EPA 8270C	10D2716	2.8	94	ND	9.43	04/23/10	04/26/10	
Anthracene	EPA 8270C	10D2716	0.94	4.7	ND	9.43	04/23/10	04/26/10	
Benzidine	EPA 8270C	10D2716	47	47	ND	9.43	04/23/10	04/26/10	
Benzo(a)anthracene	EPA 8270C	10D2716	0.94	47	ND	9.43	04/23/10	04/26/10	
Benzo(a)pyrene	EPA 8270C	10D2716	0.94	19	ND	9.43	04/23/10	04/26/10	
Benzo(b)fluoranthene	EPA 8270C	10D2716	0.94	19	ND	9.43	04/23/10	04/26/10	
Benzo(g,h,i)perylene	EPA 8270C	10D2716	0.94	47	ND	9.43	04/23/10	04/26/10	
Benzo(k)fluoranthene	EPA 8270C	10D2716	0.94	4.7	ND	9.43	04/23/10	04/26/10	
Benzoic acid	EPA 8270C	10D2716	28	190	ND	9.43	04/23/10	04/26/10	
Benzyl alcohol	EPA 8270C	10D2716	0.94	47	ND	9.43	04/23/10	04/26/10	
4-Bromophenyl phenyl ether	EPA 8270C	10D2716	0.94	9.4	ND	9.43	04/23/10	04/26/10	
Butyl benzyl phthalate	EPA 8270C	10D2716	6.6	47	ND	9.43	04/23/10	04/26/10	
4-Chloro-3-methylphenol	EPA 8270C	10D2716	1.9	19	ND	9.43	04/23/10	04/26/10	
4-Chloroaniline	EPA 8270C	10D2716	0.94	19	ND	9.43	04/23/10	04/26/10	
Bis(2-chloroethoxy)methane	EPA 8270C	10D2716	0.94	4.7	ND	9.43	04/23/10	04/26/10	
Bis(2-chloroethyl)ether	EPA 8270C	10D2716	0.94	4.7	ND	9.43	04/23/10	04/26/10	
Bis(2-chloroisopropyl)ether	EPA 8270C	10D2716	0.94	4.7	ND	9.43	04/23/10	04/26/10	
Bis(2-ethylhexyl)phthalate	EPA 8270C	10D2716	16	47	ND	9.43	04/23/10	04/26/10	
2-Chloronaphthalene	EPA 8270C	10D2716	0.94	4.7	ND	9.43	04/23/10	04/26/10	
2-Chlorophenol	EPA 8270C	10D2716	1.9	9.4	ND	9.43	04/23/10	04/26/10	
4-Chlorophenyl phenyl ether	EPA 8270C	10D2716	0.94	4.7	ND	9.43	04/23/10	04/26/10	
Chrysene	EPA 8270C	10D2716	0.94	4.7	ND	9.43	04/23/10	04/26/10	
Dibenz(a,h)anthracene	EPA 8270C	10D2716	0.94	4.7	ND	9.43	04/23/10	04/26/10	
Dibenzofuran	EPA 8270C	10D2716	0.94	4.7	ND	9.43	04/23/10	04/26/10	
Di-n-butyl phthalate	EPA 8270C	10D2716	1.9	19	ND	9.43	04/23/10	04/26/10	
1,2-Dichlorobenzene	EPA 8270C	10D2716	0.94	4.7	ND	9.43	04/23/10	04/26/10	
1,3-Dichlorobenzene	EPA 8270C	10D2716	0.94	4.7	ND	9.43	04/23/10	04/26/10	
1,4-Dichlorobenzene	EPA 8270C	10D2716	1.9	4.7	ND	9.43	04/23/10	04/26/10	
3,3'-Dichlorobenzidine	EPA 8270C	10D2716	47	47	ND	9.43	04/23/10	04/26/10	
2,4-Dichlorophenol	EPA 8270C	10D2716	1.9	19	ND	9.43	04/23/10	04/26/10	
Diethyl phthalate	EPA 8270C	10D2716	0.94	9.4	ND	9.43	04/23/10	04/26/10	
2,4-Dimethylphenol	EPA 8270C	10D2716	2.8	19	ND	9.43	04/23/10	04/26/10	
Dimethyl phthalate	EPA 8270C	10D2716	0.94	4.7	ND	9.43	04/23/10	04/26/10	
4,6-Dinitro-2-methylphenol	EPA 8270C	10D2716	1.9	47	ND	9.43	04/23/10	04/26/10	
2,4-Dinitrophenol	EPA 8270C	10D2716	8.5	47	ND	9.43	04/23/10	04/26/10	
2,4-Dinitrotoluene	EPA 8270C	10D2716	1.9	47	ND	9.43	04/23/10	04/26/10	
2,6-Dinitrotoluene	EPA 8270C	10D2716	0.94	47	ND	9.43	04/23/10	04/26/10	
Di-n-octyl phthalate	EPA 8270C	10D2716	0.94	47	ND	9.43	04/23/10	04/26/10	
1,2-Diphenylhydrazine/Azobenzene	EPA 8270C	10D2716	0.94	9.4	ND	9.43	04/23/10	04/26/10	

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Project Manager

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Geosyntec Consultants
2100 Main Street, Suite 150
Huntington Beach, CA 92648
Attention: David Hawley

Project ID: Montrose-Torrance
SB0508-03 #01
Report Number: ITD1858

Sampled: 04/20/10
Received: 04/20/10

SEMI-VOLATILE ORGANICS BY GC/MS (EPA 8270C)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITD1858-02 (MBFB-EW-1 - Water) - cont.									
Reporting Units: ug/l									
Fluoranthene	EPA 8270C	10D2716	0.94	4.7	ND	9.43	04/23/10	04/26/10	
Fluorene	EPA 8270C	10D2716	0.94	4.7	ND	9.43	04/23/10	04/26/10	
Hexachlorobenzene	EPA 8270C	10D2716	0.94	9.4	ND	9.43	04/23/10	04/26/10	
Hexachlorobutadiene	EPA 8270C	10D2716	1.9	19	ND	9.43	04/23/10	04/26/10	
Hexachlorocyclopentadiene	EPA 8270C	10D2716	0.94	47	ND	9.43	04/23/10	04/26/10	
Hexachloroethane	EPA 8270C	10D2716	1.9	28	ND	9.43	04/23/10	04/26/10	
Indeno(1,2,3-cd)pyrene	EPA 8270C	10D2716	0.94	19	ND	9.43	04/23/10	04/26/10	
Isophorone	EPA 8270C	10D2716	0.94	9.4	ND	9.43	04/23/10	04/26/10	
2-Methylnaphthalene	EPA 8270C	10D2716	0.94	9.4	**24**	9.43	04/23/10	04/26/10	
2-Methylphenol	EPA 8270C	10D2716	0.94	19	ND	9.43	04/23/10	04/26/10	
4-Methylphenol	EPA 8270C	10D2716	1.9	47	ND	9.43	04/23/10	04/26/10	
Naphthalene	EPA 8270C	10D2716	0.94	9.4	**64**	9.43	04/23/10	04/26/10	
2-Nitroaniline	EPA 8270C	10D2716	0.94	47	ND	9.43	04/23/10	04/26/10	
3-Nitroaniline	EPA 8270C	10D2716	1.9	47	ND	9.43	04/23/10	04/26/10	
4-Nitroaniline	EPA 8270C	10D2716	4.7	47	ND	9.43	04/23/10	04/26/10	
Nitrobenzene	EPA 8270C	10D2716	0.94	9.4	ND	9.43	04/23/10	04/26/10	
2-Nitrophenol	EPA 8270C	10D2716	0.94	19	ND	9.43	04/23/10	04/26/10	
4-Nitrophenol	EPA 8270C	10D2716	24	47	ND	9.43	04/23/10	04/26/10	
N-Nitroso-di-n-propylamine	EPA 8270C	10D2716	0.94	19	ND	9.43	04/23/10	04/26/10	
N-Nitrosodimethylamine	EPA 8270C	10D2716	0.94	19	ND	9.43	04/23/10	04/26/10	
N-Nitrosodiphenylamine	EPA 8270C	10D2716	0.94	9.4	ND	9.43	04/23/10	04/26/10	
Pentachlorophenol	EPA 8270C	10D2716	0.94	19	ND	9.43	04/23/10	04/26/10	
Phenanthrene	EPA 8270C	10D2716	0.94	4.7	ND	9.43	04/23/10	04/26/10	
Phenol	EPA 8270C	10D2716	2.8	9.4	**12**	9.43	04/23/10	04/26/10	
Pyrene	EPA 8270C	10D2716	0.94	4.7	ND	9.43	04/23/10	04/26/10	
1,2,4-Trichlorobenzene	EPA 8270C	10D2716	0.94	9.4	ND	9.43	04/23/10	04/26/10	
2,4,5-Trichlorophenol	EPA 8270C	10D2716	1.9	19	ND	9.43	04/23/10	04/26/10	
2,4,6-Trichlorophenol	EPA 8270C	10D2716	0.94	9.4	ND	9.43	04/23/10	04/26/10	
Surrogate: 2,4,6-Tribromophenol (40-120%)					*82 %*				
Surrogate: 2-Fluorobiphenyl (50-120%)					*88 %*				
Surrogate: 2-Fluorophenol (30-120%)					*115 %*				
Surrogate: Nitrobenzene-d5 (45-120%)					*210 %*				*ZX*
Surrogate: Phenol-d6 (35-120%)					*63 %*				
Surrogate: Terphenyl-d14 (50-125%)					*88 %*				

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Project Manager

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Attention: David Hawley

Project ID: Montrose-Torrance
SB0508-03 #01
Report Number: ITD1858

Sampled: 04/20/10
Received: 04/20/10

ORGANOCHLORINE PESTICIDES (EPA 3510C/8081A)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITD1858-01 (BF-EW-1 - Water)									
Reporting Units: ug/l									
2,4'-DDD	EPA 3510C/8081A	10D2584	0.019	0.094	ND	0.943	04/22/10	04/22/10	
2,4'-DDE	EPA 3510C/8081A	10D2584	0.019	0.094	ND	0.943	04/22/10	04/22/10	
2,4'-DDT	EPA 3510C/8081A	10D2584	0.019	0.094	ND	0.943	04/22/10	04/22/10	
4,4'-DDD	EPA 3510C/8081A	10D2584	0.028	0.094	ND	0.943	04/22/10	04/22/10	
4,4'-DDE	EPA 3510C/8081A	10D2584	0.028	0.094	ND	0.943	04/22/10	04/22/10	
4,4'-DDT	EPA 3510C/8081A	10D2584	0.028	0.094	ND	0.943	04/22/10	04/22/10	
Aldrin	EPA 3510C/8081A	10D2584	0.028	0.094	ND	0.943	04/22/10	04/22/10	
alpha-BHC	EPA 3510C/8081A	10D2584	0.019	0.094	**0.28**	0.943	04/22/10	04/22/10	
delta-BHC	EPA 3510C/8081A	10D2584	0.019	0.19	ND	0.943	04/22/10	04/22/10	
Dieldrin	EPA 3510C/8081A	10D2584	0.028	0.094	ND	0.943	04/22/10	04/22/10	
Endosulfan I	EPA 3510C/8081A	10D2584	0.028	0.094	ND	0.943	04/22/10	04/22/10	
Endosulfan II	EPA 3510C/8081A	10D2584	0.038	0.094	ND	0.943	04/22/10	04/22/10	
Endosulfan sulfate	EPA 3510C/8081A	10D2584	0.047	0.19	ND	0.943	04/22/10	04/22/10	
Endrin	EPA 3510C/8081A	10D2584	0.028	0.094	ND	0.943	04/22/10	04/22/10	
Endrin aldehyde	EPA 3510C/8081A	10D2584	0.047	0.094	ND	0.943	04/22/10	04/22/10	
Endrin ketone	EPA 3510C/8081A	10D2584	0.038	0.094	ND	0.943	04/22/10	04/22/10	
gamma-BHC (Lindane)	EPA 3510C/8081A	10D2584	0.028	0.094	**0.58**	0.943	04/22/10	04/22/10	
Heptachlor	EPA 3510C/8081A	10D2584	0.028	0.094	ND	0.943	04/22/10	04/22/10	
Heptachlor epoxide	EPA 3510C/8081A	10D2584	0.028	0.094	ND	0.943	04/22/10	04/22/10	
Methoxychlor	EPA 3510C/8081A	10D2584	0.038	0.094	ND	0.943	04/22/10	04/22/10	
Chlordane	EPA 3510C/8081A	10D2584	0.28	0.94	ND	0.943	04/22/10	04/22/10	
Toxaphene	EPA 3510C/8081A	10D2584	0.75	4.7	ND	0.943	04/22/10	04/22/10	
Surrogate: Decachlorobiphenyl (45-120%)					*80 %*				
Surrogate: Tetrachloro-m-xylene (35-120%)					*69 %*				
Sample ID: ITD1858-01RE1 (BF-EW-1 - Water)									
Reporting Units: ug/l									
beta-BHC	EPA 3510C/8081A	10D2584	0.11	0.28	**1.2**	2.83	04/22/10	04/23/10	
Surrogate: Decachlorobiphenyl (45-120%)					*82 %*				
Surrogate: Tetrachloro-m-xylene (35-120%)					*69 %*				

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Project Manager

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Geosyntec Consultants
2100 Main Street, Suite 150
Huntington Beach, CA 92648
Attention: David Hawley

Project ID: Montrose-Torrance
SB0508-03 #01
Report Number: ITD1858

Sampled: 04/20/10
Received: 04/20/10

ORGANOCHLORINE PESTICIDES (EPA 3510C/8081A)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITD1858-02 (MBFB-EW-1 - Water)									
Reporting Units: ug/l									
2,4'-DDD	EPA 3510C/8081A	10D2584	0.019	0.094	ND	0.943	04/22/10	04/22/10	
2,4'-DDE	EPA 3510C/8081A	10D2584	0.019	0.094	ND	0.943	04/22/10	04/22/10	
2,4'-DDT	EPA 3510C/8081A	10D2584	0.019	0.094	ND	0.943	04/22/10	04/22/10	
4,4'-DDD	EPA 3510C/8081A	10D2584	0.028	0.094	ND	0.943	04/22/10	04/22/10	
4,4'-DDE	EPA 3510C/8081A	10D2584	0.028	0.094	ND	0.943	04/22/10	04/22/10	
4,4'-DDT	EPA 3510C/8081A	10D2584	0.028	0.094	ND	0.943	04/22/10	04/22/10	
Aldrin	EPA 3510C/8081A	10D2584	0.028	0.094	ND	0.943	04/22/10	04/22/10	
alpha-BHC	EPA 3510C/8081A	10D2584	0.019	0.094	**0.20**	0.943	04/22/10	04/22/10	R-10
beta-BHC	EPA 3510C/8081A	10D2584	0.038	0.094	**0.35**	0.943	04/22/10	04/22/10	
delta-BHC	EPA 3510C/8081A	10D2584	0.019	0.19	ND	0.943	04/22/10	04/22/10	
Dieldrin	EPA 3510C/8081A	10D2584	0.028	0.094	ND	0.943	04/22/10	04/22/10	
Endosulfan I	EPA 3510C/8081A	10D2584	0.028	0.094	ND	0.943	04/22/10	04/22/10	
Endosulfan II	EPA 3510C/8081A	10D2584	0.038	0.094	ND	0.943	04/22/10	04/22/10	
Endosulfan sulfate	EPA 3510C/8081A	10D2584	0.047	0.19	ND	0.943	04/22/10	04/22/10	
Endrin	EPA 3510C/8081A	10D2584	0.028	0.094	ND	0.943	04/22/10	04/22/10	
Endrin aldehyde	EPA 3510C/8081A	10D2584	0.047	0.094	ND	0.943	04/22/10	04/22/10	
Endrin ketone	EPA 3510C/8081A	10D2584	0.038	0.094	ND	0.943	04/22/10	04/22/10	
gamma-BHC (Lindane)	EPA 3510C/8081A	10D2584	0.028	0.094	ND	0.943	04/22/10	04/22/10	
Heptachlor	EPA 3510C/8081A	10D2584	0.028	0.094	ND	0.943	04/22/10	04/22/10	
Heptachlor epoxide	EPA 3510C/8081A	10D2584	0.028	0.094	ND	0.943	04/22/10	04/22/10	
Methoxychlor	EPA 3510C/8081A	10D2584	0.038	0.094	ND	0.943	04/22/10	04/22/10	
Chlordane	EPA 3510C/8081A	10D2584	0.28	0.94	ND	0.943	04/22/10	04/22/10	
Toxaphene	EPA 3510C/8081A	10D2584	0.75	4.7	ND	0.943	04/22/10	04/22/10	
Surrogate: Decachlorobiphenyl (45-120%)					*81 %*				
Surrogate: Tetrachloro-m-xylene (35-120%)					*107 %*				

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Project Manager

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Geosyntec Consultants
2100 Main Street, Suite 150
Huntington Beach, CA 92648
Attention: David Hawley

Project ID: Montrose-Torrance
SB0508-03 #01
Report Number: ITD1858

Sampled: 04/20/10
Received: 04/20/10

POLYCHLORINATED BIPHENYLS (EPA 3510C/8082)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITD1858-01 (BF-EW-1 - Water)									
Reporting Units: ug/l									
Aroclor 1016	EPA 8082	10D2584	0.24	0.94	ND	0.943	04/22/10	04/22/10	
Aroclor 1221	EPA 8082	10D2584	0.24	0.94	ND	0.943	04/22/10	04/22/10	
Aroclor 1232	EPA 8082	10D2584	0.24	0.94	ND	0.943	04/22/10	04/22/10	
Aroclor 1242	EPA 8082	10D2584	0.24	0.94	ND	0.943	04/22/10	04/22/10	
Aroclor 1248	EPA 8082	10D2584	0.24	0.94	ND	0.943	04/22/10	04/22/10	
Aroclor 1254	EPA 8082	10D2584	0.24	0.94	ND	0.943	04/22/10	04/22/10	
Aroclor 1260	EPA 8082	10D2584	0.24	0.94	ND	0.943	04/22/10	04/22/10	
Surrogate: Decachlorobiphenyl (45-120%)					*98 %*				
Sample ID: ITD1858-02 (MBFB-EW-1 - Water)									
Reporting Units: ug/l									
Aroclor 1016	EPA 8082	10D2584	0.24	0.94	ND	0.943	04/22/10	04/22/10	
Aroclor 1221	EPA 8082	10D2584	0.24	0.94	ND	0.943	04/22/10	04/22/10	
Aroclor 1232	EPA 8082	10D2584	0.24	0.94	ND	0.943	04/22/10	04/22/10	
Aroclor 1242	EPA 8082	10D2584	0.24	0.94	ND	0.943	04/22/10	04/22/10	
Aroclor 1248	EPA 8082	10D2584	0.24	0.94	ND	0.943	04/22/10	04/22/10	
Aroclor 1254	EPA 8082	10D2584	0.24	0.94	ND	0.943	04/22/10	04/22/10	
Aroclor 1260	EPA 8082	10D2584	0.24	0.94	ND	0.943	04/22/10	04/22/10	
Surrogate: Decachlorobiphenyl (45-120%)					*97 %*				

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Project Manager

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Geosyntec Consultants
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Huntington Beach, CA 92648
Attention: David Hawley

Project ID: Montrose-Torrance
SB0508-03 #01
Report Number: ITD1858

Sampled: 04/20/10
Received: 04/20/10

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITD1858-01 (BF-EW-1 - Water)									
Reporting Units: mg/l									
Hardness (as CaCO3)	SM2340B	[CALC]	N/A	0.33	**640**	1	04/22/10	04/22/10	
Hardness (as CaCO3)	SM2340B	[CALC]	N/A	0.33	**640**	1	04/22/10	04/22/10	
Silicon (as SiO2)	EPA 6010B	[CALC]	N/A	0.11	**27**	1	04/22/10	04/22/10	
Aluminum	EPA 6010B	10D2590	0.040	0.050	ND	1	04/22/10	04/22/10	
Mercury	EPA 7470A	10D2432	0.00010	0.00020	ND	1	04/21/10	04/21/10	
Boron	EPA 6010B	10D2590	0.020	0.050	**0.16**	1	04/22/10	04/22/10	
Calcium	EPA 6010B	10D2590	0.050	0.10	**180**	1	04/22/10	04/22/10	MHA
Copper	EPA 6010B	10D2590	0.0030	0.010	ND	1	04/22/10	04/22/10	
Iron	EPA 6010B	10D2590	0.015	0.040	**0.35**	1	04/22/10	04/22/10	
Magnesium	EPA 6010B	10D2590	0.012	0.020	**47**	1	04/22/10	04/22/10	MHA
Manganese	EPA 6010B	10D2590	0.0070	0.020	**0.45**	1	04/22/10	04/22/10	
Potassium	EPA 6010B	10D2590	0.37	0.50	**9.4**	1	04/22/10	04/22/10	
Silicon	EPA 6010B	10D2590	0.013	0.050	**13**	1	04/22/10	04/22/10	
Sodium	EPA 6010B	10D2590	0.19	0.50	**100**	1	04/22/10	04/22/10	MHA
Zinc	EPA 6010B	10D2590	0.0060	0.020	ND	1	04/22/10	04/22/10	
Sample ID: ITD1858-02 (MBFB-EW-1 - Water)									
Reporting Units: mg/l									
Hardness (as CaCO3)	SM2340B	[CALC]	N/A	0.33	**1300**	1	04/22/10	04/22/10	
Hardness (as CaCO3)	SM2340B	[CALC]	N/A	0.33	**1300**	1	04/22/10	04/22/10	
Silicon (as SiO2)	EPA 6010B	[CALC]	N/A	0.11	**54**	1	04/22/10	04/22/10	
Aluminum	EPA 6010B	10D2590	0.040	0.050	ND	1	04/22/10	04/22/10	
Mercury	EPA 7470A	10D2432	0.00010	0.00020	ND	1	04/21/10	04/21/10	
Boron	EPA 6010B	10D2590	0.020	0.050	**0.38**	1	04/22/10	04/22/10	
Calcium	EPA 6010B	10D2590	0.050	0.10	**320**	1	04/22/10	04/22/10	
Copper	EPA 6010B	10D2590	0.0030	0.010	ND	1	04/22/10	04/22/10	
Iron	EPA 6010B	10D2590	0.015	0.040	**18**	1	04/22/10	04/22/10	
Magnesium	EPA 6010B	10D2590	0.012	0.020	**130**	1	04/22/10	04/22/10	
Manganese	EPA 6010B	10D2590	0.0070	0.020	**6.1**	1	04/22/10	04/22/10	
Potassium	EPA 6010B	10D2590	0.37	0.50	**8.1**	1	04/22/10	04/22/10	
Silicon	EPA 6010B	10D2590	0.013	0.050	**25**	1	04/22/10	04/22/10	
Sodium	EPA 6010B	10D2590	0.19	0.50	**290**	1	04/22/10	04/22/10	
Zinc	EPA 6010B	10D2590	0.0060	0.020	ND	1	04/22/10	04/22/10	

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Project Manager

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Geosyntec Consultants
2100 Main Street, Suite 150
Huntington Beach, CA 92648
Attention: David Hawley

Project ID: Montrose-Torrance SB0508-03 #01
Report Number: ITD1858

Sampled: 04/20/10
Received: 04/20/10

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITD1858-01 (BF-EW-1 - Water)									
Reporting Units: ug/l									
Chromium III	[CALC]	[CALC]	1.2	4.0	**2.1**	1	04/21/10	04/21/10	
Chromium	EPA 6020	10D2394	0.90	2.0	**2.1**	1	04/21/10	04/21/10	
Sample ID: ITD1858-02 (MBFB-EW-1 - Water)									
Reporting Units: ug/l									
Chromium III	[CALC]	[CALC]	1.2	4.0	**1.6**	1	04/21/10	04/21/10	
Chromium	EPA 6020	10D2394	0.90	2.0	**1.6**	1	04/21/10	04/21/10	J

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Project ID: Montrose-Torrance
SB0508-03 #01
Report Number: ITD1858

Sampled: 04/20/10
Received: 04/20/10

DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITD1858-01 (BF-EW-1 - Water)									
Reporting Units: mg/l									
Mercury	EPA 7470A-Diss	10D2587	0.00010	0.00020	ND	1	04/22/10	04/22/10	
Sample ID: ITD1858-02 (MBFB-EW-1 - Water)									
Reporting Units: mg/l									
Mercury	EPA 7470A-Diss	10D2587	0.00010	0.00020	ND	1	04/22/10	04/22/10	
Sample ID: ITD1858-01 (BF-EW-1 - Water)									
Reporting Units: ug/l									
Antimony	EPA 6020-Diss	10D2592	0.30	2.0	**0.39**	1	04/22/10	04/22/10	J
Arsenic	EPA 6020-Diss	10D2592	0.90	1.0	**4.4**	1	04/22/10	04/22/10	
Barium	EPA 6020-Diss	10D2592	0.30	1.0	**52**	1	04/22/10	04/22/10	
Beryllium	EPA 6020-Diss	10D2592	0.10	0.50	ND	1	04/22/10	04/22/10	
Cadmium	EPA 6020-Diss	10D2592	0.10	1.0	ND	1	04/22/10	04/22/10	
Chromium	EPA 6020-Diss	10D2592	0.90	2.0	ND	1	04/22/10	04/22/10	
Cobalt	EPA 6020-Diss	10D2592	0.10	1.0	**0.84**	1	04/22/10	04/22/10	J
Copper	EPA 6020-Diss	10D2592	0.50	2.0	**0.96**	1	04/22/10	04/22/10	J
Lead	EPA 6020-Diss	10D2592	0.20	1.0	ND	1	04/22/10	04/23/10	
Molybdenum	EPA 6020-Diss	10D2592	0.20	2.0	**2.9**	1	04/22/10	04/22/10	
Nickel	EPA 6020-Diss	10D2592	0.50	2.0	**0.61**	1	04/22/10	04/22/10	J
Selenium	EPA 6020-Diss	10D2592	0.50	2.0	**1.4**	1	04/22/10	04/22/10	J
Silver	EPA 6020-Diss	10D2592	0.10	1.0	ND	1	04/22/10	04/22/10	C
Thallium	EPA 6020-Diss	10D2592	0.20	1.0	ND	1	04/22/10	04/23/10	
Vanadium	EPA 6020-Diss	10D2592	0.80	2.0	**1.8**	1	04/22/10	04/22/10	J
Zinc	EPA 6020-Diss	10D2592	5.0	20	ND	1	04/22/10	04/22/10	
Sample ID: ITD1858-02 (MBFB-EW-1 - Water)									
Reporting Units: ug/l									
Antimony	EPA 6020-Diss	10D2592	0.30	2.0	**0.66**	1	04/22/10	04/22/10	J
Arsenic	EPA 6020-Diss	10D2592	0.90	1.0	**340**	1	04/22/10	04/22/10	
Barium	EPA 6020-Diss	10D2592	0.30	1.0	**440**	1	04/22/10	04/22/10	
Beryllium	EPA 6020-Diss	10D2592	0.10	0.50	ND	1	04/22/10	04/22/10	
Cadmium	EPA 6020-Diss	10D2592	0.10	1.0	ND	1	04/22/10	04/22/10	
Chromium	EPA 6020-Diss	10D2592	0.90	2.0	ND	1	04/22/10	04/22/10	
Cobalt	EPA 6020-Diss	10D2592	0.10	1.0	**1.2**	1	04/22/10	04/22/10	
Copper	EPA 6020-Diss	10D2592	0.50	2.0	**0.77**	1	04/22/10	04/22/10	J
Lead	EPA 6020-Diss	10D2592	0.20	1.0	**0.20**	1	04/22/10	04/23/10	J
Molybdenum	EPA 6020-Diss	10D2592	0.20	2.0	**5.6**	1	04/22/10	04/22/10	
Nickel	EPA 6020-Diss	10D2592	0.50	2.0	ND	1	04/22/10	04/22/10	
Selenium	EPA 6020-Diss	10D2592	0.50	2.0	**6.0**	1	04/22/10	04/22/10	
Silver	EPA 6020-Diss	10D2592	0.10	1.0	ND	1	04/22/10	04/22/10	C
Thallium	EPA 6020-Diss	10D2592	0.20	1.0	ND	1	04/22/10	04/23/10	
Vanadium	EPA 6020-Diss	10D2592	0.80	2.0	**1.3**	1	04/22/10	04/22/10	J
Zinc	EPA 6020-Diss	10D2592	5.0	20	ND	1	04/22/10	04/22/10	

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Geosyntec Consultants	Project ID:	Montrose-Torrance SB0508-03 #01	
2100 Main Street, Suite 150			Sampled: 04/20/10
Huntington Beach, CA 92648	Report Number:	ITD1858	Received: 04/20/10
Attention: David Hawley			

INORGANICS (EPA 300.1)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITD1858-01 (BF-EW-1 - Water)									
Reporting Units: ug/l									
Bromate	EPA 300.1	10D2567	10	25	**18**	5	04/22/10	04/22/10	RL1, J
Surrogate: Dichloroacetate (DCA) (90-115%)					*82 %*				*Z*
Sample ID: ITD1858-02 (MBFB-EW-1 - Water)									
Reporting Units: ug/l									
Bromate	EPA 300.1	10D2567	40	100	ND	20	04/22/10	04/22/10	RL1
Surrogate: Dichloroacetate (DCA) (90-115%)					*93 %*				

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Attention: David Hawley

Project ID: Montrose-Torrance SB0508-03 #01
Report Number: ITD1858

Sampled: 04/20/10
Received: 04/20/10

DISSOLVED INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITD1858-01 (BF-EW-1 - Water)									
Reporting Units: mg/l									
Chromium VI	EPA 7199	10D2242	0.00025	0.0020	ND	1	04/20/10	04/20/10	
Sample ID: ITD1858-02 (MBFB-EW-1 - Water)									
Reporting Units: mg/l									
Chromium VI	EPA 7199	10D2242	0.00025	0.0020	ND	1	04/20/10	04/20/10	

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Geosyntec Consultants
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Huntington Beach, CA 92648
Attention: David Hawley

Project ID: Montrose-Torrance
SB0508-03 #01
Report Number: ITD1858

Sampled: 04/20/10
Received: 04/20/10

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITD1858-01 (BF-EW-1 - Water)									
Reporting Units: Color Units									
Color	SM2120B	10D2373	1.0	1.0	**7.5**	1	04/21/10	04/21/10	pHa
Sample ID: ITD1858-02 (MBFB-EW-1 - Water)									
Reporting Units: Color Units									
Color	SM2120B	10D2373	5.0	5.0	**88**	5	04/21/10	04/21/10	pH
Sample ID: ITD1858-01 (BF-EW-1 - Water)									
Reporting Units: mg/l									
Dissolved Nitrogen	[CALC]	[CALC]	N/A	0.26	ND	1	04/20/10	04/20/10	
Alkalinity as CaCO3	SM2320B	10D2550	2.0	2.0	**230**	1	04/22/10	04/22/10	
Bicarbonate Alkalinity as CaCO3	SM2320B	10D2550	2.0	2.0	**230**	1	04/22/10	04/22/10	
Carbonate Alkalinity as CaCO3	SM2320B	10D2550	2.0	2.0	ND	1	04/22/10	04/22/10	
Hydroxide Alkalinity as CaCO3	SM2320B	10D2550	2.0	2.0	ND	1	04/22/10	04/22/10	
Ammonia-N	SM4500NH3-D	10D2599	0.10	0.50	ND	1	04/22/10	04/22/10	
Ferrous Iron	SM 3500-Fe D	10D2374	0.10	0.10	**0.10**	1	04/21/10	04/21/10	HFT
Bromide	EPA 300.0	10D2194	0.35	0.50	**0.92**	1	04/20/10	04/20/10	
Chemical Oxygen Demand	SM5220D	10D2605	16	20	**210**	1	04/22/10	04/22/10	
Chloride	EPA 300.0	10D2194	2.5	5.0	**240**	10	04/20/10	04/20/10	
Total Cyanide	SM4500CN-E	10D2448	0.017	0.025	ND	1	04/21/10	04/21/10	
Dissolved Sulfide	SM4500-S D	10D2450	0.020	0.10	**0.021**	1	04/20/10	04/21/10	HFT, J
Fluoride	EPA 300.0	10D2192	0.15	0.50	**0.26**	1	04/20/10	04/21/10	J
Sulfide as H2S	SM4500-S, F	10D2641	0.024	0.10	ND	1	04/22/10	04/22/10	
Nitrate-N	EPA 300.0	10D2194	0.060	0.11	ND	1	04/20/10	04/20/10	
Nitrate-NO3	EPA 300.0	10D2194	0.25	0.50	ND	1	04/20/10	04/20/10	
Nitrite-N	EPA 300.0	10D2194	0.090	0.15	ND	1	04/20/10	04/20/10	
Nitrite-NO2	EPA 300.0	10D2194	0.30	0.50	ND	1	04/20/10	04/20/10	
Orthophosphate - P	EPA 365.3	10D2359	0.010	0.025	ND	0.5	04/21/10	04/21/10	
Phosphate (PO4)	EPA 365.3	10D2604	0.060	0.15	ND	1	04/22/10	04/22/10	
Sulfate	EPA 300.0	10D2194	2.0	5.0	**290**	10	04/20/10	04/20/10	
Surfactants (MBAS)	SM5540-C	10D2288	0.50	1.0	**3.7**	10	04/20/10	04/20/10	
Total Dissolved Solids	SM2540C	10D2544	1.0	10	**1200**	1	04/22/10	04/22/10	
Total Organic Carbon	SM5310B	10D3037	2.5	5.0	**62**	5	04/27/10	04/27/10	
Total Suspended Solids	SM 2540D	10D2594	1.0	10	**3.0**	1	04/22/10	04/22/10	J

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Geosyntec Consultants
2100 Main Street, Suite 150
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Attention: David Hawley

Project ID: Montrose-Torrance
SB0508-03 #01
Report Number: ITD1858

Sampled: 04/20/10
Received: 04/20/10

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITD1858-02 (MBFB-EW-1 - Water)									
Reporting Units: mg/l									
Dissolved Nitrogen	[CALC]	[CALC]	N/A	1.6	ND	10	04/20/10	04/20/10	
Alkalinity as CaCO3	SM2320B	10D2550	2.0	2.0	**730**	1	04/22/10	04/22/10	
Bicarbonate Alkalinity as CaCO3	SM2320B	10D2550	2.0	2.0	**730**	1	04/22/10	04/22/10	
Carbonate Alkalinity as CaCO3	SM2320B	10D2550	2.0	2.0	ND	1	04/22/10	04/22/10	
Hydroxide Alkalinity as CaCO3	SM2320B	10D2550	2.0	2.0	ND	1	04/22/10	04/22/10	
Ammonia-N	SM4500NH3-D	10D2599	0.10	0.50	ND	1	04/22/10	04/22/10	
Ferrous Iron	SM 3500-Fe D	10D2374	0.20	0.20	**12**	2	04/21/10	04/21/10	HFT
Bromide	EPA 300.0	10D2194	0.35	0.50	**3.3**	1	04/20/10	04/20/10	
Chemical Oxygen Demand	SM5220D	10D2605	16	20	**110**	1	04/22/10	04/22/10	
Chloride	EPA 300.0	10D2194	25	50	**840**	100	04/20/10	04/20/10	
Total Cyanide	SM4500CN-E	10D2448	0.017	0.025	ND	1	04/21/10	04/21/10	
Dissolved Sulfide	SM4500-S D	10D2450	0.020	0.10	**0.021**	1	04/20/10	04/21/10	HFT, J
Fluoride	EPA 300.0	10D2192	0.15	0.50	**0.45**	1	04/20/10	04/21/10	J
Sulfide as H2S	SM4500-S, F	10D2641	0.024	0.10	ND	1	04/22/10	04/22/10	
Nitrate-N	EPA 300.0	10D2194	0.060	0.11	ND	1	04/20/10	04/20/10	
Nitrate-NO3	EPA 300.0	10D2194	0.25	0.50	ND	1	04/20/10	04/20/10	
Nitrite-N	EPA 300.0	10D2194	0.90	1.5	ND	10	04/20/10	04/20/10	RL1
Nitrite-NO2	EPA 300.0	10D2194	3.0	5.0	ND	10	04/20/10	04/20/10	RL1
Orthophosphate - P	EPA 365.3	10D2359	0.010	0.025	ND	0.5	04/21/10	04/21/10	
Phosphate (PO4)	EPA 365.3	10D2604	0.060	0.15	**0.17**	1	04/22/10	04/22/10	
Sulfate	EPA 300.0	10D2194	0.20	0.50	**37**	1	04/20/10	04/20/10	
Surfactants (MBAS)	SM5540-C	10D2288	0.50	1.0	**1.4**	10	04/20/10	04/20/10	
Total Dissolved Solids	SM2540C	10D2544	2.0	20	**2300**	1	04/22/10	04/22/10	
Total Organic Carbon	SM5310B	10D3037	0.50	1.0	**22**	1	04/27/10	04/27/10	
Total Suspended Solids	SM 2540D	10D2594	1.0	10	**29**	1	04/22/10	04/22/10	

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Geosyntec Consultants
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Huntington Beach, CA 92648
Attention: David Hawley

Project ID: Montrose-Torrance SB0508-03 #01
Report Number: ITD1858

Sampled: 04/20/10
Received: 04/20/10

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITD1858-01 (BF-EW-1 - Water)									
Reporting Units: pH Units									
pH	SM4500-H,B	10D2377	N/A	0.100	**7.38**	1	04/21/10	04/21/10	HFT
Sample ID: ITD1858-02 (MBFB-EW-1 - Water)									
Reporting Units: pH Units									
pH	SM4500-H,B	10D2377	N/A	0.100	**7.00**	1	04/21/10	04/21/10	HFT
Sample ID: ITD1858-01 (BF-EW-1 - Water)									
Reporting Units: T.O.N.									
Odor	SM2150B	10D2457	1.0	1.0	**24**	1	04/21/10	04/21/10	
Sample ID: ITD1858-02 (MBFB-EW-1 - Water)									
Reporting Units: T.O.N.									
Odor	SM2150B	10D2457	1.0	1.0	**1300**	1	04/21/10	04/21/10	
Sample ID: ITD1858-01 (BF-EW-1 - Water)									
Reporting Units: ug/l									
4-Chlorobenzenesulfonic acid	EPA 314.0 MOD.	10D2532	40000	100000	**120000**	10000	04/22/10	04/22/10	
Sample ID: ITD1858-02 (MBFB-EW-1 - Water)									
Reporting Units: ug/l									
4-Chlorobenzenesulfonic acid	EPA 314.0 MOD.	10D2532	4000	10000	**18000**	1000	04/22/10	04/22/10	
Sample ID: ITD1858-01 (BF-EW-1 - Water)									
Reporting Units: umhos/cm @ 25C									
Specific Conductance	SM2510B	10D2589	1.0	1.0	**1500**	1	04/22/10	04/22/10	
Sample ID: ITD1858-02 (MBFB-EW-1 - Water)									
Reporting Units: umhos/cm @ 25C									
Specific Conductance	SM2510B	10D2589	1.0	1.0	**3500**	1	04/22/10	04/22/10	

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Report Number: ITD1858

Sampled: 04/20/10
Received: 04/20/10

RSK SOP-175 - Dissolved Gases in Water

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITD1858-01 (BF-EW-1 - Water)									
Reporting Units: ug/L									
Carbon dioxide	RSK SOP-175	10D0148	70	170	**28000**	1.0	04/21/10	04/22/10	
Ethane	RSK SOP-175	10D0149	0.50	1.0	ND	1.0	04/21/10	04/22/10	
Ethene	RSK SOP-175	10D0149	0.53	1.0	ND	1.0	04/21/10	04/22/10	
Methane	RSK SOP-175	10D0149	0.50	1.0	**4.5**	1.0	04/21/10	04/22/10	
Sample ID: ITD1858-02 (MBFB-EW-1 - Water)									
Reporting Units: ug/L									
Carbon dioxide	RSK SOP-175	10D0148	70	170	**200000**	1.0	04/21/10	04/22/10	
Ethane	RSK SOP-175	10D0149	0.50	1.0	ND	1.0	04/21/10	04/22/10	
Ethene	RSK SOP-175	10D0149	0.53	1.0	ND	1.0	04/21/10	04/22/10	
Methane	RSK SOP-175	10D0149	0.50	1.0	**12**	1.0	04/21/10	04/22/10	

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Sampled: 04/20/10
Received: 04/20/10

SM 4500-NORG C

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITD1858-01 (BF-EW-1 - Water)									
Reporting Units: MG/L									
TOTAL KJELDAHL NITROGEN	SM 4500-NORG C	100427TKN1	N/A	0.3	**< 0.3**	1	04/27/10	04/27/10	
Sample ID: ITD1858-02 (MBFB-EW-1 - Water)									
Reporting Units: MG/L									
TOTAL KJELDAHL NITROGEN	SM 4500-NORG C	100427TKN1	N/A	0.3	**< 0.3**	1	04/27/10	04/27/10	

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Sampled: 04/20/10
Received: 04/20/10

SHORT HOLD TIME DETAIL REPORT

	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
Sample ID: BF-EW-1 (ITD1858-01) - Water					
[CALC]	1	04/20/2010 10:00	04/20/2010 17:05	04/21/2010 12:01	04/21/2010 23:02
Dissolved Nitrogen				04/20/2010 20:00	04/20/2010 21:38
EPA 300.0	2	04/20/2010 10:00	04/20/2010 17:05	04/20/2010 20:00	04/20/2010 21:38
EPA 365.3	2	04/20/2010 10:00	04/20/2010 17:05	04/21/2010 09:00	04/21/2010 09:36
EPA 7199	1	04/20/2010 10:00	04/20/2010 17:05	04/20/2010 19:05	04/20/2010 19:08
Filtration	1	04/20/2010 10:00	04/20/2010 17:05	04/20/2010 21:30	04/20/2010 21:30
SM 3500-Fe D	1	04/20/2010 10:00	04/20/2010 17:05	04/21/2010 09:20	04/21/2010 09:20
SM2120B	2	04/20/2010 10:00	04/20/2010 17:05	04/21/2010 11:30	04/21/2010 11:30
SM2150B	1	04/20/2010 10:00	04/20/2010 17:05	04/21/2010 07:00	04/21/2010 07:00
SM4500-H,B	0	04/20/2010 10:00	04/20/2010 17:05	04/21/2010 13:40	04/21/2010 13:40
SM4500-S D	1	04/20/2010 10:00	04/20/2010 17:05	04/20/2010 20:20	04/21/2010 16:58
SM5540-C	2	04/20/2010 10:00	04/20/2010 17:05	04/20/2010 20:00	04/20/2010 21:18
Sample ID: MBFB-EW-1 (ITD1858-02) - Water					
[CALC]	1	04/20/2010 11:34	04/20/2010 17:05	04/21/2010 12:01	04/21/2010 23:18
Dissolved Nitrogen				04/20/2010 20:00	04/20/2010 23:59
EPA 300.0	2	04/20/2010 11:34	04/20/2010 17:05	04/20/2010 20:00	04/20/2010 21:55
Nitrite-N				04/20/2010 20:00	04/20/2010 23:59
Nitrite-NO2				04/20/2010 20:00	04/20/2010 23:59
EPA 365.3	2	04/20/2010 11:34	04/20/2010 17:05	04/21/2010 09:00	04/21/2010 09:36
EPA 7199	1	04/20/2010 11:34	04/20/2010 17:05	04/20/2010 19:05	04/20/2010 19:19
Filtration	1	04/20/2010 11:34	04/20/2010 17:05	04/20/2010 21:30	04/20/2010 21:30
SM 3500-Fe D	1	04/20/2010 11:34	04/20/2010 17:05	04/21/2010 09:20	04/21/2010 09:20
SM2120B	2	04/20/2010 11:34	04/20/2010 17:05	04/21/2010 11:30	04/21/2010 11:30
SM2150B	1	04/20/2010 11:34	04/20/2010 17:05	04/21/2010 07:00	04/21/2010 07:00
SM4500-H,B	0	04/20/2010 11:34	04/20/2010 17:05	04/21/2010 13:40	04/21/2010 13:40
SM4500-S D	1	04/20/2010 11:34	04/20/2010 17:05	04/20/2010 20:20	04/21/2010 16:58
SM5540-C	2	04/20/2010 11:34	04/20/2010 17:05	04/20/2010 20:00	04/20/2010 21:18

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Project ID: Montrose-Torrance SB0508-03 #01
Report Number: ITD1858

Sampled: 04/20/10
Received: 04/20/10

METHOD BLANK/QC DATA

VOLATILE ORGANICS--GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10D2509 Extracted: 04/22/10											
Blank Analyzed: 04/22/2010 (10D2509-BLK1)											
Acrolein	ND	50	4.0	ug/l							
Acrylonitrile	ND	50	1.2	ug/l							
Surrogate: 4-Bromofluorobenzene	*25.2*			*ug/l*	*25.0*		*101*	*80-120*			
Surrogate: Dibromofluoromethane	*24.6*			*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: Toluene-d8	*26.6*			*ug/l*	*25.0*		*107*	*80-120*			
Batch: 10D2530 Extracted: 04/22/10											
Blank Analyzed: 04/22/2010 (10D2530-BLK1)											
Acrolein	ND	50	4.0	ug/l							
Acrylonitrile	ND	50	1.2	ug/l							
Surrogate: 4-Bromofluorobenzene	*26.1*			*ug/l*	*25.0*		*105*	*80-120*			
Surrogate: Dibromofluoromethane	*27.8*			*ug/l*	*25.0*		*111*	*80-120*			
Surrogate: Toluene-d8	*27.6*			*ug/l*	*25.0*		*111*	*80-120*			

