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By Alameda County Environmental Health at 3:48 pm, Feb 08, 2013

February 5, 2013

Mr. Mark Detterman  
Hazardous Materials Specialist  
Alameda County Environmental Health Services  
Environmental Protection, Local Oversight Program  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577

**Subject: Letter of Transmittal for Subsurface Investigation Letter Report, Former McGrath Steel, 6655 Hollis Street, Emeryville, California 94608, ACEH Fuel Leak Case No. RO0000063, GeoTracker Global ID No. T0600102099**

Dear Mr. Detterman:

As requested in your letter dated November 8, 2012 approving our *Additional Site Characterization Workplan Addendum* dated July 31, 2012, which proposed additional plume delineation at the above-referenced subject site as required in your letters of May 2, 2012, November 19, 2010 and April 7, 2006, we submit this transmittal letter and accompanying *Subsurface Investigation* letter report and data packet.

I 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 my knowledge.

Sincerely,

MCG Investments LLC,  
A California limited liability  
Company



Walter F. Merkle,  
Authorized Agent



**AllWest Environmental, Inc.**

Specialists in Physical Due  
Diligence and Remedial Services

530 Howard Street, Suite 300  
San Francisco, CA 94105  
Tel 415.391.2510  
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February 4, 2013

Mr. Mark Detterman  
Hazardous Materials Specialist  
Alameda County Environmental Health Services  
Environmental Protection, Local Oversight Program  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577

**Subject: Subsurface Investigation, Former McGrath Steel, 6655 Hollis Street,  
Emeryville, California, ACEH Fuel Leak Case No. RO0000063, GeoTracker  
Global ID No. T0600102099  
AllWest Project Number 11124.23**

Dear Mr. Detterman:

AllWest has conducted a subsurface investigation at the subject site above (Figures 1 and 2), as proposed in our *Additional Site Characterization Workplan Addendum* (July 31, 2012). Eleven soil borings (B15 through B25) were advanced by the direct push technology (DPT) continuous coring method to collect soil and groundwater samples to further delineate the extent of petroleum hydrocarbons and free product in the subsurface in the vicinity of the former USTs and fuel dispensers, and downgradient to cross-gradient from the subject site. The borings were advanced to depths of 9 to 30 feet bgs to intersect the first encountered water-bearing zone. Boring locations are shown on Figure 3. Boring logs are included in Attachment A.

All soil samples from source area borings B20 through B24 were analyzed for total petroleum hydrocarbons as diesel (TPH-d) per EPA Method 8015 with silica gel cleanup, for total petroleum hydrocarbons as mineral spirits (TPH-ms) per EPA Method 8015Bm, for total petroleum hydrocarbons as gasoline (TPH-g) and volatile organic compounds (VOCs) (full scan) by EPA Method 8260, and for polynuclear aromatic hydrocarbons (PNAs/PAHs) by EPA Method 8270C-SIM. Soil samples from downgradient borings B15 through B19 and B25 were analyzed for the same constituents except TPH-g and benzene, toluene, ethylbenzene and total xylenes (BTEX) were analyzed per EPA Method 8015/8021.

All groundwater samples were analyzed for TPH-d by EPA Method 8015 with silica gel cleanup, for TPH-ms by EPA Method 8015 Bm, and for TPH-g and full VOC scan including fuel oxygenates diisopropyl ether (DIPE), ethyl tertiary butyl ether (ETBE), methyl tertiary butyl ether (MTBE), tertiary amyl methyl ether (TAME) and tertiary butyl ether (TBA), and lead

scavengers 1,2-dibromoethene (EDB) and 1,2-dichloroethane (EDC) by EPA Method 8260. All groundwater samples were analyzed for PNAs/PAHs by EPA method 8270C-SIM except for the groundwater samples collected from borings B16 and B21; there was an insufficient quantity of groundwater in those borings to collect samples for PNA/PAH analysis.

TPH-g was detected in soil at a maximum concentration of 2,000 milligrams per kilogram (mg/kg) in boring B20, located down-gradient from the former McGrath USTs at a depth of 12 to 12.5 feet below ground surface (bgs). The maximum TPH-ms concentration detected in soil samples collected during this investigation was 1,200 mg/kg in boring B20 at 12-12.5 feet bgs and in boring B21 (located adjacent to the former McGrath USTs) at 10-10.5 feet bgs. The maximum TPH-d concentration in soil was 180 mg/kg in boring B21 at a depth of 10-10.5 feet bgs, with significant gasoline range compounds (Table 1). PAH/PNA soil analytical results are summarized in Table 2.


In the groundwater samples, TPH-g was detected at a maximum concentration of 160,000 micrograms per liter ( $\mu\text{g/L}$ ) in boring B20. TPH-ms was detected at a maximum concentration of 22,000 mg/L in boring B20. TPH-d with gasoline range compounds characterized as significant was detected at a maximum concentration of 95,000  $\mu\text{g/L}$  in boring B20. Benzene was detected at a maximum concentration of 21,000 in boring B20 (Table 3). Groundwater PNA/PAH analytical data are summarized in Table 4. Laboratory analytical reports and chain-of-custody documents are attached as Attachment B.

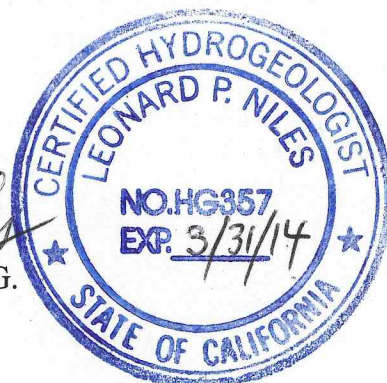
AllWest proposes the installation of the down-gradient groundwater monitoring wells AMW-1, AMW-2, and AMW-3 based on the analytical results of this preliminary subsurface investigation. The proposed locations of the monitoring wells are shown on Figure 3.

If you have any questions, or would like to further discuss the above issues, please call me at (415) 391-2510, extension 109.

Sincerely,

AllWest Environmental, Inc.

  
Leonard P. Niles, P.G., C.H.G.  
Senior Project Manager



CC: Walter F. Merkle, MCG Investments LLC

FIGURES:

Figure 1: Site Map

Figure 2: Site Plan with Historical Boring & Monitoring Well Locations

Figure 3: 2013 Boring and Proposed Monitoring Well Locations

TABLES:

Table 1: Summary of Soil Analytical Data, Total Petroleum Hydrocarbons and VOCs

Table 2: Summary of Soil Analytical Data, PNAs/PAHs

Table 3: Summary of Groundwater Analytical Data, Total Petroleum Hydrocarbons and VOCs

