

Via E-mail and Mail

July 20, 2009
Job No. 3126.003

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Alameda County
Environmental Health

BGC
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GEOTECHNICAL
CONSULTANTS



Mr. Jerry Wickham
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Subject: Limited Environmental Site Investigation
Transportation Corridor
West Neal Street and Railroad Avenue
Pleasanton, California

Dear Mr. Wickham:

We declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of our knowledge.

Respectfully submitted,

BERLOGAR GEOTECHNICAL CONSULTANTS

Peng Leong
Principal Engineer
C39707, Exp. 12/31/09

PSL:jmb

Attachment:

Limited Environmental Site Investigation Report

Copies: Addressee (2)
MacKay and Soms (2)
Attention: Mr. Chris Guenther
City of Pleasanton (2)
Attention: Mr. Jim Gotcher

3126.003/22270.doc


Frank Berlogar

LIMITED ENVIRONMENTAL SITE INVESTIGATION
TRANSPORTATION CORRIDOR
WEST NEAL STREET AND RAILROAD AVENUE
PLEASANTON, CALIFORNIA

FOR
MACKAY AND SOMPS CIVIL ENGINEERS, INC.
April 23, 2009

Job No. 3126.003

Via E-mail and Mail

April 23, 2009
Job No. 3126.003



Mr. Chris Guenther
MacKay and Soms Civil Engineers, Inc.
5142 Franklin Drive, Suite B
Pleasanton, California 94588

Subject: Limited Environmental Site Investigation
Transportation Corridor
West Neal Street and Railroad Avenue
Pleasanton, California


Dear Mr. Guenther:

Enclosed is the Limited Environmental Site Investigation Report documenting the soil sampling activities that were conducted by Berlogar Geotechnical Consultants along the Transportation Corridor located on the east side of Railroad Avenue, between West Neal Street and Spring Street in Pleasanton, California.

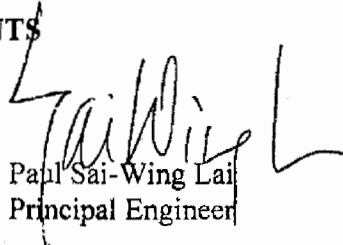
If you have any questions or comments concerning this report, please feel free to contact us at (925)484-0220.

Respectfully submitted,

BERLOGAR GEOTECHNICAL CONSULTANTS


Peng K. Leong
Principal Engineer
C39707, Exp. 12/31/09




Paul Sai-Wing Lai
Principal Engineer

PKL/PSL:jmb

Copies: Addressee (6)

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**LIMITED ENVIRONMENTAL SITE INVESTIGATION
TRANSPORTATION CORRIDOR
WEST NEAL STREET AND RAILROAD AVENUE
PLEASANTON, CALIFORNIA**

1.0 INTRODUCTION

This report presents the findings of the Limited Environmental Site Investigation that was conducted by Berlogar Geotechnical Consultants (BGC) along the Transportation Corridor located at the eastern corner of West Neal Street and Railroad Avenue in Pleasanton, California. The site is shown on the Site Plan, Figure 1.

The purpose of the investigation was to assess the potential presence of petroleum hydrocarbons, volatile organic compounds (VOCs), semi-VOCs (SVOCs), organochlorine pesticides, polychlorinated biphenyls (PCBs), and metals within the surficial soil at the site associated with the former railway located at the site.

The investigation was limited to collecting soil samples and selectively analyzing the samples for total petroleum hydrocarbons (TPH) as gasoline (TPHg), TPH as diesel (TPHd), TPH as motor oil (TPHmo), benzene-toluene-ethylbenzene-xylenes (BTEX), methyl tertiary-butyl ether (MTBE), VOCs, SVOCs, organochlorine pesticides, PCBs, and metals.

2.0 SITE DESCRIPTION

The site is located on the east side of Railroad Avenue, between West Neal Street and Spring Street in Pleasanton, California. The site consists of a rectangular parcel covering an area of approximately 2¼ acres. The site is currently vacant and unpaved, and is being used as a staging area for the construction of the planned museum and art center at the former Fire Station No. 1 site at 4444 Railway Avenue.

3.0 BACKGROUND

A railway corridor occupied the site from 1888 through the early 1990s. The site has been vacant since the removal of the rail line by 1993.

4.0 LIMITED SITE INVESTIGATION

BGC collected soil samples on March 19, 2009. A total of twenty-four soil samples were collected from twelve test pits (T-1 through T-12). The approximate test pit locations are shown on the Site Plan, Figure 1.

The test pits were excavated using a backhoe. Soil samples were collected from the test pits by driving a 2-inch diameter modified California sampler (containing a clean brass tube) into the soil at the prescribed depths. Soil samples designated with suffixes "A" and "B" were collected at depths of approximately ½ to 2 feet and 2½ to 3½ feet below the existing ground surface, respectively.

After being sealed and labeled, the filled brass tubes were immediately placed in a chilled cooler containing crushed ice for transportation to the laboratory. Proper documentation and field chain-of-custody procedures were followed.

All equipment used during this investigation that might have come into contact with contaminated materials was thoroughly decontaminated before and after each use. This was accomplished by washing with Alconox (a laboratory-grade detergent) and rinsing with distilled water.

5.0 SOIL CONDITIONS

Materials encountered in the test pits were visually classified and a log was recorded. The test pit logs are shown on Figures 2 through 4. As encountered in the test pits, the near-surface (within the upper about 4 feet) soils were generally consisted of fill over native alluvial soils of sandy clay, clayey silt, sandy silt, silty sand and sandy gravel. The fill was consisted of gravelly clay, gravelly sand, sandy gravel and gravel. The soils were generally moist and no groundwater was noted in the test pits. In Test Pit T-6, we encountered two wooden railroad ties that had very strong odor (creosote?).

6.0 LABORATORY ANALYSIS

The soil samples were sent to McCampbell Analytical, Inc. of Pittsburg, California, a state-certified laboratory, and selectively analyzed for:

- TPHg, TPHd, and TPHmo using EPA Method 8015B;
- BTEX and MTBE using EPA Method 8021B;
- VOCs using EPA Method 8260B;
- SVOCs using EPA Method 8270C;
- Organochlorine pesticides using EPA Method 8081A;

- PCBs using EPA Method 8082A;
- California Assessment Manual (CAM) 17 Metals using EPA Method 6020A; and
- Soluble arsenic, chromium, and lead extracted in accordance with the Soluble Threshold Limit Concentration (STLC) procedure using EPA Method 6020A;

The samples were analyzed on a normal turnaround basis.

7.0 INVESTIGATION RESULTS

The laboratory analytical results are summarized in Tables 1 through 4. Laboratory certificates are included in the Appendix.

Analytical results were compared to the San Francisco Regional Water Quality Control Board's Environmental Screening Levels (ESLs, where groundwater is a current or potential source of drinking water) for residential and commercial/industrial landuse.

Laboratory analytical results of the soil samples indicated that TPHg, TPHd, TPHmo, BTEX, MTBE, VOC, SVOC, organochlorine pesticide, and PCB concentrations were below their respective residential and commercial/industrial ESLs.

Metal concentrations detected in the soil samples were within typical background levels and generally below their respective residential and commercial/industrial ESLs, with the exception of antimony, arsenic, lead, mercury and vanadium. Antimony concentrations contained in Samples T-1A, T-2B, T-9A and T-10A were above the residential ESL of 6.3 mg/kg, but below the commercial/industrial ESL of 40 mg/kg. Arsenic concentrations detected in Samples T-1A, T-2B, T-4A, T-4B, T-6A, T-7A, T-7B, T-8A, T-9A and T-10A exceeded their respective residential and commercial/industrial ESLs of 0.39 mg/kg and 1.6 mg/kg. Sample T-1A contained a lead concentration of 210 mg/kg that was above the residential ESL of 200 mg/kg, but below the commercial/industrial ESL of 750 mg/kg. The mercury concentration of 2.0 mg/kg encountered in Sample T-9A was above the residential ESL of 1.3 mg/kg, but below the commercial/industrial ESL of 10 mg/kg. Vanadium concentrations contained in all seventeen samples tested were above the residential ESL of 16 mg/kg, but below the commercial/industrial ESL of 200 mg/kg.

Based on the above results, six selected soil samples (T-1A, T-2A, T-4A, T-6A, T-7A, and T-10A) were analyzed for STLC arsenic, chromium, and lead. Sample T-1A contained a soluble lead concentration of 11 mg/L while Samples T-4A and T-7A contained soluble arsenic concentrations of 11 mg/L. The soluble arsenic and lead concentrations in Samples T-1A, T-4A, and T-7A were greater than 5 mg/L, the California hazardous waste criteria level. The remaining STLC arsenic, chromium, and lead concentrations were below 5 mg/L.

8.0 DISCUSSION

Based on the findings of this investigation, it appears that surficial soil within the site contains antimony, arsenic, lead, mercury, and vanadium concentrations which exceed their respective background levels and residential ESLs, and in some cases their commercial/industrial ESLs and STLCs. Implementation of remedial activities to mitigate the impacted soil will typically be required prior to redevelopment of the site.

9.0 EXCLUSIONS

BGC assumes no responsibility or liability for the reliance hereon or use hereof of information contained in this report by anyone other than the party to whom it is addressed and the City of Pleasanton.

The evaluations and recommendations presented in this report are based on the limited site investigation results available at this time and could be revised if new information necessitating further review of the Site becomes available.

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 Transportation Corridor
 West Neal Street and Railroad Avenue
 Pleasanton, California

TABLE 1
 SOIL SAMPLE RESULTS - PETROLEUM HYDROCARBONS

Sample ID	Depth (feet)	TPHg (mg/kg)	TP Hd (mg/kg)	TPHmo (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	MTBE (mg/kg)
T-1A	1.5	3.2	17	130	0.0085	0.043	0.0064	0.088	<0.05 (1)/<0.005 (2)
T-1B	3.5	---	<1.0	<5.0	---	---	---	---	---
T-2A	1.0	<1.0	<1.0	<5.0	<0.005	<0.005	<0.005	<0.005	<0.05 (1)/<0.005 (2)
T-2B	3.0	---	<1.0	5.9	---	---	---	---	---
T-3A	1.0	---	<1.0	<5.0	---	---	---	---	---
T-4A	1.0	<1.0	<1.0	6.1	<0.005	<0.005	<0.005	<0.005	<0.05 (1)/<0.005 (2)
T-4B	3.0	---	<1.0	<5.0	---	---	---	---	---
T-5A	1.0	---	2.6	23	---	---	---	---	---
T-6A	2.0	<1.0	2.9	23	<0.005	<0.005	<0.005	<0.005	<0.05 (1)/<0.005 (2)
T-7A	1.0	<1.0	<1.0	<5.0	<0.005	<0.005	<0.005	<0.005	<0.05 (1)/<0.005 (2)
T-7B	3.0	---	<1.0	<5.0	---	---	---	---	---
T-8A	1.0	---	6.0	36	---	---	---	---	---
T-9A	1.0	---	4.8	39	---	---	---	---	---
T-10A	0.5	<1.0	2.0	10	<0.005	<0.005	<0.005	<0.005	<0.05 (1)/<0.005 (2)
T-10B	2.5	---	<1.0	<5.0	---	---	---	---	---
T-11A	0.75	---	1.6	13	---	---	---	---	---
T-12A	0.75	---	2.1	6.3	---	---	---	---	---
Residential ESL (3)		83	83	370	0.044	2.9	2.3	2.3	0.023
Commercial/Industrial ESL (3)		83	83	2,500	0.044	2.9	3.3	2.3	0.023

Notes:

1. Analyzed using EPA Method 8021B.
2. Analyzed using EPA Method 8260B.
3. Shallow soils (<3m bgs), where groundwater is a current or potential source of drinking water.

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 West Neal Street and Railroad Avenue
 Pleasanton, California

TABLE 2
 SOIL SAMPLE RESULTS - VOCs, SVOCs, ORGANOCHLORINE PESTICIDES, PCBs

Sample ID	Depth (feet)	VOCs (mg/kg)	SVOCs (mg/kg)	Organochlorine Pesticides (mg/kg)	PCBS (mg/kg)
T-1A	1.5	<0.005-0.1	<3.3-16	<0.005-0.25	<0.12
T-2A	1.0	<0.005-0.1	<0.33-1.6	<0.001-0.05	<0.025
T-4A	1.0	<0.005-0.1	<1.6-8.0	<0.002-0.10	<0.050
T-6A	2.0	<0.005-0.1	<1.6-8.0	<0.002-0.10	<0.050
T-7A	1.0	<0.005-0.1	<0.33-1.6	<0.001-0.05	<0.025
T-10A	0.5	<0.005-0.1	<0.33-1.6	<0.050-2.5	<1.2
Residential ESL (1)		---	---	---	0.22
Commercial/Industrial ESL (1)		---	---	---	0.74

Note:

1. Shallow soils (<3m bgs), where groundwater is a current or potential source of drinking water.

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 Transportation Corridor
 West Neal Street and Railroad Avenue
 Pleasanton, California

TABLE 3
 SOIL SAMPLE RESULTS - METALS

Sample ID	Depth (feet)	Antimony (mg/kg)	Arsenic (mg/kg)	Barium (mg/kg)	Beryllium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Cobalt (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Mercury (mg/kg)	Molybdenum (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Thallium (mg/kg)	Vanadium (mg/kg)	Zinc (mg/kg)
T-1A	1.5	13	88	210	<0.5	0.54	50	11	98	210	0.21	0.81	51	<0.5	<0.5	<0.5	61	160
T-1B	3.5	1.9	7.0	140	<0.5	<0.25	44	8.0	19	9.4	<0.05	<0.5	46	<0.5	<0.5	<0.5	35	41
T-2A	1.0	0.79	8.3	150	<0.5	<0.25	62	7.5	17	6.2	0.068	<0.5	45	<0.5	<0.5	<0.5	36	40
T-2B	3.0	28	67	130	<0.5	0.31	46	8.4	96	190	0.12	<0.5	55	<0.5	<0.5	<0.5	36	99
T-3A	1.0	<0.5	4.7	200	<0.5	<0.25	48	8.8	19	7.4	<0.05	<0.5	50	<0.5	<0.5	<0.5	39	46
T-4A	1.0	5.7	230	340	0.68	<0.25	40	9.5	98	44	0.15	0.70	46	<0.5	<0.5	<0.5	54	52
T-4B	3.0	0.84	22	180	<0.5	<0.25	46	8.8	19	6.3	<0.05	<0.5	51	<0.5	<0.5	<0.5	37	45
T-5A	1.0	0.56	4.8	150	<0.5	<0.25	49	8.0	21	8.3	<0.05	<0.5	49	<0.5	<0.5	<0.5	37	52
T-6A	2.0	5.3	110	140	<0.5	0.96	38	8.2	61	75	0.62	<0.5	51	<0.5	<0.5	<0.5	29	190
T-7A	1.0	6.1	250	200	<0.5	<0.25	45	9.4	30	28	0.087	<0.5	51	<0.5	<0.5	<0.5	41	58
T-7B	3.0	1.2	96	110	<0.5	<0.25	35	6.9	12	4.4	0.052	<0.5	33	<0.5	<0.5	<0.5	35	33
T-8A	1.0	4.7	60	160	<0.5	0.46	51	9.8	57	89	0.19	0.53	66	<0.5	<0.5	<0.5	36	140
T-9A	1.0	6.5	180	220	<0.5	0.83	42	9.2	48	89	2.0	0.54	54	<0.5	<0.5	<0.5	41	250
T-10A	0.5	6.7	72	110	<0.5	0.76	59	9.1	49	61	0.073	<0.5	53	<0.5	<0.5	<0.5	54	190
T-10B	2.5	0.59	6.7	200	0.50	<0.25	59	10	20	7.3	<0.05	<0.5	89	<0.5	<0.5	<0.5	46	48
T-11A	0.75	0.59	6.0	140	<0.5	<0.25	47	9.4	24	21	0.11	<0.5	50	<0.5	<0.5	<0.5	38	59
T-12A	0.75	3.0	4.4	150	<0.5	<0.25	38	6.6	21	69	0.12	<0.5	37	<0.5	<0.5	<0.5	29	43
Residential ESL (1)		6.3	0.39	750	4.0	1.7	750	40	230	200	1.3	40	150	10	20	1.3	16	600
Commercial/Industrial ESL (1)		40	1.6	1,500	8.0	7.4	750	80	230	750	10	40	150	10	40	16	200	600

Note:

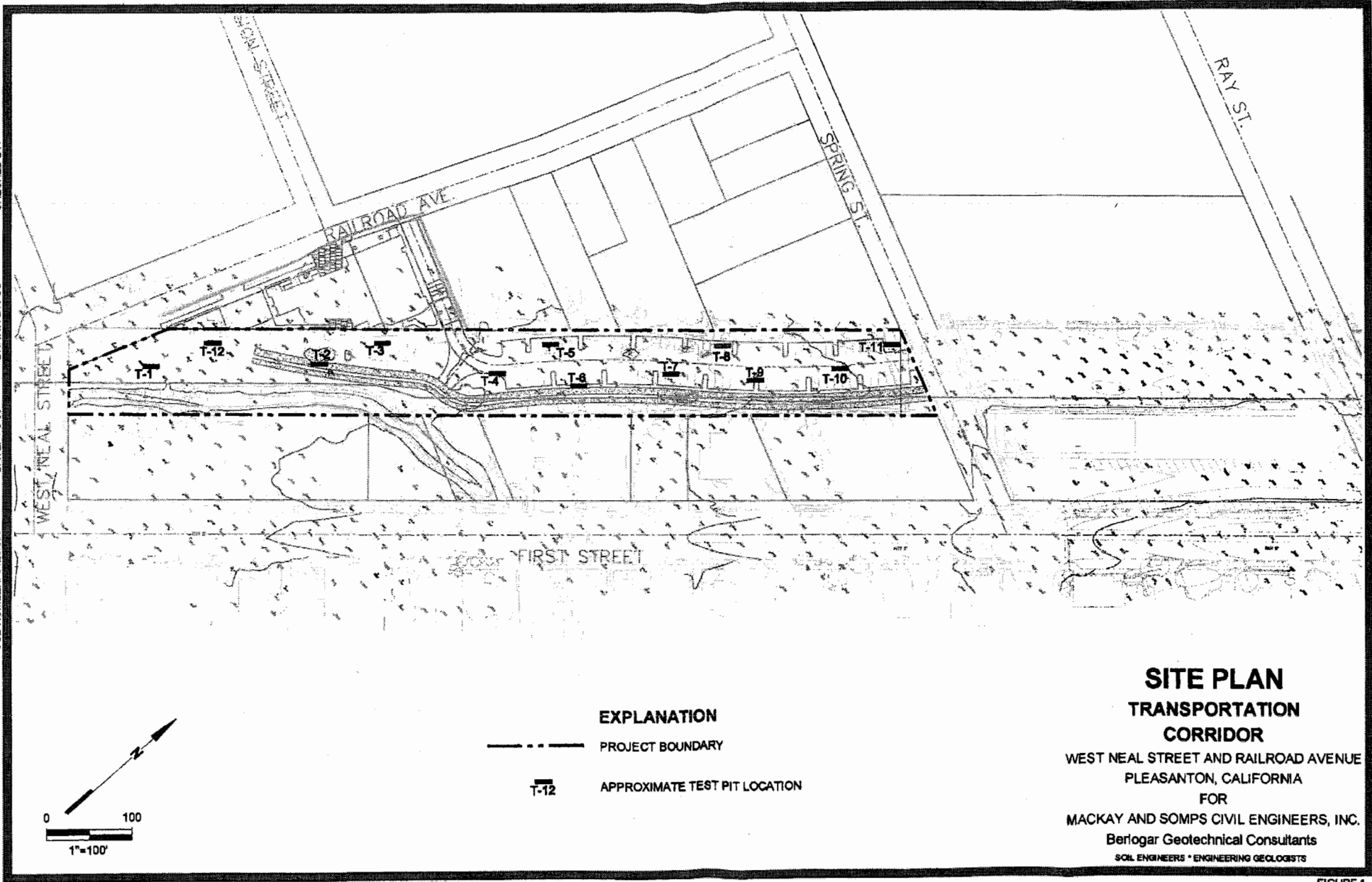
1 Shallow soils (<3m bgs), where groundwater is a current or potential source of drinking water