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Received: 04/20/10

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10D2509 Extracted: 04/22/10											
Blank Analyzed: 04/22/2010 (10D2509-BLK1)											
Acetone	ND	10	4.5	ug/l							
Benzene	ND	2.0	0.28	ug/l							
Bromobenzene	ND	5.0	0.27	ug/l							
Bromochloromethane	ND	5.0	0.40	ug/l							
Bromodichloromethane	ND	2.0	0.30	ug/l							
Bromoform	ND	5.0	0.40	ug/l							
Bromomethane	ND	5.0	0.42	ug/l							
2-Butanone (MEK)	ND	10	4.7	ug/l							
n-Butylbenzene	ND	5.0	0.37	ug/l							
sec-Butylbenzene	ND	5.0	0.25	ug/l							
tert-Butylbenzene	ND	5.0	0.22	ug/l							
Carbon Disulfide	ND	1.0	0.48	ug/l							
Carbon tetrachloride	ND	0.50	0.28	ug/l							
Chlorobenzene	ND	2.0	0.36	ug/l							
Chloroethane	ND	5.0	0.40	ug/l							
Chloroform	ND	2.0	0.33	ug/l							
Chloromethane	ND	1.5	0.40	ug/l							
2-Chlorotoluene	ND	5.0	0.28	ug/l							
4-Chlorotoluene	ND	5.0	0.29	ug/l							
1,2-Dibromo-3-chloropropane	ND	5.0	0.97	ug/l							
Dibromochloromethane	ND	2.0	0.40	ug/l							
1,2-Dibromoethane (EDB)	ND	2.0	0.40	ug/l							
Dibromomethane	ND	2.0	0.36	ug/l							
1,2-Dichlorobenzene	ND	2.0	0.32	ug/l							
1,3-Dichlorobenzene	ND	2.0	0.35	ug/l							
1,4-Dichlorobenzene	ND	2.0	0.37	ug/l							
Dichlorodifluoromethane	ND	5.0	0.26	ug/l							
1,1-Dichloroethane	ND	2.0	0.40	ug/l							
1,2-Dichloroethane	ND	0.50	0.28	ug/l							
1,1-Dichloroethene	ND	5.0	0.42	ug/l							
cis-1,2-Dichloroethene	ND	2.0	0.32	ug/l							
trans-1,2-Dichloroethene	ND	2.0	0.30	ug/l							
1,2-Dichloropropane	ND	2.0	0.35	ug/l							
1,3-Dichloropropane	ND	2.0	0.32	ug/l							
2,2-Dichloropropane	ND	2.0	0.34	ug/l							

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Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

Geosyntec Consultants
2100 Main Street, Suite 150
Huntington Beach, CA 92648
Attention: David Hawley

Project ID: Montrose-Torrance SB0508-03 #01
Report Number: ITD1858

Sampled: 04/20/10
Received: 04/20/10

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10D2509 Extracted: 04/22/10											
Blank Analyzed: 04/22/2010 (10D2509-BLK1)											
cis-1,3-Dichloropropene	ND	2.0	0.22	ug/l							
trans-1,3-Dichloropropene	ND	2.0	0.32	ug/l							
1,1-Dichloropropene	ND	2.0	0.28	ug/l							
1,2-Dichloro-1,1,2-trifluoroethane	ND	2.0	1.1	ug/l							
Ethylbenzene	ND	2.0	0.25	ug/l							
Hexachlorobutadiene	ND	5.0	0.38	ug/l							
2-Hexanone	ND	10	2.6	ug/l							
Isopropylbenzene	ND	2.0	0.25	ug/l							
p-Isopropyltoluene	ND	2.0	0.28	ug/l							
4-Methyl-2-pentanone (MIBK)	ND	10	3.5	ug/l							
Methylene chloride	ND	5.0	0.95	ug/l							
Naphthalene	ND	5.0	0.41	ug/l							
n-Propylbenzene	ND	2.0	0.27	ug/l							
Styrene	ND	2.0	0.20	ug/l							
1,1,1,2-Tetrachloroethane	ND	5.0	0.27	ug/l							
1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l							
Tetrachloroethene	ND	2.0	0.32	ug/l							
Toluene	ND	2.0	0.36	ug/l							
1,2,3-Trichlorobenzene	ND	5.0	0.30	ug/l							
1,2,4-Trichlorobenzene	ND	5.0	0.48	ug/l							
1,1,1-Trichloroethane	ND	2.0	0.30	ug/l							
1,1,2-Trichloroethane	ND	2.0	0.30	ug/l							
Trichloroethene	ND	2.0	0.26	ug/l							
Trichlorofluoromethane	ND	5.0	0.34	ug/l							
1,2,3-Trichloropropane	ND	10	0.40	ug/l							
1,2,4-Trimethylbenzene	ND	2.0	0.23	ug/l							
1,3,5-Trimethylbenzene	ND	2.0	0.26	ug/l							
Vinyl acetate	ND	5.0	1.0	ug/l							
Vinyl chloride	ND	0.50	0.40	ug/l							
m,p-Xylenes	ND	2.0	0.60	ug/l							
o-Xylene	ND	2.0	0.30	ug/l							
Xylenes, Total	ND	2.0	0.90	ug/l							
Surrogate: 4-Bromofluorobenzene	*25.2*			*ug/l*	*25.0*		*101*	*80-120*			
Surrogate: Dibromofluoromethane	*24.6*			*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: Toluene-d8	*26.6*			*ug/l*	*25.0*		*107*	*80-120*			

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Attention: David Hawley

Project ID: Montrose-Torrance SB0508-03 #01
Report Number: ITD1858

Sampled: 04/20/10
Received: 04/20/10

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10D2509 Extracted: 04/22/10											
LCS Analyzed: 04/22/2010 (10D2509-BS1)											
Acetone	20.7	10	4.5	ug/l	25.0		83	30-140			
Benzene	21.1	2.0	0.28	ug/l	25.0		84	70-120			
Bromobenzene	23.5	5.0	0.27	ug/l	25.0		94	75-120			
Bromochloromethane	22.3	5.0	0.40	ug/l	25.0		89	70-130			
Bromodichloromethane	24.9	2.0	0.30	ug/l	25.0		100	70-135			
Bromoform	22.3	5.0	0.40	ug/l	25.0		89	55-130			
Bromomethane	24.5	5.0	0.42	ug/l	25.0		98	65-140			
2-Butanone (MEK)	22.1	10	4.7	ug/l	25.0		88	40-140			
n-Butylbenzene	23.6	5.0	0.37	ug/l	25.0		95	70-130			
sec-Butylbenzene	24.8	5.0	0.25	ug/l	25.0		99	70-125			
tert-Butylbenzene	24.6	5.0	0.22	ug/l	25.0		98	70-125			
Carbon Disulfide	22.0	1.0	0.48	ug/l	25.0		88	50-130			
Carbon tetrachloride	25.1	0.50	0.28	ug/l	25.0		101	65-140			
Chlorobenzene	23.1	2.0	0.36	ug/l	25.0		92	75-120			
Chloroethane	20.2	5.0	0.40	ug/l	25.0		81	60-140			
Chloroform	22.6	2.0	0.33	ug/l	25.0		90	70-130			
Chloromethane	20.4	1.5	0.40	ug/l	25.0		82	50-140			
2-Chlorotoluene	24.1	5.0	0.28	ug/l	25.0		96	70-125			
4-Chlorotoluene	24.7	5.0	0.29	ug/l	25.0		99	75-125			
1,2-Dibromo-3-chloropropane	20.9	5.0	0.97	ug/l	25.0		84	50-135			
Dibromochloromethane	25.3	2.0	0.40	ug/l	25.0		101	70-140			
1,2-Dibromoethane (EDB)	22.6	2.0	0.40	ug/l	25.0		91	75-125			
Dibromomethane	23.0	2.0	0.36	ug/l	25.0		92	70-125			
1,2-Dichlorobenzene	24.3	2.0	0.32	ug/l	25.0		97	75-120			
1,3-Dichlorobenzene	24.1	2.0	0.35	ug/l	25.0		96	75-120			
1,4-Dichlorobenzene	22.5	2.0	0.37	ug/l	25.0		90	75-120			
Dichlorodifluoromethane	25.0	5.0	0.26	ug/l	25.0		100	35-155			
1,1-Dichloroethane	21.3	2.0	0.40	ug/l	25.0		85	70-125			
1,2-Dichloroethane	23.8	0.50	0.28	ug/l	25.0		95	60-140			
1,1-Dichloroethene	22.4	5.0	0.42	ug/l	25.0		89	70-125			
cis-1,2-Dichloroethene	23.6	2.0	0.32	ug/l	25.0		94	70-125			
trans-1,2-Dichloroethene	22.2	2.0	0.30	ug/l	25.0		89	70-125			
1,2-Dichloropropane	20.6	2.0	0.35	ug/l	25.0		83	70-125			
1,3-Dichloropropane	22.2	2.0	0.32	ug/l	25.0		89	70-120			
2,2-Dichloropropane	22.9	2.0	0.34	ug/l	25.0		92	65-140			

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Geosyntec Consultants
2100 Main Street, Suite 150
Huntington Beach, CA 92648
Attention: David Hawley

Project ID: Montrose-Torrance
SB0508-03 #01
Report Number: ITD1858

Sampled: 04/20/10
Received: 04/20/10

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10D2509 Extracted: 04/22/10											
LCS Analyzed: 04/22/2010 (10D2509-BS1)											
cis-1,3-Dichloropropene	27.2	2.0	0.22	ug/l	25.0		109	75-125			
trans-1,3-Dichloropropene	21.8	2.0	0.32	ug/l	25.0		87	70-125			
1,1-Dichloropropene	23.6	2.0	0.28	ug/l	25.0		94	75-130			
Ethylbenzene	25.1	2.0	0.25	ug/l	25.0		100	75-125			
Hexachlorobutadiene	22.3	5.0	0.38	ug/l	25.0		89	65-135			
2-Hexanone	21.9	10	2.6	ug/l	25.0		88	45-140			
Isopropylbenzene	24.3	2.0	0.25	ug/l	25.0		97	75-130			
p-Isopropyltoluene	24.7	2.0	0.28	ug/l	25.0		99	75-125			
4-Methyl-2-pentanone (MIBK)	22.7	10	3.5	ug/l	25.0		91	45-140			
Methylene chloride	21.6	5.0	0.95	ug/l	25.0		87	55-130			
Naphthalene	26.4	5.0	0.41	ug/l	25.0		106	55-135			
n-Propylbenzene	24.2	2.0	0.27	ug/l	25.0		97	75-130			
Styrene	26.3	2.0	0.20	ug/l	25.0		105	75-130			
1,1,1,2-Tetrachloroethane	24.4	5.0	0.27	ug/l	25.0		98	70-130			
1,1,2,2-Tetrachloroethane	23.0	1.0	0.30	ug/l	25.0		92	55-130			
Tetrachloroethene	24.2	2.0	0.32	ug/l	25.0		97	70-125			
Toluene	23.3	2.0	0.36	ug/l	25.0		93	70-120			
1,2,3-Trichlorobenzene	24.6	5.0	0.30	ug/l	25.0		99	65-125			
1,2,4-Trichlorobenzene	25.1	5.0	0.48	ug/l	25.0		100	70-135			
1,1,1-Trichloroethane	23.4	2.0	0.30	ug/l	25.0		93	65-135			
1,1,2-Trichloroethane	23.0	2.0	0.30	ug/l	25.0		92	70-125			
Trichloroethene	24.5	2.0	0.26	ug/l	25.0		98	70-125			
Trichlorofluoromethane	24.8	5.0	0.34	ug/l	25.0		99	65-145			
1,2,3-Trichloropropane	21.0	10	0.40	ug/l	25.0		84	60-130			
1,2,4-Trimethylbenzene	25.2	2.0	0.23	ug/l	25.0		101	75-125			
1,3,5-Trimethylbenzene	24.6	2.0	0.26	ug/l	25.0		98	75-125			
Vinyl acetate	38.6	5.0	1.0	ug/l	25.0		154	45-145			*L*
Vinyl chloride	23.1	0.50	0.40	ug/l	25.0		93	55-135			
m,p-Xylenes	49.5	2.0	0.60	ug/l	50.0		99	75-125			
o-Xylene	24.8	2.0	0.30	ug/l	25.0		99	75-125			
Surrogate: 4-Bromofluorobenzene	*26.7*			*ug/l*	*25.0*		*107*	*80-120*			
Surrogate: Dibromofluoromethane	*24.9*			*ug/l*	*25.0*		*99*	*80-120*			
Surrogate: Toluene-d8	*27.1*			*ug/l*	*25.0*		*108*	*80-120*			

TestAmerica Irvine

Heather Clark For Chad Messer
Project Manager

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Geosyntec Consultants
2100 Main Street, Suite 150
Huntington Beach, CA 92648
Attention: David Hawley

Project ID: Montrose-Torrance SB0508-03 #01
Report Number: ITD1858

Sampled: 04/20/10
Received: 04/20/10

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10D2509 Extracted: 04/22/10											
LCS Dup Analyzed: 04/22/2010 (10D2509-BSD1)											
Acetone	18.1	10	4.5	ug/l	25.0		72	30-140	13	30	
Benzene	19.9	2.0	0.28	ug/l	25.0		80	70-120	6	20	
Bromobenzene	21.6	5.0	0.27	ug/l	25.0		86	75-120	8	20	
Bromochloromethane	20.8	5.0	0.40	ug/l	25.0		83	70-130	7	20	
Bromodichloromethane	23.1	2.0	0.30	ug/l	25.0		92	70-135	8	20	
Bromoform	20.6	5.0	0.40	ug/l	25.0		82	55-130	8	25	
Bromomethane	23.2	5.0	0.42	ug/l	25.0		93	65-140	5	20	
2-Butanone (MEK)	19.0	10	4.7	ug/l	25.0		76	40-140	15	35	
n-Butylbenzene	22.1	5.0	0.37	ug/l	25.0		89	70-130	7	20	
sec-Butylbenzene	23.2	5.0	0.25	ug/l	25.0		93	70-125	7	20	
tert-Butylbenzene	22.9	5.0	0.22	ug/l	25.0		91	70-125	7	20	
Carbon Disulfide	20.8	1.0	0.48	ug/l	25.0		83	50-130	6	20	
Carbon tetrachloride	23.1	0.50	0.28	ug/l	25.0		92	65-140	8	25	
Chlorobenzene	21.9	2.0	0.36	ug/l	25.0		88	75-120	5	20	
Chloroethane	19.6	5.0	0.40	ug/l	25.0		78	60-140	3	20	
Chloroform	21.4	2.0	0.33	ug/l	25.0		85	70-130	6	20	
Chloromethane	19.9	1.5	0.40	ug/l	25.0		80	50-140	3	25	
2-Chlorotoluene	22.7	5.0	0.28	ug/l	25.0		91	70-125	6	20	
4-Chlorotoluene	23.1	5.0	0.29	ug/l	25.0		92	75-125	7	20	
1,2-Dibromo-3-chloropropane	17.4	5.0	0.97	ug/l	25.0		70	50-135	18	30	
Dibromochloromethane	23.4	2.0	0.40	ug/l	25.0		94	70-140	8	20	
1,2-Dibromoethane (EDB)	21.0	2.0	0.40	ug/l	25.0		84	75-125	8	20	
Dibromomethane	21.4	2.0	0.36	ug/l	25.0		86	70-125	7	20	
1,2-Dichlorobenzene	22.3	2.0	0.32	ug/l	25.0		89	75-120	9	20	
1,3-Dichlorobenzene	22.3	2.0	0.35	ug/l	25.0		89	75-120	8	20	
1,4-Dichlorobenzene	21.2	2.0	0.37	ug/l	25.0		85	75-120	6	20	
Dichlorodifluoromethane	23.6	5.0	0.26	ug/l	25.0		94	35-155	6	30	
1,1-Dichloroethane	20.0	2.0	0.40	ug/l	25.0		80	70-125	6	20	
1,2-Dichloroethane	21.7	0.50	0.28	ug/l	25.0		87	60-140	9	20	
1,1-Dichloroethene	20.9	5.0	0.42	ug/l	25.0		83	70-125	7	20	
cis-1,2-Dichloroethene	22.0	2.0	0.32	ug/l	25.0		88	70-125	7	20	
trans-1,2-Dichloroethene	20.9	2.0	0.30	ug/l	25.0		84	70-125	6	20	
1,2-Dichloropropane	19.3	2.0	0.35	ug/l	25.0		77	70-125	7	20	
1,3-Dichloropropane	20.4	2.0	0.32	ug/l	25.0		81	70-120	9	20	
2,2-Dichloropropane	22.1	2.0	0.34	ug/l	25.0		88	65-140	4	25	

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Project Manager

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Attention: David Hawley

Project ID: Montrose-Torrance
SB0508-03 #01
Report Number: ITD1858

Sampled: 04/20/10
Received: 04/20/10

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10D2509 Extracted: 04/22/10											
LCS Dup Analyzed: 04/22/2010 (10D2509-BSD1)											
cis-1,3-Dichloropropene	25.3	2.0	0.22	ug/l	25.0		101	75-125	7	25	
trans-1,3-Dichloropropene	20.2	2.0	0.32	ug/l	25.0		81	70-125	8	20	
1,1-Dichloropropene	22.1	2.0	0.28	ug/l	25.0		88	75-130	7	20	
Ethylbenzene	23.5	2.0	0.25	ug/l	25.0		94	75-125	7	20	
Hexachlorobutadiene	20.0	5.0	0.38	ug/l	25.0		80	65-135	11	20	
2-Hexanone	18.8	10	2.6	ug/l	25.0		75	45-140	15	30	
Isopropylbenzene	22.4	2.0	0.25	ug/l	25.0		90	75-130	8	20	
p-Isopropyltoluene	22.7	2.0	0.28	ug/l	25.0		91	75-125	8	20	
4-Methyl-2-pentanone (MIBK)	19.6	10	3.5	ug/l	25.0		78	45-140	15	30	
Methylene chloride	20.3	5.0	0.95	ug/l	25.0		81	55-130	6	20	
Naphthalene	23.0	5.0	0.41	ug/l	25.0		92	55-135	14	25	
n-Propylbenzene	22.5	2.0	0.27	ug/l	25.0		90	75-130	7	20	
Styrene	25.0	2.0	0.20	ug/l	25.0		100	75-130	5	20	
1,1,1,2-Tetrachloroethane	23.1	5.0	0.27	ug/l	25.0		92	70-130	5	20	
1,1,2,2-Tetrachloroethane	20.6	1.0	0.30	ug/l	25.0		82	55-130	11	25	
Tetrachloroethene	22.4	2.0	0.32	ug/l	25.0		90	70-125	7	20	
Toluene	22.2	2.0	0.36	ug/l	25.0		89	70-120	5	20	
1,2,3-Trichlorobenzene	22.4	5.0	0.30	ug/l	25.0		90	65-125	10	20	
1,2,4-Trichlorobenzene	23.1	5.0	0.48	ug/l	25.0		92	70-135	8	20	
1,1,1-Trichloroethane	22.0	2.0	0.30	ug/l	25.0		88	65-135	6	20	
1,1,2-Trichloroethane	21.6	2.0	0.30	ug/l	25.0		86	70-125	6	20	
Trichloroethene	23.0	2.0	0.26	ug/l	25.0		92	70-125	6	20	
Trichlorofluoromethane	22.9	5.0	0.34	ug/l	25.0		92	65-145	8	20	
1,2,3-Trichloropropane	18.8	10	0.40	ug/l	25.0		75	60-130	11	20	
1,2,4-Trimethylbenzene	23.2	2.0	0.23	ug/l	25.0		93	75-125	8	20	
1,3,5-Trimethylbenzene	23.2	2.0	0.26	ug/l	25.0		93	75-125	6	20	
Vinyl acetate	34.8	5.0	1.0	ug/l	25.0		139	45-145	10	20	
Vinyl chloride	22.4	0.50	0.40	ug/l	25.0		89	55-135	3	30	
m,p-Xylenes	46.8	2.0	0.60	ug/l	50.0		94	75-125	6	20	
o-Xylene	23.2	2.0	0.30	ug/l	25.0		93	75-125	7	20	
Surrogate: 4-Bromofluorobenzene	*26.6*			*ug/l*	*25.0*		*106*	*80-120*			
Surrogate: Dibromofluoromethane	*24.8*			*ug/l*	*25.0*		*99*	*80-120*			
Surrogate: Toluene-d8	*27.0*			*ug/l*	*25.0*		*108*	*80-120*			

TestAmerica Irvine

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Project Manager

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Attention: David Hawley

Project ID: Montrose-Torrance
SB0508-03 #01
Report Number: ITD1858

Sampled: 04/20/10
Received: 04/20/10

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10D2509 Extracted: 04/22/10											
Matrix Spike Analyzed: 04/22/2010 (10D2509-MS1)						**Source: ITD1951-01**					
Acetone	21.8	10	4.5	ug/l	25.0	ND	87	20-150			
Benzene	23.3	2.0	0.28	ug/l	25.0	ND	93	65-125			
Bromobenzene	25.7	5.0	0.27	ug/l	25.0	ND	103	70-125			
Bromochloromethane	24.3	5.0	0.40	ug/l	25.0	ND	97	65-135			
Bromodichloromethane	27.7	2.0	0.30	ug/l	25.0	ND	111	70-135			
Bromoform	24.2	5.0	0.40	ug/l	25.0	ND	97	55-135			
Bromomethane	26.2	5.0	0.42	ug/l	25.0	ND	105	55-145			
2-Butanone (MEK)	23.4	10	4.7	ug/l	25.0	ND	93	30-145			
n-Butylbenzene	26.2	5.0	0.37	ug/l	25.0	ND	105	65-135			
sec-Butylbenzene	27.2	5.0	0.25	ug/l	25.0	ND	109	70-125			
tert-Butylbenzene	26.3	5.0	0.22	ug/l	25.0	ND	105	65-130			
Carbon Disulfide	24.0	1.0	0.48	ug/l	25.0	ND	96	40-140			
Carbon tetrachloride	27.4	0.50	0.28	ug/l	25.0	ND	109	65-140			
Chlorobenzene	25.4	2.0	0.36	ug/l	25.0	ND	102	75-125			
Chloroethane	18.7	5.0	0.40	ug/l	25.0	ND	75	55-140			
Chloroform	24.9	2.0	0.33	ug/l	25.0	0.370	98	65-135			
Chloromethane	22.3	1.5	0.40	ug/l	25.0	ND	89	45-145			
2-Chlorotoluene	26.5	5.0	0.28	ug/l	25.0	ND	106	65-135			
4-Chlorotoluene	26.8	5.0	0.29	ug/l	25.0	ND	107	70-135			
1,2-Dibromo-3-chloropropane	22.9	5.0	0.97	ug/l	25.0	ND	91	45-145			
Dibromochloromethane	28.1	2.0	0.40	ug/l	25.0	ND	113	65-140			
1,2-Dibromoethane (EDB)	25.2	2.0	0.40	ug/l	25.0	ND	101	70-130			
Dibromomethane	25.4	2.0	0.36	ug/l	25.0	ND	102	65-135			
1,2-Dichlorobenzene	26.5	2.0	0.32	ug/l	25.0	ND	106	75-125			
1,3-Dichlorobenzene	26.2	2.0	0.35	ug/l	25.0	ND	105	75-125			
1,4-Dichlorobenzene	24.8	2.0	0.37	ug/l	25.0	ND	99	75-125			
Dichlorodifluoromethane	27.0	5.0	0.26	ug/l	25.0	ND	108	25-155			
1,1-Dichloroethane	23.0	2.0	0.40	ug/l	25.0	ND	92	65-130			
1,2-Dichloroethane	26.1	0.50	0.28	ug/l	25.0	ND	105	60-140			
1,1-Dichloroethene	24.2	5.0	0.42	ug/l	25.0	ND	97	60-130			
cis-1,2-Dichloroethene	25.7	2.0	0.32	ug/l	25.0	ND	103	65-130			
trans-1,2-Dichloroethene	23.9	2.0	0.30	ug/l	25.0	ND	96	65-130			
1,2-Dichloropropane	22.4	2.0	0.35	ug/l	25.0	ND	90	65-130			
1,3-Dichloropropane	24.1	2.0	0.32	ug/l	25.0	ND	96	65-135			
2,2-Dichloropropane	25.0	2.0	0.34	ug/l	25.0	ND	100	60-145			

TestAmerica Irvine

Heather Clark For Chad Messer
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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Geosyntec Consultants
2100 Main Street, Suite 150
Huntington Beach, CA 92648
Attention: David Hawley

Project ID: Montrose-Torrance
SB0508-03 #01
Report Number: ITD1858

Sampled: 04/20/10
Received: 04/20/10

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10D2509 Extracted: 04/22/10											
Matrix Spike Analyzed: 04/22/2010 (10D2509-MS1)					**Source: ITD1951-01**						
cis-1,3-Dichloropropene	30.1	2.0	0.22	ug/l	25.0	ND	121	70-130			
trans-1,3-Dichloropropene	24.3	2.0	0.32	ug/l	25.0	ND	97	65-135			
1,1-Dichloropropene	26.1	2.0	0.28	ug/l	25.0	ND	105	70-135			
Ethylbenzene	27.6	2.0	0.25	ug/l	25.0	ND	110	65-130			
Hexachlorobutadiene	23.9	5.0	0.38	ug/l	25.0	ND	96	60-135			
2-Hexanone	24.1	10	2.6	ug/l	25.0	ND	97	25-140			
Isopropylbenzene	26.3	2.0	0.25	ug/l	25.0	ND	105	70-135			
p-Isopropyltoluene	26.7	2.0	0.28	ug/l	25.0	ND	107	65-130			
4-Methyl-2-pentanone (MIBK)	24.8	10	3.5	ug/l	25.0	ND	99	40-140			
Methylene chloride	24.3	5.0	0.95	ug/l	25.0	ND	97	50-135			
Naphthalene	28.4	5.0	0.41	ug/l	25.0	ND	114	50-140			
n-Propylbenzene	26.4	2.0	0.27	ug/l	25.0	ND	106	70-135			
Styrene	28.8	2.0	0.20	ug/l	25.0	ND	115	50-145			
1,1,1,2-Tetrachloroethane	26.8	5.0	0.27	ug/l	25.0	ND	107	65-140			
1,1,2,2-Tetrachloroethane	24.7	1.0	0.30	ug/l	25.0	ND	99	55-135			
Tetrachloroethene	26.3	2.0	0.32	ug/l	25.0	ND	105	65-130			
Toluene	25.8	2.0	0.36	ug/l	25.0	ND	103	70-125			
1,2,3-Trichlorobenzene	26.9	5.0	0.30	ug/l	25.0	ND	108	60-135			
1,2,4-Trichlorobenzene	27.0	5.0	0.48	ug/l	25.0	ND	108	65-135			
1,1,1-Trichloroethane	25.4	2.0	0.30	ug/l	25.0	ND	101	65-140			
1,1,2-Trichloroethane	25.6	2.0	0.30	ug/l	25.0	ND	102	65-130			
Trichloroethene	27.2	2.0	0.26	ug/l	25.0	ND	109	65-125			
Trichlorofluoromethane	26.4	5.0	0.34	ug/l	25.0	ND	106	60-145			
1,2,3-Trichloropropane	23.0	10	0.40	ug/l	25.0	ND	92	55-135			
1,2,4-Trimethylbenzene	27.3	2.0	0.23	ug/l	25.0	ND	109	55-135			
1,3,5-Trimethylbenzene	27.1	2.0	0.26	ug/l	25.0	ND	109	70-130			
Vinyl acetate	40.3	5.0	1.0	ug/l	25.0	ND	161	40-150			*M7*
Vinyl chloride	24.8	0.50	0.40	ug/l	25.0	ND	99	45-140			
m,p-Xylenes	53.9	2.0	0.60	ug/l	50.0	ND	108	65-130			
o-Xylene	27.0	2.0	0.30	ug/l	25.0	ND	108	65-125			
Surrogate: 4-Bromofluorobenzene	*26.4*			*ug/l*	*25.0*		*106*	*80-120*			
Surrogate: Dibromofluoromethane	*24.6*			*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: Toluene-d8	*26.9*			*ug/l*	*25.0*		*108*	*80-120*			

TestAmerica Irvine

Heather Clark For Chad Messer
Project Manager

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Geosyntec Consultants
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Huntington Beach, CA 92648
Attention: David Hawley

Project ID: Montrose-Torrance
SB0508-03 #01
Report Number: ITD1858

Sampled: 04/20/10
Received: 04/20/10

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10D2509 Extracted: 04/22/10											
Matrix Spike Dup Analyzed: 04/22/2010 (10D2509-MSD1)						**Source: ITD1951-01**					
Acetone	21.2	10	4.5	ug/l	25.0	ND	85	20-150	3	35	
Benzene	23.4	2.0	0.28	ug/l	25.0	ND	94	65-125	0.4	20	
Bromobenzene	25.8	5.0	0.27	ug/l	25.0	ND	103	70-125	0.4	20	
Bromochloromethane	23.6	5.0	0.40	ug/l	25.0	ND	95	65-135	3	25	
Bromodichloromethane	27.4	2.0	0.30	ug/l	25.0	ND	110	70-135	1	20	
Bromoform	24.4	5.0	0.40	ug/l	25.0	ND	98	55-135	0.8	25	
Bromomethane	26.7	5.0	0.42	ug/l	25.0	ND	107	55-145	2	25	
2-Butanone (MEK)	22.8	10	4.7	ug/l	25.0	ND	91	30-145	3	40	
n-Butylbenzene	26.1	5.0	0.37	ug/l	25.0	ND	105	65-135	0.2	20	
sec-Butylbenzene	27.1	5.0	0.25	ug/l	25.0	ND	108	70-125	0.3	20	
tert-Butylbenzene	26.8	5.0	0.22	ug/l	25.0	ND	107	65-130	2	20	
Carbon Disulfide	24.3	1.0	0.48	ug/l	25.0	ND	97	40-140	0.9	20	
Carbon tetrachloride	27.5	0.50	0.28	ug/l	25.0	ND	110	65-140	0.4	25	
Chlorobenzene	25.2	2.0	0.36	ug/l	25.0	ND	101	75-125	0.6	20	
Chloroethane	19.4	5.0	0.40	ug/l	25.0	ND	77	55-140	4	25	
Chloroform	25.0	2.0	0.33	ug/l	25.0	0.370	98	65-135	0.1	20	
Chloromethane	22.4	1.5	0.40	ug/l	25.0	ND	90	45-145	0.6	25	
2-Chlorotoluene	26.6	5.0	0.28	ug/l	25.0	ND	107	65-135	0.7	20	
4-Chlorotoluene	27.0	5.0	0.29	ug/l	25.0	ND	108	70-135	0.7	20	
1,2-Dibromo-3-chloropropane	22.3	5.0	0.97	ug/l	25.0	ND	89	45-145	3	30	
Dibromochloromethane	27.9	2.0	0.40	ug/l	25.0	ND	112	65-140	0.7	25	
1,2-Dibromoethane (EDB)	25.0	2.0	0.40	ug/l	25.0	ND	100	70-130	0.5	25	
Dibromomethane	25.1	2.0	0.36	ug/l	25.0	ND	100	65-135	1	25	
1,2-Dichlorobenzene	26.6	2.0	0.32	ug/l	25.0	ND	106	75-125	0.3	20	
1,3-Dichlorobenzene	26.2	2.0	0.35	ug/l	25.0	ND	105	75-125	0.2	20	
1,4-Dichlorobenzene	24.7	2.0	0.37	ug/l	25.0	ND	99	75-125	0.4	20	
Dichlorodifluoromethane	26.8	5.0	0.26	ug/l	25.0	ND	107	25-155	0.7	30	
1,1-Dichloroethane	23.2	2.0	0.40	ug/l	25.0	ND	93	65-130	0.7	20	
1,2-Dichloroethane	25.8	0.50	0.28	ug/l	25.0	ND	103	60-140	1	20	
1,1-Dichloroethene	24.4	5.0	0.42	ug/l	25.0	ND	98	60-130	0.9	20	
cis-1,2-Dichloroethene	25.7	2.0	0.32	ug/l	25.0	ND	103	65-130	0.1	20	
trans-1,2-Dichloroethene	24.3	2.0	0.30	ug/l	25.0	ND	97	65-130	2	20	
1,2-Dichloropropane	22.5	2.0	0.35	ug/l	25.0	ND	90	65-130	0.4	20	
1,3-Dichloropropane	23.9	2.0	0.32	ug/l	25.0	ND	96	65-135	0.7	25	
2,2-Dichloropropane	25.9	2.0	0.34	ug/l	25.0	ND	103	60-145	4	25	

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Attention: David Hawley

Project ID: Montrose-Torrance SB0508-03 #01
Report Number: ITD1858

Sampled: 04/20/10
Received: 04/20/10

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10D2509 Extracted: 04/22/10											
Matrix Spike Dup Analyzed: 04/22/2010 (10D2509-MSD1)					**Source: ITD1951-01**						
cis-1,3-Dichloropropene	30.2	2.0	0.22	ug/l	25.0	ND	121	70-130	0.1	20	
trans-1,3-Dichloropropene	24.2	2.0	0.32	ug/l	25.0	ND	97	65-135	0.5	25	
1,1-Dichloropropene	25.8	2.0	0.28	ug/l	25.0	ND	103	70-135	1	20	
Ethylbenzene	27.2	2.0	0.25	ug/l	25.0	ND	109	65-130	1	20	
Hexachlorobutadiene	24.0	5.0	0.38	ug/l	25.0	ND	96	60-135	0.3	20	
2-Hexanone	23.4	10	2.6	ug/l	25.0	ND	94	25-140	3	35	
Isopropylbenzene	26.4	2.0	0.25	ug/l	25.0	ND	106	70-135	0.4	20	
p-Isopropyltoluene	26.6	2.0	0.28	ug/l	25.0	ND	106	65-130	0.2	20	
4-Methyl-2-pentanone (MIBK)	23.9	10	3.5	ug/l	25.0	ND	96	40-140	3	35	
Methylene chloride	24.3	5.0	0.95	ug/l	25.0	ND	97	50-135	0.04	20	
Naphthalene	27.6	5.0	0.41	ug/l	25.0	ND	110	50-140	3	30	
n-Propylbenzene	26.5	2.0	0.27	ug/l	25.0	ND	106	70-135	0.3	20	
Styrene	28.1	2.0	0.20	ug/l	25.0	ND	112	50-145	2	30	
1,1,1,2-Tetrachloroethane	26.9	5.0	0.27	ug/l	25.0	ND	108	65-140	0.6	20	
1,1,2,2-Tetrachloroethane	24.3	1.0	0.30	ug/l	25.0	ND	97	55-135	2	30	
Tetrachloroethene	26.4	2.0	0.32	ug/l	25.0	ND	106	65-130	0.4	20	
Toluene	26.0	2.0	0.36	ug/l	25.0	ND	104	70-125	0.8	20	
1,2,3-Trichlorobenzene	26.1	5.0	0.30	ug/l	25.0	ND	104	60-135	3	20	
1,2,4-Trichlorobenzene	26.7	5.0	0.48	ug/l	25.0	ND	107	65-135	1	20	
1,1,1-Trichloroethane	25.7	2.0	0.30	ug/l	25.0	ND	103	65-140	1	20	
1,1,2-Trichloroethane	25.2	2.0	0.30	ug/l	25.0	ND	101	65-130	2	25	
Trichloroethene	27.0	2.0	0.26	ug/l	25.0	ND	108	65-125	0.7	20	
Trichlorofluoromethane	26.4	5.0	0.34	ug/l	25.0	ND	105	60-145	0.3	25	
1,2,3-Trichloropropane	22.5	10	0.40	ug/l	25.0	ND	90	55-135	2	30	
1,2,4-Trimethylbenzene	27.4	2.0	0.23	ug/l	25.0	ND	109	55-135	0.3	25	
1,3,5-Trimethylbenzene	27.0	2.0	0.26	ug/l	25.0	ND	108	70-130	0.7	20	
Vinyl acetate	38.6	5.0	1.0	ug/l	25.0	ND	154	40-150	4	30	*M7*
Vinyl chloride	25.2	0.50	0.40	ug/l	25.0	ND	101	45-140	2	30	
m,p-Xylenes	54.2	2.0	0.60	ug/l	50.0	ND	108	65-130	0.4	25	
o-Xylene	26.8	2.0	0.30	ug/l	25.0	ND	107	65-125	0.9	20	
Surrogate: 4-Bromofluorobenzene	*26.3*			*ug/l*	*25.0*		*105*	*80-120*			
Surrogate: Dibromofluoromethane	*24.6*			*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: Toluene-d8	*27.7*			*ug/l*	*25.0*		*111*	*80-120*			

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Heather Clark For Chad Messer
Project Manager

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Geosyntec Consultants
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Attention: David Hawley

Project ID: Montrose-Torrance
SB0508-03 #01
Report Number: ITD1858

Sampled: 04/20/10
Received: 04/20/10

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10D2678 Extracted: 04/23/10											
Blank Analyzed: 04/23/2010 (10D2678-BLK1)											
Acetone	ND	10	4.5	ug/l							
Benzene	ND	2.0	0.28	ug/l							
Bromobenzene	ND	5.0	0.27	ug/l							
Bromochloromethane	ND	5.0	0.40	ug/l							
Bromodichloromethane	ND	2.0	0.30	ug/l							
Bromoform	ND	5.0	0.40	ug/l							
Bromomethane	ND	5.0	0.42	ug/l							
2-Butanone (MEK)	ND	10	4.7	ug/l							
n-Butylbenzene	ND	5.0	0.37	ug/l							
sec-Butylbenzene	ND	5.0	0.25	ug/l							
tert-Butylbenzene	ND	5.0	0.22	ug/l							
Carbon Disulfide	ND	1.0	0.48	ug/l							
Carbon tetrachloride	ND	0.50	0.28	ug/l							
Chlorobenzene	ND	2.0	0.36	ug/l							
Chloroethane	ND	5.0	0.40	ug/l							
Chloroform	ND	2.0	0.33	ug/l							
Chloromethane	ND	1.5	0.40	ug/l							
2-Chlorotoluene	ND	5.0	0.28	ug/l							
4-Chlorotoluene	ND	5.0	0.29	ug/l							
1,2-Dibromo-3-chloropropane	ND	5.0	0.97	ug/l							
Dibromochloromethane	ND	2.0	0.40	ug/l							
1,2-Dibromoethane (EDB)	ND	2.0	0.40	ug/l							
Dibromomethane	ND	2.0	0.36	ug/l							
1,2-Dichlorobenzene	ND	2.0	0.32	ug/l							
1,3-Dichlorobenzene	ND	2.0	0.35	ug/l							
1,4-Dichlorobenzene	ND	2.0	0.37	ug/l							
Dichlorodifluoromethane	ND	5.0	0.26	ug/l							
1,1-Dichloroethane	ND	2.0	0.40	ug/l							
1,2-Dichloroethane	ND	0.50	0.28	ug/l							
1,1-Dichloroethene	ND	5.0	0.42	ug/l							
cis-1,2-Dichloroethene	ND	2.0	0.32	ug/l							
trans-1,2-Dichloroethene	ND	2.0	0.30	ug/l							
1,2-Dichloropropane	ND	2.0	0.35	ug/l							
1,3-Dichloropropane	ND	2.0	0.32	ug/l							
2,2-Dichloropropane	ND	2.0	0.34	ug/l							

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Sampled: 04/20/10
Received: 04/20/10

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10D2678 Extracted: 04/23/10											
Blank Analyzed: 04/23/2010 (10D2678-BLK1)											
cis-1,3-Dichloropropene	ND	2.0	0.22	ug/l							
trans-1,3-Dichloropropene	ND	2.0	0.32	ug/l							
1,1-Dichloropropene	ND	2.0	0.28	ug/l							
1,2-Dichloro-1,1,2-trifluoroethane	ND	2.0	1.1	ug/l							
Ethylbenzene	ND	2.0	0.25	ug/l							
Hexachlorobutadiene	ND	5.0	0.38	ug/l							
2-Hexanone	ND	10	2.6	ug/l							
Isopropylbenzene	ND	2.0	0.25	ug/l							
p-Isopropyltoluene	ND	2.0	0.28	ug/l							
4-Methyl-2-pentanone (MIBK)	ND	10	3.5	ug/l							
Methylene chloride	ND	5.0	0.95	ug/l							
Naphthalene	ND	5.0	0.41	ug/l							
n-Propylbenzene	ND	2.0	0.27	ug/l							
Styrene	ND	2.0	0.20	ug/l							
1,1,1,2-Tetrachloroethane	ND	5.0	0.27	ug/l							
1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l							
Tetrachloroethene	ND	2.0	0.32	ug/l							
Toluene	ND	2.0	0.36	ug/l							
1,2,3-Trichlorobenzene	ND	5.0	0.30	ug/l							
1,2,4-Trichlorobenzene	ND	5.0	0.48	ug/l							
1,1,1-Trichloroethane	ND	2.0	0.30	ug/l							
1,1,2-Trichloroethane	ND	2.0	0.30	ug/l							
Trichloroethene	ND	2.0	0.26	ug/l							
Trichlorofluoromethane	ND	5.0	0.34	ug/l							
1,2,3-Trichloropropane	ND	10	0.40	ug/l							
1,2,4-Trimethylbenzene	ND	2.0	0.23	ug/l							
1,3,5-Trimethylbenzene	ND	2.0	0.26	ug/l							
Vinyl acetate	ND	5.0	1.0	ug/l							
Vinyl chloride	ND	0.50	0.40	ug/l							
m,p-Xylenes	ND	2.0	0.60	ug/l							
o-Xylene	ND	2.0	0.30	ug/l							
Xylenes, Total	ND	2.0	0.90	ug/l							
Surrogate: 4-Bromofluorobenzene	*25.1*			*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: Dibromofluoromethane	*24.7*			*ug/l*	*25.0*		*99*	*80-120*			
Surrogate: Toluene-d8	*26.9*			*ug/l*	*25.0*		*108*	*80-120*			

TestAmerica Irvine

Heather Clark For Chad Messer
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

Geosyntec Consultants
2100 Main Street, Suite 150
Huntington Beach, CA 92648
Attention: David Hawley

Project ID: Montrose-Torrance
SB0508-03 #01
Report Number: ITD1858

Sampled: 04/20/10
Received: 04/20/10

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10D2678 Extracted: 04/23/10											
LCS Analyzed: 04/23/2010 (10D2678-BS1)											
Acetone	20.1	10	4.5	ug/l	25.0		80	30-140			
Benzene	21.0	2.0	0.28	ug/l	25.0		84	70-120			
Bromobenzene	23.8	5.0	0.27	ug/l	25.0		95	75-120			
Bromochloromethane	22.2	5.0	0.40	ug/l	25.0		89	70-130			
Bromodichloromethane	26.5	2.0	0.30	ug/l	25.0		106	70-135			
Bromoform	23.7	5.0	0.40	ug/l	25.0		95	55-130			
Bromomethane	25.3	5.0	0.42	ug/l	25.0		101	65-140			
2-Butanone (MEK)	20.3	10	4.7	ug/l	25.0		81	40-140			
n-Butylbenzene	25.6	5.0	0.37	ug/l	25.0		102	70-130			
sec-Butylbenzene	25.9	5.0	0.25	ug/l	25.0		104	70-125			
tert-Butylbenzene	25.5	5.0	0.22	ug/l	25.0		102	70-125			
Carbon Disulfide	21.9	1.0	0.48	ug/l	25.0		87	50-130			
Carbon tetrachloride	28.0	0.50	0.28	ug/l	25.0		112	65-140			
Chlorobenzene	23.9	2.0	0.36	ug/l	25.0		96	75-120			
Chloroethane	20.7	5.0	0.40	ug/l	25.0		83	60-140			
Chloroform	23.4	2.0	0.33	ug/l	25.0		94	70-130			
Chloromethane	21.4	1.5	0.40	ug/l	25.0		86	50-140			
2-Chlorotoluene	25.1	5.0	0.28	ug/l	25.0		100	70-125			
4-Chlorotoluene	25.6	5.0	0.29	ug/l	25.0		102	75-125			
1,2-Dibromo-3-chloropropane	20.8	5.0	0.97	ug/l	25.0		83	50-135			
Dibromochloromethane	26.8	2.0	0.40	ug/l	25.0		107	70-140			
1,2-Dibromoethane (EDB)	23.3	2.0	0.40	ug/l	25.0		93	75-125			
Dibromomethane	23.8	2.0	0.36	ug/l	25.0		95	70-125			
1,2-Dichlorobenzene	24.9	2.0	0.32	ug/l	25.0		100	75-120			
1,3-Dichlorobenzene	25.0	2.0	0.35	ug/l	25.0		100	75-120			
1,4-Dichlorobenzene	23.3	2.0	0.37	ug/l	25.0		93	75-120			
Dichlorodifluoromethane	27.7	5.0	0.26	ug/l	25.0		111	35-155			
1,1-Dichloroethane	21.8	2.0	0.40	ug/l	25.0		87	70-125			
1,2-Dichloroethane	25.6	0.50	0.28	ug/l	25.0		103	60-140			
1,1-Dichloroethene	22.3	5.0	0.42	ug/l	25.0		89	70-125			
cis-1,2-Dichloroethene	23.3	2.0	0.32	ug/l	25.0		93	70-125			
trans-1,2-Dichloroethene	21.7	2.0	0.30	ug/l	25.0		87	70-125			
1,2-Dichloropropane	20.0	2.0	0.35	ug/l	25.0		80	70-125			
1,3-Dichloropropane	22.3	2.0	0.32	ug/l	25.0		89	70-120			
2,2-Dichloropropane	25.8	2.0	0.34	ug/l	25.0		103	65-140			

TestAmerica Irvine

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Project Manager

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Huntington Beach, CA 92648
Attention: David Hawley

Project ID: Montrose-Torrance
SB0508-03 #01
Report Number: ITD1858

Sampled: 04/20/10
Received: 04/20/10

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10D2678 Extracted: 04/23/10											
LCS Analyzed: 04/23/2010 (10D2678-BS1)											
cis-1,3-Dichloropropene	27.6	2.0	0.22	ug/l	25.0		111	75-125			
trans-1,3-Dichloropropene	22.5	2.0	0.32	ug/l	25.0		90	70-125			
1,1-Dichloropropene	24.6	2.0	0.28	ug/l	25.0		98	75-130			
Ethylbenzene	26.1	2.0	0.25	ug/l	25.0		104	75-125			
Hexachlorobutadiene	24.3	5.0	0.38	ug/l	25.0		97	65-135			
2-Hexanone	21.7	10	2.6	ug/l	25.0		87	45-140			
Isopropylbenzene	24.8	2.0	0.25	ug/l	25.0		99	75-130			
p-Isopropyltoluene	25.9	2.0	0.28	ug/l	25.0		104	75-125			
4-Methyl-2-pentanone (MIBK)	21.8	10	3.5	ug/l	25.0		87	45-140			
Methylene chloride	21.3	5.0	0.95	ug/l	25.0		85	55-130			
Naphthalene	26.0	5.0	0.41	ug/l	25.0		104	55-135			
n-Propylbenzene	25.2	2.0	0.27	ug/l	25.0		101	75-130			
Styrene	27.2	2.0	0.20	ug/l	25.0		109	75-130			
1,1,1,2-Tetrachloroethane	26.1	5.0	0.27	ug/l	25.0		104	70-130			
1,1,2,2-Tetrachloroethane	21.9	1.0	0.30	ug/l	25.0		88	55-130			
Tetrachloroethene	25.2	2.0	0.32	ug/l	25.0		101	70-125			
Toluene	24.0	2.0	0.36	ug/l	25.0		96	70-120			
1,2,3-Trichlorobenzene	25.6	5.0	0.30	ug/l	25.0		102	65-125			
1,2,4-Trichlorobenzene	26.2	5.0	0.48	ug/l	25.0		105	70-135			
1,1,1-Trichloroethane	25.6	2.0	0.30	ug/l	25.0		102	65-135			
1,1,2-Trichloroethane	23.1	2.0	0.30	ug/l	25.0		92	70-125			
Trichloroethene	25.4	2.0	0.26	ug/l	25.0		102	70-125			
Trichlorofluoromethane	26.6	5.0	0.34	ug/l	25.0		106	65-145			
1,2,3-Trichloropropane	20.3	10	0.40	ug/l	25.0		81	60-130			
1,2,4-Trimethylbenzene	26.5	2.0	0.23	ug/l	25.0		106	75-125			
1,3,5-Trimethylbenzene	25.7	2.0	0.26	ug/l	25.0		103	75-125			
Vinyl acetate	38.3	5.0	1.0	ug/l	25.0		153	45-145			*L*
Vinyl chloride	24.4	0.50	0.40	ug/l	25.0		98	55-135			
m,p-Xylenes	51.7	2.0	0.60	ug/l	50.0		103	75-125			
o-Xylene	25.8	2.0	0.30	ug/l	25.0		103	75-125			
Surrogate: 4-Bromofluorobenzene	*26.2*			*ug/l*	*25.0*		*105*	*80-120*			
Surrogate: Dibromofluoromethane	*24.5*			*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: Toluene-d8	*26.7*			*ug/l*	*25.0*		*107*	*80-120*			