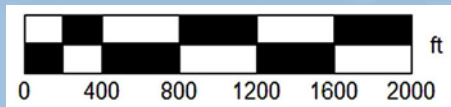
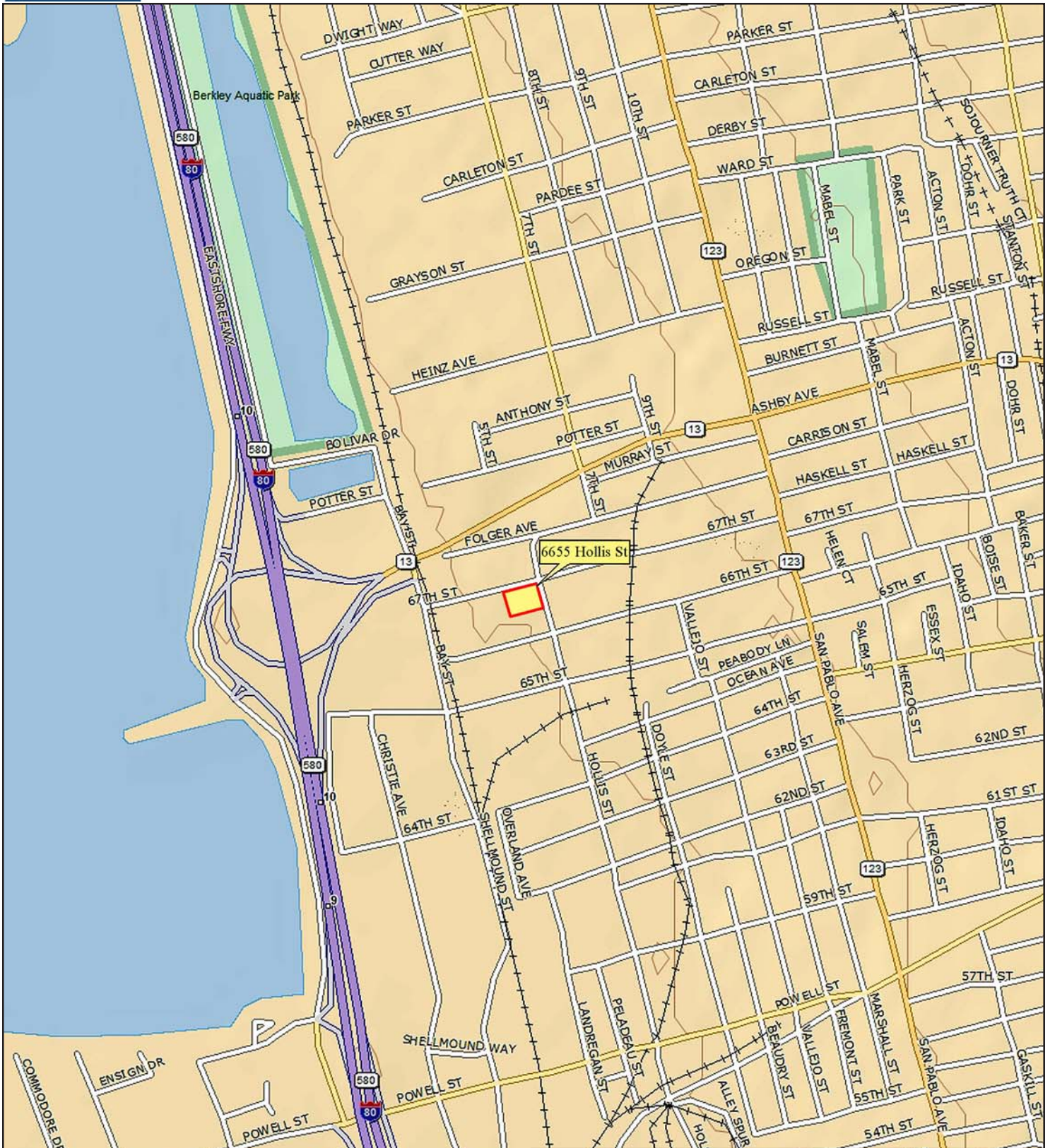
Table 4: Summary of Groundwater Analytical Data, PNAs/PAHs

ATTACHMENTS:

Attachment A: Boring Logs

Attachment B: Laboratory Analytical Reports and Chain-of-Custody Documents

# FIGURES

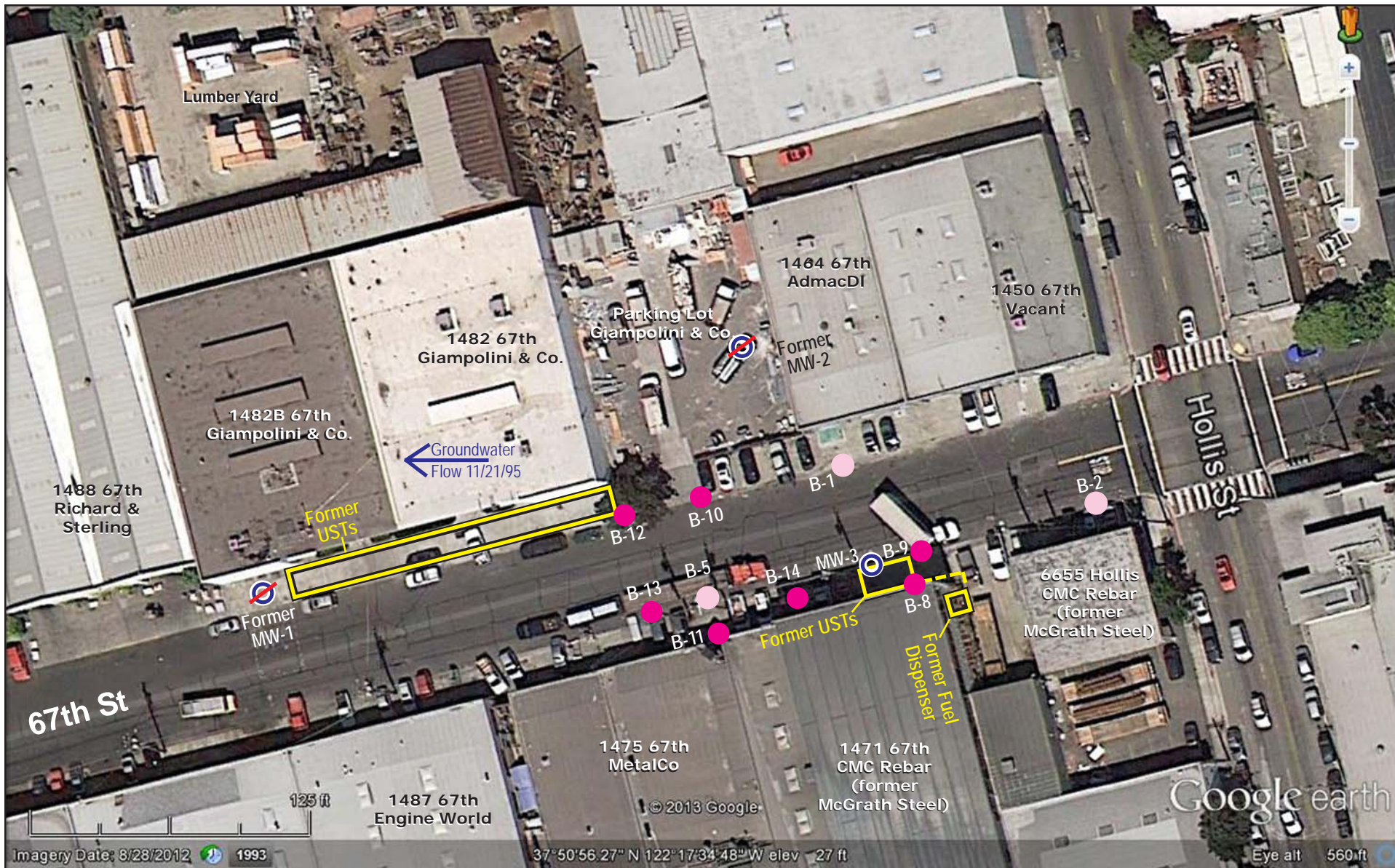


**FIGURE 1**  
**SITE MAP**

6655 HOLLIS STREET  
EMERYVILLE, CALIFORNIA  
SOURCE: DELORME TOPO 8.0

PROJECT NO.  
11124.23

PREPARED BY: C. RAMELB  
DATE: 09/22/11



MW-3 Existing Monitoring Well (ESC, 1995)				<b>FIGURE 2: SITE PLAN WITH HISTORICAL BORING &amp; MONITORING WELL LOCATIONS</b>
MW-1 Former Monitoring Well (Clearprint / ESC, Destroyed 2005)				FORMER McGRATH STEEL
B-1 Boring (Weiss Associates, 1998)		6655 HOLLIS STREET		
B-8 Boring (Weiss Associates, 2005)		EMERYVILLE, CALIFORNIA		
Former USTs and Fuel Dispensers (removed 1994 & 1996)	SCALE AS SHOWN	PROJECT NO. 11124.23	SOURCE: GOOGLE EARTH AND ALLWEST	
			PREPARED BY: L. NILES / C. RAMELB (01/31/13)	