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West Neal Street and Railroad Avenue
Pleasanton, California

TABLE 4
SOIL SAMPLE RESULTS - STLC ARSENIC, CHROMIUM, LEAD

Sample ID	Depth (feet)	Arsenic (mg/L)	Chromium (mg/L)	Lead (mg/L)
T-1A	1.5	2.4	0.13	11
T-2A	1.0	0.17	<0.1	0.14
T-4A	1.0	11	<0.1	1.7
T-6A	2.0	3.6	<0.1	3.8
T-7A	1.0	11	<0.1	0.75
T-10A	0.5	1.8	<0.1	1.8

JOB NUMBER: 3126 003
DATE: 4-3-09
DRAWN BY: CC
CHECKED BY:



EXPLANATION

- PROJECT BOUNDARY
- T-12 APPROXIMATE TEST PIT LOCATION

**SITE PLAN
TRANSPORTATION
CORRIDOR**

WEST NEAL STREET AND RAILROAD AVENUE
PLEASANTON, CALIFORNIA
FOR
MACKAY AND SOMPS CIVIL ENGINEERS, INC.
Berlogar Geotechnical Consultants
SOIL ENGINEERS • ENGINEERING GEOLOGISTS

BASE: "PRELIMINARY PARKING LOT LAYOUT", PROVIDED BY MACKAY AND SOMPS, DATED 2/09

FIGURE 1

TEST PIT LOGS

<u>Test Pit Number</u>	<u>Depth (Inches)</u>	<u>Description</u>
T-1	0 – 7	Gravel, light gray-brown (FILL)
	7 – 8	Asphalt Concrete (FILL)
	8 – 18	Gravel, gray-brown (FILL)
	18 – 24	Clayey Silt/Sandy Silt, gray brown, sample (T-1A) taken between 18 and 24 inches
	24 – 42	Sandy Gravel, brown, fine-to-coarse gravel
	42 – 48	Gravelly Sand, brown, fine-to-coarse sand, fine-to-coarse gravel, sample (T-1B) taken between 42 and 48 inches.
		Total Depth 48 Inches
T-2	0 – 18	Sandy Gravel, dark gray to dark brown, fine-to-coarse sand, fine-to-coarse gravel (FILL), sample (T-2A) taken between 12 and 18 inches.
	18 – 42	Sandy Silt, light gray-brown, fine sand, sample (T-2B) taken between 36 and 42 inches.
		Total Depth 42 Inches
T-3	0 – 42	Silty Sand with Gravel, light gray-brown, fine sand, fine-to-coarse gravel, trace clay, samples (T-3A and T-3B) taken between 12 and 18 inches, and 30 and 36 inches, respectively.
		Total Depth 42 Inches
T-4	0 – 9	Gravel, light gray-brown, fine-to-coarse sand, fine-to-coarse gravel. (FILL)
	9 – 21	Gravelly Sand, dark gray, black, fine-to-coarse sand, fine-to-coarse gravel (FILL), Sample (T-4A) taken between 12 and 18 inches.
	21 – 42	Clayey Silt, light gray-brown, sample (T-4B) taken between 36 and 42 inches.
		Total Depth 42 Inches
T-5	0 – 18	Sandy Gravel, brown-gray, fine-to-coarse sand, fine-to-coarse gravel (FILL), sample (T-5A) taken between 12 and 18 inches.
	18 – 36	Silty Sand with Gravel, light brown, fine to medium sand, trace fine-to-coarse gravel, sample (T-5B) taken between 30 and 36 inches.
		Total Depth 36 feet

TEST PIT LOGS

<u>Test Pit Number</u>	<u>Depth (Inches)</u>	<u>Description</u>
T-6	0 – 18	Sandy Gravel, dark gray to dark brown, fine-to-coarse sand, fine-to-coarse gravel, wooden railroad ties with strong odor (FILL).
	18 – 42	Sandy Gravel, dark gray, fine-to-coarse sand, fine-to-coarse gravel (FILL), sample (T-6A) taken between 24 and 30 inches.
	42 – 48	Silty Sand, light gray-brown, fine-to-coarse sand, fine-to-coarse gravel, trace cobble, sample (T-6B) taken between 42 and 48 inches.
	Total Depth 48 inches	
T-7	0 – 12	Sandy Gravel, brown-gray, fine-to-coarse sand, fine-to-coarse gravel (FILL).
	12 – 18	Sandy Gravel with Clay, dark gray, black, fine-to-coarse sand, fine-to-coarse gravel (FILL), sample (T-7A) taken between 12 and 18 inches.
	18 – 42	Silty Sand/Sandy Silt, light gray-brown, fine to medium sand, trace fine gravel, sample (T-7B) between 36 and 42 inches.
	Total Depth 42 inches	
T-8	0 – 21	Sandy Gravel, gray, fine-to-coarse sand, fine-to-coarse gravel (FILL), sample (T-8A) taken between 12 and 18 inches.
	21 – 42	Sandy Silt with Clay, light gray-brown, fine sand, trace gravel, sample (T-8B) taken between 36 and 42 inches.
	Total Depth 42 inches	
T-9	0 – 18	Sandy Gravel, brown-gray, fine-to-coarse sand, fine-to-coarse gravel (FILL), sample (T-9A) taken between 12 and 18 inches.
	18 – 36	Sandy Clay with Silt, brown, fine-to-coarse sand, trace fine-to-coarse gravel, trace cobble, sample (T-9B) taken between 30 and 36 inches.
	Total Depth 36 inches	
T-10	0 – 12	Sandy Clay, gray, fine-to-coarse sand, fine-to-coarse gravel (FILL), sample (T-10A) taken between 6 and 12 inches.
	12 – 36	Sandy Clay/Clayey Silt, light brown, fine to medium sand, sample (T-10B) taken between 30 and 36 inches.
	Total Depth 36 inches	

TEST PIT LOGS

<u>Test Pit Number</u>	<u>Depth (inches)</u>	<u>Description</u>
T-11	0 – 15	Gravelly Clay, dark brown (FILL), sample (T-11A) taken between 9 and 15 inches.
	15 – 18	Gravelly Sand, light gray (FILL).
	18 – 30	Sandy Clay with Silt, brown.
	30 – 36	Silty Clay, light brown, sample (T-11B) taken between 30 and 36 inches.
	Total Depth 36 inches	
T-12	0 – 9	Sandy Gravel, gray, fine-to-coarse sand, fine-to-coarse gravel (FILL).
	9 – 15	Silty Sand, brown, fine-to-medium sand (FILL), sample (T-12A) taken between 9 and 15 inches.
	15 – 18	Sandy Clay, dark gray-brown (FILL).
	18 – 36	Silty Sand, brown, fine-to-medium sand, sample (T-12B) taken between 30 and 36 inches.
	Total Depth 36 inches	

APPENDIX

Laboratory Certificates



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mcccampbell.com E-mail: main@mcccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Berlogar Geotechnical Consultants 5587 Sunol Boulevard Pleasanton, CA 94566	Client Project ID: #3126.002; Transporation Corridor	Date Sampled: 03/19/09
	Client Contact: Peter Wei	Date Received: 03/20/09
	Client P.O.:	Date Extracted: 03/20/09
		Date Analyzed: 03/22/09

Organochlorine Pesticides (8080 Basic Target List) + PCBs*

Extraction Method: SW3550C

Analytical Method: SW8081A/8082A

Work Order: 0903536

Lab ID	0903536-003A			Reporting Limit for DF = 1	
Client ID	T-6A			S	W
Matrix	S				
DF	2				

Compound	Concentration	mg/kg	µg/L
Aldrin	ND<0.0020	0.001	NA
a-BHC	ND<0.0020	0.001	NA
b-BHC	ND<0.0020	0.001	NA
d-BHC	ND<0.0020	0.001	NA
g-BHC	ND<0.0020	0.001	NA
Chlordane (Technical)	ND<0.050	0.025	NA
a-Chlordane	ND<0.0020	0.001	NA
g-Chlordane	ND<0.0020	0.001	NA
p,p-DDD	ND<0.0020	0.001	NA
p,p-DDE	ND<0.0020	0.001	NA
p,p-DDT	ND<0.0020	0.001	NA
Dieldrin	ND<0.0020	0.001	NA
Endosulfan I	ND<0.0020	0.001	NA
Endosulfan II	ND<0.0020	0.001	NA
Endosulfan sulfate	ND<0.0020	0.001	NA
Endrin	ND<0.0020	0.001	NA
Endrin aldehyde	ND<0.0020	0.001	NA
Heptachlor	ND<0.0020	0.001	NA
Heptachlor epoxide	ND<0.0020	0.001	NA
Hexachlorobenzene	ND<0.020	0.01	NA
Hexachlorocyclopentadiene	ND<0.040	0.02	NA
Methoxychlor	ND<0.0020	0.001	NA
Toxaphene	ND<0.10	0.05	NA
Aroclor1016	ND<0.050	0.025	NA
Aroclor1221	ND<0.050	0.025	NA
Aroclor1232	ND<0.050	0.025	NA
Aroclor1242	ND<0.050	0.025	NA
Aroclor1248	ND<0.050	0.025	NA
Aroclor1254	ND<0.050	0.025	NA
Aroclor1260	ND<0.050	0.025	NA
PCBs, (total)	ND<0.050	0.025	NA

Surrogate Recoveries (%)

%SS:	85		
Comments	a3		

* water samples in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

a3) sample diluted due to high organic content.



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Berlogar Geotechnical Consultants 5587 Sunol Boulevard Pleasanton, CA 94566	Client Project ID: #3126.002;	Date Sampled: 03/19/09
	Transporation Corridor	Date Received: 03/20/09
	Client Contact: Peter Wei	Date Extracted: 03/20/09
	Client P.O.:	Date Analyzed: 03/23/09

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0903536

Lab ID	0903536-003A
Client ID	T-6A
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.05
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	Chloroform	ND	1.0	0.005
Chloromethane	ND	1.0	0.005	2-Chlorotoluene	ND	1.0	0.005
4-Chlorotoluene	ND	1.0	0.005	Dibromochloromethane	ND	1.0	0.005
1,2-Dibromo-3-chloropropane	ND	1.0	0.004	1,2-Dibromoethane (EDB)	ND	1.0	0.004
Dibromomethane	ND	1.0	0.005	1,2-Dichlorobenzene	ND	1.0	0.005
1,3-Dichlorobenzene	ND	1.0	0.005	1,4-Dichlorobenzene	ND	1.0	0.005
Dichlorodifluoromethane	ND	1.0	0.005	1,1-Dichloroethane	ND	1.0	0.005
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.004	1,1-Dichloroethene	ND	1.0	0.005
cis-1,2-Dichloroethene	ND	1.0	0.005	trans-1,2-Dichloroethene	ND	1.0	0.005
1,2-Dichloropropane	ND	1.0	0.005	1,3-Dichloropropane	ND	1.0	0.005
2,2-Dichloropropane	ND	1.0	0.005	1,1-Dichloropropene	ND	1.0	0.005
cis-1,3-Dichloropropene	ND	1.0	0.005	trans-1,3-Dichloropropene	ND	1.0	0.005
Diisopropyl ether (DIPE)	ND	1.0	0.005	Ethylbenzene	ND	1.0	0.005
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005	Freon 113	ND	1.0	0.1
Hexachlorobutadiene	ND	1.0	0.005	Hexachloroethane	ND	1.0	0.005
2-Hexanone	ND	1.0	0.005	Isopropylbenzene	ND	1.0	0.005
4-Isopropyl toluene	ND	1.0	0.005	Methyl-t-butyl ether (MTBE)	ND	1.0	0.005
Methylene chloride	ND	1.0	0.005	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005
Naphthalene	ND	1.0	0.005	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,2,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes	ND	1.0	0.005

Surrogate Recoveries (%)

%SS1:	76	%SS2:	114
%SS3:	88		

Comments:

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.



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Berlogar Geotechnical Consultants 5587 Sunol Boulevard Pleasanton, CA 94566	Client Project ID: #3126.002; Transportation Corridor	Date Sampled: 03/19/09
	Client Contact: Peter Wei	Date Received: 03/20/09
	Client P.O.:	Date Extracted: 03/20/09
		Date Analyzed: 03/25/09

Semi-Volatile Organics by GC/MS (Basic Target List)*

Extraction Method: SW3550C

Analytical Method: SW8270C

Work Order: 0901536

Lab ID	0903536-003A
Client ID	T-6A
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acenaphthene	ND<1.6	5.0	0.33	Acenaphthylene	ND<1.6	5.0	0.33
Acetochlor	ND<1.6	5.0	0.33	Anthracene	ND<1.6	5.0	0.33
Benzidine	ND<8.0	5.0	1.6	Benzoic Acid	ND<8.0	5.0	1.6
Benzo(a)anthracene	ND<1.6	5.0	0.33	Benzo(b)fluoranthene	ND<1.6	5.0	0.33
Benzo(k)fluoranthene	ND<1.6	5.0	0.33	Benzo(g,h,i)perylene	ND<1.6	5.0	0.33
Benzo(a)pyrene	ND<1.6	5.0	0.33	Benzyl Alcohol	ND<8.0	5.0	1.6
1,1-Biphenyl	ND<1.6	5.0	0.33	Bis (2-chloroethoxy) Methane	ND<1.6	5.0	0.33
Bis (2-chloroethyl) Ether	ND<1.6	5.0	0.33	Bis (2-chloroisopropyl) Ether	ND<1.6	5.0	0.33
Bis (2-ethylhexyl) Phthalate	ND<1.6	5.0	0.33	4-Bromophenyl Phenyl Ether	ND<1.6	5.0	0.33
Butylbenzyl Phthalate	ND<1.6	5.0	0.33	4-Chloroaniline	ND<3.3	5.0	0.66
4-Chloro-3-methylphenol	ND<1.6	5.0	0.33	2-Chloronaphthalene	ND<1.6	5.0	0.33
2-Chlorophenol	ND<1.6	5.0	0.33	4-Chlorophenyl Phenyl Ether	ND<1.6	5.0	0.33
Chrysene	ND<1.6	5.0	0.33	Dibenzo(a,h)anthracene	ND<1.6	5.0	0.33
Dibenzofuran	ND<1.6	5.0	0.33	Di-n-butyl Phthalate	ND<1.6	5.0	0.33
1,2-Dichlorobenzene	ND<1.6	5.0	0.33	1,3-Dichlorobenzene	ND<1.6	5.0	0.33
1,4-Dichlorobenzene	ND<1.6	5.0	0.33	3,3-Dichlorobenzidine	ND<3.3	5.0	0.66
2,4-Dichlorophenol	ND<1.6	5.0	0.33	Diethyl Phthalate	ND<1.6	5.0	0.33
2,4-Dimethylphenol	ND<1.6	5.0	0.33	Dimethyl Phthalate	ND<1.6	5.0	0.33
4,6-Dinitro-2-methylphenol	ND<8.0	5.0	1.6	2,4-Dinitrophenol	ND<8.0	5.0	1.6
2,4-Dinitrotoluene	ND<1.6	5.0	0.33	2,6-Dinitrotoluene	ND<1.6	5.0	0.33
Di-n-octyl Phthalate	ND<1.6	5.0	0.33	1,2-Diphenylhydrazine	ND<1.6	5.0	0.33
Fluoranthene	ND<1.6	5.0	0.33	Fluorene	ND<1.6	5.0	0.33
Hexachlorobenzene	ND<1.6	5.0	0.33	Hexachlorobutadiene	ND<1.6	5.0	0.33
Hexachlorocyclopentadiene	ND<8.0	5.0	1.6	Hexachloroethane	ND<1.6	5.0	0.33
Indeno (1,2,3-cd) pyrene	ND<1.6	5.0	0.33	Isophorone	ND<1.6	5.0	0.33
2-Methylnaphthalene	ND<1.6	5.0	0.33	2-Methylphenol (o-Cresol)	ND<1.6	5.0	0.33
3 &/or 4-Methylphenol (m,p-Cresol)	ND<1.6	5.0	0.33	Naphthalene	ND<1.6	5.0	0.33
2-Nitroaniline	ND<8.0	5.0	1.6	3-Nitroaniline	ND<8.0	5.0	1.6
4-Nitroaniline	ND<8.0	5.0	1.6	Nitrobenzene	ND<1.6	5.0	0.33
2-Nitrophenol	ND<8.0	5.0	1.6	4-Nitrophenol	ND<8.0	5.0	1.6
N-Nitrosodiphenylamine	ND<1.6	5.0	0.33	N-Nitrosodi-n-propylamine	ND<1.6	5.0	0.33
Pentachlorophenol	ND<8.0	5.0	1.6	Phenanthrene	ND<1.6	5.0	0.33
Phenol	ND<1.6	5.0	0.33	Pyrene	ND<1.6	5.0	0.33
1,2,4-Trichlorobenzene	ND<1.6	5.0	0.33	2,4,5-Trichlorophenol	ND<1.6	5.0	0.33
2,4,6-Trichlorophenol	ND<1.6	5.0	0.33				

Surrogate Recoveries (%)

%SS1:	90	%SS2:	104
%SS3:	95	%SS4:	98
%SS5:	92	%SS6:	78

Comments: a3

* water samples in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

#) surrogate diluted out of range; &) low or no surrogate due to matrix interference.

a3) sample diluted due to high organic content.