TestAmerica Irvine

Heather Clark For Chad Messer
Project Manager

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Geosyntec Consultants
2100 Main Street, Suite 150
Huntington Beach, CA 92648
Attention: David Hawley

Project ID: Montrose-Torrance SB0508-03 #01
Report Number: ITD1858

Sampled: 04/20/10
Received: 04/20/10

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10D2678 Extracted: 04/23/10											
Matrix Spike Analyzed: 04/23/2010 (10D2678-MS1)						**Source: ITD1415-04**					
Acetone	23.5	10	4.5	ug/l	25.0	ND	94	20-150			
Benzene	23.3	2.0	0.28	ug/l	25.0	ND	93	65-125			
Bromobenzene	26.3	5.0	0.27	ug/l	25.0	ND	105	70-125			
Bromochloromethane	25.2	5.0	0.40	ug/l	25.0	ND	101	65-135			
Bromodichloromethane	29.7	2.0	0.30	ug/l	25.0	ND	119	70-135			
Bromoform	26.2	5.0	0.40	ug/l	25.0	ND	105	55-135			
Bromomethane	29.2	5.0	0.42	ug/l	25.0	ND	117	55-145			
2-Butanone (MEK)	23.3	10	4.7	ug/l	25.0	ND	93	30-145			
n-Butylbenzene	27.2	5.0	0.37	ug/l	25.0	ND	109	65-135			
sec-Butylbenzene	28.3	5.0	0.25	ug/l	25.0	ND	113	70-125			
tert-Butylbenzene	27.7	5.0	0.22	ug/l	25.0	ND	111	65-130			
Carbon Disulfide	25.0	1.0	0.48	ug/l	25.0	ND	100	40-140			
Carbon tetrachloride	31.0	0.50	0.28	ug/l	25.0	ND	124	65-140			
Chlorobenzene	26.4	2.0	0.36	ug/l	25.0	ND	105	75-125			
Chloroethane	23.9	5.0	0.40	ug/l	25.0	ND	96	55-140			
Chloroform	26.4	2.0	0.33	ug/l	25.0	ND	106	65-135			
Chloromethane	25.1	1.5	0.40	ug/l	25.0	ND	100	45-145			
2-Chlorotoluene	27.4	5.0	0.28	ug/l	25.0	ND	109	65-135			
4-Chlorotoluene	28.1	5.0	0.29	ug/l	25.0	ND	112	70-135			
1,2-Dibromo-3-chloropropane	24.0	5.0	0.97	ug/l	25.0	ND	96	45-145			
Dibromochloromethane	30.6	2.0	0.40	ug/l	25.0	ND	122	65-140			
1,2-Dibromoethane (EDB)	26.4	2.0	0.40	ug/l	25.0	ND	106	70-130			
Dibromomethane	26.9	2.0	0.36	ug/l	25.0	ND	107	65-135			
1,2-Dichlorobenzene	27.5	2.0	0.32	ug/l	25.0	ND	110	75-125			
1,3-Dichlorobenzene	27.2	2.0	0.35	ug/l	25.0	ND	109	75-125			
1,4-Dichlorobenzene	25.6	2.0	0.37	ug/l	25.0	ND	102	75-125			
Dichlorodifluoromethane	33.5	5.0	0.26	ug/l	25.0	ND	134	25-155			
1,1-Dichloroethane	24.7	2.0	0.40	ug/l	25.0	ND	99	65-130			
1,2-Dichloroethane	29.4	0.50	0.28	ug/l	25.0	ND	118	60-140			
1,1-Dichloroethene	24.5	5.0	0.42	ug/l	25.0	ND	98	60-130			
cis-1,2-Dichloroethene	26.8	2.0	0.32	ug/l	25.0	ND	107	65-130			
trans-1,2-Dichloroethene	24.4	2.0	0.30	ug/l	25.0	ND	98	65-130			
1,2-Dichloropropane	22.8	2.0	0.35	ug/l	25.0	ND	91	65-130			
1,3-Dichloropropane	25.3	2.0	0.32	ug/l	25.0	ND	101	65-135			
2,2-Dichloropropane	28.9	2.0	0.34	ug/l	25.0	ND	116	60-145			

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Attention: David Hawley

Project ID: Montrose-Torrance
SB0508-03 #01
Report Number: ITD1858

Sampled: 04/20/10
Received: 04/20/10

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10D2678 Extracted: 04/23/10											
Matrix Spike Analyzed: 04/23/2010 (10D2678-MS1)					**Source: ITD1415-04**						
cis-1,3-Dichloropropene	30.9	2.0	0.22	ug/l	25.0	ND	124	70-130			
trans-1,3-Dichloropropene	25.4	2.0	0.32	ug/l	25.0	ND	102	65-135			
1,1-Dichloropropene	27.1	2.0	0.28	ug/l	25.0	ND	108	70-135			
Ethylbenzene	28.5	2.0	0.25	ug/l	25.0	ND	114	65-130			
Hexachlorobutadiene	25.1	5.0	0.38	ug/l	25.0	ND	100	60-135			
2-Hexanone	25.8	10	2.6	ug/l	25.0	ND	103	25-140			
Isopropylbenzene	27.1	2.0	0.25	ug/l	25.0	ND	108	70-135			
p-Isopropyltoluene	27.5	2.0	0.28	ug/l	25.0	ND	110	65-130			
4-Methyl-2-pentanone (MIBK)	25.8	10	3.5	ug/l	25.0	ND	103	40-140			
Methylene chloride	24.4	5.0	0.95	ug/l	25.0	ND	98	50-135			
Naphthalene	28.0	5.0	0.41	ug/l	25.0	ND	112	50-140			
n-Propylbenzene	27.4	2.0	0.27	ug/l	25.0	ND	110	70-135			
Styrene	22.8	2.0	0.20	ug/l	25.0	ND	91	50-145			
1,1,1,2-Tetrachloroethane	29.0	5.0	0.27	ug/l	25.0	ND	116	65-140			
1,1,2,2-Tetrachloroethane	25.2	1.0	0.30	ug/l	25.0	ND	101	55-135			
Tetrachloroethene	28.0	2.0	0.32	ug/l	25.0	ND	112	65-130			
Toluene	26.6	2.0	0.36	ug/l	25.0	ND	107	70-125			
1,2,3-Trichlorobenzene	26.8	5.0	0.30	ug/l	25.0	ND	107	60-135			
1,2,4-Trichlorobenzene	28.1	5.0	0.48	ug/l	25.0	ND	113	65-135			
1,1,1-Trichloroethane	28.4	2.0	0.30	ug/l	25.0	ND	114	65-140			
1,1,2-Trichloroethane	26.0	2.0	0.30	ug/l	25.0	ND	104	65-130			
Trichloroethene	28.4	2.0	0.26	ug/l	25.0	ND	113	65-125			
Trichlorofluoromethane	30.4	5.0	0.34	ug/l	25.0	ND	122	60-145			
1,2,3-Trichloropropane	23.2	10	0.40	ug/l	25.0	ND	93	55-135			
1,2,4-Trimethylbenzene	25.4	2.0	0.23	ug/l	25.0	ND	102	55-135			
1,3,5-Trimethylbenzene	26.7	2.0	0.26	ug/l	25.0	ND	107	70-130			
Vinyl acetate	44.4	5.0	1.0	ug/l	25.0	ND	178	40-150			*M7*
Vinyl chloride	28.2	0.50	0.40	ug/l	25.0	ND	113	45-140			
m,p-Xylenes	54.6	2.0	0.60	ug/l	50.0	ND	109	65-130			
o-Xylene	28.2	2.0	0.30	ug/l	25.0	ND	113	65-125			
Surrogate: 4-Bromofluorobenzene	*27.8*			*ug/l*	*25.0*		*111*	*80-120*			
Surrogate: Dibromofluoromethane	*25.5*			*ug/l*	*25.0*		*102*	*80-120*			
Surrogate: Toluene-d8	*27.2*			*ug/l*	*25.0*		*109*	*80-120*			

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Report Number: ITD1858

Sampled: 04/20/10
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METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10D2678 Extracted: 04/23/10											
Matrix Spike Dup Analyzed: 04/23/2010 (10D2678-MSD1)						**Source: ITD1415-04**					
Acetone	20.4	10	4.5	ug/l	25.0	ND	82	20-150	14	35	
Benzene	23.1	2.0	0.28	ug/l	25.0	ND	92	65-125	1	20	
Bromobenzene	26.0	5.0	0.27	ug/l	25.0	ND	104	70-125	1	20	
Bromochloromethane	23.9	5.0	0.40	ug/l	25.0	ND	96	65-135	5	25	
Bromodichloromethane	28.9	2.0	0.30	ug/l	25.0	ND	115	70-135	3	20	
Bromoform	24.0	5.0	0.40	ug/l	25.0	ND	96	55-135	9	25	
Bromomethane	27.7	5.0	0.42	ug/l	25.0	ND	111	55-145	5	25	
2-Butanone (MEK)	22.1	10	4.7	ug/l	25.0	ND	88	30-145	5	40	
n-Butylbenzene	26.4	5.0	0.37	ug/l	25.0	ND	105	65-135	3	20	
sec-Butylbenzene	27.9	5.0	0.25	ug/l	25.0	ND	112	70-125	1	20	
tert-Butylbenzene	28.0	5.0	0.22	ug/l	25.0	ND	112	65-130	1	20	
Carbon Disulfide	24.4	1.0	0.48	ug/l	25.0	ND	98	40-140	2	20	
Carbon tetrachloride	29.9	0.50	0.28	ug/l	25.0	ND	120	65-140	4	25	
Chlorobenzene	25.6	2.0	0.36	ug/l	25.0	ND	103	75-125	3	20	
Chloroethane	22.2	5.0	0.40	ug/l	25.0	ND	89	55-140	8	25	
Chloroform	25.1	2.0	0.33	ug/l	25.0	ND	100	65-135	5	20	
Chloromethane	24.5	1.5	0.40	ug/l	25.0	ND	98	45-145	2	25	
2-Chlorotoluene	26.9	5.0	0.28	ug/l	25.0	ND	108	65-135	2	20	
4-Chlorotoluene	27.8	5.0	0.29	ug/l	25.0	ND	111	70-135	1	20	
1,2-Dibromo-3-chloropropane	21.8	5.0	0.97	ug/l	25.0	ND	87	45-145	10	30	
Dibromochloromethane	29.0	2.0	0.40	ug/l	25.0	ND	116	65-140	6	25	
1,2-Dibromoethane (EDB)	24.8	2.0	0.40	ug/l	25.0	ND	99	70-130	6	25	
Dibromomethane	25.1	2.0	0.36	ug/l	25.0	ND	100	65-135	7	25	
1,2-Dichlorobenzene	26.8	2.0	0.32	ug/l	25.0	ND	107	75-125	3	20	
1,3-Dichlorobenzene	26.8	2.0	0.35	ug/l	25.0	ND	107	75-125	2	20	
1,4-Dichlorobenzene	24.9	2.0	0.37	ug/l	25.0	ND	99	75-125	3	20	
Dichlorodifluoromethane	32.0	5.0	0.26	ug/l	25.0	ND	128	25-155	4	30	
1,1-Dichloroethane	23.7	2.0	0.40	ug/l	25.0	ND	95	65-130	4	20	
1,2-Dichloroethane	27.8	0.50	0.28	ug/l	25.0	ND	111	60-140	6	20	
1,1-Dichloroethene	24.2	5.0	0.42	ug/l	25.0	ND	97	60-130	1	20	
cis-1,2-Dichloroethene	25.5	2.0	0.32	ug/l	25.0	ND	102	65-130	5	20	
trans-1,2-Dichloroethene	23.8	2.0	0.30	ug/l	25.0	ND	95	65-130	3	20	
1,2-Dichloropropane	22.4	2.0	0.35	ug/l	25.0	ND	90	65-130	2	20	
1,3-Dichloropropane	23.8	2.0	0.32	ug/l	25.0	ND	95	65-135	6	25	
2,2-Dichloropropane	27.9	2.0	0.34	ug/l	25.0	ND	112	60-145	4	25	

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Geosyntec Consultants
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Huntington Beach, CA 92648
Attention: David Hawley

Project ID: Montrose-Torrance
SB0508-03 #01
Report Number: ITD1858

Sampled: 04/20/10
Received: 04/20/10

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10D2678 Extracted: 04/23/10											
Matrix Spike Dup Analyzed: 04/23/2010 (10D2678-MSD1)						**Source: ITD1415-04**					
cis-1,3-Dichloropropene	30.3	2.0	0.22	ug/l	25.0	ND	121	70-130	2	20	
trans-1,3-Dichloropropene	24.2	2.0	0.32	ug/l	25.0	ND	97	65-135	5	25	
1,1-Dichloropropene	26.4	2.0	0.28	ug/l	25.0	ND	106	70-135	3	20	
Ethylbenzene	27.2	2.0	0.25	ug/l	25.0	ND	109	65-130	5	20	
Hexachlorobutadiene	24.5	5.0	0.38	ug/l	25.0	ND	98	60-135	2	20	
2-Hexanone	22.1	10	2.6	ug/l	25.0	ND	89	25-140	15	35	
Isopropylbenzene	27.0	2.0	0.25	ug/l	25.0	ND	108	70-135	0.1	20	
p-Isopropyltoluene	27.5	2.0	0.28	ug/l	25.0	ND	110	65-130	0.2	20	
4-Methyl-2-pentanone (MIBK)	22.6	10	3.5	ug/l	25.0	ND	90	40-140	13	35	
Methylene chloride	23.9	5.0	0.95	ug/l	25.0	ND	96	50-135	2	20	
Naphthalene	25.7	5.0	0.41	ug/l	25.0	ND	103	50-140	9	30	
n-Propylbenzene	27.0	2.0	0.27	ug/l	25.0	ND	108	70-135	1	20	
Styrene	23.2	2.0	0.20	ug/l	25.0	ND	93	50-145	2	30	
1,1,1,2-Tetrachloroethane	27.9	5.0	0.27	ug/l	25.0	ND	111	65-140	4	20	
1,1,2,2-Tetrachloroethane	23.5	1.0	0.30	ug/l	25.0	ND	94	55-135	7	30	
Tetrachloroethene	27.0	2.0	0.32	ug/l	25.0	ND	108	65-130	3	20	
Toluene	26.1	2.0	0.36	ug/l	25.0	ND	104	70-125	2	20	
1,2,3-Trichlorobenzene	25.6	5.0	0.30	ug/l	25.0	ND	102	60-135	5	20	
1,2,4-Trichlorobenzene	26.8	5.0	0.48	ug/l	25.0	ND	107	65-135	5	20	
1,1,1-Trichloroethane	26.8	2.0	0.30	ug/l	25.0	ND	107	65-140	6	20	
1,1,2-Trichloroethane	24.9	2.0	0.30	ug/l	25.0	ND	100	65-130	4	25	
Trichloroethene	27.4	2.0	0.26	ug/l	25.0	ND	109	65-125	4	20	
Trichlorofluoromethane	29.1	5.0	0.34	ug/l	25.0	ND	116	60-145	4	25	
1,2,3-Trichloropropane	21.8	10	0.40	ug/l	25.0	ND	87	55-135	6	30	
1,2,4-Trimethylbenzene	26.0	2.0	0.23	ug/l	25.0	ND	104	55-135	2	25	
1,3,5-Trimethylbenzene	26.9	2.0	0.26	ug/l	25.0	ND	108	70-130	0.7	20	
Vinyl acetate	39.7	5.0	1.0	ug/l	25.0	ND	159	40-150	11	30	*M7*
Vinyl chloride	27.7	0.50	0.40	ug/l	25.0	ND	111	45-140	2	30	
m,p-Xylenes	53.6	2.0	0.60	ug/l	50.0	ND	107	65-130	2	25	
o-Xylene	27.5	2.0	0.30	ug/l	25.0	ND	110	65-125	3	20	
Surrogate: 4-Bromofluorobenzene	*26.8*			*ug/l*	*25.0*		*107*	*80-120*			
Surrogate: Dibromofluoromethane	*25.2*			*ug/l*	*25.0*		*101*	*80-120*			
Surrogate: Toluene-d8	*26.8*			*ug/l*	*25.0*		*107*	*80-120*			

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Project ID: Montrose-Torrance
SB0508-03 #01
Report Number: ITD1858

Sampled: 04/20/10
Received: 04/20/10

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10D3199 Extracted: 04/28/10											
Blank Analyzed: 04/28/2010 (10D3199-BLK1)											
Methylene chloride	ND	1.0	0.95	ug/l							
Surrogate: 4-Bromofluorobenzene	*23.9*			*ug/l*	*25.0*		*96*	*80-120*			
Surrogate: Dibromofluoromethane	*21.5*			*ug/l*	*25.0*		*86*	*80-120*			
Surrogate: Toluene-d8	*25.9*			*ug/l*	*25.0*		*104*	*80-120*			
LCS Analyzed: 04/28/2010 (10D3199-BS1)											
Methylene chloride	22.1	1.0	0.95	ug/l	25.0		88	55-130			
Surrogate: 4-Bromofluorobenzene	*25.4*			*ug/l*	*25.0*		*102*	*80-120*			
Surrogate: Dibromofluoromethane	*23.6*			*ug/l*	*25.0*		*94*	*80-120*			
Surrogate: Toluene-d8	*26.3*			*ug/l*	*25.0*		*105*	*80-120*			
Matrix Spike Analyzed: 04/28/2010 (10D3199-MS1)						**Source: ITD1717-01**					
Methylene chloride	22.6	1.0	0.95	ug/l	25.0	ND	90	50-135			
Surrogate: 4-Bromofluorobenzene	*25.2*			*ug/l*	*25.0*		*101*	*80-120*			
Surrogate: Dibromofluoromethane	*23.6*			*ug/l*	*25.0*		*94*	*80-120*			
Surrogate: Toluene-d8	*26.4*			*ug/l*	*25.0*		*105*	*80-120*			
Matrix Spike Dup Analyzed: 04/28/2010 (10D3199-MSD1)						**Source: ITD1717-01**					
Methylene chloride	22.6	1.0	0.95	ug/l	25.0	ND	90	50-135	0	20	
Surrogate: 4-Bromofluorobenzene	*24.9*			*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: Dibromofluoromethane	*23.4*			*ug/l*	*25.0*		*94*	*80-120*			
Surrogate: Toluene-d8	*26.5*			*ug/l*	*25.0*		*106*	*80-120*			
Batch: 10D3217 Extracted: 04/28/10											
Blank Analyzed: 04/28/2010 (10D3217-BLK1)											
Methylene chloride	ND	1.0	0.95	ug/l							
Surrogate: 4-Bromofluorobenzene	*23.0*			*ug/l*	*25.0*		*92*	*80-120*			
Surrogate: Dibromofluoromethane	*24.0*			*ug/l*	*25.0*		*96*	*80-120*			
Surrogate: Toluene-d8	*26.6*			*ug/l*	*25.0*		*106*	*80-120*			

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METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10D3217 Extracted: 04/28/10											
LCS Analyzed: 04/28/2010 (10D3217-BS1)											
Methylene chloride	21.1	1.0	0.95	ug/l	25.0		84	55-130			
Surrogate: 4-Bromofluorobenzene	*23.8*			*ug/l*	*25.0*		*95*	*80-120*			
Surrogate: Dibromofluoromethane	*22.6*			*ug/l*	*25.0*		*91*	*80-120*			
Surrogate: Toluene-d8	*26.1*			*ug/l*	*25.0*		*105*	*80-120*			
Matrix Spike Analyzed: 04/28/2010 (10D3217-MS1)						**Source: ITD1801-07**					
Methylene chloride	24.5	1.0	0.95	ug/l	25.0	ND	98	50-135			
Surrogate: 4-Bromofluorobenzene	*23.9*			*ug/l*	*25.0*		*96*	*80-120*			
Surrogate: Dibromofluoromethane	*23.6*			*ug/l*	*25.0*		*95*	*80-120*			
Surrogate: Toluene-d8	*27.0*			*ug/l*	*25.0*		*108*	*80-120*			
Matrix Spike Dup Analyzed: 04/28/2010 (10D3217-MSD1)						**Source: ITD1801-07**					
Methylene chloride	25.2	1.0	0.95	ug/l	25.0	ND	101	50-135	3	20	
Surrogate: 4-Bromofluorobenzene	*24.4*			*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: Dibromofluoromethane	*24.1*			*ug/l*	*25.0*		*96*	*80-120*			
Surrogate: Toluene-d8	*26.4*			*ug/l*	*25.0*		*105*	*80-120*			

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METHOD BLANK/QC DATA

PURGEABLES BY GC/MS (EPA 624)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10D2509 Extracted: 04/22/10											
Blank Analyzed: 04/22/2010 (10D2509-BLK1)											
Bromodichloromethane	ND	2.0	0.30	ug/l							
Bromoform	ND	2.0	0.40	ug/l							
Chloroform	ND	2.0	0.33	ug/l							
Dibromochloromethane	ND	2.0	0.40	ug/l							
Trihalomethanes, Total	ND	NA	N/A	ug/l							
Surrogate: 4-Bromofluorobenzene	*25.2*			*ug/l*	*25.0*		*101*	*80-120*			
Surrogate: Dibromofluoromethane	*24.6*			*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: Toluene-d8	*26.6*			*ug/l*	*25.0*		*107*	*80-120*			
LCS Analyzed: 04/22/2010 (10D2509-BS1)											
Bromodichloromethane	24.9	2.0	0.30	ug/l	25.0		100	70-135			
Bromoform	22.3	2.0	0.40	ug/l	25.0		89	55-130			
Chloroform	22.6	2.0	0.33	ug/l	25.0		90	70-130			
Dibromochloromethane	25.3	2.0	0.40	ug/l	25.0		101	70-140			
Surrogate: 4-Bromofluorobenzene	*26.7*			*ug/l*	*25.0*		*107*	*80-120*			
Surrogate: Dibromofluoromethane	*24.9*			*ug/l*	*25.0*		*99*	*80-120*			
Surrogate: Toluene-d8	*27.1*			*ug/l*	*25.0*		*108*	*80-120*			
LCS Dup Analyzed: 04/22/2010 (10D2509-BSD1)											
Bromodichloromethane	23.1	2.0	0.30	ug/l	25.0		92	70-135	8	20	
Bromoform	20.6	2.0	0.40	ug/l	25.0		82	55-130	8	25	
Chloroform	21.4	2.0	0.33	ug/l	25.0		85	70-130	6	20	
Dibromochloromethane	23.4	2.0	0.40	ug/l	25.0		94	70-140	8	20	
Surrogate: 4-Bromofluorobenzene	*26.6*			*ug/l*	*25.0*		*106*	*80-120*			
Surrogate: Dibromofluoromethane	*24.8*			*ug/l*	*25.0*		*99*	*80-120*			
Surrogate: Toluene-d8	*27.0*			*ug/l*	*25.0*		*108*	*80-120*			
Matrix Spike Analyzed: 04/22/2010 (10D2509-MS1)						**Source: ITD1951-01**					
Bromodichloromethane	27.7	2.0	0.30	ug/l	25.0	ND	111	70-135			
Bromoform	24.2	2.0	0.40	ug/l	25.0	ND	97	55-135			
Chloroform	24.9	2.0	0.33	ug/l	25.0	0.370	98	65-135			
Dibromochloromethane	28.1	2.0	0.40	ug/l	25.0	ND	113	65-140			
Surrogate: 4-Bromofluorobenzene	*26.4*			*ug/l*	*25.0*		*106*	*80-120*			
Surrogate: Dibromofluoromethane	*24.6*			*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: Toluene-d8	*26.9*			*ug/l*	*25.0*		*108*	*80-120*			

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Project ID: Montrose-Torrance SB0508-03 #01
Report Number: ITD1858

Sampled: 04/20/10
Received: 04/20/10

METHOD BLANK/QC DATA

PURGEABLES BY GC/MS (EPA 624)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10D2509 Extracted: 04/22/10											
Matrix Spike Dup Analyzed: 04/22/2010 (10D2509-MSD1)						**Source: ITD1951-01**					
Bromodichloromethane	27.4	2.0	0.30	ug/l	25.0	ND	110	70-135	1	20	
Bromoform	24.4	2.0	0.40	ug/l	25.0	ND	98	55-135	0.8	25	
Chloroform	25.0	2.0	0.33	ug/l	25.0	0.370	98	65-135	0.1	20	
Dibromochloromethane	27.9	2.0	0.40	ug/l	25.0	ND	112	65-140	0.7	25	
Surrogate: 4-Bromofluorobenzene	*26.3*			*ug/l*	*25.0*		*105*	*80-120*			
Surrogate: Dibromofluoromethane	*24.6*			*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: Toluene-d8	*27.7*			*ug/l*	*25.0*		*111*	*80-120*			
Batch: 10D2678 Extracted: 04/23/10											
Blank Analyzed: 04/23/2010 (10D2678-BLK1)											
Bromodichloromethane	ND	2.0	0.30	ug/l							
Bromoform	ND	2.0	0.40	ug/l							
Chloroform	ND	2.0	0.33	ug/l							
Dibromochloromethane	ND	2.0	0.40	ug/l							
Trihalomethanes, Total	ND	NA	N/A	ug/l							
Surrogate: 4-Bromofluorobenzene	*25.1*			*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: Dibromofluoromethane	*24.7*			*ug/l*	*25.0*		*99*	*80-120*			
Surrogate: Toluene-d8	*26.9*			*ug/l*	*25.0*		*108*	*80-120*			
LCS Analyzed: 04/23/2010 (10D2678-BS1)											
Bromodichloromethane	26.5	2.0	0.30	ug/l	25.0		106	70-135			
Bromoform	23.7	2.0	0.40	ug/l	25.0		95	55-130			
Chloroform	23.4	2.0	0.33	ug/l	25.0		94	70-130			
Dibromochloromethane	26.8	2.0	0.40	ug/l	25.0		107	70-140			
Surrogate: 4-Bromofluorobenzene	*26.2*			*ug/l*	*25.0*		*105*	*80-120*			
Surrogate: Dibromofluoromethane	*24.5*			*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: Toluene-d8	*26.7*			*ug/l*	*25.0*		*107*	*80-120*			

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METHOD BLANK/QC DATA

PURGEABLES BY GC/MS (EPA 624)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10D2678 Extracted: 04/23/10											
Matrix Spike Analyzed: 04/23/2010 (10D2678-MS1)						**Source: ITD1415-04**					
Bromodichloromethane	29.7	2.0	0.30	ug/l	25.0	ND	119	70-135			
Bromoform	26.2	2.0	0.40	ug/l	25.0	ND	105	55-135			
Chloroform	26.4	2.0	0.33	ug/l	25.0	ND	106	65-135			
Dibromochloromethane	30.6	2.0	0.40	ug/l	25.0	ND	122	65-140			
Surrogate: 4-Bromofluorobenzene	*27.8*			*ug/l*	*25.0*		*111*	*80-120*			
Surrogate: Dibromofluoromethane	*25.5*			*ug/l*	*25.0*		*102*	*80-120*			
Surrogate: Toluene-d8	*27.2*			*ug/l*	*25.0*		*109*	*80-120*			
Matrix Spike Dup Analyzed: 04/23/2010 (10D2678-MSD1)						**Source: ITD1415-04**					
Bromodichloromethane	28.9	2.0	0.30	ug/l	25.0	ND	115	70-135	3	20	
Bromoform	24.0	2.0	0.40	ug/l	25.0	ND	96	55-135	9	25	
Chloroform	25.1	2.0	0.33	ug/l	25.0	ND	100	65-135	5	20	
Dibromochloromethane	29.0	2.0	0.40	ug/l	25.0	ND	116	65-140	6	25	
Surrogate: 4-Bromofluorobenzene	*26.8*			*ug/l*	*25.0*		*107*	*80-120*			
Surrogate: Dibromofluoromethane	*25.2*			*ug/l*	*25.0*		*101*	*80-120*			
Surrogate: Toluene-d8	*26.8*			*ug/l*	*25.0*		*107*	*80-120*			

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Geosyntec Consultants
2100 Main Street, Suite 150
Huntington Beach, CA 92648
Attention: David Hawley

Project ID: Montrose-Torrance SB0508-03 #01
Report Number: ITD1858

Sampled: 04/20/10
Received: 04/20/10

METHOD BLANK/QC DATA

PURGEABLES BY GC/MS, TENTATIVELY IDENTIFIED COMPOUNDS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10D2509 Extracted: 04/22/10											
Blank Analyzed: 04/22/2010 (10D2509-BLK1)											
Cyclohexane	ND	120	N/A	ug/l							
Batch: 10D2678 Extracted: 04/23/10											
Blank Analyzed: 04/23/2010 (10D2678-BLK1)											
Cyclohexane	ND	120	N/A	ug/l							

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Sampled: 04/20/10
Received: 04/20/10

METHOD BLANK/QC DATA

SEMI-VOLATILE ORGANICS BY GC/MS (EPA 8270C)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10D2716 Extracted: 04/23/10											
Blank Analyzed: 04/26/2010 (10D2716-BLK1)											
Acenaphthene	ND	0.50	0.10	ug/l							
Acenaphthylene	ND	0.50	0.10	ug/l							
Aniline	ND	10	0.30	ug/l							
Anthracene	ND	0.50	0.10	ug/l							
Benzidine	ND	5.0	5.0	ug/l							
Benzo(a)anthracene	ND	5.0	0.10	ug/l							
Benzo(a)pyrene	ND	2.0	0.10	ug/l							
Benzo(b)fluoranthene	ND	2.0	0.10	ug/l							
Benzo(g,h,i)perylene	ND	5.0	0.10	ug/l							
Benzo(k)fluoranthene	ND	0.50	0.10	ug/l							
Benzoic acid	ND	20	3.0	ug/l							
Benzyl alcohol	ND	5.0	0.10	ug/l							
4-Bromophenyl phenyl ether	ND	1.0	0.10	ug/l							
Butyl benzyl phthalate	ND	5.0	0.70	ug/l							
4-Chloro-3-methylphenol	ND	2.0	0.20	ug/l							
4-Chloroaniline	ND	2.0	0.10	ug/l							
Bis(2-chloroethoxy)methane	ND	0.50	0.10	ug/l							
Bis(2-chloroethyl)ether	ND	0.50	0.10	ug/l							
Bis(2-chloroisopropyl)ether	ND	0.50	0.10	ug/l							
Bis(2-ethylhexyl)phthalate	ND	5.0	1.7	ug/l							
2-Chloronaphthalene	ND	0.50	0.10	ug/l							
2-Chlorophenol	ND	1.0	0.20	ug/l							
4-Chlorophenyl phenyl ether	ND	0.50	0.10	ug/l							
Chrysene	ND	0.50	0.10	ug/l							
Dibenz(a,h)anthracene	ND	0.50	0.10	ug/l							
Dibenzofuran	ND	0.50	0.10	ug/l							
Di-n-butyl phthalate	ND	2.0	0.20	ug/l							
1,2-Dichlorobenzene	ND	0.50	0.10	ug/l							
1,3-Dichlorobenzene	ND	0.50	0.10	ug/l							
1,4-Dichlorobenzene	ND	0.50	0.20	ug/l							
3,3'-Dichlorobenzidine	ND	5.0	5.0	ug/l							
2,4-Dichlorophenol	ND	2.0	0.20	ug/l							
Diethyl phthalate	ND	1.0	0.10	ug/l							
2,4-Dimethylphenol	ND	2.0	0.30	ug/l							
Dimethyl phthalate	ND	0.50	0.10	ug/l							

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SEMI-VOLATILE ORGANICS BY GC/MS (EPA 8270C)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10D2716 Extracted: 04/23/10											
Blank Analyzed: 04/26/2010 (10D2716-BLK1)											
4,6-Dinitro-2-methylphenol	ND	5.0	0.20	ug/l							
2,4-Dinitrophenol	ND	5.0	0.90	ug/l							
2,4-Dinitrotoluene	ND	5.0	0.20	ug/l							
2,6-Dinitrotoluene	ND	5.0	0.10	ug/l							
Di-n-octyl phthalate	ND	5.0	0.10	ug/l							
1,2-Diphenylhydrazine/Azobenzene	ND	1.0	0.10	ug/l							
Fluoranthene	ND	0.50	0.10	ug/l							
Fluorene	ND	0.50	0.10	ug/l							
Hexachlorobenzene	ND	1.0	0.10	ug/l							
Hexachlorobutadiene	ND	2.0	0.20	ug/l							
Hexachlorocyclopentadiene	ND	5.0	0.10	ug/l							
Hexachloroethane	ND	3.0	0.20	ug/l							
Indeno(1,2,3-cd)pyrene	ND	2.0	0.10	ug/l							
Isophorone	ND	1.0	0.10	ug/l							
2-Methylnaphthalene	ND	1.0	0.10	ug/l							
2-Methylphenol	ND	2.0	0.10	ug/l							
4-Methylphenol	ND	5.0	0.20	ug/l							
Naphthalene	ND	1.0	0.10	ug/l							
2-Nitroaniline	ND	5.0	0.10	ug/l							
3-Nitroaniline	ND	5.0	0.20	ug/l							
4-Nitroaniline	ND	5.0	0.50	ug/l							
Nitrobenzene	ND	1.0	0.10	ug/l							
2-Nitrophenol	ND	2.0	0.10	ug/l							
4-Nitrophenol	ND	5.0	2.5	ug/l							
N-Nitroso-di-n-propylamine	ND	2.0	0.10	ug/l							
N-Nitrosodimethylamine	ND	2.0	0.10	ug/l							
N-Nitrosodiphenylamine	ND	1.0	0.10	ug/l							
Pentachlorophenol	ND	2.0	0.10	ug/l							
Phenanthrene	ND	0.50	0.10	ug/l							
Phenol	ND	1.0	0.30	ug/l							
Pyrene	ND	0.50	0.10	ug/l							
1,2,4-Trichlorobenzene	ND	1.0	0.10	ug/l							
2,4,5-Trichlorophenol	ND	2.0	0.20	ug/l							
2,4,6-Trichlorophenol	ND	1.0	0.10	ug/l							
Surrogate: 2,4,6-Tribromophenol	*15.6*			*ug/l*	*20.0*		*78*	*40-120*			

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Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10D2716 Extracted: 04/23/10											
Blank Analyzed: 04/26/2010 (10D2716-BLK1)											
Surrogate: 2-Fluorobiphenyl	*7.92*			*ug/l*	*10.0*		*79*	*50-120*			
Surrogate: 2-Fluorophenol	*13.3*			*ug/l*	*20.0*		*66*	*30-120*			
Surrogate: Nitrobenzene-d5	*6.84*			*ug/l*	*10.0*		*68*	*45-120*			
Surrogate: Phenol-d6	*13.6*			*ug/l*	*20.0*		*68*	*35-120*			
Surrogate: Terphenyl-d14	*9.12*			*ug/l*	*10.0*		*91*	*50-125*			
LCS Analyzed: 04/26/2010 (10D2716-BS1)											**MNR1**
Acenaphthene	8.04	0.50	0.10	ug/l	10.0		80	60-120			
Acenaphthylene	8.38	0.50	0.10	ug/l	10.0		84	60-120			
Aniline	7.86	10	0.30	ug/l	10.0		79	35-120			*J*
Anthracene	8.48	0.50	0.10	ug/l	10.0		85	65-120			
Benzidine	7.12	5.0	5.0	ug/l	10.0		71	30-160			
Benzo(a)anthracene	8.72	5.0	0.10	ug/l	10.0		87	65-120			
Benzo(a)pyrene	9.00	2.0	0.10	ug/l	10.0		90	55-130			
Benzo(b)fluoranthene	9.04	2.0	0.10	ug/l	10.0		90	55-125			
Benzo(g,h,i)perylene	9.90	5.0	0.10	ug/l	10.0		99	45-135			
Benzo(k)fluoranthene	9.08	0.50	0.10	ug/l	10.0		91	50-125			
Benzoic acid	8.10	20	3.0	ug/l	10.0		81	25-120			*J*
Benzyl alcohol	8.02	5.0	0.10	ug/l	10.0		80	50-120			
4-Bromophenyl phenyl ether	8.94	1.0	0.10	ug/l	10.0		89	60-120			
Butyl benzyl phthalate	9.28	5.0	0.70	ug/l	10.0		93	55-130			
4-Chloro-3-methylphenol	8.16	2.0	0.20	ug/l	10.0		82	60-120			
4-Chloroaniline	8.30	2.0	0.10	ug/l	10.0		83	55-120			
Bis(2-chloroethoxy)methane	7.74	0.50	0.10	ug/l	10.0		77	55-120			
Bis(2-chloroethyl)ether	7.10	0.50	0.10	ug/l	10.0		71	50-120			
Bis(2-chloroisopropyl)ether	7.06	0.50	0.10	ug/l	10.0		71	45-120			
Bis(2-ethylhexyl)phthalate	10.1	5.0	1.7	ug/l	10.0		101	65-130			
2-Chloronaphthalene	8.08	0.50	0.10	ug/l	10.0		81	60-120			
2-Chlorophenol	6.94	1.0	0.20	ug/l	10.0		69	45-120			
4-Chlorophenyl phenyl ether	9.16	0.50	0.10	ug/l	10.0		92	65-120			
Chrysene	9.00	0.50	0.10	ug/l	10.0		90	65-120			
Dibenz(a,h)anthracene	8.98	0.50	0.10	ug/l	10.0		90	50-135			
Dibenzofuran	8.38	0.50	0.10	ug/l	10.0		84	65-120			
Di-n-butyl phthalate	8.96	2.0	0.20	ug/l	10.0		90	60-125			
1,2-Dichlorobenzene	6.34	0.50	0.10	ug/l	10.0		63	40-120			
1,3-Dichlorobenzene	6.02	0.50	0.10	ug/l	10.0		60	35-120			

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Project ID: Montrose-Torrance
SB0508-03 #01
Report Number: ITD1858

Sampled: 04/20/10
Received: 04/20/10

METHOD BLANK/QC DATA

SEMI-VOLATILE ORGANICS BY GC/MS (EPA 8270C)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10D2716 Extracted: 04/23/10											
LCS Analyzed: 04/26/2010 (10D2716-BS1)											**MNR1**
1,4-Dichlorobenzene	6.22	0.50	0.20	ug/l	10.0		62	35-120			
3,3'-Dichlorobenzidine	8.10	5.0	5.0	ug/l	10.0		81	45-135			
2,4-Dichlorophenol	8.68	2.0	0.20	ug/l	10.0		87	55-120			
Diethyl phthalate	8.66	1.0	0.10	ug/l	10.0		87	55-120			
2,4-Dimethylphenol	6.90	2.0	0.30	ug/l	10.0		69	40-120			
Dimethyl phthalate	9.22	0.50	0.10	ug/l	10.0		92	30-120			
4,6-Dinitro-2-methylphenol	8.52	5.0	0.20	ug/l	10.0		85	45-120			
2,4-Dinitrophenol	7.44	5.0	0.90	ug/l	10.0		74	40-120			
2,4-Dinitrotoluene	8.70	5.0	0.20	ug/l	10.0		87	65-120			
2,6-Dinitrotoluene	9.26	5.0	0.10	ug/l	10.0		93	65-120			
Di-n-octyl phthalate	9.24	5.0	0.10	ug/l	10.0		92	65-135			
1,2-Diphenylhydrazine/Azobenzene	9.08	1.0	0.10	ug/l	10.0		91	60-120			
Fluoranthene	8.98	0.50	0.10	ug/l	10.0		90	60-120			
Fluorene	9.06	0.50	0.10	ug/l	10.0		91	65-120			
Hexachlorobenzene	8.80	1.0	0.10	ug/l	10.0		88	60-120			
Hexachlorobutadiene	5.66	2.0	0.20	ug/l	10.0		57	40-120			
Hexachlorocyclopentadiene	6.52	5.0	0.10	ug/l	10.0		65	25-120			
Hexachloroethane	5.42	3.0	0.20	ug/l	10.0		54	35-120			
Indeno(1,2,3-cd)pyrene	9.80	2.0	0.10	ug/l	10.0		98	45-135			
Isophorone	8.12	1.0	0.10	ug/l	10.0		81	50-120			
2-Methylnaphthalene	7.60	1.0	0.10	ug/l	10.0		76	55-120			
2-Methylphenol	7.40	2.0	0.10	ug/l	10.0		74	50-120			
4-Methylphenol	8.08	5.0	0.20	ug/l	10.0		81	50-120			
Naphthalene	7.14	1.0	0.10	ug/l	10.0		71	55-120			
2-Nitroaniline	8.64	5.0	0.10	ug/l	10.0		86	65-120			
3-Nitroaniline	8.50	5.0	0.20	ug/l	10.0		85	60-120			
4-Nitroaniline	9.58	5.0	0.50	ug/l	10.0		96	55-125			
Nitrobenzene	7.34	1.0	0.10	ug/l	10.0		73	55-120			
2-Nitrophenol	7.52	2.0	0.10	ug/l	10.0		75	50-120			
4-Nitrophenol	9.46	5.0	2.5	ug/l	10.0		95	45-120			
N-Nitroso-di-n-propylamine	7.78	2.0	0.10	ug/l	10.0		78	45-120			
N-Nitrosodimethylamine	7.44	2.0	0.10	ug/l	10.0		74	45-120			
N-Nitrosodiphenylamine	8.42	1.0	0.10	ug/l	10.0		84	60-120			
Pentachlorophenol	8.36	2.0	0.10	ug/l	10.0		84	50-120			
Phenanthrene	8.44	0.50	0.10	ug/l	10.0		84	65-120			

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Project ID: Montrose-Torrance SB0508-03 #01
Report Number: ITD1858

Sampled: 04/20/10
Received: 04/20/10

METHOD BLANK/QC DATA

SEMI-VOLATILE ORGANICS BY GC/MS (EPA 8270C)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10D2716 Extracted: 04/23/10											
LCS Analyzed: 04/26/2010 (10D2716-BS1)											**MNR1**
Phenol	6.46	1.0	0.30	ug/l	10.0		65	40-120			
Pyrene	8.80	0.50	0.10	ug/l	10.0		88	55-125			
1,2,4-Trichlorobenzene	6.54	1.0	0.10	ug/l	10.0		65	45-120			
2,4,5-Trichlorophenol	8.62	2.0	0.20	ug/l	10.0		86	55-120			
2,4,6-Trichlorophenol	8.56	1.0	0.10	ug/l	10.0		86	55-120			
Surrogate: 2,4,6-Tribromophenol	*18.5*			*ug/l*	*20.0*		*93*	*40-120*			
Surrogate: 2-Fluorobiphenyl	*8.20*			*ug/l*	*10.0*		*82*	*50-120*			
Surrogate: 2-Fluorophenol	*13.0*			*ug/l*	*20.0*		*65*	*30-120*			
Surrogate: Nitrobenzene-d5	*7.32*			*ug/l*	*10.0*		*73*	*45-120*			
Surrogate: Phenol-d6	*14.3*			*ug/l*	*20.0*		*72*	*35-120*			
Surrogate: Terphenyl-d14	*9.04*			*ug/l*	*10.0*		*90*	*50-125*			
LCS Dup Analyzed: 04/26/2010 (10D2716-BSD1)											
Acenaphthene	7.62	0.50	0.10	ug/l	10.0		76	60-120	5	20	
Acenaphthylene	7.80	0.50	0.10	ug/l	10.0		78	60-120	7	20	
Aniline	7.72	10	0.30	ug/l	10.0		77	35-120	2	30	*J*
Anthracene	8.18	0.50	0.10	ug/l	10.0		82	65-120	4	20	
Benzidine	5.96	5.0	5.0	ug/l	10.0		60	30-160	18	35	
Benzo(a)anthracene	8.66	5.0	0.10	ug/l	10.0		87	65-120	0.7	20	
Benzo(a)pyrene	8.74	2.0	0.10	ug/l	10.0		87	55-130	3	25	
Benzo(b)fluoranthene	8.98	2.0	0.10	ug/l	10.0		90	55-125	0.7	25	
Benzo(g,h,i)perylene	9.74	5.0	0.10	ug/l	10.0		97	45-135	2	25	
Benzo(k)fluoranthene	8.70	0.50	0.10	ug/l	10.0		87	50-125	4	20	
Benzoic acid	8.04	20	3.0	ug/l	10.0		80	25-120	0.7	30	*J*
Benzyl alcohol	7.26	5.0	0.10	ug/l	10.0		73	50-120	10	20	
4-Bromophenyl phenyl ether	8.16	1.0	0.10	ug/l	10.0		82	60-120	9	25	
Butyl benzyl phthalate	8.94	5.0	0.70	ug/l	10.0		89	55-130	4	20	
4-Chloro-3-methylphenol	7.84	2.0	0.20	ug/l	10.0		78	60-120	4	25	
4-Chloroaniline	7.52	2.0	0.10	ug/l	10.0		75	55-120	10	25	
Bis(2-chloroethoxy)methane	7.28	0.50	0.10	ug/l	10.0		73	55-120	6	20	
Bis(2-chloroethyl)ether	6.94	0.50	0.10	ug/l	10.0		69	50-120	2	20	
Bis(2-chloroisopropyl)ether	6.70	0.50	0.10	ug/l	10.0		67	45-120	5	20	
Bis(2-ethylhexyl)phthalate	10.2	5.0	1.7	ug/l	10.0		102	65-130	0.4	20	
2-Chloronaphthalene	7.64	0.50	0.10	ug/l	10.0		76	60-120	6	20	
2-Chlorophenol	6.80	1.0	0.20	ug/l	10.0		68	45-120	2	25	
4-Chlorophenyl phenyl ether	8.48	0.50	0.10	ug/l	10.0		85	65-120	8	20	