<ul style="list-style-type: none"> <li><span style="color: blue;">⊙</span> MW-3 Existing Monitoring Well</li> <li><span style="color: green;">⊙</span> B-15 Soil Borings, January 16, 17, 18, 2013</li> <li><span style="color: red;">⊙</span> AMW-1 Proposed Monitoring Well</li> <li><span style="border: 2px solid yellow; display: inline-block; width: 20px; height: 10px;"></span> Former USTs and Fuel Dispensers</li> </ul>	<p>SCALE AS SHOWN</p>	<p>PROJECT NO. 11124.23</p>	<p><b>FIGURE 3: 2013 BORING AND PROPOSED MONITORING WELL LOCATIONS</b></p> <p>FORMER McGRATH STEEL 6655 HOLLIS STREET EMERYVILLE, CALIFORNIA</p> <p>SOURCE: GOOGLE EARTH AND ALLWEST PREPARED BY: L. NILES / C. RAMELB (01/31/13)</p>
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# TABLES

**TABLE 1**  
**Summary of Soil Analytical Data**  
**Total Petroleum Hydrocarbons and VOCs**  
Former McGrath Steel  
6655 Hollis Street  
Emeryville, California  
AllWest Project No. 11124.23

Sample Name and Depth (feet bgs)	Date Sampled	TPH-g (mg/kg)	TPH-ms (mg/kg)	TPH-d (mg/kg)	TPH-mo* (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	MTBE (mg/kg)	Other VOCs (mg/kg)
B15-10-10.5 (qualifiers)	1/17/2013	ND <1.0	ND <1.0	ND <1.0	NA	ND <0.005	ND <0.005	ND <0.005	0.012	ND <0.05	NA
B15-19.5-20 (qualifiers)	1/17/2013	ND <1.0	ND <1.0	2.7 e2	NA	ND <0.005	ND <0.005	ND <0.005	0.007	ND <0.05	NA
B16-8.5-9 (qualifiers)	1/17/2013	110 d1	59 d1	3.8 e4	NA	0.84	4.8	2.8	13	ND <0.50	NA
B16-11.5-12 (qualifiers)	1/17/2013	260 d1	130 d1	9.6 e4	NA	2.9	16	5.7	24	ND <1.5	NA
B16-14.5-15 (qualifiers)	1/17/2013	140 d1	84 d1	3.7 e4	NA	2.6	10	2.6	16	ND <1.0	NA
B17-8.5-9 (qualifiers)	1/16/2013	ND <1.0	ND <1.0	ND <1.0	ND <5.0	ND <0.005	ND <0.005	ND <0.005	ND <0.005	ND <1.0	NA
B18-10-10.5 (qualifiers)	1/16/2013	450 d2, d9	430 d2, d9	60 e4, e2	5.4 e4, e2	ND <0.50	ND <0.50	8.0	25	ND <5.0	NA
B18-15.5-16 (qualifiers)	1/16/2013	ND <1.0 d1	ND <1.0 d1	2.4 e2	ND <5.0 e2	ND <0.005	ND <0.005	ND <0.005	ND <0.005	ND <0.05	NA
B19-10-10.5 (qualifiers)	1/16/2013	360 d1	350 d1	32 e4	ND <5.0 e4	0.31	0.23	8.8	26	ND <1.0	NA
B19-14.5-15 (qualifiers)	1/16/2013	240 d1	240 d1	11 e4	ND <5.0 e4	0.12	0.16	5.7	14	ND <1.0	NA
B20-10-10.5 (qualifiers)	1/17/2013	480	280 d1	90 e4	NA	2.2	17	7.1	42	ND <0.50	2.3 (n-butyl benzene), 3.3 (naphthalene), 19 (1,2,4-trimethylbenzene), 0.67 (isopropylbenzene), 2.9 (n-propyl benzene), 6.5 (1,3,5-trimethylbenzene), ND (others - varies)
B20-12-12.5 (qualifiers)	1/17/2013	2,000	1,200 d1	24 e4	NA	8.0	92	35	210	ND <5.0	9.1 (n-butyl benzene), 14 (naphthalene), 89 (1,2,4-trimethylbenzene), 13 (n-propyl benzene), 29 (1,3,5-trimethylbenzene), ND (others - varies)
B20-14.5-15 (qualifiers)	1/17/2013	27	15 d1	5.1 e4	NA	0.72	1.5	0.37	2.2	0.28	0.17 (naphthalene), 0.66 (1,2,4-trimethylbenzene), 0.21 (1,3,5-trimethylbenzene), ND (others - varies)
B21-4.5-5 (qualifiers)	1/18/2013	280	410 d1	40 e2, e4	NA	ND <0.50 a13	4.3 a13	3.2 a13	19 a13	0.98 a13	3.3 (naphthalene), 13 (1,2,4-trimethylbenzene), 1.8 (n-propyl benzene), 4.1 (1,3,5-trimethylbenzene), 1.8 (n-butyl benzene), ND (others - varies) a13
B21-10-10.5 (qualifiers)	1/18/2013	1,900	1,200 d1	180 e4	NA	12 a13	88 a13	31 a13	170 a13	7.6 a13	7.0 (n-butyl benzene), 9.6 (naphthalene), 68 (1,2,4-trimethylbenzene), 11 (n-propyl benzene), 23 (1,3,5-trimethylbenzene), ND (others - varies) a13
B21-21.5-22 (qualifiers)	1/18/2013	120	340 d1	22 e4	NA	1.2 a13	4.9 a13	1.8 a13	11 a13	12 a13	0.50 (n-butyl benzene), 0.77 (naphthalene), 4.6 (1,2,4-trimethylbenzene), 0.67 (n-propyl benzene), 1.5 (1,3,5-trimethylbenzene), ND (others - varies) a13

**TABLE 1**  
**Summary of Soil Analytical Data**  
**Total Petroleum Hydrocarbons and VOCs**  
Former McGrath Steel  
6655 Hollis Street  
Emeryville, California  
AllWest Project No. 11124.23