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Berlogar Geotechnical Consultants 5587 Sunol Boulevard Pleasanton, CA 94566	Client Project ID: #3126.002: Transporation Corridor	Date Sampled: 03/19/09
	Client Contact: Peter Wei	Date Received 03/20/09
	Client P.O.:	Date Extracted 03/20/09
		Date Analyzed 03/24/09

CAM / CCR 17 Metals*

Lab ID	0903536-003A				Reporting Limit for DF = 1: ND means not detected above the reporting limit	
Client ID	T-6A				S	W
Matrix	S				mg/kg	mg/L
Extraction Type	TOTAL					

ICP-MS Metals, Concentration*

Analytical Method: 6020A

Extraction Method: SW3050B

Work Order: 0903536

Dilution Factor	1			1	1
Antimony	5.3			0.5	NA
Arsenic	110			0.5	NA
Barium	140		*	5.0	NA
Beryllium	ND			0.5	NA
Cadmium	0.96			0.25	NA
Chromium	36			0.5	NA
Cobalt	8.2			0.5	NA
Copper	61			0.5	NA
Lead	75			0.5	NA
Mercury	0.62			0.05	NA
Molybdenum	ND			0.5	NA
Nickel	51			0.5	NA
Selenium	ND			0.5	NA
Silver	ND			0.5	NA
Thallium	ND			0.5	NA
Vanadium	29			0.5	NA
Zinc	190			5.0	NA
%SS:	91				

Comments

*water samples are reported in µg/L, product/oil/non-aqueous liquid samples and all TCLP / STLC / DISTLC / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter.

means surrogate diluted out of range; ND means not detected above the reporting limit; N/A means not applicable to this sample or instrument.

TOTAL = acid digestion.

WET = Waste Extraction Test (STLC).

DI WET = Waste Extraction Test using de-ionized water.



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Berlogar Geotechnical Consultants 5587 Sunol Boulevard Pleasanton, CA 94566	Client Project ID: #3126.002; Transporation Corridor	Date Sampled: 03/19/09
	Client Contact: Peter Wei	Date Received: 03/20/09
	Client P.O.:	Date Extracted: 03/20/09
		Date Analyzed 03/21/09

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extraction method SW5030B

Analytical methods SW8021B/8015Bm

Work Order: 0903536

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
003A	T-6A	S	ND	ND	ND	ND	ND	ND	1	86

Reporting Limit for DF = 1; ND means not detected at or above the reporting limit	W	50	5.0	0.5	0.5	0.5	0.5	0.5	ug/L
	S	1	0.05	0.005	0.005	0.005	0.005	0.005	mg/Kg

* water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference.

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation:



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Berlogar Geotechnical Consultants 5587 Sunol Boulevard Pleasanton, CA 94566	Client Project ID: #3126.002; Transporation Corridor	Date Sampled: 03/19/09
	Client Contact: Peter Wei	Date Received: 03/20/09
	Client P.O.:	Date Extracted: 03/20/09
		Date Analyzed: 03/24/09

Total Extractable Petroleum Hydrocarbons*

Extraction method: SW3550C

Analytical methods: SW8015B

Work Order: 0903536

Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	TPH-Motor Oil (C18-C36)	DF	% SS
0903536-003A	T-6A	S	2.9,e7,e2	23	1	102

Reporting Limit for DF = 1; ND means not detected at or above the reporting limit	W	NA	NA	ug/L
	S	1.0	5.0	mg/Kg

* water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

-The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation:

- e2) diesel range compounds are significant; no recognizable pattern
- e7) oil range compounds are significant



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QC SUMMARY REPORT FOR SW8081A/8082A

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 42132

WorkOrder 0903536

Analyte	EPA Method SW8081A/8082A Extraction SW3550C								Spiked Sample ID: 0903461-004A			
	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/kg	mg/kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Aldrin	ND	0.010	91.4	91.5	0.0984	98.8	102	3.52	70 - 130	30	70 - 130	30
g-BHC	ND	0.010	105	105	0	100	103	2.85	70 - 130	30	70 - 130	30
p,p-DDT	ND	0.025	101	101	0	102	106	4.00	70 - 130	30	70 - 130	30
Dieldrin	ND	0.025	106	106	0	111	113	1.80	70 - 130	30	70 - 130	30
Endrin	ND	0.025	87.9	79.2	10.4	101	102	1.39	70 - 130	30	70 - 130	30
Heptachlor	ND	0.010	83	82.6	0.488	91.4	95.1	3.93	70 - 130	30	70 - 130	30
%SS:	117	0.050	127	126	1.14	95.8	99.4	3.71	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 42132 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0903536-003A	03/19/09	03/20/09	03/22/09 9:37 AM				


MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

 QA/QC Officer



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QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 42179

WorkOrder 0903536

EPA Method SW8260B		Extraction SW5030B							Spiked Sample ID: 0903536-003A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
tert-Amyl methyl ether (TAME)	ND	0.050	81.7	83.1	1.72	87.8	87.1	0.773	60 - 130	30	60 - 130	30
Benzene	ND	0.050	116	118	2.20	107	107	0	60 - 130	30	60 - 130	30
1-Butyl alcohol (TBA)	ND	0.25	82.7	82.4	0.452	113	109	3.73	60 - 130	30	60 - 130	30
Chlorobenzene	ND	0.050	104	106	1.84	103	102	1.18	60 - 130	30	60 - 130	30
1,2-Dibromoethane (EDB)	ND	0.050	96.2	100	3.94	94.9	96.6	1.81	60 - 130	30	60 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	0.050	108	111	3.04	98.1	97.5	0.619	60 - 130	30	60 - 130	30
1,1-Dichloroethene	ND	0.050	99.9	97.5	2.50	73	72.1	1.21	60 - 130	30	60 - 130	30
Diisopropyl ether (DIPE)	ND	0.050	105	106	1.72	96.1	96.3	0.212	60 - 130	30	60 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	0.050	105	108	3.13	108	107	0.988	60 - 130	30	60 - 130	30
Methyl-t-butyl ether (MTBE)	ND	0.050	94.4	97.1	2.89	102	101	0.751	60 - 130	30	60 - 130	30
Toluene	ND	0.050	118	118	0	105	105	0	60 - 130	30	60 - 130	30
Trichloroethene	ND	0.050	119	119	0	103	102	1.13	60 - 130	30	60 - 130	30
%SS1:	76	0.12	77	78	1.15	77	77	0	70 - 130	30	70 - 130	30
%SS2:	114	0.12	108	107	0.465	98	99	0.112	70 - 130	30	70 - 130	30
%SS3:	88	0.012	79	77	2.26	86	89	2.66	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 42179 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0903536-003A	03/19/09	03/20/09	03/23/09 1:39 PM	0903536-003A	03/19/09	03/20/09	03/23/09 5:30 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2)

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.



QC SUMMARY REPORT FOR SW8270C

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 42115

WorkOrder 0903536

Table with columns: EPA Method SW8270C, Extraction SW3550C, Spiked Sample ID: 0903437-003A, Analyte, Sample mg/Kg, Spiked mg/Kg, MS % Rec, MSD % Rec, MS-MSD % RPD, LCS % Rec, LCSD % Rec, LCS-LCSD % RPD, and Acceptance Criteria (%).

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 42115 SUMMARY

Summary table with columns: Lab ID, Date Sampled, Date Extracted, Date Analyzed, Lab ID, Date Sampled, Date Extracted, Date Analyzed.

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

#) surrogate diluted out of range; & = low or no recovery of surrogate or target analytes due to matrix interference.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.



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QC SUMMARY REPORT FOR 6020A

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder: 0903536

EPA Method: 6020A		Extraction: SW3050B				BatchID: 42202			Spiked Sample ID: 0903535-005A				
Analyte	Sample	Spiked	MS	MSD	MS-MSD	Spiked	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	mg/Kg	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Antimony	6.7	50	97.8	95.3	2.31	10	98.8	99.2	0.364	75 - 125	20	75 - 125	20
Arsenic	72	50	NR	NR	NR	10	105	105	0	75 - 125	20	75 - 125	20
Barium	110	500	95.1	92.3	2.45	100	100	100	0	75 - 125	20	75 - 125	20
Beryllium	ND	50	93.1	92.5	0.687	10	97.2	97.6	0.431	75 - 125	20	75 - 125	20
Cadmium	0.76	50	99.4	97.4	1.98	10	99.7	99.5	0.211	75 - 125	20	75 - 125	20
Chromium	59	50	NR	NR	NR	10	103	104	1.36	75 - 125	20	75 - 125	20
Cobalt	9.1	50	98	96.2	1.54	10	101	102	1.08	75 - 125	20	75 - 125	20
Copper	49	50	98.2	88.9	4.89	10	97.6	99.1	1.53	75 - 125	20	75 - 125	20
Lead	61	50	NR	NR	NR	10	99.4	101	1.59	75 - 125	20	75 - 125	20
Mercury	0.073	1.25	111	110	1.58	0.25	115	117	1.69	75 - 125	20	75 - 125	20
Molybdenum	ND	50	99.7	97.1	2.62	10	99.1	99.7	0.624	75 - 125	20	75 - 125	20
Nickel	53	50	NR	NR	NR	10	103	104	0.967	75 - 125	20	75 - 125	20
Selenium	ND	50	102	100	1.89	10	104	104	0	75 - 125	20	75 - 125	20
Silver	ND	50	110	108	1.89	10	97.9	97.5	0.440	75 - 125	20	75 - 125	20
Thallium	ND	50	95.2	93.5	1.78	10	93.4	94.9	1.56	75 - 125	20	75 - 125	20
Vanadium	54	50	NR	NR	NR	10	103	104	1.16	75 - 125	20	75 - 125	20
Zinc	190	500	103	97.2	4.56	100	104	106	1.53	75 - 125	20	75 - 125	20
%SS:	105	250	99	96	3.20	250	98	98	0	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 42202 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0903536-003A	03/19/09	03/20/09	03/24/09 7:02 AM	0903536-003A	03/19/09	03/20/09	03/24/09 7:43 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



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QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 42201

WorkOrder 0903536

EPA Method SW8021B/8015Bm		Extraction SW5030B							Spiked Sample ID: 0903534-013A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex) ^f	ND	0.60	105	95.8	8.84	93.8	97.5	3.90	70 - 130	20	70 - 130	20
MTBE	ND	0.10	106	96.5	9.69	99.4	96.4	3.06	70 - 130	20	70 - 130	20
Benzene	ND	0.10	97.8	92.6	5.39	94.4	94.9	0.548	70 - 130	20	70 - 130	20
Toluene	ND	0.10	86.6	82.2	5.30	83	84.2	1.47	70 - 130	20	70 - 130	20
Ethylbenzene	ND	0.10	95.6	89.9	6.12	91.6	94.3	2.86	70 - 130	20	70 - 130	20
Xylenes	ND	0.30	90.5	88.9	1.85	84.4	90.8	7.29	70 - 130	20	70 - 130	20
%SS:	97	0.10	72	76	5.10	77	81	4.74	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 42201 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0903536-003A	03/19/09	03/20/09	03/21/09 12:20 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

E TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate

NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



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QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 42182

WorkOrder 0903536

EPA Method SW8015B		Extraction SW3550C							Spiked Sample ID: 0903415-001A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH-Diesel (C10-C23)	620	20	NR	NR	NR	117	118	0.651	70 - 130	30	70 - 130	30
%SS:	99	50	99	97	2.09	104	104	0	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 42182 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0903536-003A	03/19/09	03/20/09	03/24/09 3:31 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.


% Recovery = $100 * (MS - Sample) / (Amount Spiked)$; RPD = $100 * (MS - MSD) / ((MS + MSD) / 2)$.

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS ELAP Certification 1644

 QA/QC Officer

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0903536

CHAIN OF CUSTODY RECORD

TURN AROUND TIME

RESULTS: 24 HR 48 HR 72 HR 100%

GeoTracker EDF PDF Excel Write On (DW)

Report To: Peter W. Bill To: Same
Company: Berlagor Spectrochemical Consultants
6087 Laurel Blvd
Pleasanton, CA 94566 E-Mail: pw@berlagor.com
Tele: 725-874-7220 Fax: 725-874-7643
Project #: 3126-002 Project Name: Trip Report
Project Location: Pleasanton
Sampler Signature: [Signature]

Analysis Request Other Comments

Filter Samples for Metals analysis: Yes No
Hold

SAMPLE ID	LOCATION Field Point Name	SAMPLING		# Containers	Type Containers	MATRIX				METHOD PRESERVED			
		Date	Time			Water	Soil	Air	Sludge	Other	ICE	HCl	HNO ₃
T-3A		3-19-09				✓							
T-5A						✓							
T-6A						✓							
T-8A						✓							
T-9A						✓							
T-11A						✓							
T-12A						✓							

MTBE BTEX & TPH as Gas (M02 - M02) (M05)	MTBE BTEX ONLY (EPA M02 - M02)	PH in Diesel - Motor Oil (M05)	Total Petroleum (M06 & Grease (M04 - M20) (M05)	Total Petroleum Hydrocarbons (M18)	EPA M22 - M01 - M01 - M02 (M18)	EPA M05 - M06 - M08 (M18) (EPA M05 + PCBs)	EPA M08 / M02 PAHs ONLY - Acetone / Toluene	EPA M07 - M11 (NP Pesticides)	EPA M15 - M15 (Acetic Chloroform)	EPA M21 - M21 - M20 (M05)	EPA M22 - M22 - M20 (M05)	EPA M20 - M20 - M10 (M05) (M05)	CAMP Metals (M06 - M06 - M01) (M05)	EPA M25 (M06 - M06 - M01) (M05)	EPA M26 - M26 - M08 (M05) (M05)
✓	✓		✓			✓			✓	✓		✓			

Relinquished By: <u>[Signature]</u>	Date: <u>3/20/09</u>	Time: <u>2:15</u>	Received By: <u>[Signature]</u>
Relinquished By: <u>[Signature]</u>	Date: <u>3/20/09</u>	Time: <u>6:00</u>	Received By: <u>[Signature]</u>
Relinquished By:	Date:	Time:	Received By:

ICER: YES 1905
GOOD CONDITION ✓
HEAD SPACE ABSENT ✓
DECONTAMINATED IN LAB ✓
APPROPRIATE CONTAINERS ✓
PRESERVED IN LAB ✓
COMMENTS:
VOAS O&G METALS OTHER
PRESERVATION pH-2

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 Pittsburg, CA 94565-1701
 (925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0903536

ClientCode: BGCP

WriteOn EDF Excel Fax Email HardCopy ThirdParty J-flag

Report to:

Peter Wei
 Berlogar Geotechnical Consultants
 5587 Sunol Boulevard
 Pleasanton, CA 94566
 (925) 484-0220 FAX (925) 846-9645

Email: pwei@berlogar.com
 cc:
 PO:
 ProjectNo: #3126.002; Transportation Corridor

Bill to:

Bill Stevens
 Berlogar Geotechnical Consultants
 5587 Sunol Boulevard
 Pleasanton, CA 94566

Requested TAT: 5 days

Date Received: 03/20/2009

Date Printed: 03/20/2009

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
0903536-003	T-6A	Soil	3/19/2009	<input type="checkbox"/>	A	A	A	A	A	A							

Test Legend:

1	8081PCB S	2	8260B S	3	8270D S	4	CAM17MS S	5	G-MBTX S
6	TPH(DMO) S	7		8		9		10	
11		12							

Prepared by: Samantha Arbuckle

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
 Hazardous samples will be returned to client or disposed of at client expense.



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Berlogar Geotechnical Consultants 5587 Sunol Boulevard Pleasanton, CA 94566	Client Project ID: #3126.002: Transporation Corridor	Date Sampled: 03/19/09
	Client Contact: Peter Wei	Date Received: 03/20/09
	Client P.O.:	Date Extracted: 03/20/09
		Date Analyzed: 03/22/09

Organochlorine Pesticides (8080 Basic Target List) + PCBs*

Extraction Method: SW3550C

Analytical Method: SW8081A/8082A

Work Order: 0903535

Lab ID	0903535-001A	0903535-002A	0903535-003A	0903535-004A	Reporting Limit for DF = 1	
Client ID	T-1A	T-2A	T-4A	T-7A	S	W
Matrix	S	S	S	S		
DF	5	1	2	1		

Compound	Concentration				mg/kg	µg/L
Aldrin	ND<0.0050	ND	ND<0.0020	ND	0.001	NA
a-BHC	ND<0.0050	ND	ND<0.0020	ND	0.001	NA
b-BHC	ND<0.0050	ND	ND<0.0020	ND	0.001	NA
d-BHC	ND<0.0050	ND	ND<0.0020	ND	0.001	NA
g-BHC	ND<0.0050	ND	ND<0.0020	ND	0.001	NA
Chlordane (Technical)	ND<0.12	ND	ND<0.050	ND	0.025	NA
a-Chlordane	ND<0.0050	ND	ND<0.0020	ND	0.001	NA
g-Chlordane	ND<0.0050	ND	ND<0.0020	ND	0.001	NA
p,p-DDD	ND<0.0050	ND	ND<0.0020	ND	0.001	NA
p,p-DDE	ND<0.0050	ND	ND<0.0020	ND	0.001	NA
p,p-DDT	ND<0.0050	ND	ND<0.0020	ND	0.001	NA
Dieldrin	ND<0.0050	ND	ND<0.0020	ND	0.001	NA
Endosulfan I	ND<0.0050	ND	ND<0.0020	ND	0.001	NA
Endosulfan II	ND<0.0050	ND	ND<0.0020	ND	0.001	NA
Endosulfan sulfate	ND<0.0050	ND	ND<0.0020	ND	0.001	NA
Endrin	ND<0.0050	ND	ND<0.0020	ND	0.001	NA
Endrin aldehyde	ND<0.0050	ND	ND<0.0020	ND	0.001	NA
Heptachlor	ND<0.0050	ND	ND<0.0020	ND	0.001	NA
Heptachlor epoxide	ND<0.0050	ND	ND<0.0020	ND	0.001	NA
Hexachlorobenzene	ND<0.050	ND	ND<0.020	ND	0.01	NA
Hexachlorocyclopentadiene	ND<0.10	ND	ND<0.040	ND	0.02	NA
Methoxychlor	ND<0.0050	ND	ND<0.0020	ND	0.001	NA
Toxaphene	ND<0.25	ND	ND<0.10	ND	0.05	NA
Aroclor1016	ND<0.12	ND	ND<0.050	ND	0.025	NA
Aroclor1221	ND<0.12	ND	ND<0.050	ND	0.025	NA
Aroclor1232	ND<0.12	ND	ND<0.050	ND	0.025	NA
Aroclor1242	ND<0.12	ND	ND<0.050	ND	0.025	NA
Aroclor1248	ND<0.12	ND	ND<0.050	ND	0.025	NA
Aroclor1254	ND<0.12	ND	ND<0.050	ND	0.025	NA
Aroclor1260	ND<0.12	ND	ND<0.050	ND	0.025	NA
PCBs, total	ND<0.12	ND	ND<0.050	ND	0.025	NA

Surrogate Recoveries (%)

%SS:	83	91	89	92
Comments	a3		a3	

* water samples in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

a3) sample diluted due to high organic content.