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Received: 04/20/10

METHOD BLANK/QC DATA

SEMI-VOLATILE ORGANICS BY GC/MS (EPA 8270C)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10D2716 Extracted: 04/23/10											
LCS Dup Analyzed: 04/26/2010 (10D2716-BSD1)											
Chrysene	8.70	0.50	0.10	ug/l	10.0		87	65-120	3	20	
Dibenz(a,h)anthracene	9.10	0.50	0.10	ug/l	10.0		91	50-135	1	25	
Dibenzofuran	7.90	0.50	0.10	ug/l	10.0		79	65-120	6	20	
Di-n-butyl phthalate	8.62	2.0	0.20	ug/l	10.0		86	60-125	4	20	
1,2-Dichlorobenzene	5.92	0.50	0.10	ug/l	10.0		59	40-120	7	25	
1,3-Dichlorobenzene	5.60	0.50	0.10	ug/l	10.0		56	35-120	7	25	
1,4-Dichlorobenzene	5.80	0.50	0.20	ug/l	10.0		58	35-120	7	25	
3,3'-Dichlorobenzidine	7.20	5.0	5.0	ug/l	10.0		72	45-135	12	25	
2,4-Dichlorophenol	8.08	2.0	0.20	ug/l	10.0		81	55-120	7	20	
Diethyl phthalate	8.10	1.0	0.10	ug/l	10.0		81	55-120	7	30	
2,4-Dimethylphenol	6.58	2.0	0.30	ug/l	10.0		66	40-120	5	25	
Dimethyl phthalate	8.60	0.50	0.10	ug/l	10.0		86	30-120	7	30	
4,6-Dinitro-2-methylphenol	7.82	5.0	0.20	ug/l	10.0		78	45-120	9	25	
2,4-Dinitrophenol	7.40	5.0	0.90	ug/l	10.0		74	40-120	0.5	25	
2,4-Dinitrotoluene	8.28	5.0	0.20	ug/l	10.0		83	65-120	5	20	
2,6-Dinitrotoluene	8.52	5.0	0.10	ug/l	10.0		85	65-120	8	20	
Di-n-octyl phthalate	9.18	5.0	0.10	ug/l	10.0		92	65-135	0.7	20	
1,2-Diphenylhydrazine/Azobenzene	8.50	1.0	0.10	ug/l	10.0		85	60-120	7	25	
Fluoranthene	8.56	0.50	0.10	ug/l	10.0		86	60-120	5	20	
Fluorene	8.42	0.50	0.10	ug/l	10.0		84	65-120	7	20	
Hexachlorobenzene	8.48	1.0	0.10	ug/l	10.0		85	60-120	4	20	
Hexachlorobutadiene	4.86	2.0	0.20	ug/l	10.0		49	40-120	15	25	
Hexachlorocyclopentadiene	5.16	5.0	0.10	ug/l	10.0		52	25-120	23	30	
Hexachloroethane	4.66	3.0	0.20	ug/l	10.0		47	35-120	15	25	
Indeno(1,2,3-cd)pyrene	9.56	2.0	0.10	ug/l	10.0		96	45-135	2	25	
Isophorone	7.54	1.0	0.10	ug/l	10.0		75	50-120	7	20	
2-Methylnaphthalene	7.22	1.0	0.10	ug/l	10.0		72	55-120	5	20	
2-Methylphenol	7.18	2.0	0.10	ug/l	10.0		72	50-120	3	20	
4-Methylphenol	7.48	5.0	0.20	ug/l	10.0		75	50-120	8	20	
Naphthalene	6.80	1.0	0.10	ug/l	10.0		68	55-120	5	20	
2-Nitroaniline	8.32	5.0	0.10	ug/l	10.0		83	65-120	4	20	
3-Nitroaniline	8.04	5.0	0.20	ug/l	10.0		80	60-120	6	25	
4-Nitroaniline	9.06	5.0	0.50	ug/l	10.0		91	55-125	6	20	
Nitrobenzene	7.00	1.0	0.10	ug/l	10.0		70	55-120	5	25	
2-Nitrophenol	6.96	2.0	0.10	ug/l	10.0		70	50-120	8	25	

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Project Manager

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17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

Geosyntec Consultants
2100 Main Street, Suite 150
Huntington Beach, CA 92648
Attention: David Hawley

Project ID: Montrose-Torrance SB0508-03 #01
Report Number: ITD1858

Sampled: 04/20/10
Received: 04/20/10

METHOD BLANK/QC DATA

SEMI-VOLATILE ORGANICS BY GC/MS (EPA 8270C)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10D2716 Extracted: 04/23/10											
LCS Dup Analyzed: 04/26/2010 (10D2716-BSD1)											
4-Nitrophenol	8.40	5.0	2.5	ug/l	10.0		84	45-120	12	30	
N-Nitroso-di-n-propylamine	7.28	2.0	0.10	ug/l	10.0		73	45-120	7	20	
N-Nitrosodimethylamine	6.58	2.0	0.10	ug/l	10.0		66	45-120	12	20	
N-Nitrosodiphenylamine	8.14	1.0	0.10	ug/l	10.0		81	60-120	3	20	
Pentachlorophenol	8.46	2.0	0.10	ug/l	10.0		85	50-120	1	25	
Phenanthrene	8.12	0.50	0.10	ug/l	10.0		81	65-120	4	20	
Phenol	6.16	1.0	0.30	ug/l	10.0		62	40-120	5	25	
Pyrene	8.38	0.50	0.10	ug/l	10.0		84	55-125	5	25	
1,2,4-Trichlorobenzene	5.90	1.0	0.10	ug/l	10.0		59	45-120	10	20	
2,4,5-Trichlorophenol	8.36	2.0	0.20	ug/l	10.0		84	55-120	3	30	
2,4,6-Trichlorophenol	8.04	1.0	0.10	ug/l	10.0		80	55-120	6	30	
Surrogate: 2,4,6-Tribromophenol	*18.4*			*ug/l*	*20.0*		*92*	*40-120*			
Surrogate: 2-Fluorobiphenyl	*7.84*			*ug/l*	*10.0*		*78*	*50-120*			
Surrogate: 2-Fluorophenol	*12.4*			*ug/l*	*20.0*		*62*	*30-120*			
Surrogate: Nitrobenzene-d5	*6.98*			*ug/l*	*10.0*		*70*	*45-120*			
Surrogate: Phenol-d6	*13.5*			*ug/l*	*20.0*		*68*	*35-120*			
Surrogate: Terphenyl-d14	*9.00*			*ug/l*	*10.0*		*90*	*50-125*			

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Geosyntec Consultants
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Huntington Beach, CA 92648
Attention: David Hawley

Project ID: Montrose-Torrance SB0508-03 #01
Report Number: ITD1858

Sampled: 04/20/10
Received: 04/20/10

METHOD BLANK/QC DATA

ORGANOCHLORINE PESTICIDES (EPA 3510C/8081A)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10D2584 Extracted: 04/22/10											
Blank Analyzed: 04/22/2010 (10D2584-BLK1)											
2,4'-DDD	ND	0.10	0.020	ug/l							
2,4'-DDE	ND	0.10	0.020	ug/l							
2,4'-DDT	ND	0.10	0.020	ug/l							
4,4'-DDD	ND	0.10	0.030	ug/l							
4,4'-DDE	ND	0.10	0.030	ug/l							
4,4'-DDT	ND	0.10	0.030	ug/l							
Aldrin	ND	0.0050	0.0015	ug/l							
alpha-BHC	ND	0.0050	0.0025	ug/l							
beta-BHC	ND	0.010	0.0040	ug/l							
delta-BHC	ND	0.20	0.020	ug/l							
Dieldrin	ND	0.0050	0.0020	ug/l							
Endosulfan I	ND	0.10	0.030	ug/l							
Endosulfan II	ND	0.10	0.040	ug/l							
Endosulfan sulfate	ND	0.20	0.050	ug/l							
Endrin	ND	0.10	0.030	ug/l							
Endrin aldehyde	ND	0.10	0.050	ug/l							
Endrin ketone	ND	0.10	0.040	ug/l							
gamma-BHC (Lindane)	ND	0.10	0.030	ug/l							
Heptachlor	ND	0.010	0.0030	ug/l							
Heptachlor epoxide	ND	0.0050	0.0025	ug/l							
Methoxychlor	ND	0.10	0.040	ug/l							
Chlordane	ND	0.10	0.040	ug/l							
Toxaphene	ND	0.50	0.25	ug/l							
Surrogate: Decachlorobiphenyl	*0.401*			*ug/l*	*0.500*		*80*	*45-120*			
Surrogate: Tetrachloro-m-xylene	*0.377*			*ug/l*	*0.500*		*75*	*35-120*			
LCS Analyzed: 04/22/2010 (10D2584-BS1)											**MNR1**
2,4'-DDD	0.457	0.10	0.020	ug/l	0.500		91	55-120			
2,4'-DDE	0.452	0.10	0.020	ug/l	0.500		90	50-120			
2,4'-DDT	0.492	0.10	0.020	ug/l	0.500		98	55-120			
4,4'-DDD	0.504	0.10	0.030	ug/l	0.500		101	55-120			
4,4'-DDE	0.433	0.10	0.030	ug/l	0.500		87	50-120			
4,4'-DDT	0.457	0.10	0.030	ug/l	0.500		91	55-120			
Aldrin	0.414	0.0050	0.0015	ug/l	0.500		83	40-115			
alpha-BHC	0.402	0.0050	0.0025	ug/l	0.500		80	45-115			
beta-BHC	0.419	0.010	0.0040	ug/l	0.500		84	55-115			

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Project ID: Montrose-Torrance
SB0508-03 #01
Report Number: ITD1858

Sampled: 04/20/10
Received: 04/20/10

METHOD BLANK/QC DATA

ORGANOCHLORINE PESTICIDES (EPA 3510C/8081A)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10D2584 Extracted: 04/22/10											
LCS Analyzed: 04/22/2010 (10D2584-BS1)											**MNR1**
delta-BHC	0.429	0.20	0.020	ug/l	0.500		86	55-115			
Dieldrin	0.454	0.0050	0.0020	ug/l	0.500		91	55-115			
Endosulfan I	0.437	0.10	0.030	ug/l	0.500		87	55-115			
Endosulfan II	0.439	0.10	0.040	ug/l	0.500		88	55-120			
Endosulfan sulfate	0.469	0.20	0.050	ug/l	0.500		94	60-120			
Endrin	0.463	0.10	0.030	ug/l	0.500		93	55-115			
Endrin aldehyde	0.431	0.10	0.050	ug/l	0.500		86	50-120			
Endrin ketone	0.462	0.10	0.040	ug/l	0.500		92	55-120			
gamma-BHC (Lindane)	0.407	0.10	0.030	ug/l	0.500		81	45-115			
Heptachlor	0.438	0.010	0.0030	ug/l	0.500		88	45-115			
Heptachlor epoxide	0.461	0.0050	0.0025	ug/l	0.500		92	55-115			
Methoxychlor	0.478	0.10	0.040	ug/l	0.500		96	60-120			
Surrogate: Decachlorobiphenyl	*0.415*			*ug/l*	*0.500*		*83*	*45-120*			
Surrogate: Tetrachloro-m-xylene	*0.394*			*ug/l*	*0.500*		*79*	*35-120*			
LCS Dup Analyzed: 04/22/2010 (10D2584-BSD1)											
2,4'-DDD	0.455	0.10	0.020	ug/l	0.500		91	55-120	0.3	30	
2,4'-DDE	0.445	0.10	0.020	ug/l	0.500		89	50-120	2	30	
2,4'-DDT	0.486	0.10	0.020	ug/l	0.500		97	55-120	1	30	
4,4'-DDD	0.505	0.10	0.030	ug/l	0.500		101	55-120	0.3	30	
4,4'-DDE	0.429	0.10	0.030	ug/l	0.500		86	50-120	1	30	
4,4'-DDT	0.454	0.10	0.030	ug/l	0.500		91	55-120	0.6	30	
Aldrin	0.405	0.0050	0.0015	ug/l	0.500		81	40-115	2	30	
alpha-BHC	0.394	0.0050	0.0025	ug/l	0.500		79	45-115	2	30	
beta-BHC	0.414	0.010	0.0040	ug/l	0.500		83	55-115	1	30	
delta-BHC	0.424	0.20	0.020	ug/l	0.500		85	55-115	1	30	
Dieldrin	0.454	0.0050	0.0020	ug/l	0.500		91	55-115	0.008	30	
Endosulfan I	0.433	0.10	0.030	ug/l	0.500		87	55-115	0.7	30	
Endosulfan II	0.443	0.10	0.040	ug/l	0.500		89	55-120	0.8	30	
Endosulfan sulfate	0.469	0.20	0.050	ug/l	0.500		94	60-120	0.1	30	
Endrin	0.464	0.10	0.030	ug/l	0.500		93	55-115	0.2	30	
Endrin aldehyde	0.448	0.10	0.050	ug/l	0.500		90	50-120	4	30	
Endrin ketone	0.463	0.10	0.040	ug/l	0.500		93	55-120	0.2	30	
gamma-BHC (Lindane)	0.401	0.10	0.030	ug/l	0.500		80	45-115	2	30	
Heptachlor	0.432	0.010	0.0030	ug/l	0.500		86	45-115	1	30	
Heptachlor epoxide	0.422	0.0050	0.0025	ug/l	0.500		84	55-115	9	30	

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Geosyntec Consultants 2100 Main Street, Suite 150 Huntington Beach, CA 92648 Attention: David Hawley	Project ID: Montrose-Torrance SB0508-03 #01 Report Number: ITD1858	Sampled: 04/20/10 Received: 04/20/10	

METHOD BLANK/QC DATA

ORGANOCHLORINE PESTICIDES (EPA 3510C/8081A)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10D2584 Extracted: 04/22/10											
LCS Dup Analyzed: 04/22/2010 (10D2584-BSD1)											
Methoxychlor	0.477	0.10	0.040	ug/l	0.500		95	60-120	0.3	30	
Surrogate: Decachlorobiphenyl	*0.415*			*ug/l*	*0.500*		*83*	*45-120*			
Surrogate: Tetrachloro-m-xylene	*0.387*			*ug/l*	*0.500*		*77*	*35-120*			

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Project Manager

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Attention: David Hawley

Project ID: Montrose-Torrance SB0508-03 #01
Report Number: ITD1858

Sampled: 04/20/10
Received: 04/20/10

METHOD BLANK/QC DATA

POLYCHLORINATED BIPHENYLS (EPA 3510C/8082)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10D2584 Extracted: 04/22/10											
Blank Analyzed: 04/22/2010 (10D2584-BLK1)											
Aroclor 1016	ND	1.0	0.25	ug/l							
Aroclor 1221	ND	1.0	0.25	ug/l							
Aroclor 1232	ND	1.0	0.25	ug/l							
Aroclor 1242	ND	1.0	0.25	ug/l							
Aroclor 1248	ND	1.0	0.25	ug/l							
Aroclor 1254	ND	1.0	0.25	ug/l							
Aroclor 1260	ND	1.0	0.25	ug/l							
Surrogate: Decachlorobiphenyl	*0.479*			*ug/l*	*0.500*		*96*	*45-120*			
LCS Analyzed: 04/22/2010 (10D2584-BS2)											**MNR1**
Aroclor 1016	3.37	1.0	0.25	ug/l	4.00		84	50-115			
Aroclor 1260	3.64	1.0	0.25	ug/l	4.00		91	60-120			
Surrogate: Decachlorobiphenyl	*0.476*			*ug/l*	*0.500*		*95*	*45-120*			
LCS Dup Analyzed: 04/22/2010 (10D2584-BSD2)											
Aroclor 1016	3.41	1.0	0.25	ug/l	4.00		85	50-115	1	30	
Aroclor 1260	3.64	1.0	0.25	ug/l	4.00		91	60-120	0.02	25	
Surrogate: Decachlorobiphenyl	*0.480*			*ug/l*	*0.500*		*96*	*45-120*			

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Report Number: ITD1858

Sampled: 04/20/10
Received: 04/20/10

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10D2394 Extracted: 04/21/10											
Blank Analyzed: 04/21/2010 (10D2394-BLK1)											
Chromium	ND	2.0	0.90	ug/l							
LCS Analyzed: 04/21/2010 (10D2394-BS1)											
Chromium	86.0	2.0	0.90	ug/l	80.0		107	80-120			
Matrix Spike Analyzed: 04/21/2010 (10D2394-MS1)						**Source: ITD1858-01**					
Chromium	90.8	2.0	0.90	ug/l	80.0	2.15	111	75-125			
Matrix Spike Dup Analyzed: 04/21/2010 (10D2394-MSD1)						**Source: ITD1858-01**					
Chromium	89.9	2.0	0.90	ug/l	80.0	2.15	110	75-125	1	20	
Batch: 10D2432 Extracted: 04/21/10											
Blank Analyzed: 04/21/2010 (10D2432-BLK1)											
Mercury	ND	0.00020	0.00010	mg/l							
LCS Analyzed: 04/21/2010 (10D2432-BS1)											
Mercury	0.00836	0.00020	0.00010	mg/l	0.00800		104	80-120			
Matrix Spike Analyzed: 04/21/2010 (10D2432-MS1)						**Source: ITD1494-18**					
Mercury	0.00808	0.00020	0.00010	mg/l	0.00800	ND	101	70-130			
Matrix Spike Dup Analyzed: 04/21/2010 (10D2432-MSD1)						**Source: ITD1494-18**					
Mercury	0.00812	0.00020	0.00010	mg/l	0.00800	ND	101	70-130	0.4	20	
Batch: 10D2590 Extracted: 04/22/10											
Blank Analyzed: 04/22/2010 (10D2590-BLK1)											
Aluminum	ND	0.050	0.040	mg/l							
Boron	ND	0.050	0.020	mg/l							
Calcium	ND	0.10	0.050	mg/l							
Copper	ND	0.010	0.0030	mg/l							
Iron	ND	0.040	0.015	mg/l							
Magnesium	ND	0.020	0.012	mg/l							
Manganese	ND	0.020	0.0070	mg/l							
Potassium	ND	0.50	0.37	mg/l							
Silicon	ND	0.050	0.013	mg/l							
Sodium	ND	0.50	0.19	mg/l							
Zinc	ND	0.020	0.0060	mg/l							

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Attention: David Hawley

Project ID: Montrose-Torrance SB0508-03 #01
Report Number: ITD1858

Sampled: 04/20/10
Received: 04/20/10

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10D2590 Extracted: 04/22/10											
LCS Analyzed: 04/22/2010 (10D2590-BS1)											
Aluminum	1.05	0.050	0.040	mg/l	1.00		105	80-120			
Boron	1.03	0.050	0.020	mg/l	1.00		103	80-120			
Calcium	5.10	0.10	0.050	mg/l	5.00		102	80-120			
Copper	1.01	0.010	0.0030	mg/l	1.00		101	80-120			
Iron	1.02	0.040	0.015	mg/l	1.00		102	80-120			
Magnesium	5.19	0.020	0.012	mg/l	5.00		104	80-120			
Manganese	1.02	0.020	0.0070	mg/l	1.00		102	80-120			
Potassium	10.1	0.50	0.37	mg/l	10.0		101	80-120			
Silicon	5.02	0.050	0.013	mg/l	5.00		100	80-120			
Sodium	10.2	0.50	0.19	mg/l	10.0		102	80-120			
Zinc	0.977	0.020	0.0060	mg/l	1.00		98	80-120			
Matrix Spike Analyzed: 04/22/2010 (10D2590-MS1)						**Source: ITD1858-01**					
Aluminum	1.04	0.050	0.040	mg/l	1.00	ND	104	75-125			
Boron	1.18	0.050	0.020	mg/l	1.00	0.155	103	75-125			
Calcium	180	0.10	0.050	mg/l	5.00	181	-19	75-125			*MHA*
Copper	1.02	0.010	0.0030	mg/l	1.00	ND	102	75-125			
Iron	1.33	0.040	0.015	mg/l	1.00	0.355	97	75-125			
Magnesium	51.3	0.020	0.012	mg/l	5.00	46.5	95	75-125			*MHA*
Manganese	1.40	0.020	0.0070	mg/l	1.00	0.453	95	75-125			
Potassium	19.1	0.50	0.37	mg/l	10.0	9.35	97	75-125			
Silicon	17.7	0.050	0.013	mg/l	5.00	12.8	99	75-125			
Sodium	110	0.50	0.19	mg/l	10.0	102	78	75-125			*MHA*
Zinc	0.947	0.020	0.0060	mg/l	1.00	ND	95	75-125			
Matrix Spike Dup Analyzed: 04/22/2010 (10D2590-MSD1)						**Source: ITD1858-01**					
Aluminum	1.05	0.050	0.040	mg/l	1.00	ND	105	75-125	0.8	20	
Boron	1.20	0.050	0.020	mg/l	1.00	0.155	105	75-125	2	20	
Calcium	182	0.10	0.050	mg/l	5.00	181	17	75-125	1	20	*MHA*
Copper	1.03	0.010	0.0030	mg/l	1.00	ND	103	75-125	2	20	
Iron	1.34	0.040	0.015	mg/l	1.00	0.355	99	75-125	1	20	
Magnesium	51.0	0.020	0.012	mg/l	5.00	46.5	89	75-125	0.5	20	*MHA*
Manganese	1.44	0.020	0.0070	mg/l	1.00	0.453	98	75-125	2	20	
Potassium	18.9	0.50	0.37	mg/l	10.0	9.35	96	75-125	0.8	20	
Silicon	17.7	0.050	0.013	mg/l	5.00	12.8	98	75-125	0.2	20	
Sodium	107	0.50	0.19	mg/l	10.0	102	53	75-125	2	20	*MHA*

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Geosyntec Consultants
2100 Main Street, Suite 150
Huntington Beach, CA 92648
Attention: David Hawley

Project ID: Montrose-Torrance SB0508-03 #01
Report Number: ITD1858

Sampled: 04/20/10
Received: 04/20/10

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10D2590 Extracted: 04/22/10											
Matrix Spike Dup Analyzed: 04/22/2010 (10D2590-MSD1)						**Source: ITD1858-01**					
Zinc	0.959	0.020	0.0060	mg/l	1.00	ND	96	75-125	1	20	

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DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10D2587 Extracted: 04/22/10											
Blank Analyzed: 04/22/2010 (10D2587-BLK1)											
Mercury	ND	0.00020	0.00010	mg/l							
LCS Analyzed: 04/22/2010 (10D2587-BS1)											
Mercury	0.00821	0.00020	0.00010	mg/l	0.00800		103	80-120			
Matrix Spike Analyzed: 04/22/2010 (10D2587-MS1)						**Source: ITD1729-01**					
Mercury	0.00807	0.00020	0.00010	mg/l	0.00800	ND	101	70-130			
Matrix Spike Dup Analyzed: 04/22/2010 (10D2587-MSD1)						**Source: ITD1729-01**					
Mercury	0.00803	0.00020	0.00010	mg/l	0.00800	ND	100	70-130	0.5	20	
Batch: 10D2592 Extracted: 04/22/10											
Blank Analyzed: 04/22/2010-04/23/2010 (10D2592-BLK1)											
Antimony	ND	2.0	0.30	ug/l							
Arsenic	ND	1.0	0.90	ug/l							
Barium	ND	1.0	0.30	ug/l							
Beryllium	ND	0.50	0.10	ug/l							
Cadmium	ND	1.0	0.10	ug/l							
Chromium	ND	2.0	0.90	ug/l							
Cobalt	ND	1.0	0.10	ug/l							
Copper	ND	2.0	0.50	ug/l							
Lead	ND	1.0	0.20	ug/l							
Molybdenum	ND	2.0	0.20	ug/l							
Nickel	ND	2.0	0.50	ug/l							
Selenium	ND	2.0	0.50	ug/l							
Silver	ND	1.0	0.10	ug/l							
Thallium	ND	1.0	0.20	ug/l							
Vanadium	1.42	2.0	0.80	ug/l							*J*
Zinc	ND	20	5.0	ug/l							

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Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10D2592 Extracted: 04/22/10											
LCS Analyzed: 04/22/2010-04/23/2010 (10D2592-BS1)											
Antimony	79.2	2.0	0.30	ug/l	80.0		99	80-120			
Arsenic	81.0	1.0	0.90	ug/l	80.0		101	80-120			
Barium	81.3	1.0	0.30	ug/l	80.0		102	80-120			
Beryllium	78.8	0.50	0.10	ug/l	80.0		98	80-120			
Cadmium	80.7	1.0	0.10	ug/l	80.0		101	80-120			
Chromium	80.4	2.0	0.90	ug/l	80.0		100	80-120			
Cobalt	81.2	1.0	0.10	ug/l	80.0		101	80-120			
Copper	81.6	2.0	0.50	ug/l	80.0		102	80-120			
Lead	82.6	1.0	0.20	ug/l	80.0		103	80-120			
Molybdenum	80.1	2.0	0.20	ug/l	80.0		100	80-120			
Nickel	79.8	2.0	0.50	ug/l	80.0		100	80-120			
Selenium	81.4	2.0	0.50	ug/l	80.0		102	80-120			
Silver	91.7	1.0	0.10	ug/l	80.0		115	80-120			
Thallium	82.8	1.0	0.20	ug/l	80.0		103	80-120			
Vanadium	82.5	2.0	0.80	ug/l	80.0		103	80-120			
Zinc	79.6	20	5.0	ug/l	80.0		100	80-120			
Matrix Spike Analyzed: 04/22/2010-04/23/2010 (10D2592-MS1)						**Source: ITD1858-01**					
Antimony	85.4	2.0	0.30	ug/l	80.0	0.385	106	75-125			
Arsenic	89.3	1.0	0.90	ug/l	80.0	4.43	106	75-125			
Barium	140	1.0	0.30	ug/l	80.0	52.1	110	75-125			
Beryllium	82.2	0.50	0.10	ug/l	80.0	ND	103	75-125			
Cadmium	81.1	1.0	0.10	ug/l	80.0	ND	101	75-125			
Chromium	84.8	2.0	0.90	ug/l	80.0	ND	106	75-125			
Cobalt	84.7	1.0	0.10	ug/l	80.0	0.837	105	75-125			
Copper	79.8	2.0	0.50	ug/l	80.0	0.962	99	75-125			
Lead	71.4	1.0	0.20	ug/l	80.0	ND	89	75-125			
Molybdenum	90.7	2.0	0.20	ug/l	80.0	2.86	110	75-125			
Nickel	82.3	2.0	0.50	ug/l	80.0	0.606	102	75-125			
Selenium	86.7	2.0	0.50	ug/l	80.0	1.42	107	75-125			
Silver	88.5	1.0	0.10	ug/l	80.0	ND	111	75-125			
Thallium	77.6	1.0	0.20	ug/l	80.0	ND	97	75-125			
Vanadium	89.0	2.0	0.80	ug/l	80.0	1.79	109	75-125			
Zinc	74.1	20	5.0	ug/l	80.0	ND	93	75-125			

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10D2592 Extracted: 04/22/10											
Matrix Spike Dup Analyzed: 04/22/2010-04/23/2010 (10D2592-MSD1)						**Source: ITD1858-01**					
Antimony	83.9	2.0	0.30	ug/l	80.0	0.385	104	75-125	2	20	
Arsenic	88.0	1.0	0.90	ug/l	80.0	4.43	104	75-125	2	20	
Barium	138	1.0	0.30	ug/l	80.0	52.1	108	75-125	1	20	
Beryllium	82.8	0.50	0.10	ug/l	80.0	ND	103	75-125	0.7	20	
Cadmium	79.4	1.0	0.10	ug/l	80.0	ND	99	75-125	2	20	
Chromium	81.0	2.0	0.90	ug/l	80.0	ND	101	75-125	5	20	
Cobalt	83.6	1.0	0.10	ug/l	80.0	0.837	103	75-125	1	20	
Copper	77.6	2.0	0.50	ug/l	80.0	0.962	96	75-125	3	20	
Lead	68.5	1.0	0.20	ug/l	80.0	ND	86	75-125	4	20	
Molybdenum	89.5	2.0	0.20	ug/l	80.0	2.86	108	75-125	1	20	
Nickel	79.3	2.0	0.50	ug/l	80.0	0.606	98	75-125	4	20	
Selenium	85.7	2.0	0.50	ug/l	80.0	1.42	105	75-125	1	20	
Silver	86.9	1.0	0.10	ug/l	80.0	ND	109	75-125	2	20	
Thallium	76.7	1.0	0.20	ug/l	80.0	ND	96	75-125	1	20	
Vanadium	85.7	2.0	0.80	ug/l	80.0	1.79	105	75-125	4	20	
Zinc	73.2	20	5.0	ug/l	80.0	ND	92	75-125	1	20	

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INORGANICS (EPA 300.1)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10D2567 Extracted: 04/22/10											
Blank Analyzed: 04/22/2010 (10D2567-BLK1)											
Bromate	ND	5.0	2.0	ug/l							
Surrogate: Dichloroacetate (DCA)	*0.954*			*ug/l*	*1.00*		*95*	*90-115*			
LCS Analyzed: 04/22/2010 (10D2567-BS1)											
Bromate	26.9	5.0	2.0	ug/l	25.0		108	75-125			
Surrogate: Dichloroacetate (DCA)	*0.950*			*ug/l*	*1.00*		*95*	*90-115*			
Matrix Spike Analyzed: 04/22/2010 (10D2567-MS1)						**Source: ITD1492-01**					
Bromate	27.7	10	4.0	ug/l	25.0	ND	111	75-125			
Surrogate: Dichloroacetate (DCA)	*0.935*			*ug/l*	*1.00*		*94*	*90-115*			
Matrix Spike Dup Analyzed: 04/22/2010 (10D2567-MSD1)						**Source: ITD1492-01**					
Bromate	28.9	10	4.0	ug/l	25.0	ND	115	75-125	4	25	
Surrogate: Dichloroacetate (DCA)	*0.932*			*ug/l*	*1.00*		*93*	*90-115*			

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DISSOLVED INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10D2242 Extracted: 04/20/10											
Blank Analyzed: 04/20/2010 (10D2242-BLK1)											
Chromium VI	ND	0.0020	0.00025	mg/l							
LCS Analyzed: 04/20/2010 (10D2242-BS1)											
Chromium VI	0.0507	0.0020	0.00025	mg/l	0.0500		101	90-110			
Matrix Spike Analyzed: 04/20/2010 (10D2242-MS1)						**Source: ITD1858-01**					
Chromium VI	0.0509	0.0020	0.00025	mg/l	0.0500	ND	102	85-115			
Matrix Spike Dup Analyzed: 04/20/2010 (10D2242-MSD1)						**Source: ITD1858-01**					
Chromium VI	0.0507	0.0020	0.00025	mg/l	0.0500	ND	101	85-115	0.5	20	

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10D2192 Extracted: 04/20/10											
Blank Analyzed: 04/20/2010 (10D2192-BLK1)											
Fluoride	ND	0.50	0.15	mg/l							
LCS Analyzed: 04/20/2010 (10D2192-BS1)											
Fluoride	4.76	0.50	0.15	mg/l	5.00		95	90-110			
Matrix Spike Analyzed: 04/20/2010 (10D2192-MS1)						**Source: ITD1763-01**					
Fluoride	5.66	1.0	0.30	mg/l	5.00	0.858	96	80-120			
Matrix Spike Analyzed: 04/21/2010 (10D2192-MS2)						**Source: ITD1860-01**					
Fluoride	5.92	0.50	0.15	mg/l	5.00	1.04	98	80-120			
Matrix Spike Analyzed: 04/21/2010 (10D2192-MS3)						**Source: ITD1876-01**					
Fluoride	50.0	5.0	1.5	mg/l	50.0	0.977	98	80-120			
Matrix Spike Dup Analyzed: 04/20/2010 (10D2192-MSD1)						**Source: ITD1763-01**					
Fluoride	5.84	1.0	0.30	mg/l	5.00	0.858	100	80-120	3	20	
Matrix Spike Dup Analyzed: 04/21/2010 (10D2192-MSD2)						**Source: ITD1860-01**					
Fluoride	6.00	0.50	0.15	mg/l	5.00	1.04	99	80-120	1	20	
Matrix Spike Dup Analyzed: 04/21/2010 (10D2192-MSD3)						**Source: ITD1876-01**					
Fluoride	48.4	5.0	1.5	mg/l	50.0	0.977	95	80-120	3	20	
Batch: 10D2194 Extracted: 04/20/10											
Blank Analyzed: 04/20/2010 (10D2194-BLK1)											
Bromide	ND	0.50	0.35	mg/l							
Chloride	ND	0.50	0.25	mg/l							
Nitrate-N	ND	0.11	0.060	mg/l							
Nitrate-NO3	ND	0.50	0.25	mg/l							
Nitrite-N	ND	0.15	0.090	mg/l							
Nitrite-NO2	ND	0.50	0.30	mg/l							
Sulfate	ND	0.50	0.20	mg/l							

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10D2194 Extracted: 04/20/10											
LCS Analyzed: 04/20/2010 (10D2194-BS1)											
Bromide	4.82	0.50	0.35	mg/l	5.00		96	90-110			
Chloride	4.67	0.50	0.25	mg/l	5.00		93	90-110			*M-3*
Nitrate-N	1.13	0.11	0.060	mg/l	1.13		100	90-110			
Nitrate-NO3	4.98	0.50	0.25	mg/l	5.00		100	90-110			
Nitrite-N	1.40	0.15	0.090	mg/l	1.52		92	90-110			
Nitrite-NO2	4.61	0.50	0.30	mg/l	5.00		92	90-110			
Sulfate	10.0	0.50	0.20	mg/l	10.0		100	90-110			*M-3*
Matrix Spike Analyzed: 04/20/2010 (10D2194-MS1)						**Source: ITD1797-01**					
Bromide	5.49	0.50	0.35	mg/l	5.00	ND	110	80-120			
Nitrate-N	2.30	0.11	0.060	mg/l	1.13	1.09	107	80-120			
Nitrate-NO3	10.2	0.50	0.25	mg/l	5.00	4.82	107	80-120			
Nitrite-N	1.74	0.15	0.090	mg/l	1.52	ND	115	80-120			
Nitrite-NO2	5.72	0.50	0.30	mg/l	5.00	ND	114	80-120			
Matrix Spike Dup Analyzed: 04/20/2010 (10D2194-MSD1)						**Source: ITD1797-01**					
Bromide	5.48	0.50	0.35	mg/l	5.00	ND	110	80-120	0.2	20	
Nitrate-N	2.29	0.11	0.060	mg/l	1.13	1.09	106	80-120	0.4	20	
Nitrate-NO3	10.1	0.50	0.25	mg/l	5.00	4.82	106	80-120	0.4	20	
Nitrite-N	1.76	0.15	0.090	mg/l	1.52	ND	116	80-120	1	20	
Nitrite-NO2	5.78	0.50	0.30	mg/l	5.00	ND	116	80-120	1	20	
Batch: 10D2288 Extracted: 04/20/10											
Blank Analyzed: 04/20/2010 (10D2288-BLK1)											
Surfactants (MBAS)	ND	0.10	0.050	mg/l							

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10D2288 Extracted: 04/20/10											
LCS Analyzed: 04/20/2010 (10D2288-BS1)											
Surfactants (MBAS)	0.248	0.10	0.050	mg/l	0.250		99	90-110			
Matrix Spike Analyzed: 04/20/2010 (10D2288-MS1)						**Source: ITD1856-02**					
Surfactants (MBAS)	0.369	0.10	0.050	mg/l	0.250	0.132	95	50-125			
Matrix Spike Dup Analyzed: 04/20/2010 (10D2288-MSD1)						**Source: ITD1856-02**					
Surfactants (MBAS)	0.383	0.10	0.050	mg/l	0.250	0.132	100	50-125	4	20	
Batch: 10D2359 Extracted: 04/21/10											
Blank Analyzed: 04/21/2010 (10D2359-BLK1)											
Orthophosphate - P	ND	0.025	0.010	mg/l							
LCS Analyzed: 04/21/2010 (10D2359-BS1)											
Orthophosphate - P	0.616	0.025	0.010	mg/l	0.600		103	90-110			
Matrix Spike Analyzed: 04/21/2010 (10D2359-MS1)						**Source: ITD1797-01**					
Orthophosphate - P	0.514	0.025	0.010	mg/l	0.500	0.0648	90	75-125			
Matrix Spike Dup Analyzed: 04/21/2010 (10D2359-MSD1)						**Source: ITD1797-01**					
Orthophosphate - P	0.513	0.025	0.010	mg/l	0.500	0.0648	90	75-125	0.1	20	
Batch: 10D2373 Extracted: 04/21/10											
Duplicate Analyzed: 04/21/2010 (10D2373-DUP1)						**Source: ITD1879-04**					
Color	ND	1.0	1.0	Color Units		ND				20	*pHb*

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Geosyntec Consultants
2100 Main Street, Suite 150
Huntington Beach, CA 92648
Attention: David Hawley

Project ID: Montrose-Torrance SB0508-03 #01
Report Number: ITD1858

Sampled: 04/20/10
Received: 04/20/10

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10D2374 Extracted: 04/21/10											
Blank Analyzed: 04/21/2010 (10D2374-BLK1)											
Ferrous Iron	ND	0.10	0.10	mg/l							
LCS Analyzed: 04/21/2010 (10D2374-BS1)											
Ferrous Iron	5.00	0.10	0.10	mg/l	5.00		100	80-120			
Duplicate Analyzed: 04/21/2010 (10D2374-DUP1)						**Source: ITD1858-01**					
Ferrous Iron	0.100	0.10	0.10	mg/l		0.100			0	20	*HFT*
Batch: 10D2377 Extracted: 04/21/10											
Duplicate Analyzed: 04/21/2010 (10D2377-DUP1)						**Source: ITD1831-02**					
pH	8.60	0.100	N/A	pH Units		8.55			0.6	5	*HFT*
Batch: 10D2448 Extracted: 04/21/10											
Blank Analyzed: 04/21/2010 (10D2448-BLK1)											
Total Cyanide	ND	0.025	0.017	mg/l							
LCS Analyzed: 04/21/2010 (10D2448-BS1)											
Total Cyanide	0.201	0.025	0.017	mg/l	0.200		100	90-110			
Matrix Spike Analyzed: 04/21/2010 (10D2448-MS1)						**Source: ITD1729-01**					
Total Cyanide	0.124	0.025	0.017	mg/l	0.200	ND	62	70-115			*M2*
Matrix Spike Dup Analyzed: 04/21/2010 (10D2448-MSD1)						**Source: ITD1729-01**					
Total Cyanide	0.129	0.025	0.017	mg/l	0.200	ND	64	70-115	4	15	*M2*

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10D2450 Extracted: 04/21/10											
Blank Analyzed: 04/21/2010 (10D2450-BLK1)											
Dissolved Sulfide	ND	0.10	0.020	mg/l							
LCS Analyzed: 04/21/2010 (10D2450-BS1)											
Dissolved Sulfide	0.680	0.10	0.020	mg/l	0.700		97	80-120			
Matrix Spike Analyzed: 04/21/2010 (10D2450-MS1)						**Source: ITD1831-02**					
Dissolved Sulfide	0.659	0.10	0.020	mg/l	0.700	0.0601	86	70-130			*HFT*
Matrix Spike Dup Analyzed: 04/21/2010 (10D2450-MSD1)						**Source: ITD1831-02**					
Dissolved Sulfide	0.688	0.10	0.020	mg/l	0.700	0.0601	90	70-130	4	30	*HFT*
Batch: 10D2457 Extracted: 04/21/10											
Blank Analyzed: 04/21/2010 (10D2457-BLK1)											
Odor	ND	1.0	1.0	T.O.N.							
Batch: 10D2532 Extracted: 04/22/10											
Blank Analyzed: 04/22/2010 (10D2532-BLK1)											
4-Chlorobenzenesulfonic acid	ND	10	4.0	ug/l							
LCS Analyzed: 04/22/2010 (10D2532-BS1)											
4-Chlorobenzenesulfonic acid	96.2	10	4.0	ug/l	100		96	85-115			
Matrix Spike Analyzed: 04/22/2010 (10D2532-MS1)						**Source: ITD1408-05**					
4-Chlorobenzenesulfonic acid	94.4	10	4.0	ug/l	100	ND	94	80-120			

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10D2532 Extracted: 04/22/10											
Matrix Spike Dup Analyzed: 04/22/2010 (10D2532-MSD1)						**Source: ITD1408-05**					
4-Chlorobenzenesulfonic acid	95.7	10	4.0	ug/l	100	ND	96	80-120	1	20	
Batch: 10D2544 Extracted: 04/22/10											
Blank Analyzed: 04/22/2010 (10D2544-BLK1)											
Total Dissolved Solids	ND	10	1.0	mg/l							
LCS Analyzed: 04/22/2010 (10D2544-BS1)											
Total Dissolved Solids	1000	10	1.0	mg/l	1000		100	90-110			
Duplicate Analyzed: 04/22/2010 (10D2544-DUP1)						**Source: ITD1729-01**					
Total Dissolved Solids	238	10	1.0	mg/l		230			3	10	
Batch: 10D2550 Extracted: 04/22/10											
Blank Analyzed: 04/22/2010 (10D2550-BLK1)											
Alkalinity as CaCO3	ND	2.0	2.0	mg/l							
Bicarbonate Alkalinity as CaCO3	ND	2.0	2.0	mg/l							
Carbonate Alkalinity as CaCO3	ND	2.0	2.0	mg/l							
Hydroxide Alkalinity as CaCO3	ND	2.0	2.0	mg/l							
LCS Analyzed: 04/22/2010 (10D2550-BS1)											
Alkalinity as CaCO3	486	2.0	2.0	mg/l	514		95	90-110			
Duplicate Analyzed: 04/22/2010 (10D2550-DUP1)						**Source: ITD1100-08**					
Alkalinity as CaCO3	ND	2.0	2.0	mg/l		ND				20	
Bicarbonate Alkalinity as CaCO3	ND	2.0	2.0	mg/l		ND				20	
Carbonate Alkalinity as CaCO3	ND	2.0	2.0	mg/l		ND				20	
Hydroxide Alkalinity as CaCO3	ND	2.0	2.0	mg/l		ND				20	

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10D2589 Extracted: 04/22/10											
Blank Analyzed: 04/22/2010 (10D2589-BLK1)											
Specific Conductance	ND	1.0	1.0	umhos/cm @ 25C							
LCS Analyzed: 04/22/2010 (10D2589-BS1)											
Specific Conductance	1390	1.0	1.0	umhos/cm @ 25C	1410		99	90-110			
Duplicate Analyzed: 04/22/2010 (10D2589-DUP1)						**Source: ITD1858-01**					
Specific Conductance	1450	1.0	1.0	umhos/cm @ 25C		1460			0.7	5	
Batch: 10D2594 Extracted: 04/22/10											
Blank Analyzed: 04/22/2010 (10D2594-BLK1)											
Total Suspended Solids	ND	10	1.0	mg/l							
LCS Analyzed: 04/22/2010 (10D2594-BS1)											
Total Suspended Solids	989	10	1.0	mg/l	1000		99	85-115			
Duplicate Analyzed: 04/22/2010 (10D2594-DUP1)						**Source: ITD1858-01**					
Total Suspended Solids	3.00	10	1.0	mg/l		3.00			0	10	*J*
Batch: 10D2599 Extracted: 04/22/10											
Blank Analyzed: 04/22/2010 (10D2599-BLK1)											
Ammonia-N	ND	0.50	0.10	mg/l							
LCS Analyzed: 04/22/2010 (10D2599-BS1)											
Ammonia-N	1.01	0.50	0.10	mg/l	1.00		101	85-115			

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10D2599 Extracted: 04/22/10											
Matrix Spike Analyzed: 04/22/2010 (10D2599-MS1)						**Source: ITD1858-01**					
Ammonia-N	2.08	0.50	0.10	mg/l	2.00	ND	104	75-125			
Matrix Spike Dup Analyzed: 04/22/2010 (10D2599-MSD1)						**Source: ITD1858-01**					
Ammonia-N	2.08	0.50	0.10	mg/l	2.00	ND	104	75-125	0	15	
Batch: 10D2604 Extracted: 04/22/10											
Blank Analyzed: 04/22/2010 (10D2604-BLK1)											
Phosphate (PO4)	ND	0.075	0.030	mg/l							
LCS Analyzed: 04/22/2010 (10D2604-BS1)											
Phosphate (PO4)	1.57	0.075	0.030	mg/l	1.54		102	80-120			
Matrix Spike Analyzed: 04/22/2010 (10D2604-MS1)						**Source: ITD1878-02**					
Phosphate (PO4)	3.30	0.15	0.060	mg/l	3.07	ND	108	75-125			
Matrix Spike Dup Analyzed: 04/22/2010 (10D2604-MSD1)						**Source: ITD1878-02**					
Phosphate (PO4)	3.33	0.15	0.060	mg/l	3.07	ND	109	75-125	0.8	20	
Batch: 10D2605 Extracted: 04/22/10											
Blank Analyzed: 04/22/2010 (10D2605-BLK1)											
Chemical Oxygen Demand	ND	20	16	mg/l							
LCS Analyzed: 04/22/2010 (10D2605-BS1)											
Chemical Oxygen Demand	215	20	16	mg/l	200		107	90-110			

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10D2605 Extracted: 04/22/10											
Matrix Spike Analyzed: 04/22/2010 (10D2605-MS1)						**Source: ITD1583-02**					
Chemical Oxygen Demand	221	20	16	mg/l	200	17.9	101	70-120			
Matrix Spike Dup Analyzed: 04/22/2010 (10D2605-MSD1)						**Source: ITD1583-02**					
Chemical Oxygen Demand	224	20	16	mg/l	200	17.9	103	70-120	1	15	
Batch: 10D3037 Extracted: 04/27/10											
Blank Analyzed: 04/27/2010 (10D3037-BLK1)											
Total Organic Carbon	ND	1.0	0.50	mg/l							
LCS Analyzed: 04/27/2010 (10D3037-BS1)											
Total Organic Carbon	10.7	1.0	0.50	mg/l	10.0		107	90-110			
Matrix Spike Analyzed: 04/27/2010 (10D3037-MS1)						**Source: ITD1732-01**					
Total Organic Carbon	22.1	1.0	0.50	mg/l	5.00	16.5	111	80-120			
Matrix Spike Analyzed: 04/27/2010 (10D3037-MS2)						**Source: ITD1732-02**					
Total Organic Carbon	18.8	1.0	0.50	mg/l	5.00	13.5	106	80-120			
Matrix Spike Dup Analyzed: 04/27/2010 (10D3037-MSD1)						**Source: ITD1732-01**					
Total Organic Carbon	22.3	1.0	0.50	mg/l	5.00	16.5	115	80-120	0.9	20	
Matrix Spike Dup Analyzed: 04/27/2010 (10D3037-MSD2)						**Source: ITD1732-02**					
Total Organic Carbon	19.0	1.0	0.50	mg/l	5.00	13.5	110	80-120	1	20	

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METHOD BLANK/QC DATA

RSK SOP-175 - Dissolved Gases in Water

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10D0148 Extracted: 04/22/10											
Blank Analyzed: 04/22/2010 (10D0148-BLK1)											
Carbon dioxide	ND	170	70	ug/L							
LCS Analyzed: 04/22/2010 (10D0148-BS1)											
Carbon dioxide	16800	170	70	ug/L	16900		100	70-130			
LCS Dup Analyzed: 04/22/2010 (10D0148-BSD1)											
Carbon dioxide	17000	170	70	ug/L	16900		101	70-130	1	20	
Batch: 10D0149 Extracted: 04/22/10											
Blank Analyzed: 04/22/2010 (10D0149-BLK1)											
Ethane	ND	1.0	0.50	ug/L							
Ethene	ND	1.0	0.53	ug/L							
Methane	ND	1.0	0.50	ug/L							
LCS Analyzed: 04/22/2010 (10D0149-BS1)											
Ethane	102	1.0	0.50	ug/L	96.8		105	70-125			
Ethene	131	1.0	0.53	ug/L	133		99	70-125			
Methane	48.1	1.0	0.50	ug/L	47.7		101	70-125			
LCS Dup Analyzed: 04/22/2010 (10D0149-BSD1)											
Ethane	103	1.0	0.50	ug/L	96.8		106	70-125	1	20	
Ethene	133	1.0	0.53	ug/L	133		100	70-125	2	20	
Methane	48.3	1.0	0.50	ug/L	47.7		101	70-125	0.4	20	

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METHOD BLANK/QC DATA

SM 4500-NORG C

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 100427TKN1 Extracted: 04/27/10											
Matrix Spike Analyzed: 04/27/2010 (100427 TKN1MS)						**Source: 10040311**					
TOTAL KJELDAHL NITROGEN	17.7	0.3	N/A	MG/L	20.0	0.6	86	70-130	2.9		
Blank Analyzed: 04/27/2010 (100427TKN1BL)						**Source:**					
TOTAL KJELDAHL NITROGEN	< 0.3	0.3	N/A	MG/L				-			
LCS Analyzed: 04/27/2010 (100427TKN1LCS)						**Source: BLANK**					
TOTAL KJELDAHL NITROGEN	17.3	0.3	N/A	MG/L	20.0	< 0.3	87	80-120			
Matrix Spike Dup Analyzed: 04/27/2010 (100427TKN1MSD)						**Source: 10040311**					
TOTAL KJELDAHL NITROGEN	18.2	0.3	N/A	MG/L	20.0	0.6	88	70-130	2.9	30	

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DATA QUALIFIERS AND DEFINITIONS

C	Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted.
HFT	The holding time for this test is immediate. It was analyzed in the laboratory as soon as possible after receipt.
J	Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
L	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted.
M2	The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
M-3	Results exceeded the linear range in the MS/MSD and therefore are not available for reporting. The batch was accepted based on acceptable recovery in the Blank Spike (LCS).
M7	The MS and/or MSD were above the acceptance limits. See Blank Spike (LCS).
MHA	Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
MNR1	There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
pH	pH = 7
pHa	pH = 7.38
pHb	pH = 8.01
R-10	The RPD between the primary and confirmatory analysis exceeded 40%. Per method 8000B, the lower value was reported due to apparent chromatographic problems.
RL1	Reporting limit raised due to sample matrix effects.
RL3	Reporting limit raised due to high concentrations of non-target analytes.
Z	Due to sample matrix effects, the surrogate recovery was below the acceptance limits.
Z3	The sample required a dilution due to the nature of the sample matrix. Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.
ZX	Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD	Relative Percent Difference
T.O.N.	Threshhold Odor Number

ADDITIONAL COMMENTS

For 8260 analyses:

Due to the high water solubility of alcohols and ketones, the calibration criteria for these compounds is <30% RSD. The average % RSD of all compounds in the calibration is 15%, in accordance with EPA methods.