Sample Name and Depth (feet bgs)	Date Sampled	TPH-g (mg/kg)	TPH-ms (mg/kg)	TPH-d (mg/kg)	TPH-mo* (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	MTBE (mg/kg)	Other VOCs (mg/kg)
B22-4.5-5 (qualifiers)	1/18/2013	92	120	9.1	NA	0.16	ND <0.12	1.5	6.3	0.45	0.54 (n-butyl benzene), 0.13 (4-isopropyl toluene), 0.74 (naphthalene), 4.2 (1,2,4-trimethylbenzene), 0.16 (isopropylbenzene), 0.74 (n-propyl benzene), 1.4 (1,3,5-trimethylbenzene), ND (others - varies) a13
B22-10-10.5 (qualifiers)	1/18/2013	68	280	17	NA	0.79	3.3	1.2	6.0	3.1	0.27 (n-butyl benzene), 0.47 (naphthalene), 2.6 (1,2,4-trimethylbenzene), 0.39 (n-propyl benzene), 0.85 (1,3,5-trimethylbenzene), ND (others - varies) a13
B22-14.5-15 (qualifiers)	1/18/2013	30	20	3.2	NA	1.2	1.7	0.46	2.1	1.2	0.11 (n-butyl benzene), 0.14 (naphthalene), 0.81 (1,2,4-trimethylbenzene), 0.14 (n-propyl benzene), 0.26 (1,3,5-trimethylbenzene), ND (others - varies) a13
B23-5-5.5 (qualifiers)	1/17/2013	ND <0.25	ND <1.0	ND <1.0	NA	ND <0.005	ND <0.005	ND <0.005	ND <0.005	ND <0.005	ND (varies)
B23-8.5-9 (qualifiers)	1/17/2013	0.57	ND <1.0	15	NA	ND <0.005	ND <0.005	ND <0.005	ND <0.005	ND <0.005	ND (varies)
B24-4.5-5 (qualifiers)	1/18/2013	0.45	ND <1.0	1.8	NA	ND <0.005	ND <0.005	ND <0.005	ND <0.005	0.12	0.096 (acetone), 0.029 (2-butanone), ND (others - varies)
B24-8.5-9 (qualifiers)	1/18/2013	250	230	44	NA	0.53	6.8	4.1	23	0.53	1.2 (n-butyl benzene), 1.6 (naphthalene), 10 (1,2,4-trimethylbenzene), 1.6 (n-propyl benzene), 3.5 (1,3,5-trimethylbenzene), ND (others - varies) a13
B24-21.5-22 (qualifiers)	1/18/2013	1.6	4.2	2.2	NA	0.022	0.11	0.032	0.19	0.24	0.065 (1,2,4-trimethylbenzene), 0.019 (1,3,5-trimethylbenzene), ND (others - varies) a13
B25-10-10.5 (qualifiers)	1/16/2013	16	6.8	3.4	ND <5.0	0.0088	0.034	0.30	0.015	ND <0.05	NA
B25-15-15.5	1/16/2013	ND <1.0	ND <1.0	ND <1.0	ND <5.0	ND <0.005	ND <0.005	ND <0.005	ND <0.005	ND <0.05	NA
RWQCB Commercial/Industrial ESLs, ≤3 m (9.9 feet) bgs, drinking water		83	83	83	2,500	0.044	2.9	3.3	2.3	0.023	0.5 (acetone) 0.059 (1,3-dichloropropene) 2.8 (naphthalene) NE or varies (others)
RWQCB Commercial/Industrial ESLs, >3 m (9.9 feet) bgs, drinking water		83	83	83	5,000	0.044	2.9	3.3	2.3	0.023	0.5 (acetone) 0.059 (1,3-dichloropropene) 3.4 (naphthalene) NE or varies (others)
RWQCB Commercial/Industrial ESLs, ≤3 m (9.9 feet) bgs, non- drinking water		180	180	180	2,500	0.27	9.3	4.7	11	8.4	0.5 (acetone) 0.36 (1,3-dichloropropene) 2.8 (naphthalene) NE or varies (others)
RWQCB Commercial/Industrial ESLs, >3 m (9.9 feet) bgs, non- drinking water		180	180	180	5,000	2.0	9.3	4.7	11	8.4	0.5 (acetone) 2.9 (1,3-dichloropropene) 4.8 (naphthalene) NE or varies (others)

**TABLE 1**  
**Summary of Soil Analytical Data**  
**Total Petroleum Hydrocarbons and VOCs**  
Former McGrath Steel  
6655 Hollis Street  
Emeryville, California  
AllWest Project No. 11124.23

Sample Name and Depth (feet bgs)	Date Sampled	TPH-g (mg/kg)	TPH-ms (mg/kg)	TPH-d (mg/kg)	TPH-mo* (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	MTBE (mg/kg)	Other VOCs (mg/kg)
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**Notes:**

All samples analyzed by McCampbell Analytical, Inc., Pittsburg, California  
All results are reported in milligrams per kilogram (mg/kg)

- TPH-g Total petroleum hydrocarbons gasoline range (C6-C12), Analytical Method SW8021B/8015Bm for soil samples collected from borings B15, B16, B17, B18, B19 and B25; Analytical Method SW8260B for soil samples collected from borings B20, B21, B22, B23, and B24
- TPH-ms Total petroleum hydrocarbons mineral spirits range (C9-C12), Analytical Method SW8021/8015Bm
- TPH-d Total petroleum hydrocarbons as diesel (C10-C23), Analytical Method SW8015B with silica gel cleanup
- TPH-mo Total petroleum hydrocarbons as motor oil (C18-C36), Analytical Method SW8015B with silica gel cleanup
- MTBE Methyl tertiary butyl ether, Analytical Method SW8021B/8015Bm for soil samples collected from borings B15, B16, B17, B18, B19 and B25; Analytical Method SW8260B for soil samples collected from borings B20, B21, B22, B23 and B24
- BTEX Benzene, Toluene, Ethylbenze and Total Xylenes by Analytical Method SW8021B/8015Bm for soil samples collected from borings B15, B16, B17, B18, B19 and B25; Analytical Method SW8260B for soil samples collected from borings B20, B21, B22, B23 and B24
- VOCs Volatile organic compounds, Analytical Method SW8260B for soil samples collected from borings B20, B21, B22, B23 and B24 only
- ND <1.0 Not detected at or above listed reporting limit
- NE Not established

San Francisco Bay Regional Water Quality Control Board (SFRWQCB) Environmental Screening Levels (ESLs) for commercial/industrial land use where groundwater is a potential drinking water resource from Tables A and A2 and Tables C and C-2, *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater*. RWQCB, Interim Final November 2007, revised May 2008.

San Francisco Bay Regional Water Quality Control Board (SFRWQCB) Environmental Screening Levels (ESLs) for commercial/industrial land use where groundwater is not a potential drinking water resource from Tables B and B-2 and Tables D and D-2, *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater*. RWQCB, Interim Final November 2007, revised May 2008.

\* Analysis not requested by AllWest but performed anyway where listed

Laboratory Qualifiers:

- L - lighter hydrocarbons contributed to the quantitation
- Y - sample exhibits chromatographic pattern which does not resemble standard
- a13 - reporting limit raised due to low density sample
- d1 - weakly modified or unmodified gasoline is significant
- e2 - diesel range compounds are significant; no recognizable pattern
- e4 - gasoline-range compounds are significant
- e7 - oil-range compounds are significant

**TABLE 2**  
**Summary of Soil Analytical Data**  
**PNAs/PAHs**  
Former McGrath Steel  
6655 Hollis Street  
Emeryville, California  
AllWest Project No. 11124.23