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Berlogar Geotechnical Consultants 5587 Sunol Boulevard Pleasanton, CA 94566	Client Project ID: #3126.002; Transporation Corridor	Date Sampled: 03/19/09
	Client Contact: Peter Wei	Date Received: 03/20/09
	Client P.O.:	Date Extracted: 03/20/09
		Date Analyzed: 03/22/09

Organochlorine Pesticides (8080 Basic Target List) + PCBs*

Extraction Method: SW3550C

Analytical Method: SW8081A/8082A

Work Order: 0903535

Lab ID	0903535-005A				Reporting Limit for DF = 1	
Client ID	T-10A				S	W
Matrix	S					
DF	50					

Compound	Concentration	mg/kg	µg/L
Aldrin	ND<0.050	0.001	NA
α-BHC	ND<0.050	0.001	NA
β-BHC	ND<0.050	0.001	NA
δ-BHC	ND<0.050	0.001	NA
γ-BHC	ND<0.050	0.001	NA
Chlordane (Technical)	ND<1.2	0.025	NA
α-Chlordane	ND<0.050	0.001	NA
γ-Chlordane	ND<0.050	0.001	NA
p,p-DDD	ND<0.050	0.001	NA
p,p-DDE	ND<0.050	0.001	NA
p,p-DDT	ND<0.050	0.001	NA
Dieldrin	ND<0.050	0.001	NA
Endosulfan I	ND<0.050	0.001	NA
Endosulfan II	ND<0.050	0.001	NA
Endosulfan sulfate	ND<0.050	0.001	NA
Endrin	ND<0.050	0.001	NA
Endrin aldehyde	ND<0.050	0.001	NA
Heptachlor	ND<0.050	0.001	NA
Heptachlor epoxide	ND<0.050	0.001	NA
Hexachlorobenzene	ND<0.50	0.01	NA
Hexachlorocyclopentadiene	ND<1.0	0.02	NA
Methoxychlor	ND<0.050	0.001	NA
Toxaphene	ND<2.5	0.05	NA
Aroclor1016	ND<1.2	0.025	NA
Aroclor1221	ND<1.2	0.025	NA
Aroclor1232	ND<1.2	0.025	NA
Aroclor1242	ND<1.2	0.025	NA
Aroclor1248	ND<1.2	0.025	NA
Aroclor1254	ND<1.2	0.025	NA
Aroclor1260	ND<1.2	0.025	NA
PCBs, total	ND<1.2	0.025	NA

Surrogate Recoveries (%)

%SS:	104		
Comments	a3		

* water samples in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

a3) sample diluted due to high organic content.



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Berlogar Geotechnical Consultants 5587 Sunol Boulevard Pleasanton, CA 94566	Client Project ID: #3126.002; Transportation Corridor	Date Sampled: 03/19/09
	Client Contact: Peter Wei	Date Received: 03/20/09
	Client P.O.:	Date Extracted: 03/20/09
		Date Analyzed: 03/25/09

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW8303B

Analytical Method: SW8260B

Work Order: 0903535

Lab ID	0903535-001A						
Client ID	T-1A						
Matrix	Soil						
Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.05
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	Chloroform	ND	1.0	0.005
Chloromethane	ND	1.0	0.005	2-Chlorotoluene	ND	1.0	0.005
4-Chlorotoluene	ND	1.0	0.005	Dibromochloromethane	ND	1.0	0.005
1,2-Dibromo-3-chloropropane	ND	1.0	0.004	1,2-Dibromoethane (EDB)	ND	1.0	0.004
Dibromomethane	ND	1.0	0.005	1,2-Dichlorobenzene	ND	1.0	0.005
1,3-Dichlorobenzene	ND	1.0	0.005	1,4-Dichlorobenzene	ND	1.0	0.005
Dichlorodifluoromethane	ND	1.0	0.005	1,1-Dichloroethane	ND	1.0	0.005
1,2-Dichloroethane (1,2-DC A)	ND	1.0	0.004	1,1-Dichloroethene	ND	1.0	0.005
cis-1,2-Dichloroethene	ND	1.0	0.005	trans-1,2-Dichloroethene	ND	1.0	0.005
1,2-Dichloropropane	ND	1.0	0.005	1,3-Dichloropropane	ND	1.0	0.005
2,2-Dichloropropane	ND	1.0	0.005	1,1-Dichloropropene	ND	1.0	0.005
cis-1,3-Dichloropropene	ND	1.0	0.005	trans-1,3-Dichloropropene	ND	1.0	0.005
Diisopropyl ether (DIPE)	ND	1.0	0.005	Ethylbenzene	ND	1.0	0.005
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005	Freon 113	ND	1.0	0.1
Hexachlorobutadiene	ND	1.0	0.005	Hexachloroethane	ND	1.0	0.005
2-Hexanone	ND	1.0	0.005	Isopropylbenzene	ND	1.0	0.005
4-Isopropyl toluene	ND	1.0	0.005	Methyl-(t-butyl) ether (MTBE)	ND	1.0	0.005
Methylene chloride	ND	1.0	0.005	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005
Naphthalene	ND	1.0	0.005	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,2,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes	ND	1.0	0.005

Surrogate Recoveries (%)

%SS1:	89	%SS2:	102
%SS3:	128		

Comments:

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.



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Berlogar Geotechnical Consultants 5587 Sunol Boulevard Pleasanton, CA 94566	Client Project ID: #3126.002:	Date Sampled: 03/19/09
	Transporation Corridor	Date Received: 03/20/09
	Client Contact: Peter Wei	Date Extracted: 03/20/09
	Client P.O.:	Date Analyzed 03/25/09

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0903535

Lab ID	0903535-002A
Client ID	T-2A
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.05
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	Chloroform	ND	1.0	0.005
Chloromethane	ND	1.0	0.005	2-Chlorotoluene	ND	1.0	0.005
4-Chlorotoluene	ND	1.0	0.005	Dibromochloromethane	ND	1.0	0.005
1,2-Dibromo-3-chloropropane	ND	1.0	0.004	1,2-Dibromoethane (EDB)	ND	1.0	0.004
Dibromomethane	ND	1.0	0.005	1,2-Dichlorobenzene	ND	1.0	0.005
1,3-Dichlorobenzene	ND	1.0	0.005	1,4-Dichlorobenzene	ND	1.0	0.005
Dichlorodifluoromethane	ND	1.0	0.005	1,1-Dichloroethane	ND	1.0	0.005
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.004	1,1-Dichloroethene	ND	1.0	0.005
cis-1,2-Dichloroethene	ND	1.0	0.005	trans-1,2-Dichloroethene	ND	1.0	0.005
1,2-Dichloropropane	ND	1.0	0.005	1,3-Dichloropropane	ND	1.0	0.005
2,2-Dichloropropane	ND	1.0	0.005	1,1-Dichloropropene	ND	1.0	0.005
cis-1,3-Dichloropropene	ND	1.0	0.005	trans-1,3-Dichloropropene	ND	1.0	0.005
Diisopropyl ether (DIPE)	ND	1.0	0.005	Ethylbenzene	ND	1.0	0.005
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005	Ergon 113	ND	1.0	0.1
Hexachlorobutadiene	ND	1.0	0.005	Hexachloroethane	ND	1.0	0.005
2-Hexanone	ND	1.0	0.005	Isonopylbenzene	ND	1.0	0.005
4-Isonopyl toluene	ND	1.0	0.005	Methyl-t-butyl ether (MTBE)	ND	1.0	0.005
Methylene chloride	ND	1.0	0.005	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005
Naphthalene	ND	1.0	0.005	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,2,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes	ND	1.0	0.005

Surrogate Recoveries (%)

%SS1:	88	%SS2:	102
%SS3:	124		

Comments:

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.



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Berlogar Geotechnical Consultants 5587 Sunol Boulevard Pleasanton, CA 94566	Client Project ID: #3126.002; Transporation Corridor	Date Sampled: 03/19/09
	Client Contact: Peter Wei	Date Received: 03/20/09
	Client P.O.:	Date Extracted: 03/20/09
		Date Analyzed: 03/25/09

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0903535

Lab ID	0903535-003A
Client ID	T-4A
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.05
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	Chloroform	ND	1.0	0.005
Chloromethane	ND	1.0	0.005	2-Chlorotoluene	ND	1.0	0.005
4-Chlorotoluene	ND	1.0	0.005	Dibromochloromethane	ND	1.0	0.005
1,2-Dibromo-3-chloropropane	ND	1.0	0.004	1,2-Dibromoethane (EDB)	ND	1.0	0.004
Dibromomethane	ND	1.0	0.005	1,2-Dichlorobenzene	ND	1.0	0.005
1,3-Dichlorobenzene	ND	1.0	0.005	1,4-Dichlorobenzene	ND	1.0	0.005
Dichlorodifluoromethane	ND	1.0	0.005	1,1-Dichloroethane	ND	1.0	0.005
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.004	1,1-Dichloroethene	ND	1.0	0.005
cis-1,2-Dichloroethene	ND	1.0	0.005	trans-1,2-Dichloroethene	ND	1.0	0.005
1,2-Dichloropropane	ND	1.0	0.005	1,3-Dichloropropane	ND	1.0	0.005
2,2-Dichloropropane	ND	1.0	0.005	1,1-Dichloropropene	ND	1.0	0.005
cis-1,3-Dichloropropene	ND	1.0	0.005	trans-1,3-Dichloropropene	ND	1.0	0.005
Diisopropyl ether (DIPE)	ND	1.0	0.005	Ethylbenzene	ND	1.0	0.005
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005	Freon 113	ND	1.0	0.1
Hexachlorobutadiene	ND	1.0	0.005	Hexachloroethane	ND	1.0	0.005
2-Hexanone	ND	1.0	0.005	Isopropylbenzene	ND	1.0	0.005
4-Isopropyl toluene	ND	1.0	0.005	Methyl-t-butyl ether (MTBE)	ND	1.0	0.005
Methylene chloride	ND	1.0	0.005	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005
Naphthalene	ND	1.0	0.005	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,2,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes	ND	1.0	0.005

Surrogate Recoveries (%)

%SS1:	88	%SS2:	100
%SS3:	119		

Comments:

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.



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Berlogar Geotechnical Consultants 5587 Sunol Boulevard Pleasanton, CA 94566	Client Project ID: #3126.002; Transportation Corridor	Date Sampled: 03/19/09
	Client Contact: Peter Wei	Date Received: 03/20/09
	Client P.O.:	Date Extracted: 03/20/09
		Date Analyzed: 03/25/09

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0903535

Lab ID	0903535-004A						
Client ID	T-7A						
Matrix	Soil						
Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.05
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	Chloroform	ND	1.0	0.005
Chloromethane	ND	1.0	0.005	2-Chlorotoluene	ND	1.0	0.005
4-Chlorotoluene	ND	1.0	0.005	Dibromochloromethane	ND	1.0	0.005
1,2-Dibromo-3-chloropropane	ND	1.0	0.004	1,2-Dibromoethane (EDB)	ND	1.0	0.004
Dibromomethane	ND	1.0	0.005	1,2-Dichlorobenzene	ND	1.0	0.005
1,3-Dichlorobenzene	ND	1.0	0.005	1,4-Dichlorobenzene	ND	1.0	0.005
Dichlorodifluoromethane	ND	1.0	0.005	1,1-Dichloroethane	ND	1.0	0.005
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.004	1,1-Dichloroethene	ND	1.0	0.005
cis-1,2-Dichloroethene	ND	1.0	0.005	trans-1,2-Dichloroethene	ND	1.0	0.005
1,2-Dichloropropane	ND	1.0	0.005	1,3-Dichloropropane	ND	1.0	0.005
2,2-Dichloropropane	ND	1.0	0.005	1,1-Dichloropropene	ND	1.0	0.005
cis-1,3-Dichloropropene	ND	1.0	0.005	trans-1,3-Dichloropropene	ND	1.0	0.005
Diisopropyl ether (DIPE)	ND	1.0	0.005	Ethylbenzene	ND	1.0	0.005
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005	Freon 113	ND	1.0	0.1
Hexachlorobutadiene	ND	1.0	0.005	Hexachloroethane	ND	1.0	0.005
2-Hexanone	ND	1.0	0.005	Isopropylbenzene	ND	1.0	0.005
4-Isopropyl toluene	ND	1.0	0.005	Methyl-t-butyl ether (MTBE)	ND	1.0	0.005
Methylene chloride	ND	1.0	0.005	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005
Naphthalene	ND	1.0	0.005	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,2,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes	ND	1.0	0.005

Surrogate Recoveries (%)

%SS1:	88	%SS2:	100
%SS3:	113		

Comments:

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.



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Berlogar Geotechnical Consultants

5587 Sunol Boulevard

Pleasanton, CA 94566

Client Project ID: #3126.002;
Transportation Corridor

Client Contact: Peter Wei

Client P.O.:

Date Sampled: 03/19/09

Date Received: 03/20/09

Date Extracted: 03/20/09

Date Analyzed: 03/25/09

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0903535

Lab ID	0903535-005A						
Client ID	T-10A						
Matrix	Soil						
Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.05
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	Chloroform	ND	1.0	0.005
Chloromethane	ND	1.0	0.005	2-Chlorotoluene	ND	1.0	0.005
4-Chlorotoluene	ND	1.0	0.005	Dibromochloromethane	ND	1.0	0.005
1,2-Dibromo-3-chloropropane	ND	1.0	0.004	1,2-Dibromoethane (EDB)	ND	1.0	0.004
Dibromomethane	ND	1.0	0.005	1,2-Dichlorobenzene	ND	1.0	0.005
1,3-Dichlorobenzene	ND	1.0	0.005	1,4-Dichlorobenzene	ND	1.0	0.005
Dichlorodifluoromethane	ND	1.0	0.005	1,1-Dichloroethane	ND	1.0	0.005
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.004	1,1-Dichloroethene	ND	1.0	0.005
cis-1,2-Dichloroethene	ND	1.0	0.005	trans-1,2-Dichloroethene	ND	1.0	0.005
1,2-Dichloropropane	ND	1.0	0.005	1,3-Dichloropropane	ND	1.0	0.005
2,2-Dichloropropane	ND	1.0	0.005	1,1-Dichloropropene	ND	1.0	0.005
cis-1,3-Dichloropropene	ND	1.0	0.005	trans-1,3-Dichloropropene	ND	1.0	0.005
Diisopropyl ether (DIPE)	ND	1.0	0.005	Ethylbenzene	ND	1.0	0.005
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005	Freon 113	ND	1.0	0.1
Hexachlorobutadiene	ND	1.0	0.005	Hexachloroethane	ND	1.0	0.005
2-Hexanone	ND	1.0	0.005	Isopropylbenzene	ND	1.0	0.005
4-Isopropyl toluene	ND	1.0	0.005	Methyl-t-butyl ether (MTBE)	ND	1.0	0.005
Methylene chloride	ND	1.0	0.005	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005
Naphthalene	ND	1.0	0.005	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,2,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes	ND	1.0	0.005

Surrogate Recoveries (%)

%SS1:	90	%SS2:	101
%SS3:	117		

Comments:

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.



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Berlogar Geotechnical Consultants 5587 Sunol Boulevard Pleasanton, CA 94566	Client Project ID: #3126.002; Transportation Corridor	Date Sampled: 03/19/09
	Client Contact: Peter Wei	Date Received: 03/20/09
	Client P.O.:	Date Extracted: 03/20/09
		Date Analyzed: 03/25/09

Semi-Volatile Organics by GC/MS (Basic Target List)*

Extraction Method: SW3550C

Analytical Method: SW8270C

Work Order: 0903535

Lab ID	0903535-001A
Client ID	T-1A
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acenaphthene	ND<3.3	10	0.33	Acenaphthylene	ND<3.3	10	0.33
Acetochlor	ND<3.3	10	0.33	Anthracene	ND<3.3	10	0.33
Benzidine	ND<16	10	1.6	Benzoic Acid	ND<16	10	1.6
Benzo(a)anthracene	ND<3.3	10	0.33	Benzo(b)fluoranthene	ND<3.3	10	0.33
Benzo(k)fluoranthene	ND<3.3	10	0.33	Benzo(g,h,i)perylene	ND<3.3	10	0.33
Benzo(a)pyrene	ND<3.3	10	0.33	Benzyl Alcohol	ND<16	10	1.6
1,1-Biphenyl	ND<3.3	10	0.33	Bis (2-chloroethoxy) Methane	ND<3.3	10	0.33
Bis (2-chloroethyl) Ether	ND<3.3	10	0.33	Bis (2-chloroisopropyl) Ether	ND<3.3	10	0.33
Bis (2-ethylhexyl) Phthalate	ND<3.3	10	0.33	4-Bromophenyl Phenyl Ether	ND<3.3	10	0.33
Butylbenzyl Phthalate	ND<3.3	10	0.33	4-Chloroaniline	ND<6.6	10	0.66
4-Chloro-3-methylphenol	ND<3.3	10	0.33	2-Chloronaphthalene	ND<3.3	10	0.33
2-Chlorophenol	ND<3.3	10	0.33	4-Chlorophenyl Phenyl Ether	ND<3.3	10	0.33
Chrysene	ND<3.3	10	0.33	Dibenzo(a,h)anthracene	ND<3.3	10	0.33
Dibenzofuran	ND<3.3	10	0.33	Di-n-butyl Phthalate	ND<3.3	10	0.33
1,2-Dichlorobenzene	ND<3.3	10	0.33	1,3-Dichlorobenzene	ND<3.3	10	0.33
1,4-Dichlorobenzene	ND<3.3	10	0.33	3,3-Dichlorobenzidine	ND<6.6	10	0.66
2,4-Dichlorophenol	ND<3.3	10	0.33	Diethyl Phthalate	ND<3.3	10	0.33
2,4-Dimethylphenol	ND<3.3	10	0.33	Dimethyl Phthalate	ND<3.3	10	0.33
4,6-Dinitro-2-methylphenol	ND<16	10	1.6	2,4-Dinitrophenol	ND<16	10	1.6
2,4-Dinitrotoluene	ND<3.3	10	0.33	2,6-Dinitrotoluene	ND<3.3	10	0.33
Di-n-octyl Phthalate	ND<3.3	10	0.33	1,2-Diphenylhydrazine	ND<3.3	10	0.33
Fluoranthene	ND<3.3	10	0.33	Fluorene	ND<3.3	10	0.33
Hexachlorobenzene	ND<3.3	10	0.33	Hexachlorobutadiene	ND<3.3	10	0.33
Hexachlorocyclopentadiene	ND<16	10	1.6	Hexachloroethane	ND<3.3	10	0.33
Indeno (1,2,3-cd) pyrene	ND<3.3	10	0.33	Isophorone	ND<3.3	10	0.33
2-Methylnaphthalene	ND<3.3	10	0.33	2-Methylphenol (o-Cresol)	ND<3.3	10	0.33
3 &/or 4-Methylphenol (m,p-Cresol)	ND<3.3	10	0.33	Naphthalene	ND<3.3	10	0.33
2-Nitroaniline	ND<16	10	1.6	3-Nitroaniline	ND<16	10	1.6
4-Nitroaniline	ND<16	10	1.6	Nitrobenzene	ND<3.3	10	0.33
2-Nitrophenol	ND<16	10	1.6	4-Nitrophenol	ND<16	10	1.6
N-Nitrosodiphenylamine	ND<3.3	10	0.33	N-Nitrosodi-n-propylamine	ND<3.3	10	0.33
Pentachlorophenol	ND<16	10	1.6	Phenanthrene	ND<3.3	10	0.33
Phenol	ND<3.3	10	0.33	Pyrene	ND<3.3	10	0.33
1,2,4-Trichlorobenzene	ND<3.3	10	0.33	2,4,5-Trichlorophenol	ND<3.3	10	0.33
2,4,6-Trichlorophenol	ND<3.3	10	0.33				

Surrogate Recoveries (%)

%SS1:	88	%SS2:	109
%SS3:	98	%SS4:	104
%SS5:	97	%SS6:	84

Comments: a3

* water samples in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

#) surrogate diluted out of range; &) low or no surrogate due to matrix interference.

a3) sample diluted due to high organic content.