For TICs:

All identifications are tentative and concentrations are estimates based upon spectral comparison to the EPA/NIH library.

For 1,2-Diphenylhydrazine:

The result for 1,2-Diphenylhydrazine is based upon the reading of its breakdown product, Azobenzene.

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Certification Summary

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Method	Matrix	Nelac	California
[CALC]	Water		
EPA 300.0	Water	X	X
EPA 300.1	Water	X	X
EPA 314.0 MOD.	Water		
EPA 3510C/8081A	Water	X	X
EPA 365.3	Water	X	X
EPA 6010B	Water	X	X
EPA 6020-Diss	Water		
EPA 6020	Water	X	X
EPA 624	Water	X	X
EPA 7199	Water	X	X
EPA 7470A-Diss	Water	X	X
EPA 7470A	Water	X	X
EPA 8082	Water	X	X
EPA 8260B	Water	X	X
EPA 8270C	Water	X	X
Filtration	Water	N/A	N/A
SM 2540D	Water	X	X
SM 3500-Fe D	Water	N/A	N/A
SM2120B	Water	X	N/A
SM2150B	Water	N/A	N/A
SM2320B	Water	X	X
SM2340B	Water	X	X
SM2510B	Water	X	X
SM2540C	Water	X	
SM4500CN-E	Water	X	X
SM4500-H,B	Water	X	X
SM4500NH3-D	Water	X	X
SM4500-S D	Water	X	X
SM4500-S, F	Water	X	X
SM5220D	Water	X	X
SM5310B	Water	X	X
SM5540-C	Water	X	X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

Subcontracted Laboratories

TestAmerica Irvine

Heather Clark For Chad Messer
Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

Geosyntec Consultants 2100 Main Street, Suite 150 Huntington Beach, CA 92648 Attention: David Hawley	Project ID: Montrose-Torrance SB0508-03 #01 Report Number: ITD1858	Sampled: 04/20/10 Received: 04/20/10

TestAmerica Los Angeles

3585 Cadillac Ave., Suite A - Costa Mesa, CA 92626

Method Performed: RSK SOP-175

Samples: ITD1858-01, ITD1858-02

TestAmerica North Canton

4101 Shuffel Drive NW - North Canton, OH 44720

Analysis Performed: Outside Analysis

Samples: ITD1858-01, ITD1858-02

TestAmerica Richland

2800 George Washington Way - Richland, WA 99354

Analysis Performed: Radon

Samples: ITD1858-01, ITD1858-02

Western Analytical Laboratories, Inc.

Method Performed: SM 4500-NORG C

Samples: ITD1858-01, ITD1858-02

TestAmerica Irvine

Heather Clark For Chad Messer
Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY FORM

17461 Derian Ave., #100, Irvine, CA 92614 (949) 261-1022 FAX (949) 260-3297
1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046
9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851
2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

TAL-0013(1007)

ITD 1858

Client Name/Address: Geosyntec Consultants

Project/PO Number: SB0508-03*01 Montrose-Torrance

Project Manager: D. Hawley

Phone Number: 714-964-0800

Sampler: D. Hawley

Fax Number:

Analysis Required

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	VOC (8260B)	SVOC (8270)	Pesticides	Gen. mem	metals	PCB's	PCBs A			Special Instructions
BF-EW-1	W	Various	28	4/20/10	1000	Var.	X	X	X	X	X	X	X			* see
MBFB-EW-1	W	Various	28	4/20/10	1134	Var.	X	X	X	X	X	X	X			Project
																Files for
																full Analyte
																lists.

Relinquished By:	Date/Time:	Received By:	Date/Time:	Turnaround Time: (Check)	
[signature]	4/20/10 / 1705			same day ____	72 hours ____
Relinquished By:	Date/Time:	Received By:	Date/Time:	24 hours X	5 days ____
				48 hours ____	normal ____
Relinquished By:	Date/Time:	Received in Lab By: [signature]	Date/Time: 4/20/10 17:05	Sample Integrity: (Check) intact X	on ice 3.4

Note: By relinquishing samples to TestAmerica, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

20W01

ANALYTICAL REPORT

REVISED

PROJECT NO. ITD1858

ITD1858/GEOSYNTEC

Lot #: A0D230510

Heather Clark

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817

TESTAMERICA LABORATORIES, INC.

Alesia M. Danford
Project Manager
alesia.danford@testamericainc.com

Approved for release.
Alesia M. Danford
Project Manager
5/12/2010 1:03 PM

May 12, 2010

CASE NARRATIVE

A0D230510
Revised

The following report contains the analytical results for two water samples submitted to TestAmerica North Canton by TestAmerica Irvine from the ITD1858/Geosyntec Site, project number ITD1858. The samples were received April 23, 2010, according to documented sample acceptance procedures.

TestAmerica utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. Preliminary results were provided to Heather Clark on April 30, 2010. A summary of QC data for these analyses is included at the back of the report.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

All parameters were evaluated to the reporting limit.

Please refer to the Quality Control Elements Narrative following this case narrative for additional quality control information.

If you have any questions, please call the Project Manager, Alesia M. Danford, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT."

CASE NARRATIVE (continued)

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperature of the cooler upon sample receipt was 1.0°C.

Sample(s)): ITD1858-01 and ITD1858-02 were received at a pH of 7. There was no preservative sticker attached to bottle. Samples may not have been collected in approved, clean checked containers.

GC VOLATILES

The matrix spike/matrix spike duplicate(s) for batch(es) 0117119 had RPD's and recoveries outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

The reporting limits are elevated due to matrix interference for sample(s) ITD1858-02.

Samples ITD1858-01 and ITD1858-02 were received unpreserved. This can cause biased low results.

QUALITY CONTROL ELEMENTS NARRATIVE

TestAmerica conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data. Program or agency specific requirements take precedence over the requirements listed in this narrative.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. TestAmerica North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples.

For SW846/RCRA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

For 600 series/CWA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE (MS). An MS is prepared and analyzed at a 10% frequency for GC Methods and at a 5% frequency for GC/MS methods.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. Multi peak responders may not be included in the target spike list due to co-elution. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the repreparation and reanalysis of all samples in the QC batch. Comparison of only the failed parameters from the first batch are evaluated. The only exception to the rework requirement is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed in the table.)

Volatile (GC or GC/MS)	Semivolatile (GC/MS)	Metals ICP-MS	Metals ICP Trace
Methylene Chloride, Acetone, 2-Butanone	Phthalate Esters	Copper, Iron, Zinc, Lead, Calcium, Magnesium, Potassium, Sodium, Barium, Chromium, Manganese	Copper, Iron, Zinc, Lead

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.

- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the repreparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

For certain methods (600 series methods/CWA), a Matrix Spike is required in place of a Matrix Spike/Matrix Spike Duplicate (MS/MSD) or Matrix Spike/Sample Duplicate (MS/DU).

The acceptance criteria do not apply to samples that are diluted.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be reprepared and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

The acceptance criteria do not apply to samples that are diluted. All other surrogate recoveries will be reported.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide and PCB methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria. The second surrogate must have a recovery of 10% or greater.

EXECUTIVE SUMMARY - Detection Highlights

A0D230510

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
ITD1858-01 04/20/10 10:00 001				
Arsenic (III)	2.6	2.0	ug/L	SW846 7063
ITD1858-02 04/20/10 11:34 002				
Arsenic (III)	240	80	ug/L	SW846 7063

ANALYTICAL METHODS SUMMARY

A0D230510

PARAMETER	ANALYTICAL METHOD
Arsenic (III) Speciation by ASV	SW846 7063
Arsenic (V) Speciation by ASV	SW846 7063

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

A0D230510

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
L0FHV	001	ITD1858-01	04/20/10	10:00
L0FH9	002	ITD1858-02	04/20/10	11:34

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

TestAmerica Irvine

Client Sample ID: ITD1858-01

GC Volatiles

Lot-Sample #...: A0D230510-001 **Work Order #...:** L0FHV1AA **Matrix.....:** WG
Date Sampled...: 04/20/10 10:00 **Date Received..:** 04/23/10
Prep Date.....: 04/26/10 **Analysis Date..:** 04/27/10
Prep Batch #...: 0117119
Dilution Factor: 1 **Method.....:** SW846 7063

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Arsenic (III)	**2.6**	**2.0**	**ug/L**

TestAmerica Irvine

Client Sample ID: ITD1858-01

GC Volatiles

Lot-Sample #...: A0D230510-001 **Work Order #...:** L0FHV1AC **Matrix.....:** WG
Date Sampled...: 04/20/10 10:00 **Date Received..:** 04/23/10
Prep Date.....: 04/26/10 **Analysis Date..:** 04/27/10
Prep Batch #...: 0117120
Dilution Factor: 1 **Method.....:** SW846 7063

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Arsenic (V)	ND	2.0	ug/L

TestAmerica Irvine

Client Sample ID: ITD1858-02

GC Volatiles

Lot-Sample #...: A0D230510-002 **Work Order #...:** L0FH91AA **Matrix.....:** WG
Date Sampled...: 04/20/10 11:34 **Date Received..:** 04/23/10
Prep Date.....: 04/26/10 **Analysis Date..:** 04/27/10
Prep Batch #...: 0117119
Dilution Factor: 40 **Method.....:** SW846 7063

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Arsenic (III)	**240**	**80**	**ug/L**

TestAmerica Irvine

Client Sample ID: ITD1858-02

GC Volatiles

Lot-Sample #...: A0D230510-002 **Work Order #...:** L0FH91AC **Matrix.....:** WG
Date Sampled...: 04/20/10 11:34 **Date Received..:** 04/23/10
Prep Date.....: 04/26/10 **Analysis Date..:** 04/27/10
Prep Batch #...: 0117120
Dilution Factor: 40 **Method.....:** SW846 7063

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Arsenic (V)	ND	80	ug/L

NOTE(S):

Elevated reporting limits. The reporting limits are elevated due to matrix interference.

QUALITY CONTROL SECTION

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: A0D230510 **Work Order #...:** L0KA31AA **Matrix.....:** WATER
MB Lot-Sample #: A0D270000-119
Prep Date.....: 04/26/10
Analysis Date..: 04/27/10 **Prep Batch #...:** 0117119
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Arsenic (III)	ND	2.0	ug/L	SW846 7063

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: A0D230510 **Work Order #...:** L0KA61AA **Matrix.....:** WATER
MB Lot-Sample #: A0D270000-120
Prep Date.....: 04/26/10
Analysis Date..: 04/27/10 **Prep Batch #...:** 0117120
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Arsenic (V)	ND	2.0	ug/L	SW846 7063

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: A0D230510 **Work Order #...:** L0KA31AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: A0D270000-119 L0KA31AD-LCSD
Prep Date.....: 04/26/10 **Analysis Date..:** 04/27/10
Prep Batch #...: 0117119
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Arsenic (III)	**117**	**(25 - 130)**			**SW846 7063**
	80	**(25 - 130)**	**37**	**(0-50)**	**SW846 7063**

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: A0D230510 **Work Order #...:** L0KA61AC **Matrix.....:** WATER
LCS Lot-Sample#: A0D270000-120
Prep Date.....: 04/26/10 **Analysis Date..:** 04/27/10
Prep Batch #...: 0117120
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Arsenic (V)	**86**	**(25 - 130)**	**SW846 7063**

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: A0D230510 **Work Order #...:** L0FGH1AD-MS **Matrix.....:** WATER
MS Lot-Sample #: A0D230509-001 L0FGH1AE-MSD
Date Sampled...: 04/21/10 14:15 **Date Received..:** 04/23/10
Prep Date.....: 04/26/10 **Analysis Date..:** 04/27/10
Prep Batch #...: 0117119
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Arsenic (III)	**1.6 a**	**(25 - 130)**			**SW846 7063**
	3.9 a,p	**(25 - 130)**	**83**	**(0-50)**	**SW846 7063**

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

p Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: A0D230510 **Work Order #...:** L0FGH1AF-MS **Matrix.....:** WATER
MS Lot-Sample #: A0D230509-001 L0FGH1AG-MSD
Date Sampled...: 04/21/10 14:15 **Date Received..:** 04/23/10
Prep Date.....: 04/26/10 **Analysis Date..:** 04/27/10
Prep Batch #...: 0117120
Dilution Factor: 4

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Arsenic (V)	**75**	**(25 - 130)**			**SW846 7063**
	83	**(25 - 130)**	**6.0**	**(0-50)**	**SW846 7063**

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

SUBCONTRACT ORDER
TestAmerica Irvine

ITD1858

SENDING LABORATORY:

TestAmerica Irvine
17461 Derian Avenue. Suite 100
Irvine, CA 92614
Phone: (949) 261-1022
Fax: (949) 260-3297
Project Manager: Heather Clark
Client: Geosyntec Consultants

RECEIVING LABORATORY:

TestAmerica North Canton
4101 Shuffel Drive NW
North Canton, OH 44720
Phone :(330) 497-9396
Fax: (330) 497-0772
Project Location: CA - CALIFORNIA
Receipt Temperature: 1.0 °C Ice: Y / N

Analysis	Units	Due	Expires	Interlab Price	Surch	Comments
Sample ID: ITD1858-01 (BF-EW-1 - Water) Sampled: **04/20/10 10:00**						
Outside Analysis	%	04/29/10	10/17/10 10:00	$200.00	0%	Dissolved As III and As V 7063 ASV / North Canton
Containers Supplied: 1 L Poly (O)						
Sample ID: ITD1858-02 (MBFB-EW-1 - Water) Sampled: **04/20/10 11:34**						
Outside Analysis	%	04/29/10	10/17/10 11:34	$200.00	0%	Dissolved As III and As V 7063 ASV / North Canton
Containers Supplied: 1 L Poly (O)						

Released By	Date/Time	Received By	Date/Time
	4/22/10 17:00	FedEx	4/22/10 17:00
			4/23/10 910

TestAmerica Cooler Receipt Form/Narrative **Lot Number:** 40D230510
North Canton Facility

Client ITD1858 / TA Irvine Project Geosyntec By: [signature]
Cooler Received on 4-23-10 Opened on 4-23-10 (Signature)
FedEx ☒ UPS ☐ DHL ☐ FAS ☐ Stetson ☐ Client Drop Off ☐ TestAmerica Courier ☐ Other ____
TestAmerica Cooler # ____ Multiple Coolers ☐ Foam Box ☒ Client Cooler ☐ Other ____

1. Were custody seals on the outside of the cooler(s)? Yes ☒ No ☒ CSL Intact? Yes ☒ No ☐ NA ☒ CSL
   If YES, Quantity 2 Quantity Unsalvageable ____
   Were custody seals on the outside of cooler(s) signed and dated? Yes ☒ No ☐ NA ☒ CSL
   Were custody seals on the bottle(s)? Yes ☐ No ☒
   If YES, are there any exceptions? ____
2. Shippers' packing slip attached to the cooler(s)? Yes ☑ No ☐
3. Did custody papers accompany the sample(s)? Yes ☑ No ☐ Relinquished by client? Yes ☑ No ☐
4. Were the custody papers signed in the appropriate place? Yes ☑ No ☐
5. Packing material used: Bubble Wrap ☑ Foam ☐ None ☐ Other ____
6. Cooler temperature upon receipt 1.0 °C See back of form for multiple coolers/temps ☐
   METHOD: IR ☑ Other ☐ ____
   COOLANT: Wet Ice ☑ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐
7. Did all bottles arrive in good condition (Unbroken)? Yes ☑ No ☐
8. Could all bottle labels be reconciled with the COC? Yes ☑ No ☐
9. Were sample(s) at the correct pH upon receipt? Yes ☑ No ☐ NA ☐
10. Were correct bottle(s) used for the test(s) indicated? Yes ☑ No ☐
11. Were air bubbles >6 mm in any VOA vials? Yes ☐ No ☐ NA ☑
12. Sufficient quantity received to perform indicated analyses? Yes ☑ No ☐
13. Was a trip blank present in the cooler(s)? Yes ☐ No ☑ Were VOAs on the COC? Yes ☐ No ☑

Contacted PM ____ Date ____ by ____ via Verbal ☐ Voice Mail ☐ Other ☐
Concerning ____

14. CHAIN OF CUSTODY

The following discrepancies occurred:

____

15. SAMPLE CONDITION

Sample(s) ____ were received after the recommended holding time had expired.
Sample(s) ____ were received in a broken container.
Sample(s) ____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) ____ were further preserved in Sample Receiving to meet recommended pH level(s). *Nitric Acid Lot# 121709-HNO_3; Sulfuric Acid Lot# 082509-H_2SO_4; Sodium Hydroxide Lot# 100108 -NaOH; Hydrochloric Acid Lot# 092006-HCl; Sodium Hydroxide and Zinc Acetate Lot# 100108-$(CH_3COO)_2ZN/NaOH$.* What time was preservative added to sample(s)? ____

Client ID	pH	Date	Initials
1	<2	4/23/10	CSL
2	<2	↓	↓

TestAmerica Cooler Receipt Form/Narrative
North Canton Facility

Client ID	pH	Date	Initials

Cooler #	Temp. °C	Method	Coolant

Discrepancies Cont'd:

END OF REPORT

Attachment 4

Analytical Laboratory Data Reports from Bench-Scale Shaker Tests

ANALYTICAL REPORT

Job Number: 500-25495-1

Job Description: Geosyntec-Montrose

For:
Whittier Filtration
315 N. Puente Street
Unit A
Brea, CA 92821

Attention: Michael Monacell

Approved for release.
Bonnie M Stadelmann
Project Manager II
5/25/2010 4:43 PM

Bonnie M Stadelmann
Project Manager II
bonnie.stadelmann@testamericainc.com
05/25/2010

These test results meet all the requirements of NELAC for accredited parameters.

The Lab Certification ID#:
TestAmerica Chicago 100201
TestAmerica Irvine CA01531

All questions regarding this test report should be directed to the TestAmerica Project Manager whose signature appears on this report. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

Job Narrative
500-25495-1

Comments
No additional comments.

Receipt
The samples were received at 17.2 degrees.

Most of the VOA vials have bubbles larger than pea size.

All other samples were received in good condition within temperature requirements.

GC/MS VOA
Method(s) 8260B: The following sample(s) was diluted due to the abundance of target analytes: 1822901 (500-25495-1). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

GC/MS Semi VOA
Method(s) 8270C: The laboratory control sample (LCS) for batch 85962 was below the control limits for the following analyte: Benzidine. The LCS had 2-Nitroaniline above the QC limit and the LCSD had 2,4-Dinitrotoluene, 2-Nitroaniline and 4-Nitroaniline above the QC limit. The RPD values for Benzidine, 2,4-Dinitrophenol and Pentachlorophenol were above the QC limit. The associated samples did not have any detections for the affected analytes; therefore, no corrective action was required. 1822901 (500-25495-1), 1822902 (500-25495-2), 1822903 (500-25495-3), 1822904 (500-25495-4)

Method(s) 8270C: The following sample had one surrogate low, but greater than ten percent 1822901 (500-25495-1). No corrective action was required.

No other analytical or quality issues were noted.

Subcontract non-Sister
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: Whittier Filtration

Job Number: 500-25495-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
500-25495-1	**1822901**					
Acetone		45		25	ug/L	8260B
Benzene		410		5.0	ug/L	8260B
Chlorobenzene		5100		100	ug/L	8260B
Chloroform		620		50	ug/L	8260B
Ethylbenzene		3.9	J	5.0	ug/L	8260B
Methylene Chloride		17		10	ug/L	8260B
m&p-Xylene		2.2	J	10	ug/L	8260B
Trichloroethene		11		5.0	ug/L	8260B
Trihalomethanes, Total		620		50	ug/L	8260B
Xylenes, Total		2.2	J	10	ug/L	8260B
Butyl benzyl phthalate		0.88	J	1.9	ug/L	8270C
2,4-Dichlorophenol		1.4	J	9.3	ug/L	8270C
2-Methylnaphthalene		0.38	J	0.47	ug/L	8270C
Naphthalene		0.54	J	0.93	ug/L	8270C
500-25495-2	**1822902**					
Acetone		72		5.0	ug/L	8260B
Benzene		180		10	ug/L	8260B
Chlorobenzene		840		10	ug/L	8260B
Chloroform		230		10	ug/L	8260B
cis-1,2-Dichloroethene		0.83	J	1.0	ug/L	8260B
1,2-Dichloroethane		17		1.0	ug/L	8260B
Ethylbenzene		0.39	J	1.0	ug/L	8260B
Methylene Chloride		10		2.0	ug/L	8260B
m&p-Xylene		0.53	J	2.0	ug/L	8260B
Trichloroethene		3.1		1.0	ug/L	8260B
Trihalomethanes, Total		230		10	ug/L	8260B
Xylenes, Total		0.53	J	2.0	ug/L	8260B
Benzoic acid		8.6	J	19	ug/L	8270C
500-25495-3	**1822903**					
Acetone		210		50	ug/L	8260B
Benzene		97		1.0	ug/L	8260B
Chlorobenzene		280		10	ug/L	8260B
Chloroform		180		10	ug/L	8260B
cis-1,2-Dichloroethene		0.45	J	1.0	ug/L	8260B
1,2-Dichloroethane		11		1.0	ug/L	8260B
Methylene Chloride		11		2.0	ug/L	8260B
m&p-Xylene		0.45	J	2.0	ug/L	8260B
Trichloroethene		1.2		1.0	ug/L	8260B
Trihalomethanes, Total		180		10	ug/L	8260B
Xylenes, Total		0.45	J	2.0	ug/L	8260B
Benzoic acid		8.9	J	19	ug/L	8270C

EXECUTIVE SUMMARY - Detections

Client: Whittier Filtration

Job Number: 500-25495-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
500-25495-4	**1822904**					
Acetone		63		5.0	ug/L	8260B
Benzene		62		1.0	ug/L	8260B
Chlorobenzene		160		10	ug/L	8260B
Chloroform		120		10	ug/L	8260B
1,2-Dichloroethane		7.7		1.0	ug/L	8260B
Methylene Chloride		8.0		2.0	ug/L	8260B
m&p-Xylene		0.36	J	2.0	ug/L	8260B
Trichloroethene		0.79	J	1.0	ug/L	8260B
Trihalomethanes, Total		120		10	ug/L	8260B
Xylenes, Total		0.36	J	2.0	ug/L	8260B
Benzoic acid		9.0	J	19	ug/L	8270C

METHOD SUMMARY

Client: Whittier Filtration

Job Number: 500-25495-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL CHI	SW846 8260B	
Purge and Trap	TAL CHI		SW846 5030B
Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)	TAL CHI	SW846 8270C	
Liquid-Liquid Extraction (Separatory Funnel)	TAL CHI		SW846 3510C
General Sub Contract Method	TAL IRV	Subcontract	

Lab References:

TAL CHI = TestAmerica Chicago

TAL IRV = TestAmerica Irvine

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Whittier Filtration

Job Number: 500-25495-1

Method	Analyst	Analyst ID
SW846 8260B	Swaney, Garth E	GES
SW846 8270C	Bergen, Joe	JB

SAMPLE SUMMARY

Client: Whittier Filtration

Job Number: 500-25495-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
500-25495-1	1822901	Water	05/12/2010 1200	05/13/2010 1030
500-25495-2	1822902	Water	05/12/2010 1200	05/13/2010 1030
500-25495-3	1822903	Water	05/12/2010 1200	05/13/2010 1030
500-25495-4	1822904	Water	05/12/2010 1200	05/13/2010 1030

SAMPLE RESULTS

Michael Monacell
Whittier Filtration
315 N. Puente Street
Unit A
Brea, CA 92821

Job Number: 500-25495-1

Client Sample ID: 1822901
Lab Sample ID: 500-25495-1

Date Sampled: 05/12/2010 1200
Date Received: 05/13/2010 1030
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: 8260B			Date Analyzed:	05/23/2010 0027		
Prep Method: 5030B			Date Prepared:	05/23/2010 0027		
Acetone	45		ug/L	8.0	25	5.0
Benzene	410		ug/L	0.85	5.0	5.0
Bromobenzene	<5.0		ug/L	1.0	5.0	5.0
Bromochloromethane	<5.0		ug/L	1.8	5.0	5.0
Bromodichloromethane	<5.0		ug/L	0.95	5.0	5.0
Bromoform	<5.0		ug/L	2.1	5.0	5.0
Bromomethane	<5.0		ug/L	1.9	5.0	5.0
2-Butanone (MEK)	<25		ug/L	12	25	5.0
Carbon disulfide	<25		ug/L	2.8	25	5.0
Carbon tetrachloride	<5.0		ug/L	1.2	5.0	5.0
Chloroethane	<5.0		ug/L	1.8	5.0	5.0
Chloromethane	<5.0		ug/L	1.2	5.0	5.0
2-Chlorotoluene	<5.0		ug/L	0.90	5.0	5.0
4-Chlorotoluene	<5.0		ug/L	1.0	5.0	5.0
cis-1,2-Dichloroethene	<5.0		ug/L	1.4	5.0	5.0
cis-1,3-Dichloropropene	<5.0		ug/L	0.85	5.0	5.0
Cyclohexane	<5.0		ug/L	0.95	5.0	5.0
Dibromochloromethane	<5.0		ug/L	1.2	5.0	5.0
1,2-Dibromo-3-Chloropropane	<10		ug/L	4.8	10	5.0
1,2-Dibromoethane	<5.0		ug/L	1.8	5.0	5.0
Dibromomethane	<5.0		ug/L	1.5	5.0	5.0
1,2-Dichlorobenzene	<5.0		ug/L	0.85	5.0	5.0
1,3-Dichlorobenzene	<5.0		ug/L	1.2	5.0	5.0
1,4-Dichlorobenzene	<5.0		ug/L	1.0	5.0	5.0
Dichlorodifluoromethane	<5.0		ug/L	1.6	5.0	5.0
1,1-Dichloroethane	<5.0		ug/L	1.2	5.0	5.0
1,2-Dichloroethane	<5.0		ug/L	1.2	5.0	5.0
1,1-Dichloroethene	<5.0		ug/L	0.95	5.0	5.0
1,2-Dichloropropane	<5.0		ug/L	1.0	5.0	5.0
1,3-Dichloropropane	<5.0		ug/L	0.85	5.0	5.0
2,2-Dichloropropane	<5.0		ug/L	1.2	5.0	5.0
1,1-Dichloropropene	<5.0		ug/L	0.80	5.0	5.0
Ethylbenzene	3.9	J	ug/L	0.90	5.0	5.0
Hexachlorobutadiene	<5.0		ug/L	1.3	5.0	5.0
2-Hexanone	<25		ug/L	4.0	25	5.0
Isopropylbenzene	<5.0		ug/L	1.0	5.0	5.0
Methylene Chloride	17		ug/L	3.4	10	5.0
4-Methyl-2-pentanone (MIBK)	<25		ug/L	4.2	25	5.0
m&p-Xylene	2.2	J	ug/L	1.6	10	5.0

Michael Monacell
Whittier Filtration
315 N. Puente Street
Unit A
Brea, CA 92821

Job Number: 500-25495-1

Client Sample ID: 1822901
Lab Sample ID: 500-25495-1

Date Sampled: 05/12/2010 1200
Date Received: 05/13/2010 1030
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Naphthalene	<5.0		ug/L	2.2	5.0	5.0
n-Butylbenzene	<5.0		ug/L	0.90	5.0	5.0
N-Propylbenzene	<5.0		ug/L	0.95	5.0	5.0
o-Xylene	<5.0		ug/L	1.9	5.0	5.0
p-Isopropyltoluene	<5.0		ug/L	0.80	5.0	5.0
sec-Butylbenzene	<5.0		ug/L	0.80	5.0	5.0
Styrene	<5.0		ug/L	0.75	5.0	5.0
tert-Butylbenzene	<5.0		ug/L	0.80	5.0	5.0
1,1,1,2-Tetrachloroethane	<5.0		ug/L	0.95	5.0	5.0
1,1,2,2-Tetrachloroethane	<5.0		ug/L	1.4	5.0	5.0
Tetrachloroethene	<5.0		ug/L	1.1	5.0	5.0
Toluene	<5.0		ug/L	0.95	5.0	5.0
trans-1,2-Dichloroethene	<5.0		ug/L	1.6	5.0	5.0
trans-1,3-Dichloropropene	<5.0		ug/L	1.2	5.0	5.0
1,2,3-Trichlorobenzene	<5.0		ug/L	1.2	5.0	5.0
1,2,4-Trichlorobenzene	<5.0		ug/L	1.2	5.0	5.0
1,1,1-Trichloroethane	<5.0		ug/L	0.90	5.0	5.0
1,1,2-Trichloroethane	<5.0		ug/L	1.3	5.0	5.0
Trichloroethene	11		ug/L	1.2	5.0	5.0
Trichlorofluoromethane	<5.0		ug/L	1.0	5.0	5.0
1,2,3-Trichloropropane	<5.0		ug/L	2.4	5.0	5.0
1,2,4-Trimethylbenzene	<5.0		ug/L	0.70	5.0	5.0
1,3,5-Trimethylbenzene	<5.0		ug/L	0.90	5.0	5.0
Vinyl acetate	<25		ug/L	4.0	25	5.0
Vinyl chloride	<5.0		ug/L	1.0	5.0	5.0
Xylenes, Total	2.2	J	ug/L	1.6	10	5.0

Surrogate			Acceptance Limits
4-Bromofluorobenzene (Surr)	83	%	80 - 115
Dibromofluoromethane	98	%	80 - 124
1,2-Dichloroethane-d4 (Surr)	81	%	80 - 129
Toluene-d8 (Surr)	98	%	80 - 115

Method: 8260B Run Type: DL Date Analyzed: 05/23/2010 0049
Prep Method: 5030B Date Prepared: 05/23/2010 0049

Chloroform	620	ug/L	7.5	50	50
Trihalomethanes, Total	620	ug/L	7.5	50	50

Surrogate			Acceptance Limits
4-Bromofluorobenzene (Surr)	88	%	80 - 115
Dibromofluoromethane	101	%	80 - 124
1,2-Dichloroethane-d4 (Surr)	88	%	80 - 129

Michael Monacell
Whittier Filtration
315 N. Puente Street
Unit A
Brea, CA 92821

Job Number: 500-25495-1

Client Sample ID: 1822901
Lab Sample ID: 500-25495-1

Date Sampled: 05/12/2010 1200
Date Received: 05/13/2010 1030
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Surrogate					Acceptance Limits	
Toluene-d8 (Surr)	104		%		80 - 115	
Method: 8260B Run Type: DL2				Date Analyzed:	05/23/2010 1621	
Prep Method: 5030B				Date Prepared:	05/23/2010 1621	
Chlorobenzene	5100		ug/L	17	100	100
Surrogate					Acceptance Limits	
4-Bromofluorobenzene (Surr)	88		%		80 - 115	
Dibromofluoromethane	92		%		80 - 124	
1,2-Dichloroethane-d4 (Surr)	84		%		80 - 129	
Toluene-d8 (Surr)	101		%		80 - 115	
Method: 8270C				Date Analyzed:	05/22/2010 1758	
Prep Method: 3510C				Date Prepared:	05/18/2010 2128	
Acenaphthene	<0.93		ug/L	0.085	0.93	1.0
N-Nitrosodimethylamine	<9.3		ug/L	1.3	9.3	1.0
Acenaphthylene	<0.93		ug/L	0.093	0.93	1.0
Aniline	<19		ug/L	3.9	19	1.0
Anthracene	<0.93		ug/L	0.11	0.93	1.0
Benzidine	<37	*	ug/L	3.8	37	1.0
Benzo[a]anthracene	<0.19		ug/L	0.050	0.19	1.0
Benzo[a]pyrene	<0.19		ug/L	0.042	0.19	1.0
Benzo[b]fluoranthene	<0.19		ug/L	0.064	0.19	1.0
Benzo[g,h,i]perylene	<0.93		ug/L	0.10	0.93	1.0
Benzoic acid	<19		ug/L	4.4	19	1.0
Benzo[k]fluoranthene	<0.19		ug/L	0.087	0.19	1.0
Benzyl alcohol	<19		ug/L	4.6	19	1.0
Bis(2-chloroethoxy)methane	<1.9		ug/L	0.24	1.9	1.0
Bis(2-chloroethyl)ether	<1.9		ug/L	0.42	1.9	1.0
bis (2-chloroisopropyl) ether	<1.9		ug/L	0.24	1.9	1.0
Bis(2-ethylhexyl) phthalate	<9.3		ug/L	1.1	9.3	1.0
4-Bromophenyl phenyl ether	<4.7		ug/L	1.3	4.7	1.0
Butyl benzyl phthalate	0.88	J	ug/L	0.28	1.9	1.0
4-Chloroaniline	<9.3		ug/L	1.2	9.3	1.0
4-Chloro-3-methylphenol	<9.3		ug/L	1.3	9.3	1.0
2-Chloronaphthalene	<1.9		ug/L	0.21	1.9	1.0
2-Chlorophenol	<4.7		ug/L	1.0	4.7	1.0
4-Chlorophenyl phenyl ether	<4.7		ug/L	1.2	4.7	1.0
Chrysene	<0.47		ug/L	0.10	0.47	1.0
Dibenz(a,h)anthracene	<0.28		ug/L	0.11	0.28	1.0
Dibenzofuran	<1.9		ug/L	0.26	1.9	1.0

Michael Monacell
Whittier Filtration
315 N. Puente Street
Unit A
Brea, CA 92821

Job Number: 500-25495-1

Client Sample ID: 1822901
Lab Sample ID: 500-25495-1

Date Sampled: 05/12/2010 1200
Date Received: 05/13/2010 1030
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
1,2-Dichlorobenzene	<1.9		ug/L	0.23	1.9	1.0
1,3-Dichlorobenzene	<1.9		ug/L	0.20	1.9	1.0
1,4-Dichlorobenzene	<1.9		ug/L	0.22	1.9	1.0
3,3'-Dichlorobenzidine	<4.7		ug/L	1.2	4.7	1.0
2,4-Dichlorophenol	1.4	J	ug/L	0.93	9.3	1.0
Diethyl phthalate	<1.9		ug/L	0.29	1.9	1.0
2,4-Dimethylphenol	<9.3		ug/L	1.5	9.3	1.0
Dimethyl phthalate	<1.9		ug/L	0.69	1.9	1.0
Di-n-butyl phthalate	<4.7		ug/L	1.1	4.7	1.0
4,6-Dinitro-2-methylphenol	<19		ug/L	4.7	19	1.0
2,4-Dinitrophenol	<19	*	ug/L	7.3	19	1.0
2,4-Dinitrotoluene	<0.93	*	ug/L	0.26	0.93	1.0
2,6-Dinitrotoluene	<0.47		ug/L	0.12	0.47	1.0
Di-n-octyl phthalate	<9.3		ug/L	1.5	9.3	1.0
1,2-Diphenylhydrazine	<4.7		ug/L	1.3	4.7	1.0
Fluoranthene	<0.93		ug/L	0.093	0.93	1.0
Fluorene	<0.93		ug/L	0.11	0.93	1.0
Hexachlorobenzene	<0.47		ug/L	0.088	0.47	1.0
Hexachlorobutadiene	<4.7		ug/L	1.4	4.7	1.0
Hexachlorocyclopentadiene	<19		ug/L	5.1	19	1.0
Hexachloroethane	<4.7		ug/L	1.1	4.7	1.0
Indeno[1,2,3-cd]pyrene	<0.19		ug/L	0.062	0.19	1.0
Isophorone	<1.9		ug/L	0.24	1.9	1.0
2-Methylnaphthalene	0.38	J	ug/L	0.14	0.47	1.0
2-Methylphenol	<1.9		ug/L	0.23	1.9	1.0
3 & 4 Methylphenol	<1.9		ug/L	0.23	1.9	1.0
Naphthalene	0.54	J	ug/L	0.13	0.93	1.0
2-Nitroaniline	<4.7	*	ug/L	1.3	4.7	1.0
3-Nitroaniline	<9.3		ug/L	1.8	9.3	1.0
4-Nitroaniline	<9.3	*	ug/L	1.9	9.3	1.0
Nitrobenzene	<0.93		ug/L	0.35	0.93	1.0
2-Nitrophenol	<9.3		ug/L	1.3	9.3	1.0
4-Nitrophenol	<19		ug/L	3.5	19	1.0
N-Nitrosodi-n-propylamine	<0.47		ug/L	0.14	0.47	1.0
N-Nitrosodiphenylamine	<0.93		ug/L	0.23	0.93	1.0
Pentachlorophenol	<19	*	ug/L	3.0	19	1.0
Phenanthrene	<0.93		ug/L	0.073	0.93	1.0
Phenol	<4.7		ug/L	0.72	4.7	1.0
Pyrene	<0.93		ug/L	0.089	0.93	1.0
1,2,4-Trichlorobenzene	<1.9		ug/L	0.24	1.9	1.0
2,4,5-Trichlorophenol	<9.3		ug/L	1.7	9.3	1.0

Michael Monacell
Whittier Filtration
315 N. Puente Street
Unit A
Brea, CA 92821

Job Number: 500-25495-1

Client Sample ID: 1822901
Lab Sample ID: 500-25495-1

Date Sampled: 05/12/2010 1200
Date Received: 05/13/2010 1030
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
2,4,6-Trichlorophenol	<4.7		ug/L	1.0	4.7	1.0
Surrogate					Acceptance Limits	
2-Fluorobiphenyl	54		%		37 - 102	
2-Fluorophenol	28		%		20 - 100	
Nitrobenzene-d5	53		%		38 - 109	
Phenol-d5	18	X	%		20 - 100	
Terphenyl-d14	86		%		47 - 120	
2,4,6-Tribromophenol	88		%		41 - 134	

Michael Monacell
Whittier Filtration
315 N. Puente Street
Unit A
Brea, CA 92821

Job Number: 500-25495-1

Client Sample ID: 1822902
Lab Sample ID: 500-25495-2

Date Sampled: 05/12/2010 1200
Date Received: 05/13/2010 1030
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: 8260B			Date Analyzed:	05/23/2010 0112		
Prep Method: 5030B			Date Prepared:	05/23/2010 0112		
Acetone	72		ug/L	1.6	5.0	1.0
Bromobenzene	<1.0		ug/L	0.21	1.0	1.0
Bromochloromethane	<1.0		ug/L	0.35	1.0	1.0
Bromodichloromethane	<1.0		ug/L	0.19	1.0	1.0
Bromoform	<1.0		ug/L	0.42	1.0	1.0
Bromomethane	<1.0		ug/L	0.38	1.0	1.0
2-Butanone (MEK)	<5.0		ug/L	2.3	5.0	1.0
Carbon disulfide	<5.0		ug/L	0.55	5.0	1.0
Carbon tetrachloride	<1.0		ug/L	0.25	1.0	1.0
Chloroethane	<1.0		ug/L	0.36	1.0	1.0
Chloromethane	<1.0		ug/L	0.24	1.0	1.0
2-Chlorotoluene	<1.0		ug/L	0.18	1.0	1.0
4-Chlorotoluene	<1.0		ug/L	0.21	1.0	1.0
cis-1,2-Dichloroethene	0.83	J	ug/L	0.27	1.0	1.0
cis-1,3-Dichloropropene	<1.0		ug/L	0.17	1.0	1.0
Cyclohexane	<1.0		ug/L	0.19	1.0	1.0
Dibromochloromethane	<1.0		ug/L	0.25	1.0	1.0
1,2-Dibromo-3-Chloropropane	<2.0		ug/L	0.96	2.0	1.0
1,2-Dibromoethane	<1.0		ug/L	0.37	1.0	1.0
Dibromomethane	<1.0		ug/L	0.30	1.0	1.0
1,2-Dichlorobenzene	<1.0		ug/L	0.17	1.0	1.0
1,3-Dichlorobenzene	<1.0		ug/L	0.24	1.0	1.0
1,4-Dichlorobenzene	<1.0		ug/L	0.21	1.0	1.0
Dichlorodifluoromethane	<1.0		ug/L	0.31	1.0	1.0
1,1-Dichloroethane	<1.0		ug/L	0.25	1.0	1.0
1,2-Dichloroethane	17		ug/L	0.24	1.0	1.0
1,1-Dichloroethene	<1.0		ug/L	0.19	1.0	1.0
1,2-Dichloropropane	<1.0		ug/L	0.21	1.0	1.0
1,3-Dichloropropane	<1.0		ug/L	0.17	1.0	1.0
2,2-Dichloropropane	<1.0		ug/L	0.24	1.0	1.0
1,1-Dichloropropene	<1.0		ug/L	0.16	1.0	1.0
Ethylbenzene	0.39	J	ug/L	0.18	1.0	1.0
Hexachlorobutadiene	<1.0		ug/L	0.26	1.0	1.0
2-Hexanone	<5.0		ug/L	0.80	5.0	1.0
Isopropylbenzene	<1.0		ug/L	0.20	1.0	1.0
Methylene Chloride	10		ug/L	0.67	2.0	1.0
4-Methyl-2-pentanone (MIBK)	<5.0		ug/L	0.84	5.0	1.0
m&p-Xylene	0.53	J	ug/L	0.32	2.0	1.0
Naphthalene	<1.0		ug/L	0.44	1.0	1.0

Michael Monacell
Whittier Filtration
315 N. Puente Street
Unit A
Brea, CA 92821

Job Number: 500-25495-1

Client Sample ID: 1822902
Lab Sample ID: 500-25495-2

Date Sampled: 05/12/2010 1200
Date Received: 05/13/2010 1030
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
n-Butylbenzene	<1.0		ug/L	0.18	1.0	1.0
N-Propylbenzene	<1.0		ug/L	0.19	1.0	1.0
o-Xylene	<1.0		ug/L	0.38	1.0	1.0
p-Isopropyltoluene	<1.0		ug/L	0.16	1.0	1.0
sec-Butylbenzene	<1.0		ug/L	0.16	1.0	1.0
Styrene	<1.0		ug/L	0.15	1.0	1.0
tert-Butylbenzene	<1.0		ug/L	0.16	1.0	1.0
1,1,1,2-Tetrachloroethane	<1.0		ug/L	0.19	1.0	1.0
1,1,2,2-Tetrachloroethane	<1.0		ug/L	0.29	1.0	1.0
Tetrachloroethene	<1.0		ug/L	0.22	1.0	1.0
Toluene	<1.0		ug/L	0.19	1.0	1.0
trans-1,2-Dichloroethene	<1.0		ug/L	0.32	1.0	1.0
trans-1,3-Dichloropropene	<1.0		ug/L	0.24	1.0	1.0
1,2,3-Trichlorobenzene	<1.0		ug/L	0.24	1.0	1.0
1,2,4-Trichlorobenzene	<1.0		ug/L	0.24	1.0	1.0
1,1,1-Trichloroethane	<1.0		ug/L	0.18	1.0	1.0
1,1,2-Trichloroethane	<1.0		ug/L	0.26	1.0	1.0
Trichloroethene	3.1		ug/L	0.24	1.0	1.0
Trichlorofluoromethane	<1.0		ug/L	0.20	1.0	1.0
1,2,3-Trichloropropane	<1.0		ug/L	0.48	1.0	1.0
1,2,4-Trimethylbenzene	<1.0		ug/L	0.14	1.0	1.0
1,3,5-Trimethylbenzene	<1.0		ug/L	0.18	1.0	1.0
Vinyl acetate	<5.0		ug/L	0.80	5.0	1.0
Vinyl chloride	<1.0		ug/L	0.20	1.0	1.0
Xylenes, Total	0.53	J	ug/L	0.32	2.0	1.0