Sample Name and Depth (feet bgs)	Date Sampled	Benzo (a) anthracene (mg/kg)	Chrysene (mg/kg)	Fluoranthene (mg/kg)	1-Methylnaphthalene (mg/kg)	2-Methylnaphthalene (mg/kg)	Naphthalene (mg/kg)	Phenanthrene (mg/kg)	Pyrene (mg/kg)	Other PNAs/PAHs (mg/kg)
B15-10-10.5	1/17/2013	ND <0.01	ND <0.01	ND <0.01	ND <0.01	ND <0.01	ND <0.01	ND <0.01	ND <0.01	ND <0.01
B15-19.5-20	1/17/2013	ND <0.01	ND <0.01	ND <0.01	ND <0.01	ND <0.01	ND <0.01	ND <0.01	ND <0.01	ND <0.01
B16-8.5-9	1/17/2013	ND <0.01	ND <0.01	ND <0.01	<b>0.097</b>	<b>0.19</b>	<b>0.23</b>	ND <0.01	ND <0.01	ND <0.01
B16-11.5-12	1/17/2013	ND <0.01	ND <0.01	ND <0.01	<b>0.082</b>	<b>0.15</b>	<b>0.15</b>	ND <0.01	ND <0.01	ND <0.01
B16-14.5-15	1/17/2013	ND <0.01	ND <0.01	ND <0.01	<b>0.039</b>	<b>0.069</b>	<b>0.075</b>	ND <0.01	ND <0.01	ND <0.01
B17-8.5-9	1/16/2013	ND <0.01	ND <0.01	ND <0.01	ND <0.01	ND <0.01	ND <0.01	ND <0.01	ND <0.01	ND <0.01
B18-10-10.5	1/16/2013	ND <0.10	ND <0.10	ND <0.10	<b>0.69</b>	<b>1.1</b>	<b>0.47</b>	ND <0.10	ND <0.10	ND <0.10
B18-15.5-16	1/16/2013	ND <0.01	ND <0.01	ND <0.01	ND <0.01	ND <0.01	ND <0.01	ND <0.01	ND <0.01	ND <0.01
B19-10-10.5	1/16/2013	ND <0.10	ND <0.10	ND <0.10	<b>0.48</b>	<b>0.76</b>	<b>0.72</b>	ND <0.10	ND <0.10	ND <0.10
B19-14.5-15	1/16/2013	ND <0.01	ND <0.01	ND <0.01	<b>0.26</b>	<b>0.50</b>	<b>0.50</b>	<b>0.014</b>	ND <0.01	ND <0.01
B20-10-10.5	1/17/2013	ND <0.20	ND <0.20	ND <0.20	<b>1.7</b>	<b>2.9</b>	<b>4.5</b>	ND <0.20	ND <0.20	ND <0.20
B20-12-12.5	1/17/2013	ND <0.20	ND <0.20	ND <0.20	<b>2.5</b>	<b>4.3</b>	<b>7.1</b>	ND <0.20	ND <0.20	ND <0.20
B20-14-14.5	1/17/2013	ND <0.01	ND <0.01	ND <0.01	<b>0.085</b>	<b>0.16</b>	<b>0.22</b>	ND <0.01	ND <0.01	ND <0.01
B21-4.5-5	1/18/2013	ND <0.10	ND <0.10	ND <0.10	<b>0.87</b>	<b>1.4</b>	<b>1.6</b>	ND <0.10	ND <0.10	ND <0.10
B21-10-10.5	1/18/2013	ND <0.20	ND <0.20	ND <0.20	<b>2.1</b>	<b>3.7</b>	<b>5.0</b>	ND <0.20	ND <0.20	ND <0.20
B21-21.5-22	1/18/2013	ND <0.01	ND <0.01	ND <0.01	<b>0.27</b>	<b>0.50</b>	<b>0.43</b>	ND <0.01	ND <0.01	ND <0.01
B22-4.5-5	1/18/2013	ND <0.01	ND <0.01	ND <0.01	<b>0.13</b>	<b>0.24</b>	<b>0.15</b>	ND <0.01	ND <0.01	ND <0.01
B22-10-10.5	1/18/2013	ND <0.050	ND <0.050	ND <0.050	<b>0.26</b>	<b>0.41</b>	<b>0.67</b>	ND <0.050	ND <0.050	ND <0.050
B22-14.5-15	1/18/2013	ND <0.01	ND <0.01	ND <0.01	<b>0.024</b>	<b>0.044</b>	<b>0.058</b>	ND <0.01	ND <0.01	ND <0.01
B23-5-5.5	1/17/2013	ND <0.01	ND <0.01	ND <0.01	ND <0.01	ND <0.01	ND <0.01	ND <0.01	ND <0.01	ND <0.01
B23-8.5-9	1/17/2013	ND <0.01	ND <0.015	<b>0.016</b>	ND <0.01	ND <0.01	ND <0.01	ND <0.01	<b>0.018</b>	ND <0.01
B24-4.5-5	1/18/2013	ND <0.01	ND <0.01	ND <0.01	<b>0.013</b>	<b>0.025</b>	<b>0.029</b>	ND <0.01	ND <0.01	ND <0.01
B24-8.5-9	1/18/2013	ND <0.10	ND <0.10	ND <0.10	<b>0.59</b>	<b>0.95</b>	<b>0.85</b>	ND <0.10	ND <0.10	ND <0.10
B24-21.5-22	1/18/2013	ND <0.01	ND <0.01	ND <0.01	ND <0.01	ND <0.01	<b>0.014</b>	ND <0.01	ND <0.01	ND <0.01
B25-10-10.5	1/16/2013	<b>0.013</b>	<b>0.013</b>	<b>0.037</b>	<b>0.014</b>	<b>0.028</b>	<b>0.012</b>	<b>0.043</b>	<b>0.033</b>	ND <0.01
B25-15-15.5	1/16/2013	ND <0.01	ND <0.01	ND <0.01	ND <0.01	ND <0.01	ND <0.01	ND <0.01	ND <0.01	ND <0.01
RWQCB Commercial/Industrial ESLs, ≤3 m (9.9 feet) bgs, drinking water		<b>1.3</b>	<b>23</b>	<b>40</b>	<b>NE</b>	<b>0.25</b>	<b>2.8</b>	<b>11</b>	<b>85</b>	<b>Vary</b>
RWQCB Commercial/Industrial ESLs, >3 m (9.9 feet) bgs, drinking water		<b>12</b>	<b>23</b>	<b>60</b>	<b>NE</b>	<b>0.25</b>	<b>3.4</b>	<b>11</b>	<b>85</b>	<b>Vary</b>
RWQCB Commercial/Industrial ESLs, ≤3 m (9.9 feet) bgs, non-drinking water		<b>1.3</b>	<b>23</b>	<b>40</b>	<b>NE</b>	<b>0.25</b>	<b>2.8</b>	<b>11</b>	<b>85</b>	<b>Vary</b>
RWQCB Commercial/Industrial ESLs, >3 m (9.9 feet) bgs, non-drinking water		<b>12</b>	<b>23</b>	<b>60</b>	<b>NE</b>	<b>0.25</b>	<b>4.8</b>	<b>11</b>	<b>85</b>	<b>Vary</b>

**Notes:**

All samples analyzed by McCampbell Analytical, Inc., Pittsburg, California  
All results are reported in milligrams per kilogram (mg/kg)

PNAs/PAHs Polynuclear Aromatic Hydrocarbons/Polycyclic Aromatic Hydrocarbons, Analytical Method SW8270C-SIM  
ND <0.01 Not detected at or above listed reporting limit  
NE Not established

San Francisco Bay Regional Water Quality Control Board (SFRWQCB) Environmental Screening Levels (ESLs) for commercial/industrial land use where groundwater is a potential drinking water resource from Tables A and A-2, and Tables C and C-2, *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater*. RWQCB, Interim Final November 2007, revised May 2008.

San Francisco Bay Regional Water Quality Control Board (SFRWQCB) Environmental Screening Levels (ESLs) for commercial/industrial land use where groundwater is not a potential drinking water resource from Tables B and B-2, and Tables D and D-2, *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater*. RWQCB, Interim Final November 2007, revised May 2008.