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Berlogar Geotechnical Consultants 5587 Sunol Boulevard Pleasanton, CA 94566	Client Project ID: #3126.002; Transportation Corridor	Date Sampled: 03/19/09
	Client Contact: Peter Wei	Date Received: 03/20/09
	Client P.O.:	Date Extracted: 03/20/09
		Date Analyzed: 03/25/09

Semi-Volatile Organics by GC/MS (Basic Target List)*

Extraction Method: SW3550C

Analytical Method: SW8270C

Work Order: 0903535

Lab ID	0903535-002A
Client ID	T-2A
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acenaphthene	ND	1.0	0.33	Acenaphthylene	ND	1.0	0.33
Acetochlor	ND	1.0	0.33	Anthracene	ND	1.0	0.33
Benzidine	ND	1.0	1.6	Benzoic Acid	ND	1.0	1.6
Benzo(a)anthracene	ND	1.0	0.33	Benzo(b)fluoranthene	ND	1.0	0.33
Benzo(k)fluoranthene	ND	1.0	0.33	Benzo(g,h,i)perylene	ND	1.0	0.33
Benzo(a)pyrene	ND	1.0	0.33	Benzyl Alcohol	ND	1.0	1.6
1,1-Biphenyl	ND	1.0	0.33	Bis (2-chloroethoxy) Methane	ND	1.0	0.33
Bis (2-chloroethyl) Ether	ND	1.0	0.33	Bis (2-chloroisopropyl) Ether	ND	1.0	0.33
Bis (2-ethylhexyl) Phthalate	ND	1.0	0.33	4-Bromophenyl Phenyl Ether	ND	1.0	0.33
Butylbenzyl Phthalate	ND	1.0	0.33	4-Chloroaniline	ND	1.0	0.66
4-Chloro-3-methylphenol	ND	1.0	0.33	2-Chloronaphthalene	ND	1.0	0.33
2-Chlorophenol	ND	1.0	0.33	4-Chlorophenyl Phenyl Ether	ND	1.0	0.33
Chrysene	ND	1.0	0.33	Dibenzo(a,h)anthracene	ND	1.0	0.33
Dibenzofuran	ND	1.0	0.33	Di-n-butyl Phthalate	ND	1.0	0.33
1,2-Dichlorobenzene	ND	1.0	0.33	1,3-Dichlorobenzene	ND	1.0	0.33
1,4-Dichlorobenzene	ND	1.0	0.33	3,3-Dichlorobenzidine	ND	1.0	0.66
2,4-Dichlorophenol	ND	1.0	0.33	Diethyl Phthalate	ND	1.0	0.33
2,4-Dimethylphenol	ND	1.0	0.33	Dimethyl Phthalate	ND	1.0	0.33
4,6-Dinitro-2-methylphenol	ND	1.0	1.6	2,4-Dinitrophenol	ND	1.0	1.6
2,4-Dinitrotoluene	ND	1.0	0.33	2,6-Dinitrotoluene	ND	1.0	0.33
Di-n-octyl Phthalate	ND	1.0	0.33	1,2-Diphenylhydrazine	ND	1.0	0.33
Fluoranthene	ND	1.0	0.33	Fluorene	ND	1.0	0.33
Hexachlorobenzene	ND	1.0	0.33	Hexachlorobutadiene	ND	1.0	0.33
Hexachlorocyclopentadiene	ND	1.0	1.6	Hexachloroethane	ND	1.0	0.33
Indeno (1,2,3-cd) pyrene	ND	1.0	0.33	Isophorone	ND	1.0	0.33
2-Methylnaphthalene	ND	1.0	0.33	2-Methylphenol (o-Cresol)	ND	1.0	0.33
3 &/or 4-Methylphenol (m,p-Cresol)	ND	1.0	0.33	Naphthalene	ND	1.0	0.33
2-Nitroaniline	ND	1.0	1.6	3-Nitroaniline	ND	1.0	1.6
4-Nitroaniline	ND	1.0	1.6	Nitrobenzene	ND	1.0	0.33
2-Nitrophenol	ND	1.0	1.6	4-Nitrophenol	ND	1.0	1.6
N-Nitrosodiphenylamine	ND	1.0	0.33	N-Nitrosodi-n-propylamine	ND	1.0	0.33
Pentachlorophenol	ND	1.0	1.6	Phenanthrene	ND	1.0	0.33
Phenol	ND	1.0	0.33	Pyrene	ND	1.0	0.33
1,2,4-Trichlorobenzene	ND	1.0	0.33	2,4,5-Trichlorophenol	ND	1.0	0.33
2,4,6-Trichlorophenol	ND	1.0	0.33				

Surrogate Recoveries (%)

%SS1:	85	%SS2:	85
%SS3:	98	%SS4:	81
%SS5:	101	%SS6:	90

Comments:

* water samples in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

#) surrogate diluted out of range; &) low or no surrogate due to matrix interference.

a3) sample diluted due to high organic content.



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Berlogar Geotechnical Consultants 5587 Sunol Boulevard Pleasanton, CA 94566	Client Project ID: #3126.002; Transporation Corridor	Date Sampled: 03/19/09
	Client Contact: Peter Wei	Date Received: 03/20/09
	Client P.O.:	Date Extracted: 03/20/09
		Date Analyzed 03/25/09

Semi-Volatile Organics by GC/MS (Basic Target List)*

Extraction Method: SW3530C

Analytical Method: SW8270C

Work Order: 0903535

Lab ID	0903535-003A
Client ID	T-4A
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acenaphthene	ND<1.6	5.0	0.33	Acenaphthylene	ND<1.6	5.0	0.33
Acetochlor	ND<1.6	5.0	0.33	Anthracene	ND<1.6	5.0	0.33
Benzidine	ND<8.0	5.0	1.6	Benzoic Acid	ND<8.0	5.0	1.6
Benzo(a)anthracene	ND<1.6	5.0	0.33	Benzo(b)fluoranthene	ND<1.6	5.0	0.33
Benzo(k)fluoranthene	ND<1.6	5.0	0.33	Benzo(g,h,i)perylene	ND<1.6	5.0	0.33
Benzo(a)pyrene	ND<1.6	5.0	0.33	Benzyl Alcohol	ND<8.0	5.0	1.6
1,1-Biphenyl	ND<1.6	5.0	0.33	Bis (2-chloroethoxy) Methane	ND<1.6	5.0	0.33
Bis (2-chloroethyl) Ether	ND<1.6	5.0	0.33	Bis (2-chloroisopropyl) Ether	ND<1.6	5.0	0.33
Bis (2-ethylhexyl) Phthalate	ND<1.6	5.0	0.33	4-Bromophenyl Phenyl Ether	ND<1.6	5.0	0.33
Butylbenzyl Phthalate	ND<1.6	5.0	0.33	4-Chloroaniline	ND<3.3	5.0	0.66
4-Chloro-3-methylphenol	ND<1.6	5.0	0.33	2-Chloronaphthalene	ND<1.6	5.0	0.33
2-Chlorophenol	ND<1.6	5.0	0.33	4-Chlorophenyl Phenyl Ether	ND<1.6	5.0	0.33
Chrysene	ND<1.6	5.0	0.33	Dibenzo(a,h)anthracene	ND<1.6	5.0	0.33
Dibenzofuran	ND<1.6	5.0	0.33	Di-n-butyl Phthalate	ND<1.6	5.0	0.33
1,2-Dichlorobenzene	ND<1.6	5.0	0.33	1,3-Dichlorobenzene	ND<1.6	5.0	0.33
1,4-Dichlorobenzene	ND<1.6	5.0	0.33	3,3-Dichlorobenzidine	ND<3.3	5.0	0.66
2,4-Dichlorophenol	ND<1.6	5.0	0.33	Diethyl Phthalate	ND<1.6	5.0	0.33
2,4-Dimethylphenol	ND<1.6	5.0	0.33	Dimethyl Phthalate	ND<1.6	5.0	0.33
4,6-Dinitro-2-methylphenol	ND<8.0	5.0	1.6	2,4-Dinitrophenol	ND<8.0	5.0	1.6
2,4-Dinitrotoluene	ND<1.6	5.0	0.33	2,6-Dinitrotoluene	ND<1.6	5.0	0.33
Di-n-octyl Phthalate	ND<1.6	5.0	0.33	1,2-Diphenylhydrazine	ND<1.6	5.0	0.33
Fluoranthene	ND<1.6	5.0	0.33	Fluorene	ND<1.6	5.0	0.33
Hexachlorobenzene	ND<1.6	5.0	0.33	Hexachlorobutadiene	ND<1.6	5.0	0.33
Hexachlorocyclopentadiene	ND<8.0	5.0	1.6	Hexachloroethane	ND<1.6	5.0	0.33
Indeno (1,2,3-cd) pyrene	ND<1.6	5.0	0.33	Isophorone	ND<1.6	5.0	0.33
2-Methylnaphthalene	ND<1.6	5.0	0.33	2-Methylphenol (o-Cresol)	ND<1.6	5.0	0.33
3 &/or 4-Methylphenol (m,p-Cres)	ND<1.6	5.0	0.33	Naphthalene	ND<1.6	5.0	0.33
2-Nitroaniline	ND<8.0	5.0	1.6	3-Nitroaniline	ND<8.0	5.0	1.6
4-Nitroaniline	ND<8.0	5.0	1.6	Nitrobenzene	ND<1.6	5.0	0.33
2-Nitrophenol	ND<8.0	5.0	1.6	4-Nitrophenol	ND<8.0	5.0	1.6
N-Nitrosodiphenylamine	ND<1.6	5.0	0.33	N-Nitrosodi-n-propylamine	ND<1.6	5.0	0.33
Pentachlorophenol	ND<8.0	5.0	1.6	Phenanthrene	ND<1.6	5.0	0.33
Phenol	ND<1.6	5.0	0.33	Pyrene	ND<1.6	5.0	0.33
1,2,4-Trichlorobenzene	ND<1.6	5.0	0.33	2,4,5-Trichlorophenol	ND<1.6	5.0	0.33
2,4,6-Trichlorophenol	ND<1.6	5.0	0.33				

Surrogate Recoveries (%)

%SS1:	93	%SS2:	102
%SS3:	103	%SS4:	99
%SS5:	97	%SS6:	81

Comments: a3

* water samples in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L.

ND means not detected above the reporting limit, N/A means analyte not applicable to this analysis.

#) surrogate diluted out of range; &) low or no surrogate due to matrix interference.

a3) sample diluted due to high organic content.



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Berlogar Geotechnical Consultants 5587 Sunol Boulevard Pleasanton, CA 94566	Client Project ID: #3126.002;	Date Sampled: 03/19/09
	Transporation Corridor	Date Received: 03/20/09
	Client Contact: Peter Wei	Date Extracted: 03/20/09
	Client P.O.:	Date Analyzed 03/25/09

Semi-Volatile Organics by GC/MS (Basic Target List)*

Extraction Method: SW3550C

Analytical Method: SW8270C

Work Order: 0903535

Lab ID	0903535-004A
Client ID	T-7A
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acenaphthene	ND	1.0	0.33	Acenaphthylene	ND	1.0	0.33
Acetochlor	ND	1.0	0.33	Anthracene	ND	1.0	0.33
Benzdine	ND	1.0	1.6	Benzoic Acid	ND	1.0	1.6
Benzo(a)anthracene	ND	1.0	0.33	Benzo(b)fluoranthene	ND	1.0	0.33
Benzo(k)fluoranthene	ND	1.0	0.33	Benzo(g,h,i)perylene	ND	1.0	0.33
Benzo(a)pyrene	ND	1.0	0.33	Benzyl Alcohol	ND	1.0	1.6
1,1-Biphenyl	ND	1.0	0.33	Bis (2-chloroethoxy) Methane	ND	1.0	0.33
Bis (2-chloroethyl) Ether	ND	1.0	0.33	Bis (2-chloroisopropyl) Ether	ND	1.0	0.33
Bis (2-ethylhexyl) Phthalate	ND	1.0	0.33	4-Bromophenyl Phenyl Ether	ND	1.0	0.33
Butylbenzyl Phthalate	ND	1.0	0.33	4-Chloroaniline	ND	1.0	0.66
4-Chloro-3-methylphenol	ND	1.0	0.33	2-Chloronaphthalene	ND	1.0	0.33
2-Chlorophenol	ND	1.0	0.33	4-Chlorophenyl Phenyl Ether	ND	1.0	0.33
Chrysene	ND	1.0	0.33	Dibenzo(a,h)anthracene	ND	1.0	0.33
Dibenzofuran	ND	1.0	0.33	Di-n-butyl Phthalate	ND	1.0	0.33
1,2-Dichlorobenzene	ND	1.0	0.33	1,3-Dichlorobenzene	ND	1.0	0.33
1,4-Dichlorobenzene	ND	1.0	0.33	3,3-Dichlorobenzidine	ND	1.0	0.66
2,4-Dichlorophenol	ND	1.0	0.33	Diethyl Phthalate	ND	1.0	0.33
2,4-Dimethylphenol	ND	1.0	0.33	Dimethyl Phthalate	ND	1.0	0.33
4,6-Dinitro-2-methylphenol	ND	1.0	1.6	2,4-Dinitrophenol	ND	1.0	1.6
2,4-Dinitrotoluene	ND	1.0	0.33	2,6-Dinitrotoluene	ND	1.0	0.33
Di-n-octyl Phthalate	ND	1.0	0.33	1,2-Diphenylhydrazine	ND	1.0	0.33
Fluoranthene	ND	1.0	0.33	Fluorene	ND	1.0	0.33
Hexachlorobenzene	ND	1.0	0.33	Hexachlorobutadiene	ND	1.0	0.33
Hexachlorocyclopentadiene	ND	1.0	1.6	Hexachloroethane	ND	1.0	0.33
Indeno (1,2,3-cd) pyrene	ND	1.0	0.33	Isophorone	ND	1.0	0.33
2-Methylnaphthalene	ND	1.0	0.33	2-Methylphenol (o-Cresol)	ND	1.0	0.33
3 &/or 4-Methylphenol (m,p-Cres)	ND	1.0	0.33	Naphthalene	ND	1.0	0.33
2-Nitroaniline	ND	1.0	1.6	3-Nitroaniline	ND	1.0	1.6
4-Nitroaniline	ND	1.0	1.6	Nitrobenzene	ND	1.0	0.33
2-Nitrophenol	ND	1.0	1.6	4-Nitrophenol	ND	1.0	1.6
N-Nitrosodiphenylamine	ND	1.0	0.33	N-Nitrosodi-n-propylamine	ND	1.0	0.33
Pentachlorophenol	ND	1.0	1.6	Phenanthrene	ND	1.0	0.33
Phenol	ND	1.0	0.33	Pyrene	ND	1.0	0.33
1,2,4-Trichlorobenzene	ND	1.0	0.33	2,4,5-Trichlorophenol	ND	1.0	0.33
2,4,6-Trichlorophenol	ND	1.0	0.33				

Surrogate Recoveries (%)

%SS1:	86	%SS2:	83
%SS3:	90	%SS4:	83
%SS5:	92	%SS6:	82

Comments:

* water samples in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

#) surrogate diluted out of range; &) low or no surrogate due to matrix interference.

a3) sample diluted due to high organic content.