Surrogate			Acceptance Limits
4-Bromofluorobenzene (Surr)	92	%	80 - 115
Dibromofluoromethane	104	%	80 - 124
1,2-Dichloroethane-d4 (Surr)	96	%	80 - 129
Toluene-d8 (Surr)	107	%	80 - 115

Method: 8260B Run Type: DL Date Analyzed: 05/23/2010 0136
Prep Method: 5030B Date Prepared: 05/23/2010 0136

Benzene	180	ug/L	1.7	10	10
Chlorobenzene	840	ug/L	1.7	10	10
Chloroform	230	ug/L	1.5	10	10
Trihalomethanes, Total	230	ug/L	1.5	10	10

Surrogate			Acceptance Limits
4-Bromofluorobenzene (Surr)	85	%	80 - 115
Dibromofluoromethane	101	%	80 - 124

Michael Monacell
Whittier Filtration
315 N. Puente Street
Unit A
Brea, CA 92821

Job Number: 500-25495-1

Client Sample ID: 1822902
Lab Sample ID: 500-25495-2

Date Sampled: 05/12/2010 1200
Date Received: 05/13/2010 1030
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Surrogate					Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	89		%		80 - 129	
Toluene-d8 (Surr)	99		%		80 - 115	
Method: 8270C			Date Analyzed:		05/22/2010 1822	
Prep Method: 3510C			Date Prepared:		05/18/2010 2128	
Acenaphthene	<0.93		ug/L	0.085	0.93	1.0
N-Nitrosodimethylamine	<9.3		ug/L	1.3	9.3	1.0
Acenaphthylene	<0.93		ug/L	0.093	0.93	1.0
Aniline	<19		ug/L	3.9	19	1.0
Anthracene	<0.93		ug/L	0.11	0.93	1.0
Benzidine	<37	*	ug/L	3.8	37	1.0
Benzo[a]anthracene	<0.19		ug/L	0.050	0.19	1.0
Benzo[a]pyrene	<0.19		ug/L	0.042	0.19	1.0
Benzo[b]fluoranthene	<0.19		ug/L	0.064	0.19	1.0
Benzo[g,h,i]perylene	<0.93		ug/L	0.10	0.93	1.0
Benzoic acid	8.6	J	ug/L	4.4	19	1.0
Benzo[k]fluoranthene	<0.19		ug/L	0.087	0.19	1.0
Benzyl alcohol	<19		ug/L	4.6	19	1.0
Bis(2-chloroethoxy)methane	<1.9		ug/L	0.24	1.9	1.0
Bis(2-chloroethyl)ether	<1.9		ug/L	0.42	1.9	1.0
bis (2-chloroisopropyl) ether	<1.9		ug/L	0.24	1.9	1.0
Bis(2-ethylhexyl) phthalate	<9.3		ug/L	1.1	9.3	1.0
4-Bromophenyl phenyl ether	<4.7		ug/L	1.3	4.7	1.0
Butyl benzyl phthalate	<1.9		ug/L	0.28	1.9	1.0
4-Chloroaniline	<9.3		ug/L	1.2	9.3	1.0
4-Chloro-3-methylphenol	<9.3		ug/L	1.3	9.3	1.0
2-Chloronaphthalene	<1.9		ug/L	0.21	1.9	1.0
2-Chlorophenol	<4.7		ug/L	1.0	4.7	1.0
4-Chlorophenyl phenyl ether	<4.7		ug/L	1.2	4.7	1.0
Chrysene	<0.47		ug/L	0.10	0.47	1.0
Dibenz(a,h)anthracene	<0.28		ug/L	0.11	0.28	1.0
Dibenzofuran	<1.9		ug/L	0.26	1.9	1.0
1,2-Dichlorobenzene	<1.9		ug/L	0.23	1.9	1.0
1,3-Dichlorobenzene	<1.9		ug/L	0.20	1.9	1.0
1,4-Dichlorobenzene	<1.9		ug/L	0.22	1.9	1.0
3,3'-Dichlorobenzidine	<4.7		ug/L	1.2	4.7	1.0
2,4-Dichlorophenol	<9.3		ug/L	0.93	9.3	1.0
Diethyl phthalate	<1.9		ug/L	0.29	1.9	1.0
2,4-Dimethylphenol	<9.3		ug/L	1.5	9.3	1.0
Dimethyl phthalate	<1.9		ug/L	0.69	1.9	1.0

Michael Monacell
Whittier Filtration
315 N. Puente Street
Unit A
Brea, CA 92821

Job Number: 500-25495-1

Client Sample ID: 1822902
Lab Sample ID: 500-25495-2

Date Sampled: 05/12/2010 1200
Date Received: 05/13/2010 1030
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Di-n-butyl phthalate	<4.7		ug/L	1.1	4.7	1.0
4,6-Dinitro-2-methylphenol	<19		ug/L	4.7	19	1.0
2,4-Dinitrophenol	<19	*	ug/L	7.3	19	1.0
2,4-Dinitrotoluene	<0.93	*	ug/L	0.26	0.93	1.0
2,6-Dinitrotoluene	<0.47		ug/L	0.12	0.47	1.0
Di-n-octyl phthalate	<9.3		ug/L	1.5	9.3	1.0
1,2-Diphenylhydrazine	<4.7		ug/L	1.3	4.7	1.0
Fluoranthene	<0.93		ug/L	0.093	0.93	1.0
Fluorene	<0.93		ug/L	0.11	0.93	1.0
Hexachlorobenzene	<0.47		ug/L	0.088	0.47	1.0
Hexachlorobutadiene	<4.7		ug/L	1.4	4.7	1.0
Hexachlorocyclopentadiene	<19		ug/L	5.1	19	1.0
Hexachloroethane	<4.7		ug/L	1.1	4.7	1.0
Indeno[1,2,3-cd]pyrene	<0.19		ug/L	0.062	0.19	1.0
Isophorone	<1.9		ug/L	0.24	1.9	1.0
2-Methylnaphthalene	<0.47		ug/L	0.14	0.47	1.0
2-Methylphenol	<1.9		ug/L	0.23	1.9	1.0
3 & 4 Methylphenol	<1.9		ug/L	0.23	1.9	1.0
Naphthalene	<0.93		ug/L	0.13	0.93	1.0
2-Nitroaniline	<4.7	*	ug/L	1.3	4.7	1.0
3-Nitroaniline	<9.3		ug/L	1.8	9.3	1.0
4-Nitroaniline	<9.3	*	ug/L	1.9	9.3	1.0
Nitrobenzene	<0.93		ug/L	0.35	0.93	1.0
2-Nitrophenol	<9.3		ug/L	1.3	9.3	1.0
4-Nitrophenol	<19		ug/L	3.5	19	1.0
N-Nitrosodi-n-propylamine	<0.47		ug/L	0.14	0.47	1.0
N-Nitrosodiphenylamine	<0.93		ug/L	0.23	0.93	1.0
Pentachlorophenol	<19	*	ug/L	3.0	19	1.0
Phenanthrene	<0.93		ug/L	0.073	0.93	1.0
Phenol	<4.7		ug/L	0.72	4.7	1.0
Pyrene	<0.93		ug/L	0.089	0.93	1.0
1,2,4-Trichlorobenzene	<1.9		ug/L	0.24	1.9	1.0
2,4,5-Trichlorophenol	<9.3		ug/L	1.7	9.3	1.0
2,4,6-Trichlorophenol	<4.7		ug/L	1.0	4.7	1.0

Surrogate			Acceptance Limits
2-Fluorobiphenyl	69	%	37 - 102
2-Fluorophenol	37	%	20 - 100
Nitrobenzene-d5	67	%	38 - 109
Phenol-d5	25	%	20 - 100
Terphenyl-d14	70	%	47 - 120
2,4,6-Tribromophenol	108	%	41 - 134

Michael Monacell
Whittier Filtration
315 N. Puente Street
Unit A
Brea, CA 92821

Job Number: 500-25495-1

Client Sample ID: 1822903
Lab Sample ID: 500-25495-3

Date Sampled: 05/12/2010 1200
Date Received: 05/13/2010 1030
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: 8260B			Date Analyzed:	05/23/2010 0159		
Prep Method: 5030B			Date Prepared:	05/23/2010 0159		
Benzene	97		ug/L	0.17	1.0	1.0
Bromobenzene	<1.0		ug/L	0.21	1.0	1.0
Bromochloromethane	<1.0		ug/L	0.35	1.0	1.0
Bromodichloromethane	<1.0		ug/L	0.19	1.0	1.0
Bromoform	<1.0		ug/L	0.42	1.0	1.0
Bromomethane	<1.0		ug/L	0.38	1.0	1.0
2-Butanone (MEK)	<5.0		ug/L	2.3	5.0	1.0
Carbon disulfide	<5.0		ug/L	0.55	5.0	1.0
Carbon tetrachloride	<1.0		ug/L	0.25	1.0	1.0
Chloroethane	<1.0		ug/L	0.36	1.0	1.0
Chloromethane	<1.0		ug/L	0.24	1.0	1.0
2-Chlorotoluene	<1.0		ug/L	0.18	1.0	1.0
4-Chlorotoluene	<1.0		ug/L	0.21	1.0	1.0
cis-1,2-Dichloroethene	0.45	J	ug/L	0.27	1.0	1.0
cis-1,3-Dichloropropene	<1.0		ug/L	0.17	1.0	1.0
Cyclohexane	<1.0		ug/L	0.19	1.0	1.0
Dibromochloromethane	<1.0		ug/L	0.25	1.0	1.0
1,2-Dibromo-3-Chloropropane	<2.0		ug/L	0.96	2.0	1.0
1,2-Dibromoethane	<1.0		ug/L	0.37	1.0	1.0
Dibromomethane	<1.0		ug/L	0.30	1.0	1.0
1,2-Dichlorobenzene	<1.0		ug/L	0.17	1.0	1.0
1,3-Dichlorobenzene	<1.0		ug/L	0.24	1.0	1.0
1,4-Dichlorobenzene	<1.0		ug/L	0.21	1.0	1.0
Dichlorodifluoromethane	<1.0		ug/L	0.31	1.0	1.0
1,1-Dichloroethane	<1.0		ug/L	0.25	1.0	1.0
1,2-Dichloroethane	11		ug/L	0.24	1.0	1.0
1,1-Dichloroethene	<1.0		ug/L	0.19	1.0	1.0
1,2-Dichloropropane	<1.0		ug/L	0.21	1.0	1.0
1,3-Dichloropropane	<1.0		ug/L	0.17	1.0	1.0
2,2-Dichloropropane	<1.0		ug/L	0.24	1.0	1.0
1,1-Dichloropropene	<1.0		ug/L	0.16	1.0	1.0
Ethylbenzene	<1.0		ug/L	0.18	1.0	1.0
Hexachlorobutadiene	<1.0		ug/L	0.26	1.0	1.0
2-Hexanone	<5.0		ug/L	0.80	5.0	1.0
Isopropylbenzene	<1.0		ug/L	0.20	1.0	1.0
Methylene Chloride	11		ug/L	0.67	2.0	1.0
4-Methyl-2-pentanone (MIBK)	<5.0		ug/L	0.84	5.0	1.0
m&p-Xylene	0.45	J	ug/L	0.32	2.0	1.0
Naphthalene	<1.0		ug/L	0.44	1.0	1.0

Michael Monacell
Whittier Filtration
315 N. Puente Street
Unit A
Brea, CA 92821

Job Number: 500-25495-1

Client Sample ID: 1822903
Lab Sample ID: 500-25495-3

Date Sampled: 05/12/2010 1200
Date Received: 05/13/2010 1030
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
n-Butylbenzene	<1.0		ug/L	0.18	1.0	1.0
N-Propylbenzene	<1.0		ug/L	0.19	1.0	1.0
o-Xylene	<1.0		ug/L	0.38	1.0	1.0
p-Isopropyltoluene	<1.0		ug/L	0.16	1.0	1.0
sec-Butylbenzene	<1.0		ug/L	0.16	1.0	1.0
Styrene	<1.0		ug/L	0.15	1.0	1.0
tert-Butylbenzene	<1.0		ug/L	0.16	1.0	1.0
1,1,1,2-Tetrachloroethane	<1.0		ug/L	0.19	1.0	1.0
1,1,2,2-Tetrachloroethane	<1.0		ug/L	0.29	1.0	1.0
Tetrachloroethene	<1.0		ug/L	0.22	1.0	1.0
Toluene	<1.0		ug/L	0.19	1.0	1.0
trans-1,2-Dichloroethene	<1.0		ug/L	0.32	1.0	1.0
trans-1,3-Dichloropropene	<1.0		ug/L	0.24	1.0	1.0
1,2,3-Trichlorobenzene	<1.0		ug/L	0.24	1.0	1.0
1,2,4-Trichlorobenzene	<1.0		ug/L	0.24	1.0	1.0
1,1,1-Trichloroethane	<1.0		ug/L	0.18	1.0	1.0
1,1,2-Trichloroethane	<1.0		ug/L	0.26	1.0	1.0
Trichloroethene	1.2		ug/L	0.24	1.0	1.0
Trichlorofluoromethane	<1.0		ug/L	0.20	1.0	1.0
1,2,3-Trichloropropane	<1.0		ug/L	0.48	1.0	1.0
1,2,4-Trimethylbenzene	<1.0		ug/L	0.14	1.0	1.0
1,3,5-Trimethylbenzene	<1.0		ug/L	0.18	1.0	1.0
Vinyl acetate	<5.0		ug/L	0.80	5.0	1.0
Vinyl chloride	<1.0		ug/L	0.20	1.0	1.0
Xylenes, Total	0.45	J	ug/L	0.32	2.0	1.0

Surrogate			Acceptance Limits
4-Bromofluorobenzene (Surr)	85	%	80 - 115
Dibromofluoromethane	99	%	80 - 124
1,2-Dichloroethane-d4 (Surr)	89	%	80 - 129
Toluene-d8 (Surr)	99	%	80 - 115

Method: 8260B Run Type: DL Date Analyzed: 05/23/2010 0222
Prep Method: 5030B Date Prepared: 05/23/2010 0222

Acetone	210	ug/L	16	50	10
Chlorobenzene	280	ug/L	1.7	10	10
Chloroform	180	ug/L	1.5	10	10
Trihalomethanes, Total	180	ug/L	1.5	10	10

Surrogate			Acceptance Limits
4-Bromofluorobenzene (Surr)	86	%	80 - 115
Dibromofluoromethane	109	%	80 - 124

Michael Monacell
Whittier Filtration
315 N. Puente Street
Unit A
Brea, CA 92821

Job Number: 500-25495-1

Client Sample ID: 1822903
Lab Sample ID: 500-25495-3

Date Sampled: 05/12/2010 1200
Date Received: 05/13/2010 1030
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Surrogate					Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	93		%		80 - 129	
Toluene-d8 (Surr)	105		%		80 - 115	
Method: 8270C			Date Analyzed:		05/22/2010 1846	
Prep Method: 3510C			Date Prepared:		05/18/2010 2128	
Acenaphthene	<0.93		ug/L	0.085	0.93	1.0
N-Nitrosodimethylamine	<9.3		ug/L	1.3	9.3	1.0
Acenaphthylene	<0.93		ug/L	0.093	0.93	1.0
Aniline	<19		ug/L	3.9	19	1.0
Anthracene	<0.93		ug/L	0.11	0.93	1.0
Benzidine	<37	*	ug/L	3.8	37	1.0
Benzo[a]anthracene	<0.19		ug/L	0.050	0.19	1.0
Benzo[a]pyrene	<0.19		ug/L	0.042	0.19	1.0
Benzo[b]fluoranthene	<0.19		ug/L	0.064	0.19	1.0
Benzo[g,h,i]perylene	<0.93		ug/L	0.10	0.93	1.0
Benzoic acid	8.9	J	ug/L	4.4	19	1.0
Benzo[k]fluoranthene	<0.19		ug/L	0.087	0.19	1.0
Benzyl alcohol	<19		ug/L	4.6	19	1.0
Bis(2-chloroethoxy)methane	<1.9		ug/L	0.24	1.9	1.0
Bis(2-chloroethyl)ether	<1.9		ug/L	0.42	1.9	1.0
bis (2-chloroisopropyl) ether	<1.9		ug/L	0.24	1.9	1.0
Bis(2-ethylhexyl) phthalate	<9.3		ug/L	1.1	9.3	1.0
4-Bromophenyl phenyl ether	<4.7		ug/L	1.3	4.7	1.0
Butyl benzyl phthalate	<1.9		ug/L	0.28	1.9	1.0
4-Chloroaniline	<9.3		ug/L	1.2	9.3	1.0
4-Chloro-3-methylphenol	<9.3		ug/L	1.3	9.3	1.0
2-Chloronaphthalene	<1.9		ug/L	0.21	1.9	1.0
2-Chlorophenol	<4.7		ug/L	1.0	4.7	1.0
4-Chlorophenyl phenyl ether	<4.7		ug/L	1.2	4.7	1.0
Chrysene	<0.47		ug/L	0.10	0.47	1.0
Dibenz(a,h)anthracene	<0.28		ug/L	0.11	0.28	1.0
Dibenzofuran	<1.9		ug/L	0.26	1.9	1.0
1,2-Dichlorobenzene	<1.9		ug/L	0.23	1.9	1.0
1,3-Dichlorobenzene	<1.9		ug/L	0.20	1.9	1.0
1,4-Dichlorobenzene	<1.9		ug/L	0.22	1.9	1.0
3,3'-Dichlorobenzidine	<4.7		ug/L	1.2	4.7	1.0
2,4-Dichlorophenol	<9.3		ug/L	0.93	9.3	1.0
Diethyl phthalate	<1.9		ug/L	0.29	1.9	1.0
2,4-Dimethylphenol	<9.3		ug/L	1.5	9.3	1.0
Dimethyl phthalate	<1.9		ug/L	0.69	1.9	1.0

Michael Monacell
Whittier Filtration
315 N. Puente Street
Unit A
Brea, CA 92821

Job Number: 500-25495-1

Client Sample ID: 1822903
Lab Sample ID: 500-25495-3

Date Sampled: 05/12/2010 1200
Date Received: 05/13/2010 1030
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Di-n-butyl phthalate	<4.7		ug/L	1.1	4.7	1.0
4,6-Dinitro-2-methylphenol	<19		ug/L	4.7	19	1.0
2,4-Dinitrophenol	<19	*	ug/L	7.3	19	1.0
2,4-Dinitrotoluene	<0.93	*	ug/L	0.26	0.93	1.0
2,6-Dinitrotoluene	<0.47		ug/L	0.12	0.47	1.0
Di-n-octyl phthalate	<9.3		ug/L	1.5	9.3	1.0
1,2-Diphenylhydrazine	<4.7		ug/L	1.3	4.7	1.0
Fluoranthene	<0.93		ug/L	0.093	0.93	1.0
Fluorene	<0.93		ug/L	0.11	0.93	1.0
Hexachlorobenzene	<0.47		ug/L	0.088	0.47	1.0
Hexachlorobutadiene	<4.7		ug/L	1.4	4.7	1.0
Hexachlorocyclopentadiene	<19		ug/L	5.1	19	1.0
Hexachloroethane	<4.7		ug/L	1.1	4.7	1.0
Indeno[1,2,3-cd]pyrene	<0.19		ug/L	0.062	0.19	1.0
Isophorone	<1.9		ug/L	0.24	1.9	1.0
2-Methylnaphthalene	<0.47		ug/L	0.14	0.47	1.0
2-Methylphenol	<1.9		ug/L	0.23	1.9	1.0
3 & 4 Methylphenol	<1.9		ug/L	0.23	1.9	1.0
Naphthalene	<0.93		ug/L	0.13	0.93	1.0
2-Nitroaniline	<4.7	*	ug/L	1.3	4.7	1.0
3-Nitroaniline	<9.3		ug/L	1.8	9.3	1.0
4-Nitroaniline	<9.3	*	ug/L	1.9	9.3	1.0
Nitrobenzene	<0.93		ug/L	0.35	0.93	1.0
2-Nitrophenol	<9.3		ug/L	1.3	9.3	1.0
4-Nitrophenol	<19		ug/L	3.5	19	1.0
N-Nitrosodi-n-propylamine	<0.47		ug/L	0.14	0.47	1.0
N-Nitrosodiphenylamine	<0.93		ug/L	0.23	0.93	1.0
Pentachlorophenol	<19	*	ug/L	3.0	19	1.0
Phenanthrene	<0.93		ug/L	0.073	0.93	1.0
Phenol	<4.7		ug/L	0.72	4.7	1.0
Pyrene	<0.93		ug/L	0.089	0.93	1.0
1,2,4-Trichlorobenzene	<1.9		ug/L	0.24	1.9	1.0
2,4,5-Trichlorophenol	<9.3		ug/L	1.7	9.3	1.0
2,4,6-Trichlorophenol	<4.7		ug/L	1.0	4.7	1.0

Surrogate			Acceptance Limits
2-Fluorobiphenyl	66	%	37 - 102
2-Fluorophenol	40	%	20 - 100
Nitrobenzene-d5	62	%	38 - 109
Phenol-d5	25	%	20 - 100
Terphenyl-d14	71	%	47 - 120
2,4,6-Tribromophenol	94	%	41 - 134

Michael Monacell
Whittier Filtration
315 N. Puente Street
Unit A
Brea, CA 92821

Job Number: 500-25495-1

Client Sample ID: 1822904
Lab Sample ID: 500-25495-4

Date Sampled: 05/12/2010 1200
Date Received: 05/13/2010 1030
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: 8260B			Date Analyzed:	05/23/2010 0246		
Prep Method: 5030B			Date Prepared:	05/23/2010 0246		
Acetone	63		ug/L	1.6	5.0	1.0
Benzene	62		ug/L	0.17	1.0	1.0
Bromobenzene	<1.0		ug/L	0.21	1.0	1.0
Bromochloromethane	<1.0		ug/L	0.35	1.0	1.0
Bromodichloromethane	<1.0		ug/L	0.19	1.0	1.0
Bromoform	<1.0		ug/L	0.42	1.0	1.0
Bromomethane	<1.0		ug/L	0.38	1.0	1.0
2-Butanone (MEK)	<5.0		ug/L	2.3	5.0	1.0
Carbon disulfide	<5.0		ug/L	0.55	5.0	1.0
Carbon tetrachloride	<1.0		ug/L	0.25	1.0	1.0
Chloroethane	<1.0		ug/L	0.36	1.0	1.0
Chloromethane	<1.0		ug/L	0.24	1.0	1.0
2-Chlorotoluene	<1.0		ug/L	0.18	1.0	1.0
4-Chlorotoluene	<1.0		ug/L	0.21	1.0	1.0
cis-1,2-Dichloroethene	<1.0		ug/L	0.27	1.0	1.0
cis-1,3-Dichloropropene	<1.0		ug/L	0.17	1.0	1.0
Cyclohexane	<1.0		ug/L	0.19	1.0	1.0
Dibromochloromethane	<1.0		ug/L	0.25	1.0	1.0
1,2-Dibromo-3-Chloropropane	<2.0		ug/L	0.96	2.0	1.0
1,2-Dibromoethane	<1.0		ug/L	0.37	1.0	1.0
Dibromomethane	<1.0		ug/L	0.30	1.0	1.0
1,2-Dichlorobenzene	<1.0		ug/L	0.17	1.0	1.0
1,3-Dichlorobenzene	<1.0		ug/L	0.24	1.0	1.0
1,4-Dichlorobenzene	<1.0		ug/L	0.21	1.0	1.0
Dichlorodifluoromethane	<1.0		ug/L	0.31	1.0	1.0
1,1-Dichloroethane	<1.0		ug/L	0.25	1.0	1.0
1,2-Dichloroethane	7.7		ug/L	0.24	1.0	1.0
1,1-Dichloroethene	<1.0		ug/L	0.19	1.0	1.0
1,2-Dichloropropane	<1.0		ug/L	0.21	1.0	1.0
1,3-Dichloropropane	<1.0		ug/L	0.17	1.0	1.0
2,2-Dichloropropane	<1.0		ug/L	0.24	1.0	1.0
1,1-Dichloropropene	<1.0		ug/L	0.16	1.0	1.0
Ethylbenzene	<1.0		ug/L	0.18	1.0	1.0
Hexachlorobutadiene	<1.0		ug/L	0.26	1.0	1.0
2-Hexanone	<5.0		ug/L	0.80	5.0	1.0
Isopropylbenzene	<1.0		ug/L	0.20	1.0	1.0
Methylene Chloride	8.0		ug/L	0.67	2.0	1.0
4-Methyl-2-pentanone (MIBK)	<5.0		ug/L	0.84	5.0	1.0
m&p-Xylene	0.36	J	ug/L	0.32	2.0	1.0

Michael Monacell
Whittier Filtration
315 N. Puente Street
Unit A
Brea, CA 92821

Job Number: 500-25495-1

Client Sample ID: 1822904
Lab Sample ID: 500-25495-4

Date Sampled: 05/12/2010 1200
Date Received: 05/13/2010 1030
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Naphthalene	<1.0		ug/L	0.44	1.0	1.0
n-Butylbenzene	<1.0		ug/L	0.18	1.0	1.0
N-Propylbenzene	<1.0		ug/L	0.19	1.0	1.0
o-Xylene	<1.0		ug/L	0.38	1.0	1.0
p-Isopropyltoluene	<1.0		ug/L	0.16	1.0	1.0
sec-Butylbenzene	<1.0		ug/L	0.16	1.0	1.0
Styrene	<1.0		ug/L	0.15	1.0	1.0
tert-Butylbenzene	<1.0		ug/L	0.16	1.0	1.0
1,1,1,2-Tetrachloroethane	<1.0		ug/L	0.19	1.0	1.0
1,1,2,2-Tetrachloroethane	<1.0		ug/L	0.29	1.0	1.0
Tetrachloroethene	<1.0		ug/L	0.22	1.0	1.0
Toluene	<1.0		ug/L	0.19	1.0	1.0
trans-1,2-Dichloroethene	<1.0		ug/L	0.32	1.0	1.0
trans-1,3-Dichloropropene	<1.0		ug/L	0.24	1.0	1.0
1,2,3-Trichlorobenzene	<1.0		ug/L	0.24	1.0	1.0
1,2,4-Trichlorobenzene	<1.0		ug/L	0.24	1.0	1.0
1,1,1-Trichloroethane	<1.0		ug/L	0.18	1.0	1.0
1,1,2-Trichloroethane	<1.0		ug/L	0.26	1.0	1.0
Trichloroethene	0.79	J	ug/L	0.24	1.0	1.0
Trichlorofluoromethane	<1.0		ug/L	0.20	1.0	1.0
1,2,3-Trichloropropane	<1.0		ug/L	0.48	1.0	1.0
1,2,4-Trimethylbenzene	<1.0		ug/L	0.14	1.0	1.0
1,3,5-Trimethylbenzene	<1.0		ug/L	0.18	1.0	1.0
Vinyl acetate	<5.0		ug/L	0.80	5.0	1.0
Vinyl chloride	<1.0		ug/L	0.20	1.0	1.0
Xylenes, Total	0.36	J	ug/L	0.32	2.0	1.0

Surrogate			Acceptance Limits
4-Bromofluorobenzene (Surr)	89	%	80 - 115
Dibromofluoromethane	98	%	80 - 124
1,2-Dichloroethane-d4 (Surr)	90	%	80 - 129
Toluene-d8 (Surr)	102	%	80 - 115

Method: 8260B Run Type: DL Date Analyzed: 05/23/2010 0309
Prep Method: 5030B Date Prepared: 05/23/2010 0309

Chlorobenzene	160	ug/L	1.7	10	10
Chloroform	120	ug/L	1.5	10	10
Trihalomethanes, Total	120	ug/L	1.5	10	10

Surrogate			Acceptance Limits
4-Bromofluorobenzene (Surr)	86	%	80 - 115
Dibromofluoromethane	107	%	80 - 124

Michael Monacell
Whittier Filtration
315 N. Puente Street
Unit A
Brea, CA 92821

Job Number: 500-25495-1

Client Sample ID: 1822904
Lab Sample ID: 500-25495-4

Date Sampled: 05/12/2010 1200
Date Received: 05/13/2010 1030
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Surrogate					Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	89		%		80 - 129	
Toluene-d8 (Surr)	100		%		80 - 115	
Method: 8270C				Date Analyzed:	05/22/2010 1910	
Prep Method: 3510C				Date Prepared:	05/18/2010 2128	
Acenaphthene	<0.93		ug/L	0.085	0.93	1.0
N-Nitrosodimethylamine	<9.3		ug/L	1.3	9.3	1.0
Acenaphthylene	<0.93		ug/L	0.093	0.93	1.0
Aniline	<19		ug/L	3.9	19	1.0
Anthracene	<0.93		ug/L	0.11	0.93	1.0
Benzidine	<37	*	ug/L	3.8	37	1.0
Benzo[a]anthracene	<0.19		ug/L	0.050	0.19	1.0
Benzo[a]pyrene	<0.19		ug/L	0.042	0.19	1.0
Benzo[b]fluoranthene	<0.19		ug/L	0.064	0.19	1.0
Benzo[g,h,i]perylene	<0.93		ug/L	0.10	0.93	1.0
Benzoic acid	9.0	J	ug/L	4.4	19	1.0
Benzo[k]fluoranthene	<0.19		ug/L	0.087	0.19	1.0
Benzyl alcohol	<19		ug/L	4.6	19	1.0
Bis(2-chloroethoxy)methane	<1.9		ug/L	0.24	1.9	1.0
Bis(2-chloroethyl)ether	<1.9		ug/L	0.42	1.9	1.0
bis (2-chloroisopropyl) ether	<1.9		ug/L	0.24	1.9	1.0
Bis(2-ethylhexyl) phthalate	<9.3		ug/L	1.1	9.3	1.0
4-Bromophenyl phenyl ether	<4.7		ug/L	1.3	4.7	1.0
Butyl benzyl phthalate	<1.9		ug/L	0.28	1.9	1.0
4-Chloroaniline	<9.3		ug/L	1.2	9.3	1.0
4-Chloro-3-methylphenol	<9.3		ug/L	1.3	9.3	1.0
2-Chloronaphthalene	<1.9		ug/L	0.21	1.9	1.0
2-Chlorophenol	<4.7		ug/L	1.0	4.7	1.0
4-Chlorophenyl phenyl ether	<4.7		ug/L	1.2	4.7	1.0
Chrysene	<0.47		ug/L	0.10	0.47	1.0
Dibenz(a,h)anthracene	<0.28		ug/L	0.11	0.28	1.0
Dibenzofuran	<1.9		ug/L	0.26	1.9	1.0
1,2-Dichlorobenzene	<1.9		ug/L	0.23	1.9	1.0
1,3-Dichlorobenzene	<1.9		ug/L	0.20	1.9	1.0
1,4-Dichlorobenzene	<1.9		ug/L	0.22	1.9	1.0
3,3'-Dichlorobenzidine	<4.7		ug/L	1.2	4.7	1.0
2,4-Dichlorophenol	<9.3		ug/L	0.93	9.3	1.0
Diethyl phthalate	<1.9		ug/L	0.29	1.9	1.0
2,4-Dimethylphenol	<9.3		ug/L	1.5	9.3	1.0
Dimethyl phthalate	<1.9		ug/L	0.69	1.9	1.0

Michael Monacell
Whittier Filtration
315 N. Puente Street
Unit A
Brea, CA 92821

Job Number: 500-25495-1

Client Sample ID: 1822904
Lab Sample ID: 500-25495-4

Date Sampled: 05/12/2010 1200
Date Received: 05/13/2010 1030
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Di-n-butyl phthalate	<4.7		ug/L	1.1	4.7	1.0
4,6-Dinitro-2-methylphenol	<19		ug/L	4.7	19	1.0
2,4-Dinitrophenol	<19	*	ug/L	7.3	19	1.0
2,4-Dinitrotoluene	<0.93	*	ug/L	0.26	0.93	1.0
2,6-Dinitrotoluene	<0.47		ug/L	0.12	0.47	1.0
Di-n-octyl phthalate	<9.3		ug/L	1.5	9.3	1.0
1,2-Diphenylhydrazine	<4.7		ug/L	1.3	4.7	1.0
Fluoranthene	<0.93		ug/L	0.093	0.93	1.0
Fluorene	<0.93		ug/L	0.11	0.93	1.0
Hexachlorobenzene	<0.47		ug/L	0.088	0.47	1.0
Hexachlorobutadiene	<4.7		ug/L	1.4	4.7	1.0
Hexachlorocyclopentadiene	<19		ug/L	5.1	19	1.0
Hexachloroethane	<4.7		ug/L	1.1	4.7	1.0
Indeno[1,2,3-cd]pyrene	<0.19		ug/L	0.062	0.19	1.0
Isophorone	<1.9		ug/L	0.24	1.9	1.0
2-Methylnaphthalene	<0.47		ug/L	0.14	0.47	1.0
2-Methylphenol	<1.9		ug/L	0.23	1.9	1.0
3 & 4 Methylphenol	<1.9		ug/L	0.23	1.9	1.0
Naphthalene	<0.93		ug/L	0.13	0.93	1.0
2-Nitroaniline	<4.7	*	ug/L	1.3	4.7	1.0
3-Nitroaniline	<9.3		ug/L	1.8	9.3	1.0
4-Nitroaniline	<9.3	*	ug/L	1.9	9.3	1.0
Nitrobenzene	<0.93		ug/L	0.35	0.93	1.0
2-Nitrophenol	<9.3		ug/L	1.3	9.3	1.0
4-Nitrophenol	<19		ug/L	3.5	19	1.0
N-Nitrosodi-n-propylamine	<0.47		ug/L	0.14	0.47	1.0
N-Nitrosodiphenylamine	<0.93		ug/L	0.23	0.93	1.0
Pentachlorophenol	<19	*	ug/L	3.0	19	1.0
Phenanthrene	<0.93		ug/L	0.073	0.93	1.0
Phenol	<4.7		ug/L	0.72	4.7	1.0
Pyrene	<0.93		ug/L	0.089	0.93	1.0
1,2,4-Trichlorobenzene	<1.9		ug/L	0.24	1.9	1.0
2,4,5-Trichlorophenol	<9.3		ug/L	1.7	9.3	1.0
2,4,6-Trichlorophenol	<4.7		ug/L	1.0	4.7	1.0

Surrogate			Acceptance Limits
2-Fluorobiphenyl	61	%	37 - 102
2-Fluorophenol	42	%	20 - 100
Nitrobenzene-d5	64	%	38 - 109
Phenol-d5	26	%	20 - 100
Terphenyl-d14	71	%	47 - 120
2,4,6-Tribromophenol	98	%	41 - 134

DATA REPORTING QUALIFIERS

Client: Whittier Filtration

Job Number: 500-25495-1

Lab Section	Qualifier	Description
GC/MS VOA		
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
GC/MS Semi VOA		
	*	LCS or LCSD exceeds the control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	*	RPD of the LCS and LCSD exceeds the control limits
	X	Surrogate is outside control limits

QUALITY CONTROL RESULTS

Client: Whittier Filtration

Job Number: 500-25495-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:500-86323					
LCS 500-86323/5	Lab Control Sample	T	Water	8260B	
MB 500-86323/4	Method Blank	T	Water	8260B	
500-25495-1	1822901	T	Water	8260B	
500-25495-1DL	1822901	T	Water	8260B	
500-25495-2	1822902	T	Water	8260B	
500-25495-2DL	1822902	T	Water	8260B	
500-25495-3	1822903	T	Water	8260B	
500-25495-3DL	1822903	T	Water	8260B	
500-25495-4	1822904	T	Water	8260B	
500-25495-4DL	1822904	T	Water	8260B	
Analysis Batch:500-86345					
LCS 500-86345/5	Lab Control Sample	T	Water	8260B	
MB 500-86345/4	Method Blank	T	Water	8260B	
500-25495-1DL2	1822901	T	Water	8260B	

Report Basis
T = Total

GC/MS Semi VOA					
Prep Batch: 500-85962					
LCS 500-85962/2-A	Lab Control Sample	T	Water	3510C	
LCSD 500-85962/3-A	Lab Control Sample Duplicate	T	Water	3510C	
MB 500-85962/1-A	Method Blank	T	Water	3510C	
500-25495-1	1822901	T	Water	3510C	
500-25495-2	1822902	T	Water	3510C	
500-25495-3	1822903	T	Water	3510C	
500-25495-4	1822904	T	Water	3510C	
Analysis Batch:500-86138					
LCS 500-85962/2-A	Lab Control Sample	T	Water	8270C	500-85962
LCSD 500-85962/3-A	Lab Control Sample Duplicate	T	Water	8270C	500-85962
MB 500-85962/1-A	Method Blank	T	Water	8270C	500-85962
Analysis Batch:500-86343					
500-25495-1	1822901	T	Water	8270C	500-85962
500-25495-2	1822902	T	Water	8270C	500-85962
500-25495-3	1822903	T	Water	8270C	500-85962
500-25495-4	1822904	T	Water	8270C	500-85962

Report Basis
T = Total

Client: Whittier Filtration

Job Number: 500-25495-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	BFB %Rec	DBFM %Rec	DCA %Rec	TOL %Rec
500-25495-1	1822901	83	98	81	98
500-25495-1 DL	1822901 DL	88	101	88	104
500-25495-1 DL2	1822901 DL2	88	92	84	101
500-25495-2	1822902	92	104	96	107
500-25495-2 DL	1822902 DL	85	101	89	99
500-25495-3	1822903	85	99	89	99
500-25495-3 DL	1822903 DL	86	109	93	105
500-25495-4	1822904	89	98	90	102
500-25495-4 DL	1822904 DL	86	107	89	100
MB 500-86323/4		86	96	86	99
MB 500-86345/4		86	96	93	109
LCS 500-86323/5		94	99	87	106
LCS 500-86345/5		96	103	91	111

Surrogate	Acceptance Limits
BFB = 4-Bromofluorobenzene (Surr)	80-115
DBFM = Dibromofluoromethane	80-124
DCA = 1,2-Dichloroethane-d4 (Surr)	80-129
TOL = Toluene-d8 (Surr)	80-115

Client: Whittier Filtration

Job Number: 500-25495-1

Surrogate Recovery Report

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	FBP %Rec	2FP %Rec	NBZ %Rec	PHL %Rec	TPH %Rec	TBP %Rec
500-25495-1	1822901	54	28	53	18X	86	88
500-25495-2	1822902	69	37	67	25	70	108
500-25495-3	1822903	66	40	62	25	71	94
500-25495-4	1822904	61	42	64	26	71	98
MB 500-85962/1-A		73	41	69	27	110	74
LCS 500-85962/2-A		76	40	84	27	94	95
LCSD 500-85962/3-A		86	45	97	32	106	111

Surrogate	Acceptance Limits
FBP = 2-Fluorobiphenyl	37-102
2FP = 2-Fluorophenol	20-100
NBZ = Nitrobenzene-d5	38-109
PHL = Phenol-d5	20-100
TPH = Terphenyl-d14	47-120
TBP = 2,4,6-Tribromophenol	41-134

Client: Whittier Filtration

Job Number: 500-25495-1

Method Blank - Batch: 500-86323

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 500-86323/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 05/22/2010 1846
Date Prepared: 05/22/2010 1846

Analysis Batch: 500-86323
Prep Batch: N/A
Units: ug/L

Instrument ID: MS18
Lab File ID: 18M0522.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result	Qual	MDL	RL
Acetone	<5.0		1.6	5.0
Benzene	<1.0		0.17	1.0
Bromobenzene	<1.0		0.21	1.0
Bromochloromethane	<1.0		0.35	1.0
Bromodichloromethane	<1.0		0.19	1.0
Bromoform	<1.0		0.42	1.0
Bromomethane	<1.0		0.38	1.0
2-Butanone (MEK)	<5.0		2.3	5.0
Carbon disulfide	<5.0		0.55	5.0
Carbon tetrachloride	<1.0		0.25	1.0
Chlorobenzene	<1.0		0.17	1.0
Chloroethane	<1.0		0.36	1.0
Chloroform	<1.0		0.15	1.0
Chloromethane	<1.0		0.24	1.0
2-Chlorotoluene	<1.0		0.18	1.0
4-Chlorotoluene	<1.0		0.21	1.0
cis-1,2-Dichloroethene	<1.0		0.27	1.0
cis-1,3-Dichloropropene	<1.0		0.17	1.0
Cyclohexane	<1.0		0.19	1.0
Dibromochloromethane	<1.0		0.25	1.0
1,2-Dibromo-3-Chloropropane	<2.0		0.96	2.0
1,2-Dibromoethane	<1.0		0.37	1.0
Dibromomethane	<1.0		0.30	1.0
1,2-Dichlorobenzene	<1.0		0.17	1.0
1,3-Dichlorobenzene	<1.0		0.24	1.0
1,4-Dichlorobenzene	<1.0		0.21	1.0
Dichlorodifluoromethane	<1.0		0.31	1.0
1,1-Dichloroethane	<1.0		0.25	1.0
1,2-Dichloroethane	<1.0		0.24	1.0
1,1-Dichloroethene	<1.0		0.19	1.0
1,2-Dichloropropane	<1.0		0.21	1.0
1,3-Dichloropropane	<1.0		0.17	1.0
2,2-Dichloropropane	<1.0		0.24	1.0
1,1-Dichloropropene	<1.0		0.16	1.0
Ethylbenzene	<1.0		0.18	1.0
Hexachlorobutadiene	<1.0		0.26	1.0
2-Hexanone	<5.0		0.80	5.0
Isopropylbenzene	<1.0		0.20	1.0
Methylene Chloride	<2.0		0.67	2.0
4-Methyl-2-pentanone (MIBK)	<5.0		0.84	5.0
m&p-Xylene	<2.0		0.32	2.0
Naphthalene	<1.0		0.44	1.0
n-Butylbenzene	<1.0		0.18	1.0

Client: Whittier Filtration

Job Number: 500-25495-1

Method Blank - Batch: 500-86323

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 500-86323/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 05/22/2010 1846
Date Prepared: 05/22/2010 1846

Analysis Batch: 500-86323
Prep Batch: N/A
Units: ug/L

Instrument ID: MS18
Lab File ID: 18M0522.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result	Qual	MDL	RL
N-Propylbenzene	<1.0		0.19	1.0
o-Xylene	<1.0		0.38	1.0
p-Isopropyltoluene	<1.0		0.16	1.0
sec-Butylbenzene	<1.0		0.16	1.0
Styrene	<1.0		0.15	1.0
tert-Butylbenzene	<1.0		0.16	1.0
1,1,1,2-Tetrachloroethane	<1.0		0.19	1.0
1,1,2,2-Tetrachloroethane	<1.0		0.29	1.0
Tetrachloroethene	<1.0		0.22	1.0
Toluene	<1.0		0.19	1.0
trans-1,2-Dichloroethene	<1.0		0.32	1.0
trans-1,3-Dichloropropene	<1.0		0.24	1.0
1,2,3-Trichlorobenzene	<1.0		0.24	1.0
1,2,4-Trichlorobenzene	<1.0		0.24	1.0
1,1,1-Trichloroethane	<1.0		0.18	1.0
1,1,2-Trichloroethane	<1.0		0.26	1.0
Trichloroethene	<1.0		0.24	1.0
Trichlorofluoromethane	<1.0		0.20	1.0
1,2,3-Trichloropropane	<1.0		0.48	1.0
Trihalomethanes, Total	<1.0		0.15	1.0
1,2,4-Trimethylbenzene	<1.0		0.14	1.0
1,3,5-Trimethylbenzene	<1.0		0.18	1.0
Vinyl acetate	<5.0		0.80	5.0
Vinyl chloride	<1.0		0.20	1.0
Xylenes, Total	<2.0		0.32	2.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	86	80 - 115
Dibromofluoromethane	96	80 - 124
1,2-Dichloroethane-d4 (Surr)	86	80 - 129
Toluene-d8 (Surr)	99	80 - 115

Client: Whittier Filtration

Job Number: 500-25495-1

Lab Control Sample - Batch: 500-86323

Method: 8260B
Preparation: 5030B

Lab Sample ID: LCS 500-86323/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 05/22/2010 1943
Date Prepared: 05/22/2010 1943

Analysis Batch: 500-86323
Prep Batch: N/A
Units: ug/L

Instrument ID: MS18
Lab File ID: 18s0521b.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acetone	25.0	34.3	137	42 - 149	
Benzene	25.0	28.0	112	73 - 117	
Bromobenzene	25.0	26.0	104	78 - 119	
Bromochloromethane	25.0	28.9	116	70 - 122	
Bromodichloromethane	25.0	23.9	96	79 - 124	
Bromoform	25.0	23.7	95	59 - 122	
Bromomethane	25.0	29.8	119	35 - 181	
2-Butanone (MEK)	25.0	34.1	136	52 - 148	
Carbon disulfide	25.0	23.1	92	38 - 123	
Carbon tetrachloride	25.0	23.9	96	66 - 138	
Chlorobenzene	25.0	25.7	103	78 - 113	
Chloroethane	25.0	31.2	125	52 - 150	
Chloroform	25.0	26.1	104	74 - 121	
Chloromethane	25.0	31.8	127	51 - 151	
2-Chlorotoluene	25.0	24.8	99	75 - 121	
4-Chlorotoluene	25.0	24.5	98	74 - 119	
cis-1,2-Dichloroethene	25.0	27.2	109	65 - 115	
cis-1,3-Dichloropropene	26.9	28.9	108	66 - 122	
Dibromochloromethane	25.0	23.1	93	68 - 122	
1,2-Dibromo-3-Chloropropane	25.0	22.5	90	55 - 126	
1,2-Dibromoethane	25.0	28.4	114	77 - 123	
Dibromomethane	25.0	25.4	102	76 - 121	
1,2-Dichlorobenzene	25.0	26.0	104	80 - 116	
1,3-Dichlorobenzene	25.0	26.4	105	80 - 114	
1,4-Dichlorobenzene	25.0	24.7	99	79 - 113	
Dichlorodifluoromethane	25.0	36.4	146	46 - 182	
1,1-Dichloroethane	25.0	27.9	111	67 - 122	
1,2-Dichloroethane	25.0	24.3	97	71 - 124	
1,1-Dichloroethene	25.0	28.1	112	55 - 127	
1,2-Dichloropropane	25.0	28.1	113	75 - 120	
1,3-Dichloropropane	25.0	25.8	103	74 - 119	
2,2-Dichloropropane	25.0	26.4	105	62 - 135	
1,1-Dichloropropene	25.0	26.5	106	69 - 122	
Ethylbenzene	25.0	26.2	105	80 - 116	
Hexachlorobutadiene	25.0	20.8	83	69 - 125	
2-Hexanone	25.0	26.3	105	54 - 140	
Isopropylbenzene	25.0	22.1	88	66 - 107	
Methylene Chloride	25.0	28.0	112	62 - 127	
4-Methyl-2-pentanone (MIBK)	25.0	28.3	113	58 - 134	
m&p-Xylene	50.0	49.7	99	79 - 120	
Naphthalene	25.0	25.5	102	57 - 130	
n-Butylbenzene	25.0	25.4	102	75 - 129	
N-Propylbenzene	25.0	25.6	102	74 - 124	