**TABLE 3**  
**Summary of Groundwater Analytical Data**  
**Total Petroleum Hydrocarbons and VOCs**  
Former McGrath Steel  
6655 Hollis Street  
Emeryville, California  
AllWest Project No. 11124.23

Sample / Field Point Name	Date Sampled	TPH-g (µg/L)	TPH-ms (µg/L)	TPH-d (µg/L)	TPH-mo (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Other VOCs (µg/L)
MW-3	10/17/1995	8,600	ND <100	220	NA	730	2,100	270	1,400	NA	NA
MW-3 (qualifiers)	8/22/2005	39,000	NA	2,500 L,Y	NA	3,100	3,800	1,100	4,700	7,200	Oxygenates - ND (varies)
MW-3 (qualifiers)	12/20/2005	54,000	NA	2,600 L,Y	NA	6,000	10,000	1,700	9,600	12,000	Oxygenates - ND (varies)
MW-3 (qualifiers)	8/2/2012	27,000	14,000 d1	33,000 e4, e2	680 e4, e2	1,300	3,800	400	4,500	630	400 (TBA), 110 (trans-1,3-dichloropropene), 250 (naphthalene), 1,100 (1,2,4-trimethylbenzene), 280 (1,3,5-trimethylbenzene), ND (others - varies)
MW-3 (qualifiers)	12/18/2012	21,000	12,000 d1	2,600 e4	ND <250 e4	830	1,400	450	2,600	840	140 (naphthalene), 630 (1,2,4-trimethylbenzene), 78 (n-propyl benzene), 190 (1,3,5-trimethylbenzene), ND (others - varies)
B15 (qualifiers)	1/17/2013	1,900 b1	1,300 d1, b1	740 e4, b1	NA	3.1 b1	32 b1	24 b1	160 b1	ND <1.2 b1	9.8 (n-butyl benzene), 27 (naphthalene), 100 (1,2,4-trimethylbenzene), 1.8 (sec-butyl benzene), 2.6 (isopropylbenzene), 12 (n-propyl benzene), 53 (TCE), 33 (1,3,5-trimethylbenzene), ND (others - varies) b1
B16 (qualifiers)	1/17/2013	47,000 b1	ND <5,000 d1, b1	6,300 e4, b1	NA	2,200 b1	5,700 b1	1,100 b1	5,800 b1	900 b1	190 (naphthalene), 1,600 (1,2,4-trimethylbenzene), 180 (n-propyl benzene), 460 (1,3,5-trimethylbenzene), ND (others varies) b1
B17 (qualifiers)	1/16/2013	190 b1	ND <50 b1	320 e7, e2, b1	NA	ND <0.5 b1	ND <0.5 b1	ND <0.5 b1	ND <0.5 b1	ND <0.5 b1	ND - varies b1
B18 (qualifiers)	1/16/2013	8,300 b1	4,800 d2, b1	1,500 e4, b1	NA	17 b1	ND <12 b1	290 b1	1,100 b1	ND <12 b1	64 (naphthalene), 380 (1,2,4-trimethylbenzene), 15 (isopropylbenzene), 57 (n-propyl benzene), 100 (1,3,5-trimethylbenzene), ND (others - varies) b1
B19 (qualifiers)	1/16/2013	5,000 b1	3,000 d2, b1	1,300 e4, b1	NA	6.5 b1	ND <5.0 b1	150 b1	350 b1	ND <5.0 b1	27 (n-butyl benzene), 44 (naphthalene), 290 (1,2,4-trimethylbenzene), 7.3 (sec-butyl benzene), 14 (isopropylbenzene), 57 (n-propyl benzene), 89 (1,3,5-trimethylbenzene), ND (others - varies) b1
B20 (qualifiers)	1/17/2013	160,000 b1, b6	22,000 b1, b6, d1	95,000 b1, b6, e4	NA	21,000 b1, b6	47,000 b1, b6	3,700 b1, b6	21,000 b1, b6	2,300 b1, b6	1,800 (1,2,4-trimethylbenzene), ND (others - varies) b1, b6
B21 (qualifiers)	1/18/2013	41,000	16,000 d1	3,900 e4	NA	ND <2,500	6,100	ND <2,500	6,200	140,000	ND (varies)
B22 (qualifiers)	1/18/2013	110,000	17,000 d1	8,800 e4	NA	7,700	26,000	3,500	21,000	8,100	910 (naphthalene), 2,300 (1,2,4-trimethylbenzene), 590 (1,3,5-trimethylbenzene), ND (others varies), ND (others - varies)
B23 (qualifiers)	1/17/2013	170 b1	160 b1, d1	140 b1, e2, e4	NA	ND <0.5 b1	1.3 b1	1.3 b1	5.0 b1	1.8 b1	0.96 (n-butyl benzene), 2.1 (naphthalene), 3.0 (1,2,4-trimethylbenzene), 1.3 (sec-butyl benzene), 3.8 (isopropylbenzene), 9.3 (n-propyl benzene), 0.76 (1,3,5-trimethylbenzene), ND (others varies) b1
B24 (qualifiers)	1/18/2013	17,000	7,600 d1	8,800 e4	NA	340	2,100	520	2,800	2,500	130 (naphthalene), 710 (1,2,4-trimethylbenzene), 87 (n-propyl benzene), 220 (1,3,5-trimethylbenzene), ND (others varies)

**TABLE 3**  
**Summary of Groundwater Analytical Data**  
**Total Petroleum Hydrocarbons and VOCs**  
Former McGrath Steel  
6655 Hollis Street  
Emeryville, California  
AllWest Project No. 11124.23

Sample / Field Point Name	Date Sampled	TPH-g (µg/L)	TPH-ms (µg/L)	TPH-d (µg/L)	TPH-mo (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Other VOCs (µg/L)
B25 (qualifiers)	1/16/2013	270 b1	87 d2, b1	340 e7, e4, e2, b1	NA	ND <0.5 c8, b1	ND <0.5 c8, b1	4.3 c8, b1	1.4 c8, b1	23 c8, b1	2.4 (2-butanone), 0.55 (1,2-DCA), 3.0 (naphthalene), 4.8 (1,2,4-trimethylbenzene), 1.5 (1,1-dichloroethene), 1.5 (n-propyl benzene), 0.83 (TCE), 1.0 (1,3,5-trimethylbenzene), ND (others - varies) c8, b1
RWQCB Commercial/Industrial ESLs, drinking water*		100	100	100	100	1.0	40	30	20	5.0	0.5 (1,2-DCA), 12 (TBA), 5.0 (TCE), 0.5 (1,3-dichloropropene) 17 (naphthalene) NE or varies (others)
RWQCB Commercial/Industrial ESLs, non-drinking water*		210	210	210	210	46	130	43	100	1,800	200 (1,2-DCA), 18,000 (TBA), 360 (TCE), 24 (1,3-dichloropropene) 24 (naphthalene) NE or varies (others)

**Notes:**

All results are reported in micrograms per liter (µg/L) [equivalent to parts per billion (ppb)], except where noted.

1,2-DCA 1,2-dichloroethane, Analytical Method SW8260B

TCE trichloroethene, Analytical Method SW8260B

TPH-g Total petroleum hydrocarbons as gasoline, Analytical Method SW8260B, except samples collected on 10/17/95, 8/22/05 and 12/20/05 Analytical Method SW8015Bm

TPH-ms Total petroleum hydrocarbons Mineral Spirits Range (C9-C12), Analytical Method SW8015Bm

TPH-d Total petroleum hydrocarbons as diesel, C10-C23, Analytical Method SW8015B with silica gel cleanup

TPH-mo Total petroleum hydrocarbons as motor oil, C18-C36, Analytical Method SW8015B with silica gel cleanup

MTBE Methyl tertiary butyl ether, Analytical Method SW8260B

TBA Tertiary butyl alcohol, Analytical Method SW8260B

BTEX Benzene, Toluene, Ethylbenzene, Xylenes, Analytical Method SW8021B on 10/17/95 only; Analytical Method SW8260B on all other dates

VOCs Volatile organic compounds, Analytical Method SW8260B

ND <100 Not detected at or above listed reporting limit

NE Not established

NA Not analyzed

San Francisco Bay Regional Water Quality Control Board (SFRWQCB) Environmental Screening Levels (ESLs) for commercial/industrial land use where groundwater is a potential drinking water resource from Tables A and F-1a, *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater*. RWQCB, Interim Final November 2007, revised May 2008.

San Francisco Bay Regional Water Quality Control Board (SFRWQCB) Environmental Screening Levels (ESLs) for commercial/industrial land use where groundwater is not a potential drinking water resource from Tables B and F-1b, *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater*. RWQCB, Interim Final November 2007, revised May 2008.