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	Client Contact: Peter Wei	Date Received: 03/20/09
	Client P.O.:	Date Extracted: 03/20/09
		Date Analyzed 03/25/09

Semi-Volatile Organics by GC/MS (Basic Target List)*

Extraction Method: SW3550C

Analytical Method: SW8270C

Work Order: 0903535

Lab ID	0903535-005A
Client ID	T-10A
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acenaphthene	ND	1.0	0.33	Acenaphthylene	ND	1.0	0.33
Acetochlor	ND	1.0	0.33	Anthracene	ND	1.0	0.33
Benzidine	ND	1.0	1.6	Benzoic Acid	ND	1.0	1.6
Benzo(a)anthracene	ND	1.0	0.33	Benzo(b)fluoranthene	ND	1.0	0.33
Benzo(k)fluoranthene	ND	1.0	0.33	Benzo(a,h,i)perylene	ND	1.0	0.33
Benzo(a)pyrene	ND	1.0	0.33	Benzyl Alcohol	ND	1.0	1.6
1,1-Biphenyl	ND	1.0	0.33	Bis (2-chloroethoxy) Methane	ND	1.0	0.33
Bis (2-chloroethyl) Ether	ND	1.0	0.33	Bis (2-chloroisopropyl) Ether	ND	1.0	0.33
Bis (2-ethylhexyl) Phthalate	ND	1.0	0.33	4-Bromophenyl Phenyl Ether	ND	1.0	0.33
Butylbenzyl Phthalate	ND	1.0	0.33	4-Chloroaniline	ND	1.0	0.66
4-Chloro-3-methylphenol	ND	1.0	0.33	2-Chloronaphthalene	ND	1.0	0.33
2-Chlorophenol	ND	1.0	0.33	4-Chlorophenyl Phenyl Ether	ND	1.0	0.33
Chrysene	ND	1.0	0.33	Dibenzo(a,h)anthracene	ND	1.0	0.33
Dibenzofuran	ND	1.0	0.33	Di-n-butyl Phthalate	ND	1.0	0.33
1,2-Dichlorobenzene	ND	1.0	0.33	1,3-Dichlorobenzene	ND	1.0	0.33
1,4-Dichlorobenzene	ND	1.0	0.33	3,3-Dichlorobenzidine	ND	1.0	0.66
2,4-Dichlorophenol	ND	1.0	0.33	Diethyl Phthalate	ND	1.0	0.33
2,4-Dimethylphenol	ND	1.0	0.33	Dimethyl Phthalate	ND	1.0	0.33
4,6-Dinitro-2-methylphenol	ND	1.0	1.6	2,4-Dinitrophenol	ND	1.0	1.6
2,4-Dinitrotoluene	ND	1.0	0.33	2,6-Dinitrotoluene	ND	1.0	0.33
Di-n-octyl Phthalate	ND	1.0	0.33	1,2-Diphenylhydrazine	ND	1.0	0.33
Fluoranthene	ND	1.0	0.33	Fluorene	ND	1.0	0.33
Hexachlorobenzene	ND	1.0	0.33	Hexachlorobutadiene	ND	1.0	0.33
Hexachlorocyclopentadiene	ND	1.0	1.6	Hexachloroethane	ND	1.0	0.33
Indeno (1,2,3-cd) pyrene	ND	1.0	0.33	Isophorone	ND	1.0	0.33
2-Methylnaphthalene	ND	1.0	0.33	2-Methylphenol (o-Cresol)	ND	1.0	0.33
3 &/or 4-Methylphenol (m,p-Cresol)	ND	1.0	0.33	Naphthalene	ND	1.0	0.33
2-Nitroaniline	ND	1.0	1.6	3-Nitroaniline	ND	1.0	1.6
4-Nitroaniline	ND	1.0	1.6	Nitrobenzene	ND	1.0	0.33
2-Nitrophenol	ND	1.0	1.6	4-Nitrophenol	ND	1.0	1.6
N-Nitrosodiphenylamine	ND	1.0	0.33	N-Nitrosodi-n-propylamine	ND	1.0	0.33
Pentachlorophenol	ND	1.0	1.6	Phenanthrene	ND	1.0	0.33
Phenol	ND	1.0	0.33	Pyrene	ND	1.0	0.33
1,2,4-Trichlorobenzene	ND	1.0	0.33	2,4,5-Trichlorophenol	ND	1.0	0.33
2,4,6-Trichlorophenol	ND	1.0	0.33				

Surrogate Recoveries (%)

%SS1:	86	%SS2:	79
%SS3:	94	%SS4:	82
%SS5:	100	%SS6:	80

Comments:

* water samples in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

#) surrogate diluted out of range; &) low or no surrogate due to matrix interference.

a3) sample diluted due to high organic content.



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Berlogar Geotechnical Consultants 5587 Sunol Boulevard Pleasanton, CA 94566	Client Project ID: #3126.002; Transporation Corridor	Date Sampled: 03/19/09
	Client Contact: Peter Wei	Date Received 03/20/09
	Client P.O.:	Date Extracted 03/20/09
		Date Analyzed 03/24/09-03/25/09

CAM / CCR 17 Metals*

Lab ID	0903535-001A	0903535-002A	0903535-003A	0903535-004A	Reporting Limit for DF = 1: ND means not detected above the reporting limit	
Client ID	T-1A	T-2A	T-4A	T-7A	S	W
Matrix	S	S	S	S		
Extraction Type	TOTAL	TOTAL	TOTAL	TOTAL	mg/Kg	mg/L

ICP-MS Metals, Concentration*

Analytical Method: 6020A	Extraction Method: SW3050B				Work Order: 0903535	
Dilution Factor	1	1	1	1	1	1
Antimony	13	0.79	5.7	6.1	0.5	NA
Arsenic	88	8.3	230	250	0.5	NA
Barium	210	150	340	200	5.0	NA
Beryllium	ND	ND	0.68	ND	0.5	NA
Cadmium	0.54	ND	ND	ND	0.25	NA
Chromium	50	62	40	45	0.5	NA
Cobalt	11	7.5	9.5	9.4	0.5	NA
Copper	98	17	96	30	0.5	NA
Lead	210	6.2	44	28	0.5	NA
Mercury	0.21	0.068	0.15	0.087	0.05	NA
Molybdenum	0.81	ND	0.70	ND	0.5	NA
Nickel	51	45	46	51	0.5	NA
Selenium	ND	ND	ND	ND	0.5	NA
Silver	ND	ND	ND	ND	0.5	NA
Thallium	ND	ND	ND	ND	0.5	NA
Vanadium	61	36	54	41	0.5	NA
Zinc	160	40	52	58	5.0	NA
%SS:	128	106	106	105		

Comments

*water samples are reported in µg/L, product/oil/non-aqueous liquid samples and all TCLP / STLC / DISTLC / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter.

means surrogate diluted out of range; ND means not detected above the reporting limit; N/A means not applicable to this sample or instrument.

TOTAL = acid digestion.

WET = Waste Extraction Test (STLC).

DI WET = Waste Extraction Test using de-ionized water.



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Berlogar Geotechnical Consultants 5587 Sunol Boulevard Pleasanton, CA 94566	Client Project ID: #3126.002; Transportation Corridor	Date Sampled: 03/19/09
	Client Contact: Peter Wei	Date Received 03/20/09
	Client P.O.:	Date Extracted 03/20/09
		Date Analyzed 03/24/09-03/25/09

CAM / CCR 17 Metals*

Lab ID	0903535-005A				Reporting Limit for DF = 1. ND means not detected above the reporting limit	
Client ID	T-10A					
Matrix	S			S		W
Extraction Type	TOTAL			mg/Kg		mg/L

ICP-MS Metals, Concentration*

Analytical Method: 6020A	Extraction Method: SW3050B	Work Order: 0903535			
Dilution Factor	1			1	1
Antimony	6.7			0.5	NA
Arsenic	72			0.5	NA
Barium	110			5.0	NA
Beryllium	ND			0.5	NA
Cadmium	0.76			0.25	NA
Chromium	59			0.5	NA
Cobalt	9.1			0.5	NA
Copper	49			0.5	NA
Lead	61			0.5	NA
Mercury	0.073			0.05	NA
Molybdenum	ND			0.5	NA
Nickel	53			0.5	NA
Selenium	ND			0.5	NA
Silver	ND			0.5	NA
Thallium	ND			0.5	NA
Vanadium	54			0.5	NA
Zinc	190			5.0	NA
%SS	105				

Comments

*water samples are reported in µg/L, product/oil/non-aqueous liquid samples and all TCLP / STLC / DISTLC / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter.

means surrogate diluted out of range; ND means not detected above the reporting limit; N/A means not applicable to this sample or instrument.

TOTAL = acid digestion.

WET = Waste Extraction Test (STLC).

DJ WET = Waste Extraction Test using de-ionized water.



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Berlogar Geotechnical Consultants

 5587 Sunol Boulevard

 Pleasanton, CA 94566

Client Project ID: #3126.002;
 Transportation Corridor

 Client Contact: Peter Wei

 Client P.O.:

Date Sampled: 03/19/09
 Date Received: 03/20/09
 Date Extracted: 03/20/09
 Date Analyzed 03/21/09-03/24/09

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extraction method SW5030B

Analytical methods SW8021B/8015Bm

Work Order: 0903535

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	T-1A	S	3.2,d1	ND	0.0085	0.043	0.0064	0.088	1	85
002A	T-2A	S	ND	ND	ND	ND	ND	ND	1	107
003A	T-4A	S	ND	ND	ND	ND	ND	ND	1	95
004A	T-7A	S	ND	ND	ND	ND	ND	ND	1	101
005A	T-10A	S	ND	ND	ND	ND	ND	ND	1	105

Reporting Limit for DF = 1; ND means not detected at or above the reporting limit	W	50	5.0	0.5	0.5	0.5	0.5	ug/L
	S	1.0	0.05	0.005	0.005	0.005	0.005	mg/Kg

* water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference.

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation:

d1) weakly modified or unmodified gasoline is significant

 Angela Rydelius, Lab Manager



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Berlogar Geotechnical Consultants 5587 Sunol Boulevard Pleasanton, CA 94566	Client Project ID: #3126.002; Transporation Corridor	Date Sampled: 03/19/09
	Client Contact: Peter Wei	Date Received: 03/20/09
	Client P.O.:	Date Extracted: 03/20/09
		Date Analyzed: 03/21/09-03/24/09

Total Extractable Petroleum Hydrocarbons*

Extraction method: SW3550C

Analytical methods: SW8015B

Work Order: 0903535

Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	TPH-Motor Oil (C18-C36)	DF	% SS
0903535-001A	T-1A	S	17,e7,e2	130	10	89
0903535-002A	T-2A	S	ND	ND	1	108
0903535-003A	T-4A	S	ND,e7	6.1	1	101
0903535-004A	T-7A	S	ND	ND	1	108
0903535-005A	T-10A	S	2.0,e7,e2	10	1	99

Reporting Limit for DF = 1; ND means not detected at or above the reporting limit	W	NA	NA	ug/L
	S	1.0	5.0	mg/Kg

* water samples are reported in ug/L, wipe samples in ug/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in ug/L.

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation:

e2) diesel range compounds are significant; no recognizable pattern
 e7) oil range compounds are significant



QC SUMMARY REPORT FOR SW8270C

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 42115

WorkOrder 0903535

Analyte	Extraction SW3550C								Spiked Sample ID: 0903437-003A			
	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Acenaphthenc	ND<1.6	2	NR	NR	NR	60.4	60	0.698	30 - 130	30	30 - 130	30
4-Chloro-3-methylphenol	ND<1.6	4	80.4	87.6	8.57	57.7	56	2.95	30 - 130	30	30 - 130	30
2-Chlorophenol	ND<1.6	4	70.8	73.8	4.12	65.2	64.7	0.778	30 - 130	30	30 - 130	30
1,4-Dichlorobenzene	ND<1.6	2	NR	NR	NR	65.1	64.9	0.231	30 - 130	30	30 - 130	30
2,4-Dinitrotoluene	ND<1.6	2	NR	NR	NR	70.5	71	0.735	30 - 130	30	30 - 130	30
4-Nitrophenol	ND<8.0	4	NR	NR	NR	79.3	80.2	1.16	30 - 130	30	30 - 130	30
N-Nitrosodi-n-propylamine	ND<1.6	2	NR	NR	NR	111	111	0	30 - 130	30	30 - 130	30
Pentachlorophenol	ND<8.0	4	NR	NR	NR	50.5	51.1	1.24	30 - 130	30	30 - 130	30
Phenol	ND<1.6	4	60.4	59.8	1.08	63.8	63.4	0.574	30 - 130	30	30 - 130	30
Pyrene	ND<1.6	2	88	93	5.47	54.4	53.1	2.38	30 - 130	30	30 - 130	30
1,2,4-Trichlorobenzene	ND<1.6	2	NR	NR	NR	60.9	60	1.44	30 - 130	30	30 - 130	30
%SS1:	84	200	84	89	6.27	92	95	2.98	30 - 130	30	30 - 130	30
%SS2:	82	200	78	78	0	99	99	0	30 - 130	30	30 - 130	30
%SS3:	86	200	90	103	13.2	97	96	0.479	30 - 130	30	30 - 130	30
%SS4:	93	200	92	98	6.27	99	100	0.696	30 - 130	30	30 - 130	30
%SS5:	84	200	85	92	7.57	121	120	0.598	30 - 130	30	30 - 130	30
%SS6:	72	200	81	89	9.17	82	80	2.01	30 - 130	30	30 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 42115 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0903535-001A	03/19/09	03/20/09	03/25/09 6:57 AM	0903535-002A	03/19/09	03/20/09	03/25/09 12:33 AM
0903535-003A	03/19/09	03/20/09	03/25/09 4:25 AM	0903535-004A	03/19/09	03/20/09	03/25/09 1:51 AM
0903535-005A	03/19/09	03/20/09	03/25/09 3:08 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

$\% \text{ Recovery} = 100 * (\text{MS} - \text{Sample}) / (\text{Amount Spiked}); \text{RPD} = 100 * (\text{MS} - \text{MSD}) / ((\text{MS} + \text{MSD}) / 2)$

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

#) surrogate diluted out of range; & = low or no recovery of surrogate or target analytes due to matrix interference.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.



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QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 42120

WorkOrder 0903535

EPA Method SW8021B/8015Bm		Extraction SW5030B							Spiked Sample ID: 0903454-001A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex)	ND	0.60	102	93.6	8.40	107	108	0.917	70 - 130	20	70 - 130	20
MTBE	ND	0.10	84.8	85.5	0.874	96.7	92.5	4.48	70 - 130	20	70 - 130	20
Benzene	ND	0.10	84.1	82.2	2.23	97.3	91.2	6.51	70 - 130	20	70 - 130	20
Toluene	ND	0.10	87.4	93.9	7.17	99.3	94.5	4.95	70 - 130	20	70 - 130	20
Ethylbenzene	ND	0.10	89	93.8	5.27	99.3	94.7	4.73	70 - 130	20	70 - 130	20
Xylenes	ND	0.30	100	103	2.91	111	107	3.76	70 - 130	20	70 - 130	20
%SS:	85	0.10	94	85	10.2	106	100	5.67	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 42120 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0903535-001A	03/19/09	03/20/09	03/24/09 5:59 PM	0903535-002A	03/19/09	03/20/09	03/21/09 5:42 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogeneous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram: sample peak coelutes with surrogate peak

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



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QC SUMMARY REPORT FOR SW8081A/8082A

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 42132

WorkOrder 0903535

Analyte	Extraction SW3550C			Spiked Sample ID: 0903461-004A								
	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/kg	mg/kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Aldrin	ND	0.010	91.4	91.5	0.0984	98.8	102	3.52	70 - 130	30	70 - 130	30
p-BHC	ND	0.010	105	105	0	100	103	2.85	70 - 130	30	70 - 130	30
p,p-DDT	ND	0.025	101	101	0	102	106	4.00	70 - 130	30	70 - 130	30
Dieldrin	ND	0.025	106	106	0	111	113	1.80	70 - 130	30	70 - 130	30
Endrin	ND	0.025	87.9	79.2	10.4	101	102	1.39	70 - 130	30	70 - 130	30
Heptachlor	ND	0.010	83	82.6	0.488	91.4	95.1	3.93	70 - 130	30	70 - 130	30
%SS:	117	0.050	127	126	1.14	95.8	99.4	3.71	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 42132 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0903535-001A	03/19/09	03/20/09	03/22/09 5:04 AM	0903535-002A	03/19/09	03/20/09	03/22/09 5:58 AM
0903535-003A	03/19/09	03/20/09	03/22/09 6:53 AM	0903535-004A	03/19/09	03/20/09	03/22/09 7:48 AM
0903535-005A	03/19/09	03/20/09	03/22/09 8:43 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



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QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 42201

WorkOrder 0903535

EPA Method SW8021B/8015Bm	Extraction SW5030B								Spiked Sample ID: 0903534-013A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex) ^f	ND	0.60	105	95.8	8.84	93.8	97.5	3.90	70 - 130	20	70 - 130	20
MTBE	ND	0.10	106	96.5	9.69	99.4	96.4	3.06	70 - 130	20	70 - 130	20
Benzene	ND	0.10	97.8	92.6	5.39	94.4	94.9	0.548	70 - 130	20	70 - 130	20
Toluene	ND	0.10	86.6	82.2	5.30	83	84.2	1.47	70 - 130	20	70 - 130	20
Ethylbenzene	ND	0.10	95.6	89.9	6.12	91.6	94.3	2.86	70 - 130	20	70 - 130	20
Xylenes	ND	0.30	90.5	88.9	1.85	84.4	90.8	7.29	70 - 130	20	70 - 130	20
%SS:	97	0.10	72	76	5.10	77	81	4.74	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 42201 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0903535-003A	03/19/09	03/20/09	03/21/09 6:12 PM	0903535-004A	03/19/09	03/20/09	03/21/09 6:42 PM
0903535-005A	03/19/09	03/20/09	03/21/09 7:12 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

f TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram: sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



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Web: www.mcccampbell.com E-mail: main@mcccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

QC SUMMARY REPORT FOR 6020A

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder 0903535

EPA Method 6020A		Extraction SW3050B					BatchID: 42121			Spiked Sample ID 0903454-001A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	Spiked	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	mg/Kg	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Antimony	ND	50	96.9	96.3	0.596	10	104	106	1.43	75 - 125	20	75 - 125	20
Arsenic	6.0	50	91.6	91.6	0	10	106	107	1.03	75 - 125	20	75 - 125	20
Barium	200	500	76.9	76.9	0	100	101	103	2.35	75 - 125	20	75 - 125	20
Beryllium	0.61	50	96.8	98.4	1.58	10	117	118	0.853	75 - 125	20	75 - 125	20
Cadmium	0.33	50	95.1	95.4	0.250	10	104	105	0.574	75 - 125	20	75 - 125	20
Chromium	43	50	70.7, F1	73.7, F1	1.86	10	117	117	0	75 - 125	20	75 - 125	20
Cobalt	9.0	50	85.1	87.7	2.49	10	111	112	0.987	75 - 125	20	75 - 125	20
Copper	17	50	83.3	83	0.258	10	106	108	1.31	75 - 125	20	75 - 125	20
Lead	11	50	92.7	91.7	0.896	10	107	109	2.13	75 - 125	20	75 - 125	20
Mercury	ND	1.25	106	108	1.67	0.25	112	113	0.713	75 - 125	20	75 - 125	20
Molybdenum	0.62	50	96.5	96.2	0.328	10	103	106	2.79	75 - 125	20	75 - 125	20
Nickel	43	50	69.5, F1	68.6, F1	0.607	10	106	107	0.281	75 - 125	20	75 - 125	20
Selenium	ND	50	96.3	95.1	1.22	10	108	111	2.65	75 - 125	20	75 - 125	20
Silver	ND	50	116	116	0	10	104	106	1.62	75 - 125	20	75 - 125	20
Thallium	ND	50	93	92.9	0.0428	10	98.7	101	2.67	75 - 125	20	75 - 125	20
Vanadium	53	50	NR	NR	NR	10	116	116	0	75 - 125	20	75 - 125	20
Zinc	55	500	93.5	92.6	0.884	100	108	109	1.01	75 - 125	20	75 - 125	20
%SS:	125	250	97	97	0	250	104	106	2.24	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

F1 = MS / MSD outside of acceptance criteria. LCS - LCSD validate prep batch.