Client: Whittier Filtration

Job Number: 500-25495-1

Lab Control Sample - Batch: 500-86323

Method: 8260B
Preparation: 5030B

Lab Sample ID: LCS 500-86323/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 05/22/2010 1943
Date Prepared: 05/22/2010 1943

Analysis Batch: 500-86323
Prep Batch: N/A
Units: ug/L

Instrument ID: MS18
Lab File ID: 18s0521b.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
o-Xylene	25.0	23.9	96	80 - 117	
p-Isopropyltoluene	25.0	24.7	99	77 - 118	
sec-Butylbenzene	25.0	26.3	105	80 - 123	
Styrene	25.0	26.0	104	80 - 120	
tert-Butylbenzene	25.0	24.9	100	78 - 121	
1,1,1,2-Tetrachloroethane	25.0	23.6	95	80 - 126	
1,1,2,2-Tetrachloroethane	25.0	29.7	119	70 - 123	
Tetrachloroethene	25.0	24.7	99	76 - 116	
Toluene	25.0	29.1	116	76 - 119	
trans-1,2-Dichloroethene	25.0	28.6	114	67 - 125	
trans-1,3-Dichloropropene	24.3	24.7	102	66 - 110	
1,2,3-Trichlorobenzene	25.0	25.5	102	69 - 123	
1,2,4-Trichlorobenzene	25.0	23.7	95	68 - 119	
1,1,1-Trichloroethane	25.0	25.0	100	76 - 127	
1,1,2-Trichloroethane	25.0	29.3	117	70 - 127	
Trichloroethene	25.0	25.9	104	77 - 118	
Trichlorofluoromethane	25.0	23.8	95	69 - 142	
1,2,3-Trichloropropane	25.0	23.6	95	76 - 121	
1,2,4-Trimethylbenzene	25.0	25.3	101	78 - 122	
1,3,5-Trimethylbenzene	25.0	25.3	101	77 - 123	
Vinyl acetate	25.0	35.7	143	37 - 159	
Vinyl chloride	25.0	29.2	117	56 - 128	
Xylenes, Total	75.0	73.6	98	79 - 120	

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	94	80 - 115
Dibromofluoromethane	99	80 - 124
1,2-Dichloroethane-d4 (Surr)	87	80 - 129
Toluene-d8 (Surr)	106	80 - 115

Client: Whittier Filtration

Job Number: 500-25495-1

Method Blank - Batch: 500-86345

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 500-86345/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 05/23/2010 1557
Date Prepared: 05/23/2010 1557

Analysis Batch: 500-86345
Prep Batch: N/A
Units: ug/L

Instrument ID: MS18
Lab File ID: 18M0523.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result	Qual	MDL	RL
Acetone	<5.0		1.6	5.0
Benzene	<1.0		0.17	1.0
Bromobenzene	<1.0		0.21	1.0
Bromochloromethane	<1.0		0.35	1.0
Bromodichloromethane	<1.0		0.19	1.0
Bromoform	<1.0		0.42	1.0
Bromomethane	<1.0		0.38	1.0
2-Butanone (MEK)	<5.0		2.3	5.0
Carbon disulfide	<5.0		0.55	5.0
Carbon tetrachloride	<1.0		0.25	1.0
Chlorobenzene	<1.0		0.17	1.0
Chloroethane	<1.0		0.36	1.0
Chloroform	<1.0		0.15	1.0
Chloromethane	<1.0		0.24	1.0
2-Chlorotoluene	<1.0		0.18	1.0
4-Chlorotoluene	<1.0		0.21	1.0
cis-1,2-Dichloroethene	<1.0		0.27	1.0
cis-1,3-Dichloropropene	<1.0		0.17	1.0
Cyclohexane	<1.0		0.19	1.0
Dibromochloromethane	<1.0		0.25	1.0
1,2-Dibromo-3-Chloropropane	<2.0		0.96	2.0
1,2-Dibromoethane	<1.0		0.37	1.0
Dibromomethane	<1.0		0.30	1.0
1,2-Dichlorobenzene	<1.0		0.17	1.0
1,3-Dichlorobenzene	<1.0		0.24	1.0
1,4-Dichlorobenzene	<1.0		0.21	1.0
Dichlorodifluoromethane	<1.0		0.31	1.0
1,1-Dichloroethane	<1.0		0.25	1.0
1,2-Dichloroethane	<1.0		0.24	1.0
1,1-Dichloroethene	<1.0		0.19	1.0
1,2-Dichloropropane	<1.0		0.21	1.0
1,3-Dichloropropane	<1.0		0.17	1.0
2,2-Dichloropropane	<1.0		0.24	1.0
1,1-Dichloropropene	<1.0		0.16	1.0
Ethylbenzene	<1.0		0.18	1.0
Hexachlorobutadiene	<1.0		0.26	1.0
2-Hexanone	<5.0		0.80	5.0
Isopropylbenzene	<1.0		0.20	1.0
Methylene Chloride	<2.0		0.67	2.0
4-Methyl-2-pentanone (MIBK)	<5.0		0.84	5.0
m&p-Xylene	<2.0		0.32	2.0
Naphthalene	<1.0		0.44	1.0
n-Butylbenzene	<1.0		0.18	1.0

Client: Whittier Filtration

Job Number: 500-25495-1

Method Blank - Batch: 500-86345

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 500-86345/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 05/23/2010 1557
Date Prepared: 05/23/2010 1557

Analysis Batch: 500-86345
Prep Batch: N/A
Units: ug/L

Instrument ID: MS18
Lab File ID: 18M0523.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result	Qual	MDL	RL
N-Propylbenzene	<1.0		0.19	1.0
o-Xylene	<1.0		0.38	1.0
p-Isopropyltoluene	<1.0		0.16	1.0
sec-Butylbenzene	<1.0		0.16	1.0
Styrene	<1.0		0.15	1.0
tert-Butylbenzene	<1.0		0.16	1.0
1,1,1,2-Tetrachloroethane	<1.0		0.19	1.0
1,1,2,2-Tetrachloroethane	<1.0		0.29	1.0
Tetrachloroethene	<1.0		0.22	1.0
Toluene	<1.0		0.19	1.0
trans-1,2-Dichloroethene	<1.0		0.32	1.0
trans-1,3-Dichloropropene	<1.0		0.24	1.0
1,2,3-Trichlorobenzene	<1.0		0.24	1.0
1,2,4-Trichlorobenzene	<1.0		0.24	1.0
1,1,1-Trichloroethane	<1.0		0.18	1.0
1,1,2-Trichloroethane	<1.0		0.26	1.0
Trichloroethene	<1.0		0.24	1.0
Trichlorofluoromethane	<1.0		0.20	1.0
1,2,3-Trichloropropane	<1.0		0.48	1.0
Trihalomethanes, Total	<1.0		0.15	1.0
1,2,4-Trimethylbenzene	<1.0		0.14	1.0
1,3,5-Trimethylbenzene	<1.0		0.18	1.0
Vinyl acetate	<5.0		0.80	5.0
Vinyl chloride	<1.0		0.20	1.0
Xylenes, Total	<2.0		0.32	2.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	86	80 - 115
Dibromofluoromethane	96	80 - 124
1,2-Dichloroethane-d4 (Surr)	93	80 - 129
Toluene-d8 (Surr)	109	80 - 115

Client: Whittier Filtration

Job Number: 500-25495-1

Lab Control Sample - Batch: 500-86345

Method: 8260B
Preparation: 5030B

Lab Sample ID: LCS 500-86345/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 05/23/2010 1534
Date Prepared: 05/23/2010 1534

Analysis Batch: 500-86345
Prep Batch: N/A
Units: ug/L

Instrument ID: MS18
Lab File ID: 18S0523.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acetone	25.0	29.6	118	42 - 149	
Benzene	25.0	24.8	99	73 - 117	
Bromobenzene	25.0	24.3	97	78 - 119	
Bromochloromethane	25.0	24.6	98	70 - 122	
Bromodichloromethane	25.0	21.6	86	79 - 124	
Bromoform	25.0	22.3	89	59 - 122	
Bromomethane	25.0	27.7	111	35 - 181	
2-Butanone (MEK)	25.0	29.6	118	52 - 148	
Carbon disulfide	25.0	20.2	81	38 - 123	
Carbon tetrachloride	25.0	21.0	84	66 - 138	
Chlorobenzene	25.0	24.0	96	78 - 113	
Chloroethane	25.0	28.9	116	52 - 150	
Chloroform	25.0	23.4	94	74 - 121	
Chloromethane	25.0	28.1	112	51 - 151	
2-Chlorotoluene	25.0	23.2	93	75 - 121	
4-Chlorotoluene	25.0	23.4	94	74 - 119	
cis-1,2-Dichloroethene	25.0	23.6	94	65 - 115	
cis-1,3-Dichloropropene	26.9	26.2	97	66 - 122	
Dibromochloromethane	25.0	21.3	85	68 - 122	
1,2-Dibromo-3-Chloropropane	25.0	21.4	86	55 - 126	
1,2-Dibromoethane	25.0	26.4	105	77 - 123	
Dibromomethane	25.0	23.5	94	76 - 121	
1,2-Dichlorobenzene	25.0	24.9	99	80 - 116	
1,3-Dichlorobenzene	25.0	24.2	97	80 - 114	
1,4-Dichlorobenzene	25.0	24.2	97	79 - 113	
Dichlorodifluoromethane	25.0	29.6	119	46 - 182	
1,1-Dichloroethane	25.0	24.8	99	67 - 122	
1,2-Dichloroethane	25.0	21.9	88	71 - 124	
1,1-Dichloroethene	25.0	23.6	94	55 - 127	
1,2-Dichloropropane	25.0	24.5	98	75 - 120	
1,3-Dichloropropane	25.0	24.3	97	74 - 119	
2,2-Dichloropropane	25.0	23.5	94	62 - 135	
1,1-Dichloropropene	25.0	23.4	94	69 - 122	
Ethylbenzene	25.0	24.0	96	80 - 116	
Hexachlorobutadiene	25.0	20.8	83	69 - 125	
2-Hexanone	25.0	25.0	100	54 - 140	
Isopropylbenzene	25.0	20.5	82	66 - 107	
Methylene Chloride	25.0	24.7	99	62 - 127	
4-Methyl-2-pentanone (MIBK)	25.0	25.8	103	58 - 134	
m&p-Xylene	50.0	46.5	93	79 - 120	
Naphthalene	25.0	24.8	99	57 - 130	
n-Butylbenzene	25.0	24.7	99	75 - 129	
N-Propylbenzene	25.0	24.3	97	74 - 124	

Client: Whittier Filtration

Job Number: 500-25495-1

Lab Control Sample - Batch: 500-86345

Method: 8260B
Preparation: 5030B

Lab Sample ID: LCS 500-86345/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 05/23/2010 1534
Date Prepared: 05/23/2010 1534

Analysis Batch: 500-86345
Prep Batch: N/A
Units: ug/L

Instrument ID: MS18
Lab File ID: 18S0523.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
o-Xylene	25.0	22.8	91	80 - 117	
p-Isopropyltoluene	25.0	23.0	92	77 - 118	
sec-Butylbenzene	25.0	24.9	100	80 - 123	
Styrene	25.0	24.6	98	80 - 120	
tert-Butylbenzene	25.0	23.3	93	78 - 121	
1,1,1,2-Tetrachloroethane	25.0	22.6	91	80 - 126	
1,1,2,2-Tetrachloroethane	25.0	26.6	106	70 - 123	
Tetrachloroethene	25.0	23.4	94	76 - 116	
Toluene	25.0	26.1	104	76 - 119	
trans-1,2-Dichloroethene	25.0	24.8	99	67 - 125	
trans-1,3-Dichloropropene	24.3	21.9	90	66 - 110	
1,2,3-Trichlorobenzene	25.0	24.2	97	69 - 123	
1,2,4-Trichlorobenzene	25.0	22.4	90	68 - 119	
1,1,1-Trichloroethane	25.0	22.5	90	76 - 127	
1,1,2-Trichloroethane	25.0	27.8	111	70 - 127	
Trichloroethene	25.0	23.0	92	77 - 118	
Trichlorofluoromethane	25.0	21.8	87	69 - 142	
1,2,3-Trichloropropane	25.0	21.9	88	76 - 121	
1,2,4-Trimethylbenzene	25.0	23.9	96	78 - 122	
1,3,5-Trimethylbenzene	25.0	23.8	95	77 - 123	
Vinyl acetate	25.0	31.6	126	37 - 159	
Vinyl chloride	25.0	26.1	104	56 - 128	
Xylenes, Total	75.0	69.4	92	79 - 120	

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	96	80 - 115
Dibromofluoromethane	103	80 - 124
1,2-Dichloroethane-d4 (Surr)	91	80 - 129
Toluene-d8 (Surr)	111	80 - 115

Client: Whittier Filtration

Job Number: 500-25495-1

Method Blank - Batch: 500-85962

Method: 8270C
Preparation: 3510C

Lab Sample ID: MB 500-85962/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 05/19/2010 1637
Date Prepared: 05/18/2010 2128

Analysis Batch: 500-86138
Prep Batch: 500-85962
Units: ug/L

Instrument ID: MS12
Lab File ID: 85962M.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL

Analyte	Result	Qual	MDL	RL
Acenaphthene	<1.0		0.091	1.0
N-Nitrosodimethylamine	<10		1.4	10
Acenaphthylene	<1.0		0.10	1.0
Aniline	<20		4.2	20
Anthracene	<1.0		0.12	1.0
Benzidine	<40		4.1	40
Benzo[a]anthracene	<0.20		0.054	0.20
Benzo[a]pyrene	<0.20		0.045	0.20
Benzo[b]fluoranthene	<0.20		0.069	0.20
Benzo[g,h,i]perylene	<1.0		0.11	1.0
Benzoic acid	<20		4.7	20
Benzo[k]fluoranthene	<0.20		0.093	0.20
Benzyl alcohol	<20		4.9	20
Bis(2-chloroethoxy)methane	<2.0		0.26	2.0
Bis(2-chloroethyl)ether	<2.0		0.45	2.0
bis (2-chloroisopropyl) ether	<2.0		0.26	2.0
Bis(2-ethylhexyl) phthalate	<10		1.2	10
4-Bromophenyl phenyl ether	<5.0		1.4	5.0
Butyl benzyl phthalate	<2.0		0.30	2.0
4-Chloroaniline	<10		1.3	10
4-Chloro-3-methylphenol	<10		1.4	10
2-Chloronaphthalene	<2.0		0.22	2.0
2-Chlorophenol	<5.0		1.1	5.0
4-Chlorophenyl phenyl ether	<5.0		1.3	5.0
Chrysene	<0.50		0.11	0.50
Dibenz(a,h)anthracene	<0.30		0.12	0.30
Dibenzofuran	<2.0		0.28	2.0
1,2-Dichlorobenzene	<2.0		0.25	2.0
1,3-Dichlorobenzene	<2.0		0.21	2.0
1,4-Dichlorobenzene	<2.0		0.24	2.0
3,3'-Dichlorobenzidine	<5.0		1.3	5.0
2,4-Dichlorophenol	<10		1.0	10
Diethyl phthalate	<2.0		0.31	2.0
2,4-Dimethylphenol	<10		1.6	10
Dimethyl phthalate	<2.0		0.74	2.0
Di-n-butyl phthalate	<5.0		1.2	5.0
4,6-Dinitro-2-methylphenol	<20		5.0	20
2,4-Dinitrophenol	<20		7.8	20
2,4-Dinitrotoluene	<1.0		0.28	1.0
2,6-Dinitrotoluene	<0.50		0.13	0.50
Di-n-octyl phthalate	<10		1.6	10
1,2-Diphenylhydrazine	<5.0		1.4	5.0
Fluoranthene	<1.0		0.10	1.0

Client: Whittier Filtration

Job Number: 500-25495-1

Method Blank - Batch: 500-85962

Method: 8270C
Preparation: 3510C

Lab Sample ID: MB 500-85962/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 05/19/2010 1637
Date Prepared: 05/18/2010 2128

Analysis Batch: 500-86138
Prep Batch: 500-85962
Units: ug/L

Instrument ID: MS12
Lab File ID: 85962M.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL

Analyte	Result	Qual	MDL	RL
Fluorene	<1.0		0.12	1.0
Hexachlorobenzene	<0.50		0.094	0.50
Hexachlorobutadiene	<5.0		1.5	5.0
Hexachlorocyclopentadiene	<20		5.5	20
Hexachloroethane	<5.0		1.2	5.0
Indeno[1,2,3-cd]pyrene	<0.20		0.066	0.20
Isophorone	<2.0		0.26	2.0
2-Methylnaphthalene	<0.50		0.15	0.50
2-Methylphenol	<2.0		0.25	2.0
3 & 4 Methylphenol	<2.0		0.25	2.0
Naphthalene	<1.0		0.14	1.0
2-Nitroaniline	<5.0		1.4	5.0
3-Nitroaniline	<10		1.9	10
4-Nitroaniline	<10		2.0	10
Nitrobenzene	<1.0		0.37	1.0
2-Nitrophenol	<10		1.4	10
4-Nitrophenol	<20		3.7	20
N-Nitrosodi-n-propylamine	<0.50		0.15	0.50
N-Nitrosodiphenylamine	<1.0		0.25	1.0
Pentachlorophenol	<20		3.2	20
Phenanthrene	<1.0		0.078	1.0
Phenol	<5.0		0.77	5.0
Pyrene	<1.0		0.095	1.0
1,2,4-Trichlorobenzene	<2.0		0.26	2.0
2,4,5-Trichlorophenol	<10		1.8	10
2,4,6-Trichlorophenol	<5.0		1.1	5.0

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl	73	37 - 102
2-Fluorophenol	41	20 - 100
Nitrobenzene-d5	69	38 - 109
Phenol-d5	27	20 - 100
Terphenyl-d14	110	47 - 120
2,4,6-Tribromophenol	74	41 - 134

Client: Whittier Filtration

Job Number: 500-25495-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 500-85962

Method: 8270C
Preparation: 3510C

LCS Lab Sample ID: LCS 500-85962/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 05/19/2010 1701
Date Prepared: 05/18/2010 2128

Analysis Batch: 500-86138
Prep Batch: 500-85962
Units: ug/L

Instrument ID: MS12
Lab File ID: 85962BS.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL

LCSD Lab Sample ID: LCSD 500-85962/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 05/19/2010 1726
Date Prepared: 05/18/2010 2128

Analysis Batch: 500-86138
Prep Batch: 500-85962
Units: ug/L

Instrument ID: MS12
Lab File ID: 85962BD.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acenaphthene	86	97	48 - 100	12	20		
N-Nitrosodimethylamine	56	66	13 - 100	15	20		
Acenaphthylene	81	89	48 - 100	10	20		
Aniline	55	63	32 - 100	13	20		
Anthracene	87	95	50 - 111	9	20		
Benzidine	6	15	10 - 100	90	20	*	J *
Benzo[a]anthracene	89	99	66 - 121	11	20		
Benzo[a]pyrene	86	98	61 - 137	12	20		
Benzo[b]fluoranthene	87	95	60 - 143	9	20		
Benzo[g,h,i]perylene	90	105	57 - 152	15	20		
Benzoic acid	20	23	10 - 100	16	20	J	J
Benzo[k]fluoranthene	82	98	50 - 145	18	20		
Benzyl alcohol	67	80	47 - 100	17	20		
Bis(2-chloroethoxy)methane	83	95	61 - 100	14	20		
Bis(2-chloroethyl)ether	75	82	43 - 106	8	20		
bis (2-chloroisopropyl) ether	78	87	44 - 100	11	20		
Bis(2-ethylhexyl) phthalate	95	106	71 - 125	11	20		
4-Bromophenyl phenyl ether	91	104	51 - 112	14	20		
Butyl benzyl phthalate	101	112	72 - 129	10	20		
4-Chloroaniline	83	87	54 - 100	4	20		
4-Chloro-3-methylphenol	83	97	58 - 106	16	20		
2-Chloronaphthalene	81	88	48 - 100	9	20		
2-Chlorophenol	69	80	58 - 100	15	20		
4-Chlorophenyl phenyl ether	90	101	51 - 102	12	20		
Chrysene	90	101	61 - 127	11	20		
Dibenz(a,h)anthracene	94	109	60 - 146	14	20		
Dibenzofuran	84	94	53 - 100	11	20		
1,2-Dichlorobenzene	65	71	35 - 100	8	20		
1,3-Dichlorobenzene	61	67	33 - 100	9	20		
1,4-Dichlorobenzene	63	68	33 - 100	8	20		
3,3'-Dichlorobenzidine	91	107	60 - 127	17	20		
2,4-Dichlorophenol	79	92	57 - 102	16	20		
Diethyl phthalate	96	108	59 - 110	12	20		

Client: Whittier Filtration

Job Number: 500-25495-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 500-85962

Method: 8270C
Preparation: 3510C

LCS Lab Sample ID: LCS 500-85962/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 05/19/2010 1701
Date Prepared: 05/18/2010 2128

Analysis Batch: 500-86138
Prep Batch: 500-85962
Units: ug/L

Instrument ID: MS12
Lab File ID: 85962BS.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL

LCSD Lab Sample ID: LCSD 500-85962/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 05/19/2010 1726
Date Prepared: 05/18/2010 2128

Analysis Batch: 500-86138
Prep Batch: 500-85962
Units: ug/L

Instrument ID: MS12
Lab File ID: 85962BD.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
2,4-Dimethylphenol	80	85	44 - 103	6	20		
Dimethyl phthalate	90	103	57 - 108	13	20		
Di-n-butyl phthalate	96	101	57 - 118	6	20		
4,6-Dinitro-2-methylphenol	89	108	58 - 116	19	20		
2,4-Dinitrophenol	76	111	40 - 124	37	20		*
2,4-Dinitrotoluene	112	127	56 - 119	12	20		*
2,6-Dinitrotoluene	90	105	60 - 111	16	20		
Di-n-octyl phthalate	82	92	56 - 146	12	20		
1,2-Diphenylhydrazine	95	108	53 - 110	12	20		
Fluoranthene	95	101	54 - 120	6	20		
Fluorene	90	102	53 - 103	12	20		
Hexachlorobenzene	94	107	52 - 115	13	20		
Hexachlorobutadiene	67	72	30 - 100	6	20		
Hexachlorocyclopentadiene	68	72	18 - 100	7	20		
Hexachloroethane	61	67	31 - 100	8	20		
Indeno[1,2,3-cd]pyrene	96	112	60 - 151	15	20		
Isophorone	80	92	60 - 100	14	20		
2-Methylnaphthalene	73	79	44 - 100	7	20		
2-Methylphenol	66	77	49 - 100	16	20		
3 & 4 Methylphenol	66	75	47 - 100	13	20		
Naphthalene	69	78	43 - 100	12	20		
2-Nitroaniline	117	136	71 - 113	15	20	*	*
3-Nitroaniline	98	116	49 - 116	17	20		
4-Nitroaniline	108	128	48 - 122	17	20		*
Nitrobenzene	80	92	56 - 100	14	20		
2-Nitrophenol	83	97	53 - 103	15	20		
4-Nitrophenol	41	50	22 - 100	20	20		
N-Nitrosodi-n-propylamine	87	100	53 - 110	14	20		
N-Nitrosodiphenylamine	94	105	46 - 118	11	20		
Pentachlorophenol	87	107	48 - 121	21	20		*
Phenanthrene	92	100	52 - 112	9	20		
Phenol	30	36	21 - 100	19	20		
Pyrene	87	96	61 - 130	10	20		

Client: Whittier Filtration

Job Number: 500-25495-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 500-85962

Method: 8270C
Preparation: 3510C

LCS Lab Sample ID: LCS 500-85962/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 05/19/2010 1701
Date Prepared: 05/18/2010 2128

Analysis Batch: 500-86138
Prep Batch: 500-85962
Units: ug/L

Instrument ID: MS12
Lab File ID: 85962BS.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL

LCSD Lab Sample ID: LCSD 500-85962/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 05/19/2010 1726
Date Prepared: 05/18/2010 2128

Analysis Batch: 500-86138
Prep Batch: 500-85962
Units: ug/L

Instrument ID: MS12
Lab File ID: 85962BD.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,2,4-Trichlorobenzene	68	73	51 - 100	7	20		
2,4,5-Trichlorophenol	86	103	54 - 110	18	20		
2,4,6-Trichlorophenol	83	98	54 - 103	16	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
2-Fluorobiphenyl	76	86	37 - 102
2-Fluorophenol	40	45	20 - 100
Nitrobenzene-d5	84	97	38 - 109
Phenol-d5	27	32	20 - 100
Terphenyl-d14	94	106	47 - 120
2,4,6-Tribromophenol	95	111	41 - 134

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

LABORATORY REPORT

Prepared For: TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Attention: Cindy Pritchard

Project: Whittier Filitration
Whittier Filtration

Sampled: 05/12/10
Received: 05/14/10
Issued: 05/24/10 15:01

NELAP #01108CA California ELAP#2706 CSDLAC #10256 AZ #AZ0671 NV #CA01531

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.
This entire report was reviewed and approved for release.

CASE NARRATIVE

SAMPLE RECEIPT: Samples were received intact, at 2°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

LABORATORY ID	CLIENT ID	MATRIX
ITE1495-01	1822901	Water
ITE1495-02	1822902	Water
ITE1495-03	1822903	Water
ITE1495-04	1822904	Water

Reviewed By:

Theresa Tyrrell

TestAmerica Irvine

Theresa Tyrrell
PM

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Attention: Cindy Pritchard

Project ID: Whittier Filitration
Whittier Filtration
Report Number: ITE1495

Sampled: 05/12/10
Received: 05/14/10

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITE1495-01 (1822901 - Water)								
Reporting Units: ug/l								
4-Chlorobenzenesulfonic acid	EPA 314.0 MOD.	10E2584	10000	**120000**	1000	5/20/2010	5/20/2010	
Sample ID: ITE1495-02 (1822902 - Water)								
Reporting Units: ug/l								
4-Chlorobenzenesulfonic acid	EPA 314.0 MOD.	10E2584	10000	**130000**	1000	5/20/2010	5/20/2010	
Sample ID: ITE1495-03 (1822903 - Water)								
Reporting Units: ug/l								
4-Chlorobenzenesulfonic acid	EPA 314.0 MOD.	10E2584	10000	**120000**	1000	5/20/2010	5/20/2010	
Sample ID: ITE1495-04 (1822904 - Water)								
Reporting Units: ug/l								
4-Chlorobenzenesulfonic acid	EPA 314.0 MOD.	10E2584	10000	**120000**	1000	5/20/2010	5/20/2010	

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17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

TestAmerica Chicago 2417 Bond Street University Park, IL 60484 Attention: Cindy Pritchard	Project ID:	Whittier Filitration Whittier Filtration	Sampled: 05/12/10 Received: 05/14/10
	Report Number:	ITE1495	

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10E2584 Extracted: 05/20/10										
Blank Analyzed: 05/20/2010 (10E2584-BLK1)										
4-Chlorobenzenesulfonic acid	ND	10	ug/l							
LCS Analyzed: 05/20/2010 (10E2584-BS1)										
4-Chlorobenzenesulfonic acid	102	10	ug/l	100		102	85-115			
Matrix Spike Analyzed: 05/20/2010 (10E2584-MS1)					**Source: ITE0898-13**					
4-Chlorobenzenesulfonic acid	85.1	10	ug/l	100	ND	85	80-120			
Matrix Spike Dup Analyzed: 05/20/2010 (10E2584-MSD1)					**Source: ITE0898-13**					
4-Chlorobenzenesulfonic acid	87.0	10	ug/l	100	ND	87	80-120	2	20	

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TestAmerica Chicago	Project ID:	Whittier Filitration	
2417 Bond Street		Whittier Filtration	Sampled: 05/12/10
University Park, IL 60484	Report Number:	ITE1495	Received: 05/14/10
Attention: Cindy Pritchard			

DATA QUALIFIERS AND DEFINITIONS

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.

RPD Relative Percent Difference

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17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

TestAmerica Chicago 2417 Bond Street University Park, IL 60484 Attention: Cindy Pritchard	Project ID: Report Number:	Whittier Filitration Whittier Filtration ITE1495	Sampled: 05/12/10 Received: 05/14/10

Certification Summary

TestAmerica Irvine

Method	Matrix	Nelac	California
EPA 314.0 MOD.	Water		

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica Irvine

Theresa Tyrrell
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ITE1495

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Chain of Custody Record

Lab Job #: 500-25495

Chain of Custody Number:

Page ___ of ___

Temperature °C of Cooler: >7.2

(optional)

Report To
Contact: Mike Monacell
Company: Whittier Filtration
Address:
Address:
Phone: 714-986-5326
Fax:
E-Mail:

(optional)

Bill To
Contact:
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Client: Whittier Filtration
Client Project #:
Project Name:
Project Location/State:
Lab Project #:
Sampler:
Lab PM:

Preservative:
Parameter: VOC, SVOC, pCBSA

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	VOC	SVOC	pCBSA	Comments
1		1822901	5-12		7	water	✓	✓	✓	
2		1822902	5-12		7	water	✓	✓	✓	
3		1822903	5-12		7	water	✓	✓	✓	
4		1822904	5-12		7	water	✓	✓	✓	

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days ___ Other
Requested Due Date ___

Sample Disposal
[ ] Return to Client [X] Disposal by Lab [ ] Archive for ___ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Kevin Spagnola	HPD	5-12-10		[signature]	TA	5/13/10	1030

Lab Courier:
Shipped: FX
Hand Delivered:

Matrix Key
WW - Wastewater
W - Water
S - Soil
SL - Sludge
MS - Miscellaneous
OL - Oil
A - Air
SE - Sediment
SO - Soil
L - Leachate
Wi - Wipe
DW - Drinking Water
O - Other

Client Comments

Lab Comments:

TAL 4124 500 (1209)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Chain of Custody Record

Lab Job #: 500-25495

Chain of Custody Number:

Page ___ of ___

Temperature °C of Cooler: >7.2

(optional)

Report To
Contact: Mike Monacell
Company: Whittier Filtration
Address:
Address:
Phone: 714-986-53216
Fax:
E-Mail:

(optional)

Bill To
Contact:
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Client: Whittier Filtration
Client Project #:
Project Name:
Project Location/State:
Lab Project #:
Sampler:
Lab PM:

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	Parameter: VOC	Parameter: SVOC	Parameter: pCBSA						Comments
1		1822901	5-12		7	water		✓	✓	✓						
2		1822902	5-12		7	water		✓	✓	✓						
3		1822903	5-12		7	water		✓	✓	✓						
4		1822904	5-12		7	water		✓	✓	✓						

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days ___ Other
Requested Due Date ___

Sample Disposal
[ ] Return to Client [X] Disposal by Lab [ ] Archive for ___ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Kevin Spagnola	HPD	5-12-10		[signature]	TA	5/13/10	1030

Lab Courier:
Shipped: FX
Hand Delivered:

Matrix Key
WW - Wastewater
W - Water
S - Soil
SL - Sludge
MS - Miscellaneous
OL - Oil
A - Air
SE - Sediment
SO - Soil
L - Leachate
WI - Wipe
DW - Drinking Water
O - Other

Client Comments

Lab Comments:

TAL 4124 500 (1209)

Login Sample Receipt Check List

Client: Whittier Filtration

Job Number: 500-25495-1

Login Number: 25495
Creator: Lunt, Jeff T
List Number: 1

List Source: TestAmerica Chicago

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	17.2
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	False	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified	True	

ANALYTICAL REPORT

Job Number: 500-25495-2

Job Description: Geosyntec-Montrose

For:
Whittier Filtration
315 N. Puente Street
Unit A
Brea, CA 92821

Attention: Michael Monacell

Approved for release.
Bonnie M Stadelmann
Project Manager II
6/11/2010 1:51 PM

Bonnie M Stadelmann
Project Manager II
bonnie.stadelmann@testamericainc.com
06/11/2010

These test results meet all the requirements of NELAC for accredited parameters.

The Lab Certification ID# is 100201.

All questions regarding this test report should be directed to the TestAmerica Project Manager whose signature appears on this report. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

Job Narrative
500-25495-2

Comments
No additional comments.

Receipt
The samples were received at 17.2 degrees.

Method(s) 8081A: The following sample(s) was analyzed outside the method defined holding time because the request for the test was made after the holding time for the sample expired: 1822901, 1822902, 1822903 and 1822904.

All other samples were received in good condition within temperature requirements.

GC Semi VOA
Method(s) 8081A: Surrogate (DCB) recovery for the following sample was slighlty outside control limits: 1822904 (500-25495-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8081A: The grand mean exception, as outlined in EPA Method 8000B, was applied to continuing calibration verification (CCV) standards. This rule states that when one or more compounds in the CCV fail to meet acceptance criteria, the data may be reported if the average %D (the grand mean) of all the compounds in the CCV is less than or equal to 15 %D1822901 (500-25495-1), 1822902 (500-25495-2), 1822903 (500-25495-3), 1822904 (500-25495-4).

Method(s) 8081A: The following samples were diluted due to the abundance of non-target analytes: 1822902 (500-25495-2), 1822903 (500-25495-3), 1822904 (500-25495-4). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: Whittier Filtration

Job Number: 500-25495-2

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method

No Detections

METHOD SUMMARY

Client: Whittier Filtration

Job Number: 500-25495-2

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Organochlorine Pesticides (GC)	TAL CHI	SW846 8081A	
Liquid-Liquid Extraction (Separatory Funnel)	TAL CHI		SW846 3510C

Lab References:

TAL CHI = TestAmerica Chicago

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Whittier Filtration

Job Number: 500-25495-2

Method	Analyst	Analyst ID
SW846 8081A	Mroz, Krzysztof A	KAM

SAMPLE SUMMARY

Client: Whittier Filtration

Job Number: 500-25495-2

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
500-25495-1	1822901	Water	05/12/2010 1200	05/13/2010 1030
500-25495-2	1822902	Water	05/12/2010 1200	05/13/2010 1030
500-25495-3	1822903	Water	05/12/2010 1200	05/13/2010 1030
500-25495-4	1822904	Water	05/12/2010 1200	05/13/2010 1030

SAMPLE RESULTS

Michael Monacell
Whittier Filtration
315 N. Puente Street
Unit A
Brea, CA 92821

Job Number: 500-25495-2

Client Sample ID: 1822901
Lab Sample ID: 500-25495-1

Date Sampled: 05/12/2010 1200
Date Received: 05/13/2010 1030
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: 8081A			Date Analyzed:	06/04/2010 2327		
Prep Method: 3510C			Date Prepared:	06/02/2010 0844		
4,4'-DDD	<0.047	H	ug/L	0.013	0.047	1.0
4,4'-DDE	<0.047	H	ug/L	0.0080	0.047	1.0
4,4'-DDT	<0.047	H	ug/L	0.0079	0.047	1.0
Aldrin	<0.047	H	ug/L	0.011	0.047	1.0
alpha-BHC	<0.047	H	ug/L	0.015	0.047	1.0
beta-BHC	<0.047	H	ug/L	0.019	0.047	1.0
Chlordane (technical)	<0.093	H	ug/L	0.025	0.093	1.0
delta-BHC	<0.047	H	ug/L	0.014	0.047	1.0
Dieldrin	<0.047	H	ug/L	0.010	0.047	1.0
Endosulfan I	<0.047	H	ug/L	0.0063	0.047	1.0
Endosulfan II	<0.047	H	ug/L	0.0077	0.047	1.0
Endosulfan sulfate	<0.047	H	ug/L	0.010	0.047	1.0
Endrin	<0.047	H	ug/L	0.013	0.047	1.0
Endrin aldehyde	<0.047	H	ug/L	0.020	0.047	1.0
Endrin ketone	<0.047	H	ug/L	0.014	0.047	1.0
gamma-BHC (Lindane)	<0.047	H	ug/L	0.012	0.047	1.0
Heptachlor	<0.047	H	ug/L	0.019	0.047	1.0
Heptachlor epoxide	<0.047	H	ug/L	0.013	0.047	1.0
Methoxychlor	<0.093	H	ug/L	0.013	0.093	1.0
Toxaphene	<0.47	H	ug/L	0.21	0.47	1.0

Surrogate			Acceptance Limits
DCB Decachlorobiphenyl	86	%	34 - 114
Tetrachloro-m-xylene	67	%	41 - 125

Michael Monacell
Whittier Filtration
315 N. Puente Street
Unit A
Brea, CA 92821

Job Number: 500-25495-2

Client Sample ID: 1822902
Lab Sample ID: 500-25495-2

Date Sampled: 05/12/2010 1200
Date Received: 05/13/2010 1030
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: 8081A			Date Analyzed:	06/08/2010 1504		
Prep Method: 3510C			Date Prepared:	06/02/2010 0844		
4,4'-DDD	<0.23	H	ug/L	0.064	0.23	5.0
4,4'-DDE	<0.23	H	ug/L	0.040	0.23	5.0
4,4'-DDT	<0.23	H	ug/L	0.039	0.23	5.0
Aldrin	<0.23	H	ug/L	0.055	0.23	5.0
alpha-BHC	<0.23	H	ug/L	0.075	0.23	5.0
beta-BHC	<0.23	H	ug/L	0.097	0.23	5.0
Chlordane (technical)	<0.47	H	ug/L	0.13	0.47	5.0
delta-BHC	<0.23	H	ug/L	0.069	0.23	5.0
Dieldrin	<0.23	H	ug/L	0.052	0.23	5.0
Endosulfan I	<0.23	H	ug/L	0.031	0.23	5.0
Endosulfan II	<0.23	H	ug/L	0.038	0.23	5.0
Endosulfan sulfate	<0.23	H	ug/L	0.051	0.23	5.0
Endrin	<0.23	H	ug/L	0.066	0.23	5.0
Endrin aldehyde	<0.23	H	ug/L	0.10	0.23	5.0
Endrin ketone	<0.23	H	ug/L	0.068	0.23	5.0
gamma-BHC (Lindane)	<0.23	H	ug/L	0.062	0.23	5.0
Heptachlor	<0.23	H	ug/L	0.095	0.23	5.0
Heptachlor epoxide	<0.23	H	ug/L	0.067	0.23	5.0
Methoxychlor	<0.47	H	ug/L	0.063	0.47	5.0
Toxaphene	<2.3	H	ug/L	1.0	2.3	5.0

Surrogate			Acceptance Limits
DCB Decachlorobiphenyl	62	%	34 - 114
Tetrachloro-m-xylene	58	%	41 - 125

Michael Monacell
Whittier Filtration
315 N. Puente Street
Unit A
Brea, CA 92821

Job Number: 500-25495-2

Client Sample ID: 1822903
Lab Sample ID: 500-25495-3

Date Sampled: 05/12/2010 1200
Date Received: 05/13/2010 1030
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: 8081A			Date Analyzed:	06/08/2010 1524		
Prep Method: 3510C			Date Prepared:	06/02/2010 0844		
4,4'-DDD	<0.23	H	ug/L	0.064	0.23	5.0
4,4'-DDE	<0.23	H	ug/L	0.040	0.23	5.0
4,4'-DDT	<0.23	H	ug/L	0.039	0.23	5.0
Aldrin	<0.23	H	ug/L	0.055	0.23	5.0
alpha-BHC	<0.23	H	ug/L	0.075	0.23	5.0
beta-BHC	<0.23	H	ug/L	0.097	0.23	5.0
Chlordane (technical)	<0.47	H	ug/L	0.13	0.47	5.0
delta-BHC	<0.23	H	ug/L	0.069	0.23	5.0
Dieldrin	<0.23	H	ug/L	0.052	0.23	5.0
Endosulfan I	<0.23	H	ug/L	0.031	0.23	5.0
Endosulfan II	<0.23	H	ug/L	0.038	0.23	5.0
Endosulfan sulfate	<0.23	H	ug/L	0.051	0.23	5.0
Endrin	<0.23	H	ug/L	0.066	0.23	5.0
Endrin aldehyde	<0.23	H	ug/L	0.10	0.23	5.0
Endrin ketone	<0.23	H	ug/L	0.068	0.23	5.0
gamma-BHC (Lindane)	<0.23	H	ug/L	0.062	0.23	5.0
Heptachlor	<0.23	H	ug/L	0.095	0.23	5.0
Heptachlor epoxide	<0.23	H	ug/L	0.067	0.23	5.0
Methoxychlor	<0.47	H	ug/L	0.063	0.47	5.0
Toxaphene	<2.3	H	ug/L	1.0	2.3	5.0

Surrogate			Acceptance Limits
DCB Decachlorobiphenyl	42	%	34 - 114
Tetrachloro-m-xylene	68	%	41 - 125

Michael Monacell
Whittier Filtration
315 N. Puente Street
Unit A
Brea, CA 92821

Job Number: 500-25495-2

Client Sample ID: 1822904
Lab Sample ID: 500-25495-4

Date Sampled: 05/12/2010 1200
Date Received: 05/13/2010 1030
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: 8081A			Date Analyzed:	06/08/2010 1543		
Prep Method: 3510C			Date Prepared:	06/02/2010 0844		
4,4'-DDD	<0.23	H	ug/L	0.064	0.23	5.0
4,4'-DDE	<0.23	H	ug/L	0.040	0.23	5.0
4,4'-DDT	<0.23	H	ug/L	0.039	0.23	5.0
Aldrin	<0.23	H	ug/L	0.055	0.23	5.0
alpha-BHC	<0.23	H	ug/L	0.075	0.23	5.0
beta-BHC	<0.23	H	ug/L	0.097	0.23	5.0
Chlordane (technical)	<0.47	H	ug/L	0.13	0.47	5.0
delta-BHC	<0.23	H	ug/L	0.069	0.23	5.0
Dieldrin	<0.23	H	ug/L	0.052	0.23	5.0
Endosulfan I	<0.23	H	ug/L	0.031	0.23	5.0
Endosulfan II	<0.23	H	ug/L	0.038	0.23	5.0
Endosulfan sulfate	<0.23	H	ug/L	0.051	0.23	5.0
Endrin	<0.23	H	ug/L	0.066	0.23	5.0
Endrin aldehyde	<0.23	H	ug/L	0.10	0.23	5.0
Endrin ketone	<0.23	H	ug/L	0.068	0.23	5.0
gamma-BHC (Lindane)	<0.23	H	ug/L	0.062	0.23	5.0
Heptachlor	<0.23	H	ug/L	0.095	0.23	5.0
Heptachlor epoxide	<0.23	H	ug/L	0.067	0.23	5.0
Methoxychlor	<0.47	H	ug/L	0.063	0.47	5.0
Toxaphene	<2.3	H	ug/L	1.0	2.3	5.0

Surrogate				Acceptance Limits
DCB Decachlorobiphenyl	31	X	%	34 - 114
Tetrachloro-m-xylene	63		%	41 - 125

DATA REPORTING QUALIFIERS

Client: Whittier Filtration

Job Number: 500-25495-2

Lab Section	Qualifier	Description
GC Semi VOA		
	H	Sample was prepped or analyzed beyond the specified holding time
	X	Surrogate is outside control limits

QUALITY CONTROL RESULTS

Client: Whittier Filtration

Job Number: 500-25495-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 500-86920					
LCS 500-86920/2-A	Lab Control Sample	T	Water	3510C	
LCSD 500-86920/3-A	Lab Control Sample Duplicate	T	Water	3510C	
MB 500-86920/1-A	Method Blank	T	Water	3510C	
500-25495-1	1822901	T	Water	3510C	
500-25495-2	1822902	T	Water	3510C	
500-25495-3	1822903	T	Water	3510C	
500-25495-4	1822904	T	Water	3510C	
Analysis Batch:500-87587					
LCS 500-86920/2-A	Lab Control Sample	T	Water	8081A	500-86920
LCSD 500-86920/3-A	Lab Control Sample Duplicate	T	Water	8081A	500-86920
MB 500-86920/1-A	Method Blank	T	Water	8081A	500-86920
500-25495-1	1822901	T	Water	8081A	500-86920
500-25495-2	1822902	T	Water	8081A	500-86920
500-25495-3	1822903	T	Water	8081A	500-86920
500-25495-4	1822904	T	Water	8081A	500-86920

Report Basis
T = Total

Client: Whittier Filtration

Job Number: 500-25495-2

Surrogate Recovery Report

8081A Organochlorine Pesticides (GC)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCB2 %Rec	TCX2 %Rec
500-25495-1	1822901	86	67
500-25495-2	1822902	62	58
500-25495-3	1822903	42	68
500-25495-4	1822904	31X	63
MB 500-86920/1-A		91	84
LCS 500-86920/2-A		88	80
LCSD 500-86920/3-A		87	74

Surrogate	Acceptance Limits
DCB = DCB Decachlorobiphenyl	34-114
TCX = Tetrachloro-m-xylene	41-125

Client: Whittier Filtration

Job Number: 500-25495-2

Method Blank - Batch: 500-86920

Method: 8081A
Preparation: 3510C

Lab Sample ID: MB 500-86920/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/04/2010 2148
Date Prepared: 06/02/2010 0844

Analysis Batch: 500-87587
Prep Batch: 500-86920
Units: ug/L

Instrument ID: INST15-16
Lab File ID: 05241016_268.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
4,4'-DDD	<0.050		0.014	0.050
4,4'-DDE	<0.050		0.0086	0.050
4,4'-DDT	<0.050		0.0084	0.050
Aldrin	<0.050		0.012	0.050
alpha-BHC	<0.050		0.016	0.050
beta-BHC	<0.050		0.021	0.050
Chlordane (technical)	<0.10		0.027	0.10
delta-BHC	<0.050		0.015	0.050
Dieldrin	<0.050		0.011	0.050
Endosulfan I	<0.050		0.0067	0.050
Endosulfan II	<0.050		0.0082	0.050
Endosulfan sulfate	<0.050		0.011	0.050
Endrin	<0.050		0.014	0.050
Endrin aldehyde	<0.050		0.022	0.050
Endrin ketone	<0.050		0.014	0.050
gamma-BHC (Lindane)	<0.050		0.013	0.050
Heptachlor	<0.050		0.020	0.050
Heptachlor epoxide	<0.050		0.014	0.050
Methoxychlor	<0.10		0.013	0.10
Toxaphene	<0.50		0.22	0.50

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	91	34 - 114
Tetrachloro-m-xylene	84	41 - 125

Client: Whittier Filtration

Job Number: 500-25495-2

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 500-86920

Method: 8081A
Preparation: 3510C

LCS Lab Sample ID: LCS 500-86920/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/04/2010 2208
Date Prepared: 06/02/2010 0844

Analysis Batch: 500-87587
Prep Batch: 500-86920
Units: ug/L

Instrument ID: INST15-16
Lab File ID: 05241016_269.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1 uL
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 500-86920/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/04/2010 2228
Date Prepared: 06/02/2010 0844

Analysis Batch: 500-87587
Prep Batch: 500-86920
Units: ug/L

Instrument ID: INST15-16
Lab File ID: 05241016_270.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
4,4'-DDD	105	101	74 - 131	4	20		
4,4'-DDE	97	92	69 - 124	6	20		
4,4'-DDT	90	93	68 - 121	3	20		
Aldrin	83	76	54 - 113	8	20		
alpha-BHC	96	88	66 - 122	8	20		
beta-BHC	98	94	70 - 124	5	20		
delta-BHC	100	94	76 - 132	6	20		
Dieldrin	99	94	72 - 126	5	20		
Endosulfan I	81	75	38 - 111	7	20		
Endosulfan II	87	84	47 - 115	4	20		
Endosulfan sulfate	99	95	72 - 135	4	20		
Endrin	125	120	79 - 134	4	20		
Endrin aldehyde	93	89	73 - 117	5	20		
Endrin ketone	100	97	68 - 125	3	20		
gamma-BHC (Lindane)	97	90	66 - 124	8	20		
Heptachlor	92	86	61 - 115	7	20		
Heptachlor epoxide	98	90	69 - 123	8	20		
Methoxychlor	102	106	67 - 135	4	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
DCB Decachlorobiphenyl	88	87	34 - 114
Tetrachloro-m-xylene	80	74	41 - 125

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Chain of Custody Record

Lab Job #: 500-25495

Chain of Custody Number:

Page ___ of ___

Temperature °C of Cooler: >7.2

(optional)

Report To
Contact: Mike Monacell
Company: Whittier Filtration
Address:
Address:
Phone: 714-986-53216
Fax:
E-Mail:

(optional)

Bill To
Contact:
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Client: Whittier Filtration
Client Project #:
Project Name:
Project Location/State:
Lab Project #:
Sampler:
Lab PM:

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	VOC	SVOC	pCBSA						Comments
1		1822901	5-12		7	water	✓	✓	✓						
2		1822902	5-12		7	water	✓	✓	✓						
3		1822903	5-12		7	water	✓	✓	✓						
4		1822904	5-12		7	water	✓	✓	✓						

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days ___ Other
Requested Due Date ___

Sample Disposal
[ ] Return to Client [X] Disposal by Lab [ ] Archive for ___ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Kevin Spagnolo	HPD	5-12-10		[signature]	TA	5/13/10	1030

Lab Courier:
Shipped: FX
Hand Delivered:

Matrix Key
WW - Wastewater
W - Water
S - Soil
SL - Sludge
MS - Miscellaneous
OL - Oil
A - Air
SE - Sediment
SO - Soil
L - Leachate
WI - Wipe
DW - Drinking Water
O - Other

Client Comments

Lab Comments:

TAL 4124 500 (1209)

Login Sample Receipt Check List

Client: Whittier Filtration

Job Number: 500-25495-2

Login Number: 25495
Creator: Lunt, Jeff T
List Number: 1

List Source: TestAmerica Chicago

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	17.2
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	False	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified	True	

Attachment 5

Analytical Report: Bench Scale Shaker Test (Whittier Filtration)

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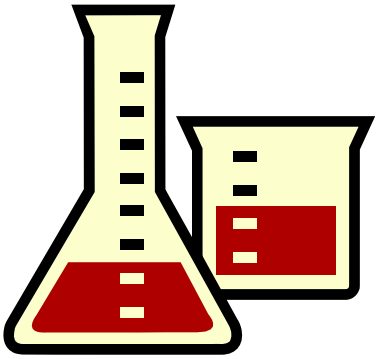
Analytical Report
Bench Scale Shaker Test



MPPE
Macro Porous Polymer Extraction

Submitted To: Geosyntec Consultants
Prepared By: Michael Monacell, Whittier Filtration

June 10, 2010

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Laboratory Test Work

Introduction

Testing was conducted on the Montrose remediation site ground water samples utilizing the MPPE technology in the Shaker Bottle Test. The testing was performed at Veolia Water Solutions & Technologies North American laboratory facility, the Philip J. Stewart Technology Center, located on the HPD campus in Plainfield, IL.