\* The subject site lies within the Emeryville Brownfields Groundwater Management Zone, and has been designated as Groundwater Management Zone B by the SFRWQCB where groundwater is not currently being used as a drinking water resource.

Laboratory Qualifiers:

L - lighter hydrocarbons contributed to the quantitation

Y - sample exhibits chromatographic pattern which does not resemble standard

b1 - aqueous sample that contains greater than ~1 vol. % sediment

b6 - lighter than water immiscible sheen/product is present

d1 - weakly modified or unmodified gasoline is significant

d2 - heavier gasoline range compounds are significant (aged gasoline?)

e2 - diesel range compounds are significant; no recognizable pattern

e4 - gasoline-range compounds are significant

e7 - oil range compounds are significant

**TABLE 4**  
**Summary of Groundwater Analytical Data**  
**PNAs/PAHs**  
Former McGrath Steel  
6655 Hollis Street  
Emeryville, California  
AllWest Project No. 11124.23

Sample / Field Point Name	Date Sampled	Benzo (a) anthracene (µg/L)	Chrysene (µg/L)	Fluoranthene (µg/L)	1-Methylnaphthalene (µg/L)	2-Methylnaphthalene (µg/L)	Naphthalene (µg/L)	Phenanthrene (µg/L)	Pyrene (µg/L)	Other PNAs/PAHs (µg/L)
B15 (qualifiers)	1/17/2013 b1	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <0.5
B16	1/17/2013	NA	NA	NA	NA	NA	NA	NA	NA	NA
B17 (qualifiers)	1/16/2013 b1	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <0.5
B18 (qualifiers)	1/16/2013 b1	ND <5.0	ND <5.0	ND <5.0	<b>22</b>	<b>36</b>	<b>67</b>	ND <5.0	ND <5.0	ND <5.0
B19 (qualifiers)	1/16/2013 b1	ND <0.5	ND <0.5	ND <0.5	<b>15</b>	<b>27</b>	<b>0.67</b>	ND <0.5	ND <0.5	ND <0.5
B20 (qualifiers)	1/17/2013 b1	ND <50	ND <50	ND <50	<b>460</b>	<b>750</b>	<b>1,700</b>	ND <50	ND <50	ND <50
B21	1/18/2013	NA	NA	NA	NA	NA	NA	NA	NA	NA
B22	1/18/2013	ND <50	ND <50	ND <50	<b>280</b>	<b>420</b>	<b>1,300</b>	ND <50	ND <50	ND <50
B23 (qualifiers)	1/17/2013 b1	<b>0.56</b>	ND <0.5	<b>0.94</b>	ND <0.5	ND <0.5	ND <0.55	<b>0.75</b>	<b>1.0</b>	ND <0.5
B24	1/18/2013	ND <5.0	ND <5.0	ND <5.0	<b>20</b>	<b>30</b>	<b>80</b>	ND <5.0	ND <5.0	ND <5.0
B25 (qualifiers)	1/16/2013 b1	ND <0.5	ND <0.5	ND <0.5	<b>4.4</b>	<b>6.8</b>	<b>12</b>	<b>0.88</b>	ND <0.5	ND <0.5
RWQCB Commercial/Industrial ESLs, drinking water*		<b>0.027</b>	<b>0.35</b>	<b>8.0</b>	<b>NE</b>	<b>2.1</b>	<b>17</b>	<b>4.6</b>	<b>2.0</b>	<b>Vary</b>
RWQCB Commercial/Industrial ESLs, non-drinking water*		<b>0.027</b>	<b>210</b>	<b>8.0</b>	<b>NE</b>	<b>2.1</b>	<b>24</b>	<b>4.6</b>	<b>2.0</b>	<b>Vary</b>

**Notes:** All results are reported in micrograms per liter (µg/L) [equivalent to parts per billion (ppb)], except where noted.  
All samples analyzed by McCampbell Analytical, Inc., Pittsburg, California  
PNAs/PAHs = Polynuclear Aromatic Hydrocarbons/Polycyclic Aromatic Hydrocarbons by analytical method SW8270C-SIM  
ND (<0.5) - Not detected at or above listed reporting limit  
NE - Not established

San Francisco Bay Regional Water Quality Control Board (SFRWQCB) Environmental Screening Levels (ESLs) for commercial/industrial land use where groundwater is a potential drinking water resource from Tables A and F-1a, *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater*. RWQCB, Interim Final November 2007, revised May 2008.

San Francisco Bay Regional Water Quality Control Board (SFRWQCB) Environmental Screening Levels (ESLs) for commercial/industrial land use where groundwater is not a potential drinking water resource from Tables B and F-1b, *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater*. RWQCB, Interim Final November 2007, revised May 2008.

Laboratory Qualifiers:

b1 - Aqueous sample that contains greater than ~1 vol. % sediment



# Attachment A



AllWest

AllWest Environmental  
530 Howard Street #300  
San Francisco, CA 94105  
Telephone: 415-391-2510  
Fax: 415-391-2008

# BORING NUMBER B15

PAGE 1 OF 1

**CLIENT** MCG Investments LLC

**PROJECT NUMBER** 12071.23

**DATE STARTED** 1/17/13      **COMPLETED** 1/17/13

**DRILLING CONTRACTOR** Gregg Drilling and Testing

**DRILLING METHOD** Geoprobe

**LOGGED BY** C. Houlihan      **CHECKED BY** Leonard Niles

**NOTES** Borehole grouted with neat cement

**PROJECT NAME** Hollis

**PROJECT LOCATION** 6655 Hollis Street, Emeryville CA

**GROUND ELEVATION** \_\_\_\_\_      **HOLE SIZE** 2.5 inches

**GROUND WATER LEVELS:**

▽ **AT TIME OF DRILLING** 29.00 ft

▼ **AT END OF DRILLING** 29.00 ft

**AFTER DRILLING** ---

GENERAL BH / TP / WELL - GINT STD US LAB.GDT - 2/1/13 09:36 - Z:\GINT\12071.23 HOLLIS GEOPROBE BORINGS.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA
0						
0.5			CL		Concrete/no recovery (CL) Clay (>95% fines, <5% medium-grained sand), black (2.5Y 2.5/1), soft to stiff, high plasticity, slightly moist.	
3.0	AU		CL		(CL) Sandy clay (70% fines, 30% fine to medium-grained sand), olive gray (5Y 4/2), soft to stiff, low plasticity, slightly moist.	
5			CL			
9.0	UD	100	CL			
10			ML		(ML) Sandy silt with gravel, 60% fines, 20% sand, 20% gravel, olive brown (2.5Y 4/4), gravel clasts up to 1 inch, nonplastic, dry.	PID = 0.4
11.0	B15-10-10.5	100	ML		(ML) Silt, olive brown (2.5Y 4/4), soft, nonplastic, moist.	
12.0			ML		(ML) Sandy silt (75% fines, 20% sand, 5% gravel), olive brown (2.5Y 4/4), soft, nonplastic, moist.	
15	UD	100	ML			
15.0			CL		(CL) Clay (less than 5% sand) olive brown (2.5Y 4/4), stiff to hard, medium plasticity, dry to slightly moist.	
20	B15-19.5-20	100	CL			PID = 0.3
25	UD	100	CL			
29.0			CL		(CL) Same as above but moist to wet.	
30.0			CL			

Bottom of borehole at 30.0 feet.