BATCH 42121 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0903535-001A	03/19/09	03/20/09	03/24/09 6:19 AM	0903535-001A	03/19/09	03/20/09	03/25/09 10:03 PM
0903535-002A	03/19/09	03/20/09	03/24/09 6:28 AM	0903535-003A	03/19/09	03/20/09	03/24/09 6:36 AM
0903535-003A	03/19/09	03/20/09	03/24/09 8:10 AM	0903535-004A	03/19/09	03/20/09	03/24/09 6:45 AM
0903535-004A	03/19/09	03/20/09	03/24/09 8:18 AM				

MS = Matrix Spike, MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



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QC SUMMARY REPORT FOR 6020A

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder 0903535

EPA Method 6020A		Extraction SW3050B				BatchID: 42202			Spiked Sample ID 0903535-005A				
Analyte	Sample	Spiked	MS	MSD	MS-MSD	Spiked	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	mg/Kg	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Antimony	6.7	50	97.8	95.3	2.31	10	98.8	99.2	0.364	75 - 125	20	75 - 125	20
Arsenic	72	50	NR	NR	NR	10	105	105	0	75 - 125	20	75 - 125	20
Barium	110	500	95.1	92.3	2.45	100	100	100	0	75 - 125	20	75 - 125	20
Beryllium	ND	50	93.1	92.5	0.687	10	97.2	97.6	0.431	75 - 125	20	75 - 125	20
Cadmium	0.76	50	99.4	97.4	1.98	10	99.7	99.5	0.211	75 - 125	20	75 - 125	20
Chromium	59	50	NR	NR	NR	10	103	104	1.36	75 - 125	20	75 - 125	20
Cobalt	9.1	50	98	96.2	1.54	10	101	102	1.08	75 - 125	20	75 - 125	20
Copper	49	50	98.2	88.9	4.89	10	97.6	99.1	1.53	75 - 125	20	75 - 125	20
Lead	61	50	NR	NR	NR	10	99.4	101	1.59	75 - 125	20	75 - 125	20
Mercury	0.073	1.25	111	110	1.58	0.25	115	117	1.69	75 - 125	20	75 - 125	20
Molybdenum	ND	50	99.7	97.1	2.62	10	99.1	99.7	0.624	75 - 125	20	75 - 125	20
Nickel	53	50	NR	NR	NR	10	103	104	0.967	75 - 125	20	75 - 125	20
Selenium	ND	50	102	100	1.89	10	104	104	0	75 - 125	20	75 - 125	20
Silver	ND	50	110	108	1.89	10	97.9	97.5	0.440	75 - 125	20	75 - 125	20
Thallium	ND	50	95.2	93.5	1.78	10	93.4	94.9	1.56	75 - 125	20	75 - 125	20
Vanadium	54	50	NR	NR	NR	10	103	104	1.16	75 - 125	20	75 - 125	20
Zinc	190	500	103	97.2	4.56	100	104	106	1.53	75 - 125	20	75 - 125	20
%SS:	105	250	99	96	3.20	250	98	98	0	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 42202 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0903535-005A	03/19/09	03/20/09	03/24/09 5:03 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



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QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 42182

WorkOrder 0903535

Analyte	Extraction SW3550C								Spiked Sample ID: 0903415-001A			
	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH-Diesel (C10-C23)	620	20	NR	NR	NR	117	118	0.651	70 - 130	30	70 - 130	30
%SS:	99	50	99	97	2.09	104	104	0	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 42182 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0903535-001A	03/19/09	03/20/09	03/24/09 1:16 AM	0903535-002A	03/19/09	03/20/09	03/21/09 5:18 AM
0903535-003A	03/19/09	03/20/09	03/24/09 2:23 AM	0903535-004A	03/19/09	03/20/09	03/21/09 7:35 AM
0903535-005A	03/19/09	03/20/09	03/24/09 2:23 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

McCAMPBELL ANALYTICAL, INC.

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PITTSBURGH, PA 15106-1701

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0903535

CHAIN OF CUSTODY RECORD
TURN AROUND TIME

GeoTracker EDF PDF Excel Write On (DW)
RUSH: 24HR 48HR 72HR 5 DAYS

Report To: Peter Wei Bill To: Same
Company: Derogar Geotechnical Consultants
5557 Sunset Blvd
Pleasanton, CA 94566 E-Mail: PWei@derogar.com
Tele: 925-484-0220 Fax: 925-846-9645
Project #: 322602 Project Name: TRANSPIRATION
Project Location: Pleasanton
Sampler Signature: [Signature]

Analysis Request		Other	Comments
MTR1 - BEN & TPH as Gas (M92, M27, 3015)	<input checked="" type="checkbox"/>	HOLD	Filter Samples for Metals analysis: Yes No
MTR2 - BEN ONLY (EPA 602, 9021)	<input checked="" type="checkbox"/>		
PHI as Total Nitrate (M181)	<input checked="" type="checkbox"/>		
Total Petroleum (M1 & Grease) (M64, 4520 E, B&F)	<input checked="" type="checkbox"/>		
Total Petroleum Hydrocarbons (M181)	<input checked="" type="checkbox"/>		
EPA 9022 601-9010-9021 (M181)	<input checked="" type="checkbox"/>		
EPA 9025 601-9010-9021 (M181) + PCBs	<input checked="" type="checkbox"/>		
EPA 9027 602-9010-9021 (M181) - Volatiles - Engineers	<input checked="" type="checkbox"/>		
EPA 907 9141 (M181) - Pesticides	<input checked="" type="checkbox"/>		
EPA 915 6151 (M181) - Pesticides (M181)	<input checked="" type="checkbox"/>		
EPA 9242 624-9240 (M181)	<input checked="" type="checkbox"/>		
EPA 9242 624-9240 (M181) - PCBs	<input checked="" type="checkbox"/>		
EPA 9270 (M181) - PAHs (M181)	<input checked="" type="checkbox"/>		
CA 117 Metals (M181) - 200 B - 4010-6020	<input checked="" type="checkbox"/>		
11715 Metals (M181) - 200 B - 4010-6020	<input checked="" type="checkbox"/>		
Lead (M181) - 200 B - 4010-6020	<input checked="" type="checkbox"/>		

SAMPLE ID	LOCATION Field Point Name	SAMPLING		# Containers	Type Containers	MATRIX				METHOD PRESERVED						
		Date	Time			Water	Soil	Air	Sludge	Other	ICE	HCL	HNO3	Other		
T-1A		3-19-09				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
T-2A		↓				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
T-4A		↓				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
T-7A		↓				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
T-10A		↓				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
T-1B		3-19-09		1		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
T-2B		↓				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
T-4B		↓				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
T-7B		↓				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
T-10B		↓				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Relinquished By: [Signature] Date: 3/19/09 Time: 3:45 Received By: [Signature]
Relinquished By: [Signature] Date: 3/19/09 Time: [Time] Received By: [Signature]
Relinquished By: [Signature] Date: [Date] Time: [Time] Received By: [Signature]

ICE: Yes 9/4
GOOD CONDITION ✓
HEAD SPACE ABSENT ✓
DECHLORINATED IN LAB ✓
APPROPRIATE CONTAINERS ✓
PRESERVED IN LAB ✓
COMMENTS:
VOAS O&G METALS OTHER
PRESERVATION pH=2

McC Campbell Analytical, Inc.



1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0903535

ClientCode: BGCP

WriteOn EDF Excel Fax Email HardCopy ThirdParty J-flag

Report to:

Peter Wei
Berlogar Geotechnical Consultants
5587 Sunol Boulevard
Pleasanton, CA 94566
(925) 484-0220 FAX (925) 846-9645

Email: pwei@berlogar.com
cc.
PO:
ProjectNo: #3126.002; Transporation Corridor

Bill to:

Bill Stevens
Berlogar Geotechnical Consultants
5587 Sunol Boulevard
Pleasanton, CA 94566

Requested TAT: 5 days

Date Received: 03/20/2009

Date Printed: 03/23/2009

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
0903535-001	T-1A	Soil	3/19/2009	<input type="checkbox"/>	A	A	A	A	A	A						
0903535-002	T-2A	Soil	3/19/2009	<input type="checkbox"/>	A	A	A	A	A	A						
0903535-003	T-4A	Soil	3/19/2009	<input type="checkbox"/>	A	A	A	A	A	A						
0903535-004	T-7A	Soil	3/19/2009	<input type="checkbox"/>	A	A	A	A	A	A						
0903535-005	T-10A	Soil	3/19/2009	<input type="checkbox"/>	A	A	A	A	A	A						

Test Legend:

1	8081PCB S	2	8260B S	3	8270D S	4	CAM17MS S	5	G-MBTEX S
6	TPH(DMO) S	7		8		9		10	
11		12							

Prepared by: Samantha Arbuckle

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.



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Telephone: 877-252-9262 Fax: 925-252-9269

Berlogar Geotechnical Consultants 5587 Sunol Boulevard Pleasanton, CA 94566	Client Project ID: #3126.002; Transporation Corridor	Date Sampled: 03/19/09
	Client Contact: Peter Wei	Date Received 03/20/09
	Client P.O.:	Date Extracted 03/31/09
		Date Analyzed 04/01/09-04/02/09

CAM / CCR 17 Metals*

Lab ID	0903536-001A	0903536-002A	0903536-004A	0903536-005A	Reporting Limit for DF > 1. ND means not detected above the reporting limit	
Client ID	T-3A	T-5A	T-8A	T-9A	S	W
Matrix	S	S	S	S	S	W
Extraction Type	TOTAL	TOTAL	TOTAL	TOTAL	mg/Kg	mg/L

ICP-MS Metals, Concentration*

Analytical Method: 6020A

Extraction Method: SW3050B

Work Order: 0903536

Dilution Factor	1	1	1	1	1	1
Antimony	ND	0.56	4.7	6.5	0.5	NA
Arsenic	4.7	4.8	60	180	0.5	NA
Barium	200	150	160	220	5.0	NA
Beryllium	ND	ND	ND	ND	0.5	NA
Cadmium	ND	ND	0.46	0.83	0.25	NA
Chromium	48	49	51	42	0.5	NA
Cobalt	8.8	8.0	9.8	9.2	0.5	NA
Copper	19	21	57	48	0.5	NA
Lead	7.4	8.3	89	89	0.5	NA
Mercury	ND	ND	0.19	2.0	0.05	NA
Molybdenum	ND	ND	0.53	0.54	0.5	NA
Nickel	50	49	66	54	0.5	NA
Selenium	ND	ND	ND	ND	0.5	NA
Silver	ND	ND	ND	ND	0.5	NA
Thallium	ND	ND	ND	ND	0.5	NA
Vanadium	39	37	36	41	0.5	NA
Zinc	46	52	140	250	5.0	NA
%SS:	121	115	117	127		

Comments

*water samples are reported in µg/L, product/oil/non-aqueous liquid samples and all TCLP / STLC / DISTLC / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter.

means surrogate diluted out of range; ND means not detected above the reporting limit; N/A means not applicable to this sample or instrument.

TOTAL = acid digestion.
WET = Waste Extraction Test (STLC).
DI WET = Waste Extraction Test using de-ionized water.



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Berlogar Geotechnical Consultants
5587 Sunol Boulevard
Pleasanton, CA 94566

Client Project ID: #3126.002;
Transporation Corridor

Client Contact: Peter Wei

Client P.O.:

Date Sampled: 03/19/09

Date Received 03/20/09

Date Extracted 03/31/09

Date Analyzed 04/01/09-04/02/09

CAM / CCR 17 Metals*

Lab ID	0903536-006A	0903536-007A			Reporting Limit for DF ~1; ND means not detected above the reporting limit	
Client ID	T-11A	T-12A			S	W
Matrix	S	S			mg/Kg	mg/L
Extraction Type	TOTAL	TOTAL				

ICP-MS Metals, Concentration*

Analytical Method: 6020A

Extraction Method: SW3050B

Work Order: 0903536

Dilution Factor	1	1		1	1
Antimony	0.59	3.0		0.5	NA
Arsenic	6.0	4.4		0.5	NA
Barium	140	150		5.0	NA
Beryllium	ND	ND		0.5	NA
Cadmium	ND	ND		0.25	NA
Chromium	47	38		0.5	NA
Cobalt	9.4	6.6		0.5	NA
Copper	24	21		0.5	NA
Lead	21	69		0.5	NA
Mercury	0.11	0.12		0.05	NA
Molybdenum	ND	ND		0.5	NA
Nickel	50	37		0.5	NA
Selenium	ND	ND		0.5	NA
Silver	ND	ND		0.5	NA
Thallium	ND	ND		0.5	NA
Vanadium	38	29		0.5	NA
Zinc	39	43		5.0	NA
%SS:	114	96			

Comments

*water samples are reported in µg/L, product/oil/non-aqueous liquid samples and all TCLP / STLC / DISTLC / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter.

means surrogate diluted out of range; ND means not detected above the reporting limit; N/A means not applicable to this sample or instrument.

TOTAL = acid digestion.

WET = Waste Extraction Test (STLC).

DI WET = Waste Extraction Test using de-ionized water.



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Telephone: 877-252-9262 Fax: 925-252-9269

Berlogar Geotechnical Consultants 5587 Sunol Boulevard Pleasanton, CA 94566	Client Project ID: #3126.002; Transporation Corridor	Date Sampled: 03/19/09
	Client Contact: Peter Wei	Date Received: 03/20/09
	Client P.O.:	Date Extracted: 03/31/09-04/02/09
		Date Analyzed: 04/06/09

Metals*

Extraction method CA Title 22 Analytical methods 6020A Work Order: 0903536

Lab ID	Client ID	Matrix	Extraction Type	Arsenic	Chromium	Lead	DF	% SS
003A	T-6A	S	WET	3.6	ND	3.8	1	N/A

Reporting Limit for DF = 1; ND means not detected at or above the reporting limit	W	TOTAL	NA	NA	NA	NA
	S	WET	0.1	0.1	0.1	mg/L

*water samples are reported in µg/L, product/oil/non-aqueous liquid samples and all TCLP / STLC / DISTLC / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter.

means surrogate diluted out of range; ND means not detected above the reporting limit; N/A means not applicable to this sample or instrument.

TOTAL = acid digestion.
WET = Waste Extraction Test (STLC).
DI WET = Waste Extraction Test using de-ionized water.

DHS ELAP Certification 1644

AR Angela Rydelius, Lab Manager



McC Campbell Analytical, Inc.

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Telephone: 877-252-9262 Fax: 925-252-9269

Berlogar Geotechnical Consultants 5587 Sunol Boulevard Pleasanton, CA 94566	Client Project ID: #3126.002; Transporation Corridor	Date Sampled: 03/19/09
	Client Contact: Peter Wei	Date Received: 03/20/09
	Client P.O.:	Date Extracted: 03/31/09
		Date Analyzed: 03/31/09-04/02/09

Total Extractable Petroleum Hydrocarbons*

Extraction method: SW3550C

Analytical methods: SW8015B

Work Order: 0903536

Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	TPH-Motor Oil (C18-C36)	DF	% SS
0903536-001A	T-3A	S	ND	ND	1	105
0903536-002A	T-5A	S	2.6,e7,e2	23	1	102
0903536-004A	T-8A	S	6.0,e7,e2	36	2	96
0903536-005A	T-9A	S	4.8,e7,e2	39	2	98
0903536-006A	T-11A	S	1.6,e7,e2	13	1	98
0903536-007A	T-12A	S	2.1,e7,e2	6.3	1	100

Reporting Limit for DF = 1; ND means not detected at or above the reporting limit	W	NA	NA	ug/L
	S	1.0	5.0	mg/Kg

* water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation:

e2) diesel range compounds are significant; no recognizable pattern

e7) oil range compounds are significant

 Angela Rydelius, Lab Manager



QC SUMMARY REPORT FOR 6020A

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder: 0903536

Table with columns: EPA Method 6020A, Extraction SW3050B, BatchID: 42306, Spiked Sample ID 0903668-001A. Rows include analytes like Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Mercury, Molybdenum, Nickel, Selenium, Silver, Thallium, Vanadium, Zinc, and %SS.

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 42306 SUMMARY

Summary table with columns: Lab ID, Date Sampled, Date Extracted, Date Analyzed. Contains 8 rows of sample data.

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



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QC SUMMARY REPORT FOR 6020A

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 42346

WorkOrder 0903536

EPA Method 6020A		Extraction CA Title 22							Spiked Sample ID: N/A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Arsenic	N/A	10	N/A	N/A	N/A	98.3	97.1	1.27	N/A	N/A	80 - 120	20
Chromium	N/A	10	N/A	N/A	N/A	105	104	0.861	N/A	N/A	80 - 120	20
Lead	N/A	10	N/A	N/A	N/A	95.7	93.9	1.88	N/A	N/A	80 - 120	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 42346 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0903536-003A	03/19/09	03/31/09	04/06/09 5:26 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = $100 * (MS - Sample) / (Amount Spiked)$; RPD = $100 * (MS - MSD) / ((MS + MSD) / 2)$.

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



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QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 42247

WorkOrder: 0903536

Analyte	Extraction SW3550C			Spiked Sample ID: 0903614-006A								
	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH-Diesel (C10-C23)	11,000	20	NR	NR	NR	107	106	1.13	70 - 130	30	70 - 130	30
%SS:	93	50	94	111	16.5	108	106	2.03	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 42247 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0903536-001A	03/19/09	03/31/09	03/31/09 9:16 PM	0903536-002A	03/19/09	03/31/09	04/01/09 8:54 AM
0903536-004A	03/19/09	03/31/09	04/01/09 8:54 AM	0903536-005A	03/19/09	03/31/09	04/02/09 7:43 PM
0903536-006A	03/19/09	03/31/09	04/02/09 12:11 AM	0903536-007A	03/19/09	03/31/09	04/02/09 6:34 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = $100 * (MS - Sample) / (Amount Spiked)$; RPD = $100 * (MS - MSD) / ((MS + MSD) / 2)$.