Philip J. Stewart Technology Center on the campus of HPD
HPD is a wholly owned subsidiary of Veolia Water Solutions & Technologies

Veolia Water Solutions & Technologies Laboratory Services

The Philip J. Stewart Technology Center is a state-of-the-art research and development facility, dedicated to providing industry leading support for a variety of Veolia Water Solutions & Technologies applications.

The 50,000 square foot complex is home to a wide variety of tools used for the investigation of new process designs, testing to support customer projects, and the development of new technologies.

Whether driven by specific customer requirements or introducing new technologies to the market, the Philip J. Stewart Technology Center provides the necessary foundation for design feasibility and accurate process evaluation.

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Laboratory at the Philip J. Stewart Technology Center

MPPE TECHNOLOGY

The standard MPPE unit consists of two columns, both containing a packed bed of MPPE material. The MPPE material consists of a 1mm diameter by 1mm long polymer bead designed with 70-80% porosity. A proprietary liquid extractant is embedded into the polymer bead. The mechanism of hydrocarbon extraction is of the liquid-liquid type. The influent water is fed into column C-01 where the extraction process takes place in order to remove the contaminants. The small beads embedded with the extractant in a packed bed formation allow for excellent contact time and thus extremely efficient hydrocarbon removal. At the same time the other column (C-02) is being regenerated with low-pressure steam. After a pre-calculated time, the feed is switched to the other column, C-02. Column C-01 is then regenerated by low-pressure steam. The steam evaporates the components from the MPPE material, resulting in a vapor flow of organics and steam. The vapor is routed through a condenser where condensation of both steam and organics takes place. The condensed steam and organics are led into a separator in which the organics are separated from the condensed steam. The practically 100% pure organics can be reused or disposed according to regulations.

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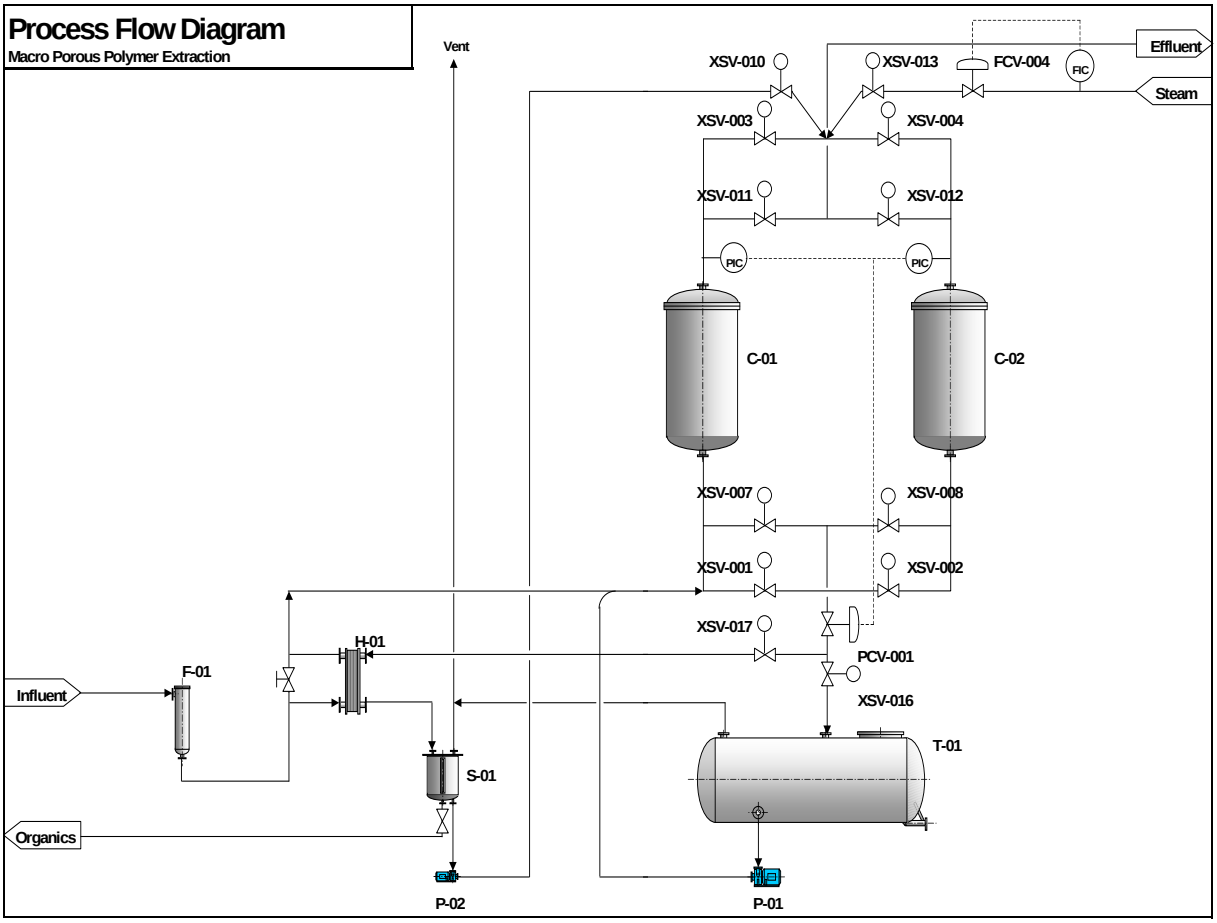
The water phase from the separator is recycled into the MPPE system. After a period of time (usually approximately one hour) the unit switches back from column C-02 to C-01.



Objectives

To verify the MPPE technology is applicable for the reduction of target VOC compounds from ground water samples of the Montrose remediation site in Torrance, California. With the Montrose site ground water samples, a Shaker Bottle test is carried out to check the influence of the water environment on the extraction efficiency of the MPPE particles and to determine efficiency of MPPE material on the removal of target compounds.

Expected Results

It is expected that the test will show increased removal of desired compounds as the amount of MPPE material increases in each consecutive shaker bottle.

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Laboratory Test Feed Stock

The water provided by Geosyntec Consultants was directly used as feed for the MPPE Shaker Bottle Test. Water was provided in 5 gallon containers. There were two different water types, MBFB-EW-1 and BF-EW-1.

Testing Procedure

- The water was mixed at 95% BF-EW-1 and 5% MBFB-EW-1
- 3500 ml of the mixture sample water was loaded into four (4) 4000 ml bottles
- Bottles – two (2) filter flasks and two (2) Erlenmeyer flasks
- MPPE media was loaded into three (3) of the four (4) bottles with the first bottle containing no MPPE media.
- The first bottle is a raw sample of ground water with out MPPE material
- The second bottle was loaded with 40 grams of MPPE material
- The third bottle was loaded with 120 grams of MPPE material
- The fourth bottle was loaded with 200 grams of MPPE material
- Bottles were put on shaker table for 24 hours at 150 rpm
- Samples were taken from each bottle, prepared and sent to third party certified analytical laboratory (Test America, University Park, IL.)

Results - Tables

Raw laboratory data can be found attached to this report. Summary is listed below.

The table 1 below shows the loading parameters of the shaker bottles.

Table 1

ID	Amount of MPPE Media	Amount of Influent Sample
1822901	0g, (raw influent)	3500 ml
1822902	40 grams	3500 ml
1822903	120 grams	3500 ml
1822904	200 grams	3500 ml

After required contact time was reached the water phase and the particles were separated by filtration and effluent samples were sent to Test America for analysis.

The table 2 contains the results of the compounds that were detected during testing

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Table 2

Compound	Blank (raw water)	40g MPPE	120g MPPE	200g MPPE	Effluent Requirement
1,2-Dichloroethane	28	17	11	7.7	0.5
Acetone	45	72	210	63	610
Benzene	410	180	97	62	1
Chlorobenzene	5100	840	280	160	70
Chloroform	620	230	180	120	100
cis-1,2-dichloroethene	<5	.83 J	.45 J	<1	6
Ethylbenzene	3.9 J	0.39 J	<1	<1	700
m&p-Xylene	2.2 J	0.53 J	0.45 J	0.36 J	NA
Total Xylenes	2.2 J	0.53 J	0.45 J	0.36 J	1750
Methylene Chloride	17	10	11	8	5
Trichloroethene	11	3.1	1.2	0.79 J	5
Trihalomethanes, Total	620	230	180	120	N.O.T
2,4-Dichlorophenol	1.4 J	<9.3	<9.3	<9.3	NA
2-Methylnaphthalene	0.38 J	<0.47	<0.47	<0.47	6.2
Benzoic acid	<19	8.6 J	8.9 J	9 J	NA
Butyl benzyl phthalate	0.88 J	<1.9	<1.9	<1.9	NA
Naphthalene	0.54 J	<0.93	<0.93	<0.93	6.2
pCBSA	120,000	130,000	120,00	120,000	25000

N.O.T – Compound not on effluent requirement table
NA – Compound on table but no effluent requirement is listed
*Values are in ppb

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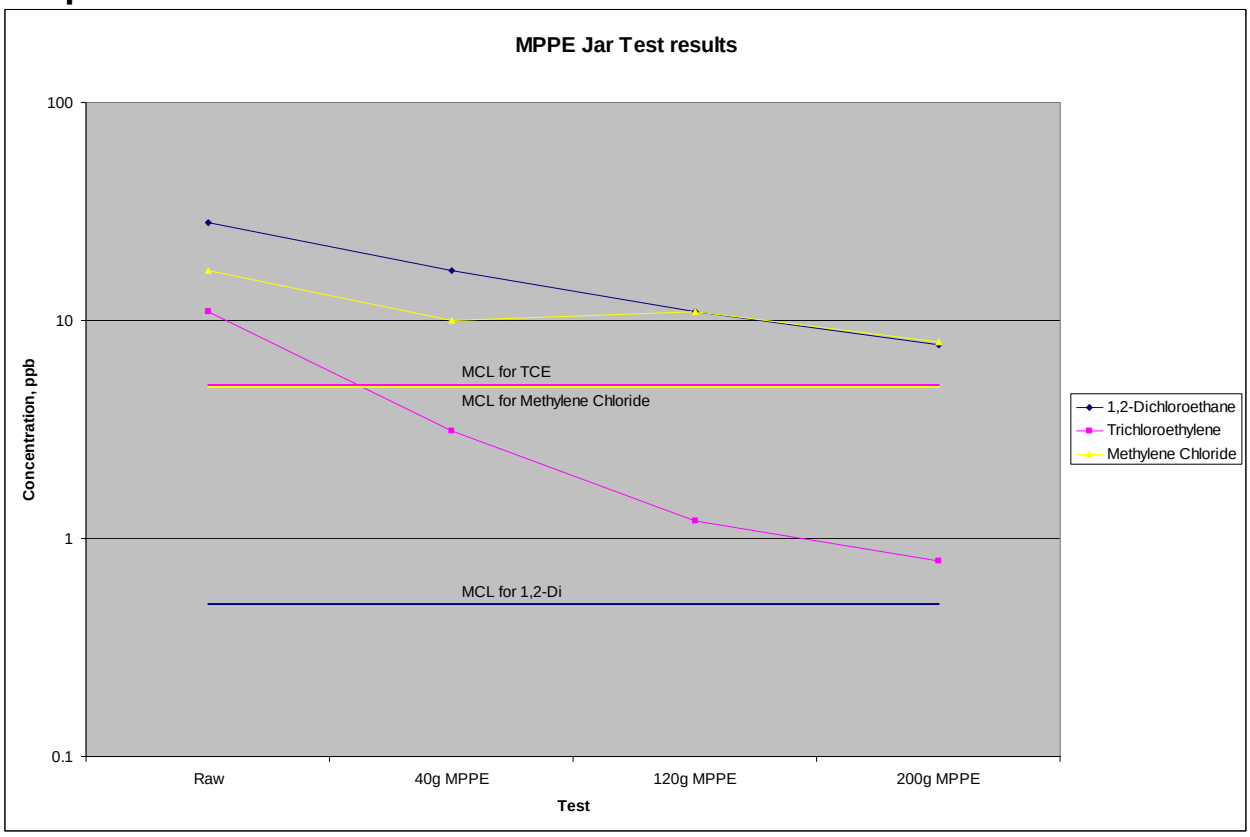
Graphs

Graph 1 shows influent concentrations of Trichloroethylene, Methylene Chloride, and 1,2 Dichloroethane and the concentrations after each shaker bottle test.

Graph 1



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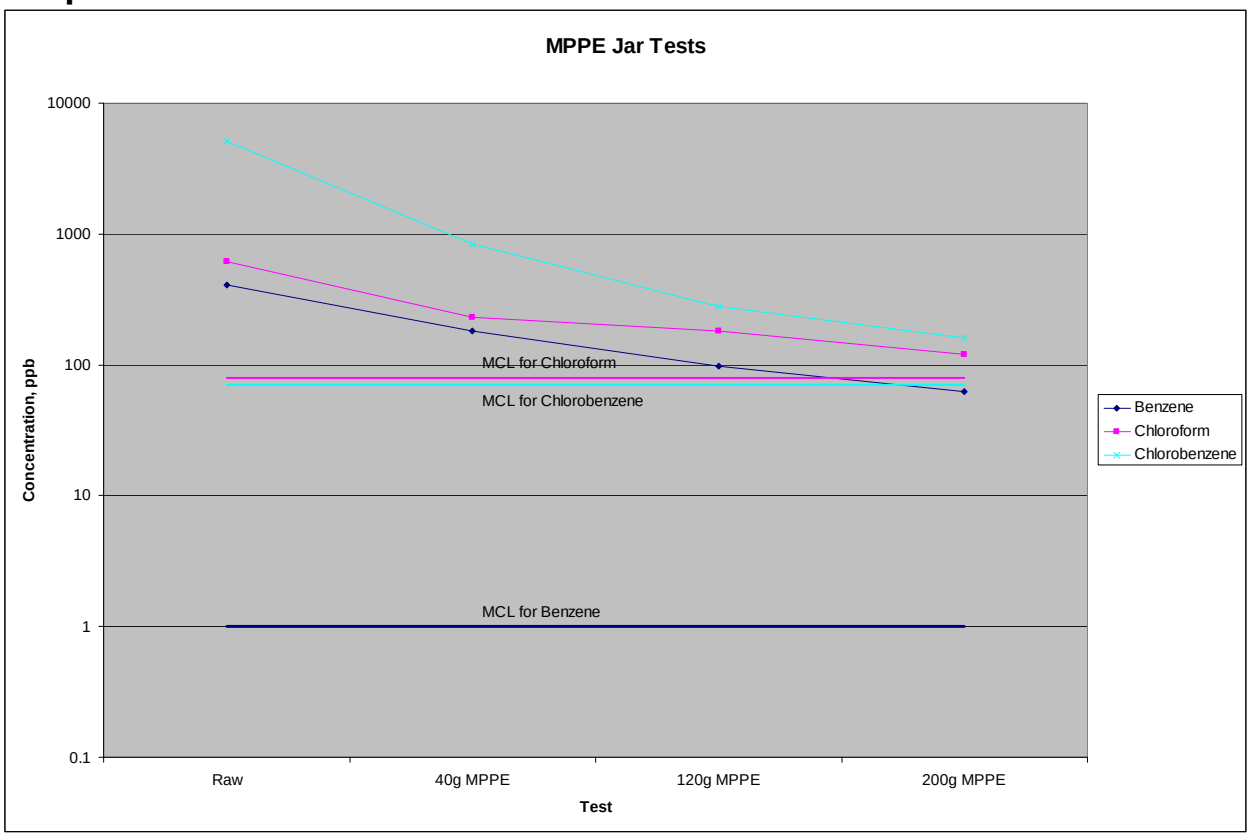
Graph 2 shows influent concentrations of Benzene, Chloroform, and Chlorobenzene and the concentrations after each shaker bottle test.

Graph 2



Results-Summary

The Shaker Bottle Test proved successful for Methylene Chloride, Trichloroethylene, 1,2

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Dichloroethane, Benzene, Chloroform, and Chlorobenzene. It is determined that Methylene Chloride is the most difficult compound to remove among the removable non polar hydrocarbons. It is thus considered the target design compound for the full scale MPPE system.

Explanation of Testing Results

The intent of the Shaker Bottle test is to show successive increased removal of compounds as the quantity of MPPE material is increased. It is not designed as an indication of final removal efficiency. If the compound is reduced from one lower MPPE media quantity shaker bottle to the next higher quantity shaker bottle, it indicates that the MPPE media can remove the compound to essentially any desired level. The information gathered from this test and subsequent pilot tests, is used to calculate the partition coefficients of the compounds which is later used to design a full scale system. These partition coefficients are used to determine the amount of MPPE media required for a desired removal efficiency (to meet effluent requirements)

As indicated by the shaker test, the MPPE technology can remove Methylene Chloride, Trichloroethylene, 1,2 Dichloroethane, Benzene, Chloroform, and Chlorobenzene to the desired effluent concentrations as indicated in the last column of Table 2 above.

Test Conclusion

From the analytical results it can be concluded that:

- The MPPE technology is able to lower the target compound, Methylene Chloride to less than 5 ppb.
- As Methylene Chloride is the most difficult compound to remove and thus is considered the target compound for the MPPE design, all other removable non-polar hydrocarbons will be removed to at or below effluent requirements (i.e. BTEX).
- The removal percentage of the measured components is independent of the influent concentrations as measured in the samples
- No influence of the water environment is detected (nothing present in the influent water that could effect removal of non-polar hydrocarbons like high salt content, dispersed components, or high solids concentrations)

Recommended Next Step

Based on the shaker test results, we recommend proceeding to an on site pilot study. This conclusion is drawn from the fact that we were able to identify the most difficult hydrocarbon to remove with the MPPE technology, Methylene Chloride. Further, due to the fact that we had good separation in the shaker test of this compound, we were able to make valuable design calculations like the partition coefficient of Methylene Chloride in this particular water environment.

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Additionally, because this partition coefficient was in line with prior experience and theoretical calculations, it can be strongly concluded that we are confident that we can remove the Methylene Chloride to less than 5 ppb.

By conducting an on site pilot study we will be able to gain valuable information like the influence of repetitive loading loading with water from the location. Also, we can observe the regeneration process in an actual application and determine if there is any unknown negative effect of the hydrocarbon removal from the media. We will be constantly monitoring the pilot unit parameters from our remote computer and will be able to determine if we see an accumulation of components in the media causing any unusual pressure differentials. Also, we will be able to determine the extent of the regeneration process on certain unknown particles and determine if we can anticipate any break through problems.

Corporate Commitment to Research and Development

Whittier, as a part of the Veolia Water group of companies, mirrors the commitment to research and development demonstrated throughout the organization.

Based at Maisons-Laffitte, just outside of Paris, “Anjou Recherche” is the research center for Veolia Water. It replaced the historic laboratory set up in 1889 at the group’s headquarters at rue d’Anjou in Paris.

Opened in 1982, it is currently staffed by 110 researchers. As a globally focused group, Veolia Water’s Anjou Research Center works in partnership with more than a hundred ministries/government agencies, universities and institutions in France, Germany, Great Britain, Canada, and the United States.

Sustainable & Efficient Water Treatment Technologies

Resource efficiency and sustainability are driving changes in many businesses, and Whittier Filtration, a Veolia Water Solutions & Technologies company, is committed to staying at the leading edge of sustainable offerings. Whittier Filtration actively pursues a strategy to deliver sustainable and innovative technologies and solutions.

We offer our customers technologies and solutions which include resource-efficient clean technology to improve operations, reduce costs, achieve sustainability goals, generate revenue, decrease dependency on limited resources, and comply with current and anticipated regulations.

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Veolia Water Solutions & Technologies investments in R&D outpace the industry. Our focus is on delivering

- neutral or positive energy solutions
- migration toward green chemicals or zero chemical consumption
- water-footprint-efficient technologies with high recovery rates

Our carbon footprint reduction program drives innovation, accelerates adoption and development of clean technologies, and offers our customers sustainable solutions.

Whittier Filtration has implemented this program corporate-wide and has established procedures, systems, and key performance indicators which ensure continuous development of innovative technologies designed to meet our customer's sustainability goals.

Whittier Filtration is benchmarking its technologies and solutions by estimating GHG emissions included in IPCC Scope 1 and scope 2 boundary conditions and reporting it a CO2-eq. The CO2-eq metric will be utilized as the benchmark to measure innovation made toward the development of clean technologies and solutions. This metric will demonstrate value to customers as they select technologies and make decisions that impact the financial performance of their operation over the life of the treatment technology.

By committing to the innovative development of clean and sustainable technologies and solutions worldwide, VWS will continue to maximize the financial benefits for every customer.

Attachment 6

Revised Macro Porous Polymer Extraction Pilot-Scale Workplan

ATTACHMENT 6

Dual Site Groundwater Operable Unit
Montrose Chemical and Del Amo Superfund Sites
Revised Macro Porous Polymer Extraction Pilot-Scale Work Plan

1.0 Introduction

This Work Plan describes the upcoming Pilot-Scale Groundwater Treatment Test ("pilot-scale test") designed to test the Macro Porous Polymer Extraction ("MPPE") water treatment technology. The pilot-scale test will follow the previously conducted bench-scale testing described in an advisory memo to EPA dated 5 March 2010 (Geosyntec, 2010). The MPPE pilot-scale test will involve extraction and treatment of groundwater from two existing groundwater extraction wells at the Dual Site Groundwater Operable Unit at the Montrose Chemical and Del Amo Superfund Sites in Los Angeles, California (see Figure 1).

2.0 Purpose of the Pilot-Scale Test

The purpose of the pilot-scale test is to evaluate the MPPE treatment process under actual field conditions. The resulting cost and performance data will be used to decide whether to include MPPE in the full-scale treatment plant. A secondary objective is to generate design data for MPPE system (e.g., energy usage rates, actual media regeneration frequencies, etc.) and filtration for the Dual Site Groundwater Operable Unit treatment plant.

3.0 Overview of Pilot-Scale Treatment Process

The MPPE treatment system is a liquid-liquid extraction process that uses porous polymer beads (MPPE particles), measuring approximately 1 millimeter in diameter, which contain a proprietary non-polar extraction liquid. The extraction liquid has a high affinity for non-polar compounds (e.g., dissolved phase hydrocarbons, certain organic compounds, etc.). The treatment technology becomes less efficient as compounds increase in polarity. Based on bench-scale test results, MPPE is effective at removing the types of VOCs that are expected in the influent to the full-scale treatment plant. The MPPE treatment system consists of two vessels filled with MPPE beads that are alternately cycled online and off-line approximately once per hour. During each cycle, the off-line vessel is "regenerated" using low-pressure steam to strip the VOCs that have been removed by the MPPE beads. The stripped VOCs are then transferred to a condenser and separator that result in a concentrated waste stream of organics. A conceptual process flow diagram of the MPPE system and other treatment components that will be used during pilot- scale test is included in Figure 2.

4.0 Summary of Proposed Pilot-Scale Test

Given the success of the bench-scale tests, MPPE will be tested at the pilot scale using actual site groundwater by mobilizing a trailer-mounted MPPE system to the site. For approximately one month, the pilot-scale system will be operated and tested as described in the remainder of this section. At the conclusion of the test, the trailer-mounted MPPE system and other pilot-test equipment will be removed and the data will be analyzed
The pilot-scale treatment unit is a mobile treatment unit fitted with a small-scale MPPE treatment system. The pilot-scale MPPE system includes the following equipment mounted on a gooseneck trailer: two MPPE vessels, a pump with a variable flow rate between 3 and 50 gallons per minute ("gpm"), condenser, extracted liquid holding tank, separator and a steam generator.

The pilot-scale MPPE treatment system will be located adjacent to the extraction wells (Figure 3). The system has a footprint approximately 8 feet wide by 28 feet long and requires approximately 11 feet of overhead clearance. In addition to the pilot-scale unit, there will be several support vehicles and large tanks located in the pilot-scale treatment area.

Current testing will focus on blending extracted groundwater from two wells with high chemical concentrations, MBFB-EW-1 and BF-EW-1. Wells MBFB-EW-1 and BF-EW-1 are located on Normandie Avenue (Figure 3). The pilot-scale test will utilize two influent water storage tanks where the water from the two extraction wells will be mixed prior to treatment. The tanks will be cycled between filling mode and discharge mode. While in filling mode water will be pumped from the wells into one of the two influent tanks and then mixed. During discharge mode the water will continue to be mixed in the tank and then will be pumped to the MPPE system. The planned mixture will include 95% by volume from Well BF-EW-1 and 5% by volume from Well MBFB-EW-1, which was the same ratio used for the bench-scale tests. During filling mode water from each well will be pumped into the effluent tank and the volume will be monitored until the desired mixture is achieved. The water in the tank will be mixed by using a submersible pump installed in the tank to circulate water. The tanks used will contain hatches on top of the tank that will be used to access the water in the tank but will remain closed during normal operation.

Water pumped from the influent holding tank will be treated via MPPE and GAC and then pumped into the effluent holding tank. Treated water will be temporarily held in an effluent holding tank and then discharged via flexible water conveyance hoses into Los Angeles County storm drains. NPDES permit conditions (NPDES Permit No. CAG994004 CI-8819) will be followed. Water will be discharge continuously in compliance of the NPDES permit. Additional treatment and discharge sampling of the treated water is described in Section 6.2 of this attachment.

Geosyntec reviewed the application of this technology with regards to permits that may be required by the South Coast Air Quality Management District (SCAQMD). No permitting requirements in SCAQMD rules are applicable to the test.

As shown in Figure 2, a bag filter housing will also be placed in line during the pilot-test. Throughout the test the bag filter housing will be fitted with several different types of filter sizes (0.5, 1, 5, 10, 25 microns). The pressure, flow, and change out frequency for each filter size will be monitored and this data will be used during design of the filtration unit of full-scale treatment plant.

5.0 Pilot-Scale Testing Modes

The MPPE unit used for the pilot-scale testing can treat between 3 and 50 gpm. During the pilot-scale test, the test modes of operation will include start-up, step, capacity and continuous-flow testing, as described below:

- Start-up Testing – the system will receive approximately 3 gpm for treatment until startup procedures are complete and operational parameters stabilize. Approximately three samples will be collected at least an hour apart during this start-up testing;

- Step-Testing – the flowrate will be increased in approximately 5 gpm increments, after which the MPPE system will be purged, allowed to stabilize, and then sampled. Two samples will be collected during each step.;

- Capacity Testing – following step-testing, the flowrate will be decreased to the highest flowrate that was capable of meeting discharge permit limits and run for 24 hours or more to confirm that the MPPE process is reliable and consistent. In addition, samples of the influent water, effluent water, and MPPE separator water will be tested to evaluate the mass balances for constituents of concern. During capacity testing samples will be collected approximately every four hours.; and

- Continuous-Flow Testing – following capacity testing, the flowrate will be decreased to approximately 3 gpm and the system will be monitored for the remainder of the test to assess system operation issues, including regeneration frequency, steam demands, and organic liquid quantities. During continuous-flow testing samples will be collected every 24 hours of operation. .

Testing is scheduled to occur 24 hours per day, with scheduled breaks between tests for collection of analytical data and data evaluation. The duration of the test period is expected to be approximately two to four weeks but may be altered based on field conditions and test results.

6.0 Summary of the Data Collection Plan

6.1 Data Collection to Support Pilot-Testing

Samples will be collected from sample ports located immediately upstream and downstream of the MPPE system (see Figure 2) to evaluate the performance of the MPPE process at treating the following classes of compounds:

- VOCs by EPA Method 8260B; and
- Organochlorine pesticides by EPA Method 8081A.

The results will be used to analyze MPPE system performance and will be provided to Whittier Filtration for design and cost-estimation purposes. VOCs will be analyzed each time samples are collected. For the organochlorine pesticides, samples will be analyzed only once per each tested flowrate. The reason for this is to further explore whether MPPE can actually treat the organochlorine pesticides (bench-scale results for organochlorine pesticides were inconclusive). Although para-chlorobenzene sulfonic acid (pCBSA) is present in the groundwater, it is not treated by MPPE. Therefore analysis during the pilot-scale test is not warranted (except as required by the discharge permits, described below). For quality control/ quality assurance (QA/QC) purposes daily field blanks and 10% duplicate samples will be collected and analyzed for VOC's by Method 8260B.

Samples of the organic liquid that is generated by the MPPE process during this pilot-scale test will be provided to Whittier Filtration for profiling and testing. The results will be used to evaluate recycling or disposal options for the organic liquid waste that will be generated by the full-scale treatment system.

In addition to the test described above Geosyntec will work with Whittier Filtration in an attempt to analyze the MPPE media for VOC's before and after the pilot-scale testing. These results would be evaluated to perform a system mass balance and evaluate the tendency of the MPPE media to accumulate contaminants. Due to the proprietary and sensitive nature of the MPPE resin, it may not be possible to conduct this analysis based on fear of disclosing trade secrets.

6.2 Data Collection to Support Discharge

During the test, water treated by MPPE will be sampled, will be further treated with granular activated carbon (GAC), and then will be sampled again. The purpose of the GAC treatment is two-fold: (1) it serves as a backup treatment in case the MPPE-treated water does not meet discharge requirements; and (2) it will treat pCBSA, which is not

expected to be treated using MPPE. Approximately 8,000 pounds of GAC stored in four separate vessels will be onsite during pilot-scale testing.

During the startup testing treated water will be temporarily stored in a holding tank until water quality analytical results confirm that the treated water is in compliance with the permit effluent limits per the existing Los Angeles County Industrial Waste Disposal (IWD) Permit (No. P0000489872) and the National Pollutant Discharge Elimination System (NPDES) Permit (NPDES No. CAG994004, CI-8819) for Montrose Chemical Company of California. Treated groundwater will then be discharged to the Los Angeles County storm drain Outfall 1 (Figure 1) in continuous mode after confirmation data are obtained and results have been submitted to the Los Angeles County Industrial Waste Division.

7.0 Reference

Geosyntec Consultants (Geosyntec), 2010a. Re-Evaluation of Volatile Organic Compound Treatment, Dual Site Groundwater Operable Unit, Torrance, California.

Table and Figures List

Table 1: Main Equipment List

Figure 1: Existing and Proposed NPDES Outfall Locations

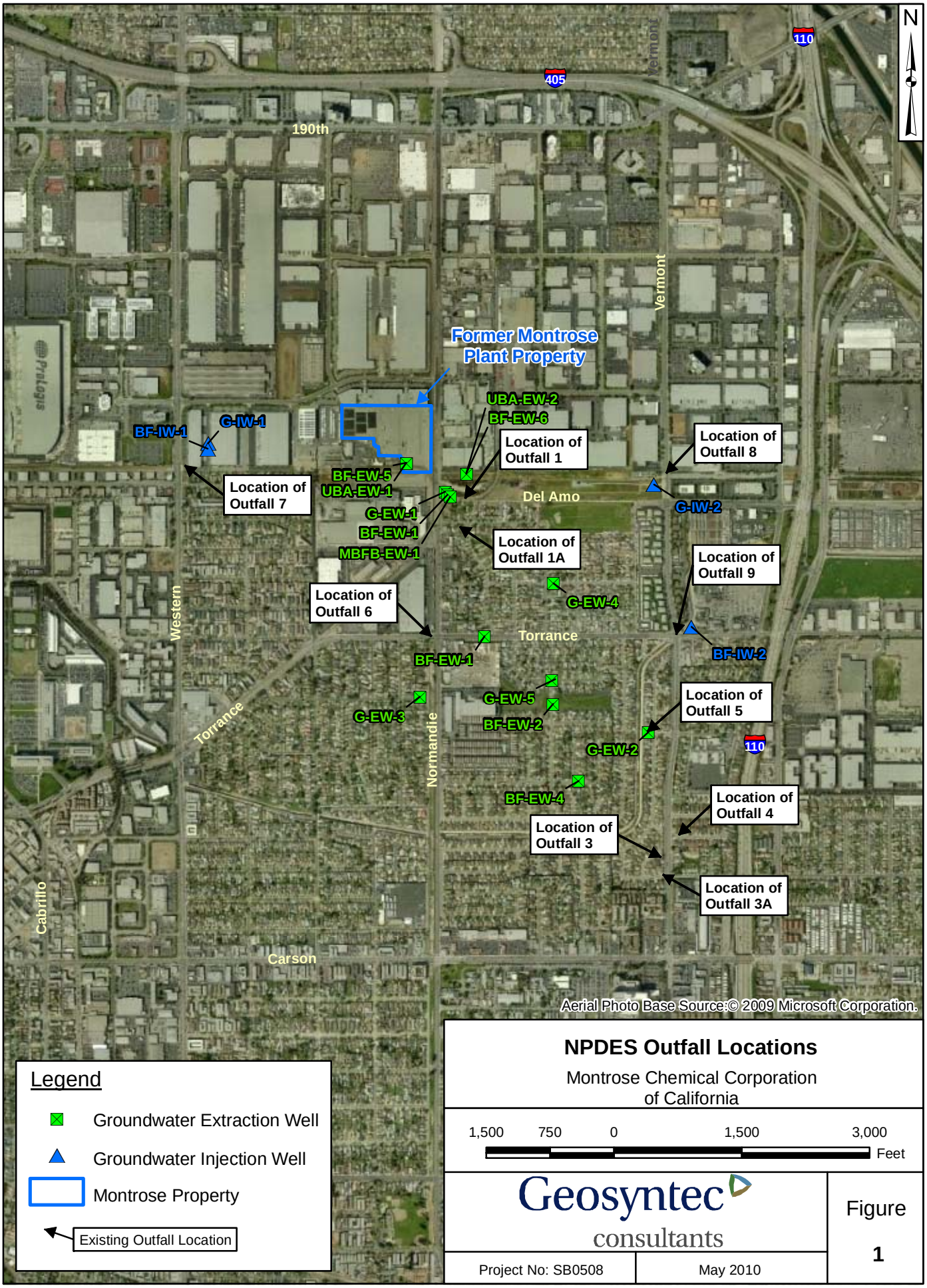
Figure 2: Conceptual Process Flow Diagram

Figure 3: MPPE Pilot Test Location

Geosyntec consultants

Table 1: Main Equipment List
Macro Porous Polymer Extraction Pilot-Scale Work Plan
Dual Site Groundwater Operable Unit

No.	Equipment
1	Extraction pumps installed in MBFB-EW-1 and BF-EW-1; flow rate in MBFB-EW-1 will vary between 0.5 gpm and 4 gpm and flow rate in BE-EW-1 will vary between 3 gpm and 50 gpm.
2	Two influent mixing tanks, approximately 20,000 gallons each, fitted with submersible pump to mix water prior to treatment
3	Transfer pump for moving water from the influent storage tank to the treatment system across a range of flowrates (3 gpm to 50 gpm)
4	MPPE Pilot Scale unit which includes MPPE columns, boiler, condenser, and separator.
5	Drums (with secondary containment) for holding the organic liquid that is removed by the MPPE process.
6	Discharge pump for moving treated water through the downstream vessel filled with granular activated carbon (GAC), which serves as a polishing unit and method for treating residual concentrations of para-chlorobenzene sulfonic acid (pCBSA)
7	8,000 pounds of GAC in four different vessels placed in series .
8	Tank for holding treated water prior to discharge
9	Bag filtration system for filtration testing
10	Discharge pump for moving water to the outfall
11	Analog totalizers and flow meters
12	Sampling ports located before and after MPPE System and in effluent holding tank.



g:\gis\hw1023\project\NPDES_OutFall_20100505.mxd sn 20100507

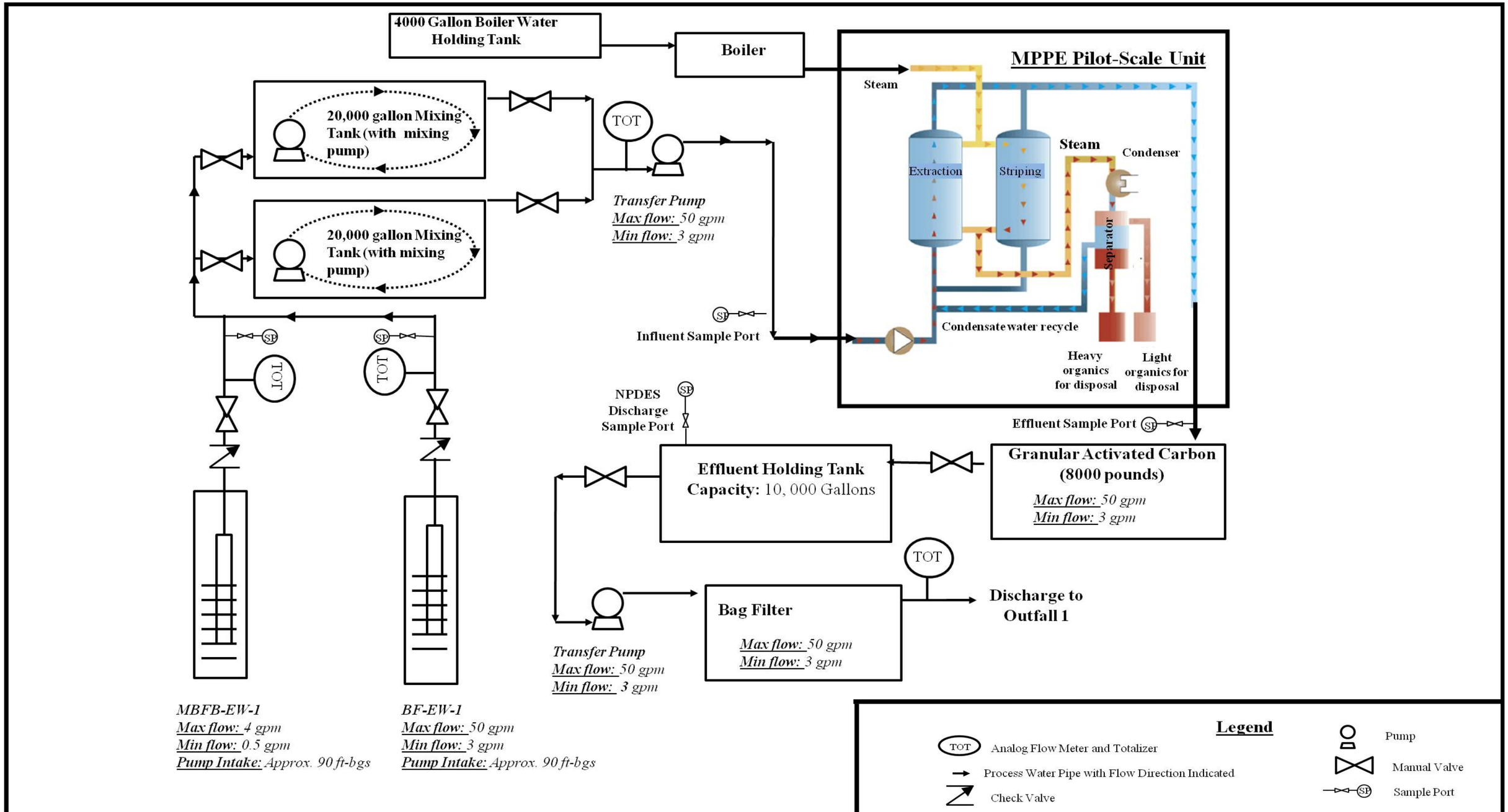
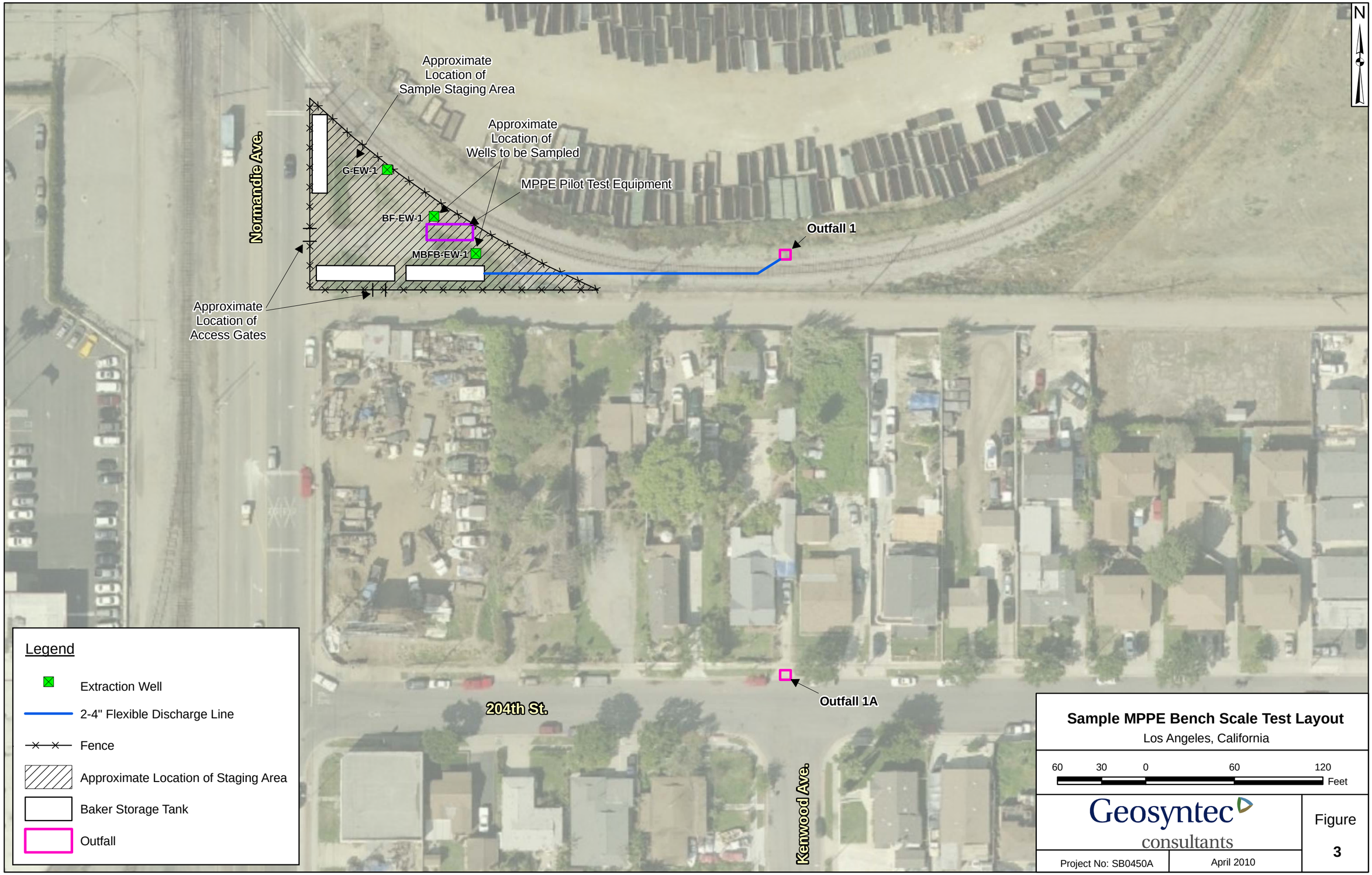


Figure 2 : **Conceptual Process Flow Diagram**
MPPE Pilot Scale
Torrance Groundwater Remediation System
Torrance, California

Geosyntec consultants



Sample MPPE Bench Scale Test Layout

Los Angeles, California

Geosyntec consultants

Project No: SB0450A

April 2010

Figure 3

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