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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0903536

CHAIN OF CUSTODY RECORD

TURN AROUND TIME RUSH 24 HR 48 HR 72 HR 5 DAY
 GeoTracker EDF PDF Excel Write On (DW)

Report To: Peter Wzi Bill To: Same
Company: Berlogar Geotechnical Consultants
55 ST Canal Blvd
Pleasanton, CA 94566 E-Mail: pwzi@berlogar.com
Tele: 925-434-0220 Fax: 925-846-9645
Project #: 3126002 Project Name: Transperk+071
Project Location: Pleasanton corridor
Sampler Signature: *[Signature]*

Analysis Request

Other **Comments**

MTBE / BTEX & TPH as Gas (802 / 8021 / 8015)
MTBE / BTEX ONLY (EPA 802 / 8021)
TPH as Diesel / Motor Oil (8015)
TPH ONLY (EPA 801 / 8015)
EPA 905 / 808 / 8081 (CI Pesticides) + PCBs
EPA 808 / 8082 (PCBs ONLY) / Aroclors / Congeners
EPA 807 / 811 (NP Pesticides)
EPA 815 / 8151 (Acidic CI Herbicides)
EPA 824.2 / 824 / 8240 (VOCs)
EPA 825.2 / 825 / 8250 (SVOCs)
EPA 8170 (NI) / 8310 (PARs) / PNAI
CAMEL Metals (200.7 / 200.8 / 6010 / 6020)
LEAD Metals (200.7 / 200.8 / 6010 / 6020)
Lead (200.7 / 200.8 / 6010 / 6020)

Filter Samples for Metals analysis: Yes No

SAMPLE ID	LOCATION/ Field Point Name	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED							
		Date	Time			Water	Soil	Air	Sludge	Other	ICE	HCL	HNO ₃	Other				
T-3A		3-19-09		1														
T-5A				1														
T-6A				1														
T-8A				1														
T-9A				1														
T-11A				1														
T-12A				1														

Relinquished By: *[Signature]* Date: 3/20/09 Time: 3:15 Received By: *[Signature]*
Relinquished By: *[Signature]* Date: 3/20/09 Time: 6:00 Received By: *[Signature]*
Relinquished By: _____ Date: _____ Time: _____ Received By: _____

ICE/ GOOD CONDITION
HEAD SPACE ABSENT
DECHLORINATED IN LAB
APPROPRIATE CONTAINERS
PRESERVED IN LAB
VOAS O&G METALS OTHER
PRESERVATION pH<2

Handwritten notes and signatures in the 'Other' column.

McCampbell Analytical, Inc.



1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 090353 **A** ClientCode: BGCP

WriteOn EDF Excel Fax Email HardCopy ThirdParty J-flag

Report to:

Peter Wei
Berlogar Geotechnical Consultants
5587 Sunol Boulevard
Pleasanton, CA 94566
(925) 484-0220 FAX (925) 846-9645

Email: pwei@berlogar.com
cc:
PO:
ProjectNo: #3126.002; Transportation Corridor

Bill to:

Bill Stevens
Berlogar Geotechnical Consultants
5587 Sunol Boulevard
Pleasanton, CA 94566

Requested TAT: 5 days
Date Received: 03/20/2009
Date Add-On: 03/31/2009
Date Printed: 03/31/2009

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
0903536-001	T-3A	Soil	3/19/2009	<input type="checkbox"/>	A		A										
0903536-002	T-5A	Soil	3/19/2009	<input type="checkbox"/>	A		A										
0903536-003	T-6A	Soil	3/19/2009	<input type="checkbox"/>		A											
0903536-004	T-8A	Soil	3/19/2009	<input type="checkbox"/>	A		A										
0903536-005	T-9A	Soil	3/19/2009	<input type="checkbox"/>	A		A										
0903536-006	T-11A	Soil	3/19/2009	<input type="checkbox"/>	A		A										
0903536-007	T-12A	Soil	3/19/2009	<input type="checkbox"/>	A		A										

Test Legend:

1	CAM17MS S	2	STLCMETALMS S	3	TPH(DMO) S	4		5	
6		7		8		9		10	
11		12							

Prepared by: Samantha Arbuckle

Comments: TPH DMO, Cam 17 and STLC metals added on 3/31/09 on a std tat

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.



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Berlogar Geotechnical Consultants 5587 Sunol Boulevard Pleasanton, CA 94566	Client Project ID: #3126.002; Transporation Corridor	Date Sampled: 03/19/09
	Client Contact: Peter Wei	Date Received 03/20/09
	Client P.O.:	Date Extracted 03/30/09
		Date Analyzed 04/02/09

CAM / CCR 17 Metals*

Lab ID	0903535-006A	0903535-007A	0903535-008A	0903535-009A	Reporting Limit for DF = 1: ND means not detected above the reporting limit	
Client ID	T-1B	T-2B	T-4B	T-7B	S	W
Matrix	S	S	S	S		
Extraction Type	TOTAL	TOTAL	TOTAL	TOTAL	mg/Kg	mg/L

ICP-MS Metals, Concentration*

Analytical Method: 6020A

Extraction Method: SW3050B

Work Order: 0903535

Dilution Factor	1	1	1	1	1	1
Antimony	1.9	28	0.84	1.2	0.5	NA
Arsenic	7.0	67	22	96	0.5	NA
Barium	140	130	180	110	5.0	NA
Beryllium	ND	ND	ND	ND	0.5	NA
Cadmium	ND	0.31	ND	ND	0.25	NA
Chromium	44	46	46	35	0.5	NA
Cobalt	8.0	8.4	8.8	6.9	0.5	NA
Copper	19	96	19	12	0.5	NA
Lead	9.4	190	6.3	4.4	0.5	NA
Mercury	ND	0.12	ND	0.052	0.05	NA
Molybdenum	ND	ND	ND	ND	0.5	NA
Nickel	46	55	51	33	0.5	NA
Selenium	ND	ND	ND	ND	0.5	NA
Silver	ND	ND	ND	ND	0.5	NA
Thallium	ND	ND	ND	ND	0.5	NA
Vanadium	35	36	37	35	0.5	NA
Zinc	41	99	45	33	5.0	NA
%SS	109	102	100	104		

Comments

*water samples are reported in µg/L, product/oil/non-aqueous liquid samples and all TCLP / STLC / DISTLC / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter.

means surrogate diluted out of range; ND means not detected above the reporting limit; N/A means not applicable to this sample or instrument.

TOTAL = acid digestion.

WET = Waste Extraction Test (STLC).

DI WE1 = Waste Extraction Test using de-ionized water.



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Berlogar Geotechnical Consultants 5587 Sunol Boulevard Pleasanton, CA 94566	Client Project ID: #3126.002; Transportation Corridor	Date Sampled: 03/19/09
	Client Contact: Peter Wei	Date Received 03/20/09
	Client P.O.:	Date Extracted 03/30/09
		Date Analyzed 04/02/09

CAM / CCR 17 Metals*

Lab ID	0903535-010A				Reporting Limit for DF = 1: ND means not detected above the reporting limit	
Client ID	T-10B					
Matrix	S			S		W
Extraction Type	TOTAL			mg/Kg		mg/L

ICP-MS Metals, Concentration*

Analytical Method: 6020A	Extraction Method: SW3050B	Work Order: 0903535		
Dilution Factor	1	1	1	
Antimony	0.59		0.5	NA
Arsenic	6.7		0.5	NA
Barium	200		5.0	NA
Beryllium	0.50		0.5	NA
Cadmium	ND		0.25	NA
Chromium	59		0.5	NA
Cobalt	10		0.5	NA
Copper	20		0.5	NA
Lead	7.3		0.5	NA
Mercury	ND		0.05	NA
Molybdenum	ND		0.5	NA
Nickel	89		0.5	NA
Selenium	ND		0.5	NA
Silver	ND		0.5	NA
Thallium	ND		0.5	NA
Vanadium	46		0.5	NA
Zinc	48		5.0	NA
%SS:	117			

Comments

*water samples are reported in µg/L, product/oil/non-aqueous liquid samples and all TCLP / STLC / DISTLC / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter.

means surrogate diluted out of range, ND means not detected above the reporting limit; N/A means not applicable to this sample or instrument.

TOTAL = acid digestion.
WET = Waste Extraction Test (STLC).
DI WET = Waste Extraction Test using de-ionized water.



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Berloger Geotechnical Consultants 5587 Sunol Boulevard Pleasanton, CA 94566	Client Project ID: #3126.002: Transportation Corridor	Date Sampled: 03/19/09
	Client Contact: Peter Wei	Date Received: 03/20/09
	Client P.O.:	Date Extracted: 03/30/09-04/01/09
		Date Analyzed: 04/02/09

Metals*

Extraction method CA Title 22

Analytical methods 6020A

Work Order: 0903535


Lab ID	Client ID	Matrix	Extraction Type	Arsenic	Chromium	Lead	DF	% SS
001A	T-1A	S	WET	2.4	0.13	11	1	N/A
002A	T-2A	S	WET	0.17	ND	0.14	1	N/A
003A	T-4A	S	WET	11	ND	1.7	1	N/A
004A	T-7A	S	WET	11	ND	0.75	1	N/A
005A	T-10A	S	WET	1.8	ND	1.8	1	N/A

Reporting Limit for DF = 1; ND means not detected at or above the reporting limit	W	TOTAL	NA	NA	NA	NA
	S	WET	0.1	0.1	0.1	mg/L

*water samples are reported in µg/L, product/oil/non-aqueous liquid samples and all TCLP / STLC / DISTLC / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter.

means surrogate diluted out of range; ND means not detected above the reporting limit; N/A means not applicable to this sample or instrument.

TOTAL = acid digestion.
WET = Waste Extraction Test (STLC).
DI WET = Waste Extraction Test using de-ionized water.

 Angela Rydelius, Lab Manager



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Berlogar Geotechnical Consultants 5587 Sunol Boulevard Pleasanton, CA 94566	Client Project ID: #3126.002; Transporation Corridor	Date Sampled: 03/19/09
	Client Contact: Peter Wei	Date Received: 03/20/09
	Client P.O.:	Date Extracted: 03/30/09
		Date Analyzed: 03/31/09

Total Extractable Petroleum Hydrocarbons*

Extraction method: SW3550C

Analytical methods: SW8015B

Work Order: 0903535

Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	TPH-Motor Oil (C18-C36)	DF	% SS
0903535-006A	T-1B	S	ND	ND	1	106
0903535-007A	T-2B	S	ND,e7	5.9	1	96
0903535-008A	T-4B	S	ND	ND	1	105
0903535-009A	T-7B	S	ND	ND	1	107
0903535-010A	T-10B	S	ND	ND	1	107


Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	NA	NA	ug/L
	S	1.0	5.0	mg/Kg

* water samples are reported in ug/L, wipe samples in ug/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in ug/L.

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation:

e7) oil range compounds are significant

 Angela Rydelius, Lab Manager



QC SUMMARY REPORT FOR 6020A

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder 0903535

Table with columns: EPA Method 6020A, Extraction SW3050B, BatchID: 42332, Spiked Sample ID 0903707-001A. Rows include analytes like Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Mercury, Molybdenum, Nickel, Selenium, Silver, Thallium, Vanadium, Zinc, and %SS.

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 42332 SUMMARY

Summary table with columns: Lab ID, Date Sampled, Date Extracted, Date Analyzed. Rows show sample IDs 0903535-006A, 0903535-007A, 0903535-008A, 0903535-009A, 0903535-010A.

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



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QC SUMMARY REPORT FOR 6020A

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 42346

WorkOrder 0903535

EPA Method 6020A		Extraction CA Title 22							Spiked Sample ID: N/A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Arsenic	N/A	10	N/A	N/A	N/A	98.3	97.1	1.27	N/A	N/A	80 - 120	20
Chromium	N/A	10	N/A	N/A	N/A	105	104	0.861	N/A	N/A	80 - 120	20
Lead	N/A	10	N/A	N/A	N/A	95.7	93.9	1.88	N/A	N/A	80 - 120	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 42346 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0903535-001A	03/19/09	03/30/09	04/02/09 9:08 PM	0903535-002A	03/19/09	03/30/09	04/02/09 9:16 PM
0903535-003A	03/19/09	03/30/09	04/02/09 9:25 PM	0903535-004A	03/19/09	03/30/09	04/02/09 9:33 PM
0903535-005A	03/19/09	03/30/09	04/02/09 10:05 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = $100 * (MS - Sample) / (Amount Spiked)$; RPD = $100 * (MS - MSD) / ((MS + MSD) / 2)$.

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mcccampbell.com E-mail: main@mcccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 42247

WorkOrder 0903535

Analyte	Extraction SW3550C		Spiked Sample ID: 0903614-006A									
	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH-Diesel (C10-C23)	11,000	20	NR	NR	NR	107	106	1.13	70 - 130	30	70 - 130	30
%SS:	93	50	94	111	16.5	108	106	2.03	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 42247 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0903535-006A	03/19/09	03/30/09	03/31/09 7:50 AM	0903535-007A	03/19/09	03/30/09	03/31/09 8:47 PM
0903535-008A	03/19/09	03/30/09	03/31/09 5:33 AM	0903535-009A	03/19/09	03/30/09	03/31/09 4:25 AM
0903535-010A	03/19/09	03/30/09	03/31/09 3:17 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.


% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS ELAP Certification 1644

 QA/QC Officer

McCAMPBELL ANALYTICAL, INC.

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Telephone: (877) 252-9262 Fax: (925) 252-9269

00103535

CHAIN OF CUSTODY RECORD

TURN AROUND TIME 24 HR 18 HR 12 HR 5 DAYS
 GeoTracker EDF PDF Excel Write On (DW)

Report To: Peter Wei Bill To: Name
 Company: Berlogar Geotechnical Consultants
 5557 Suncoi Blvd
 Pleasanton, CA 94566 E-Mail: Pwei@berlogar.com
 Tele: 925-484-0220 Fax: 925-846-9645
 Project #: 3126 002 Project Name: Iron-Paration
 Project Location: Pleasanton
 Sampler Signature: *[Signature]*

Analysis Request

Other **Comments**

MTBE: BTEX & TPH at Gas (601, 801, 9015)
 MTBF: BTEX ONLY (EPA 821, 9011)
 TPH at Diesel Motor Oil (9015)
 Total Petroleum Oil & Grease (1604, 5420 L-D&F)
 Total Petroleum Hydrocarbons (11X 1)
 EPA 902.2-901, 9010, 9021 (11X 04 1)
 EPA 909-908, 9081 (C) Pesticides & PCBs
 EPA 908.1-9082 PC BY (11X), Anilines & naphthalene
 EPA 907, 911 (NP Pesticides)
 EPA 915, 9151 (Acids & Herbicides)
 EPA 924.1-924, 9260 (11X 1)
 EPA 925.2-925, 9270 (11X 1)
 EPA 929-NM-9310 (PAHs) (PN 1)
 CAS 17: Metals (200.7, 200.9, 9010, 6020)
 LEAD (200.7, 200.8, 9010, 6020)
 Lead (200.7, 200.8, 9010, 6020)

Filter Samples for Metals analysis: Yes / No
 HOLD
 3HC ARSENIC (180),
 3HC MERCURY (180)

SAMPLE ID	LOCATION Field Point Name	SAMPLING		Type Containers		MATRIX					METHOD PRESERVED			
		Date	Time	# Containers	Type Containers	Water	Soil	Air	Sludge	Other	ICE	HCL	HNO ₃	Other
T-1A		3-19-09		1			✓				✓			
T-2A		↓		1			✓				✓			
T-4A		↓		1			✓				✓			
T-7A		↓		1			✓				✓			
T-10A		↓		1			✓				✓			
T-1B		3-19-09		1			✓				✓			
T-2B		↓		1			✓				✓			
T-4B		↓		1			✓				✓			
T-7B		↓		1			✓				✓			
T-10B		↓		1			✓				✓			

Relinquished By: *[Signature]* Date: 3/24/09 Time: 2:45
 Received By: *[Signature]*
 Relinquished By: *[Signature]* Date: 3/24/09 Time: 6:00
 Received By: *[Signature]*
 Relinquished By: _____ Date: _____ Time: _____
 Received By: _____

ICE: 4034 900
 GOOD CONDITION
 HEAD SPACE ABSENT
 DECONTAMINATED IN LAB
 APPROPRIATE CONTAINERS
 PRESERVED IN LAB
 COMMENTS:
 VOAS ORG METALS OTHER
 PRESERVATION pH-2

McC Campbell Analytical, Inc.



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Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 090353 **A** ClientCode: BGCP

WriteOn EDF Excel Fax Email HardCopy ThirdParty J-flag

Report to:

Peter Wei
Berlogar Geotechnical Consultants
5587 Sunol Boulevard
Pleasanton, CA 94566
(925) 484-0220 FAX (925) 846-9645

Email: pwei@berlogar.com
cc:
PO:
ProjectNo: #3126.002; Transportation Corridor

Bill to:

Bill Stevens
Berlogar Geotechnical Consultants
5587 Sunol Boulevard
Pleasanton, CA 94566

Requested TAT: 5 days

Date Received: 03/20/2009

Date Add-On: 03/30/2009

Date Printed: 03/30/2009

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)													
					1	2	3	4	5	6	7	8	9	10	11	12		
0903535-001	T-1A	Soil	3/19/2009	<input type="checkbox"/>		A												
0903535-002	T-2A	Soil	3/19/2009	<input type="checkbox"/>		A												
0903535-003	T-4A	Soil	3/19/2009	<input type="checkbox"/>		A												
0903535-004	T-7A	Soil	3/19/2009	<input type="checkbox"/>		A												
0903535-005	T-10A	Soil	3/19/2009	<input type="checkbox"/>		A												
0903535-006	T-1B	Soil	3/19/2009	<input type="checkbox"/>	A		A											
0903535-007	T-2B	Soil	3/19/2009	<input type="checkbox"/>	A		A											
0903535-008	T-4B	Soil	3/19/2009	<input type="checkbox"/>	A		A											
0903535-009	T-7B	Soil	3/19/2009	<input type="checkbox"/>	A		A											
0903535-010	T-10B	Soil	3/19/2009	<input type="checkbox"/>	A		A											

Test Legend:

1	CAM17MS S	2	STLCMETALMS S	3	TPH(DMO) S	4		5	
6		7		8		9		10	
11		12							

Prepared by: Samantha Arbuckle

Comments: STLC As,Pb,Cr added 001,002,003,004, & 005. DMO & CAM17 added 006,007,008,009,010. 3/30/09 5d Per Fax

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.