AllWest

AllWest Environmental  
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San Francisco, CA 94105  
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# BORING NUMBER B16

PAGE 1 OF 1

**CLIENT** MCG Investments LLC

**PROJECT NUMBER** 12071.23

**DATE STARTED** 1/17/13      **COMPLETED** 1/17/13

**DRILLING CONTRACTOR** Gregg Drilling and Testing

**DRILLING METHOD** Geoprobe

**LOGGED BY** C. Houlihan      **CHECKED BY** Leonard Niles

**NOTES** Borehole grouted with neat cement

**PROJECT NAME** Hollis

**PROJECT LOCATION** 6655 Hollis Street, Emeryville CA

**GROUND ELEVATION** \_\_\_\_\_      **HOLE SIZE** 2.5 inches

**GROUND WATER LEVELS:**

▽ **AT TIME OF DRILLING** 30.00 ft

**AT END OF DRILLING** ---

▽ **1hrs AFTER DRILLING** 28.50 ft

GENERAL BH / TP / WELL - GINT STD US LAB.GDT - 2/1/13 09:37 - Z:\GINT\12071.23 HOLLIS GEOPROBE BORINGS.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA
0						
0.5					Asphalt/no recovery	
1.0					Road base	
	AU		CL		(CL) Clay, 100% fines, trace sands, dark brown (10YR 3/6), soft to stiff, high plasticity, slightly moist.	
4.0						
5	UD	100	ML		(ML) Gravelly silt (80% fines, 20% gravel with some coarse sand), dark greenish gray (GLE Y 1, 4/10Y), stiff, low plasticity, slightly moist.	
8.0						
	B16-8.5-9	100	CL		(CL) Clay (less than 5% gravel and coarse sand), olive brown (2.5Y 4/3), stiff, medium plasticity, slightly moist.	PID = 4.9
10	UD	100				
	B16-11.5-12	100				PID = 91.6
	UD	100				
15	B16-14.5-15	100				PID = 64.8
	UD	100				
20						
25						
27.0						
			ML		(ML) Silt, olive brown (2.5Y 4/3), soft, nonplastic, moist to wet.	
30.0						

Bottom of borehole at 30.0 feet.



AllWest

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San Francisco, CA 94105  
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# BORING NUMBER B17

PAGE 1 OF 1

CLIENT MCG Investments LLC

PROJECT NUMBER 12071.23

DATE STARTED 1/16/13 COMPLETED 1/16/13

DRILLING CONTRACTOR Gregg Drilling and Testing

DRILLING METHOD Geoprobe

LOGGED BY C. Houlihan CHECKED BY Leonard Niles

NOTES Borehole grouted with neat cement

PROJECT NAME Hollis

PROJECT LOCATION 6655 Hollis Street, Emeryville CA

GROUND ELEVATION \_\_\_\_\_ HOLE SIZE 2.5 inches

GROUND WATER LEVELS:

▽ AT TIME OF DRILLING 9.00 ft

▼ AT END OF DRILLING 9.00 ft

AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA
0						
0.5					Concrete	
5	AU		GM		(GM) Silty gravel (possibly fill), 60% gravel and coarse sands, 40% fines, dark greenish gray (GLEY 1 4/10GY), soft, nonplastic, moist to wet.	
5.0					No recovery	
7.0	NR	0				
7.0	UD	100	GM		(GM) Silty gravel, 60% gravel and coarse sands, 40% fines, dark greenish gray (GLEY 1 4/10GY), soft, nonplastic, wet.	
8.5-9	B17-8.5-9	100				PID = 0.4
Bottom of borehole at 9.0 feet.						

GENERAL BH / TP / WELL - GINT STD US LAB.GDT - 2/1/13 09:37 - Z:\GINT\12071.23 HOLLIS GEOPROBE BORINGS.GPJ



AllWest

AllWest Environmental  
530 Howard Street #300  
San Francisco, CA 94105  
Telephone: 415-391-2510  
Fax: 415-391-2008

# BORING NUMBER B18

PAGE 1 OF 1

CLIENT MCG Investments LLC

PROJECT NUMBER 12071.23

DATE STARTED 1/16/13 COMPLETED 1/16/13

DRILLING CONTRACTOR Gregg Drilling and Testing

DRILLING METHOD Geoprobe

LOGGED BY C. Houlihan CHECKED BY Leonard Niles

NOTES Borehole grouted with neat cement

PROJECT NAME Hollis

PROJECT LOCATION 6655 Hollis Street, Emeryville CA

GROUND ELEVATION \_\_\_\_\_ HOLE SIZE 2.5 inches

GROUND WATER LEVELS:

▽ AT TIME OF DRILLING 16.00 ft

AT END OF DRILLING ---

▽ AFTER DRILLING 12.10 ft

GENERAL BH / TP / WELL - GINT STD US LAB.GDT - 2/1/13 09:37 - Z:\GINT\12071.23 HOLLIS GEOPROBE BORINGS.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA
0		0			0.5 Concrete	
					1.0 Topsoil	
	AU		CH		(CH) Clay with sand, 90% fines, 10% fine sand, light olive brown (2.5Y 5/4), soft, high plasticity, moist.	
5					6.0	
	UD	100	CH		(CH) Clay with less than 5% fine sand, olive (5Y 5/2), stiff, high plasticity, dry to slightly moist.	
10					11.0	PID = 60.6
	B18-10-10.5	100	CH		(CH) Same as above but with gravel clasts up to 1/2 inch.	
					▽	
	UD	100	CL		(CL) Sandy clay, 80% fines, 20% sand, very dark grayish-brown (2.5Y 3/2), soft to stiff, low to medium plasticity, moist to wet.	
15					16.0	PID = 1.2
	B18-15.5-16	100			▽	
					Bottom of borehole at 16.0 feet.	



AllWest

AllWest Environmental  
530 Howard Street #300  
San Francisco, CA 94105  
Telephone: 415-391-2510  
Fax: 415-391-2008

# BORING NUMBER B19

PAGE 1 OF 1

CLIENT MCG Investments LLC

PROJECT NUMBER 12071.23

DATE STARTED 1/16/13 COMPLETED 1/16/13

DRILLING CONTRACTOR Gregg Drilling and Testing

DRILLING METHOD Geoprobe

LOGGED BY C. Houlihan CHECKED BY Leonard Niles

NOTES Borehole grouted with neat cement

PROJECT NAME Hollis

PROJECT LOCATION 6655 Hollis Street, Emeryville CA

GROUND ELEVATION \_\_\_\_\_ HOLE SIZE 2.5 inches

GROUND WATER LEVELS:

▽ AT TIME OF DRILLING 15.00 ft

▼ AT END OF DRILLING 8.04 ft

AFTER DRILLING ---

GENERAL BH / TP / WELL - GINT STD US LAB.GDT - 2/1/13 09:37 - Z:\GINT\12071.23 HOLLIS GEOPROBE BORINGS.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA
0						
0.5					Concrete/no recovery	
5	AU	100	CH		(CH) Clay, black (2.5Y 2.5/1), soft to stiff, high plasticity, slightly moist.	
6.0					No recovery	
8.0	UD	100	ML		(ML) Gravelly silt, 60% fines, 30% gravel, 10% coarse sand, dark olive brown (2.5Y 3/3), soft to stiff, medium plasticity, dry to slightly moist.	
8.0					▼ (CH) Clay, dark yellowish brown (10YR 3/4), soft, high plasticity, moist.	
10	B19-10-10.5	100	CH			PID = 32
10	UD	100				
13.0					(CL) Gravelly clay, 80% fines, 20% gravel with trace coarse sand, dark yellowish brown (10YR 3/6), soft to stiff, low to medium plasticity, moist to wet.	
15	B19-14.5-15	100	CL		▽	PID = 9.4
15	UD	100				
18.0						

Bottom of borehole at 18.0 feet.



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# BORING NUMBER B20

PAGE 1 OF 1

**CLIENT** MCG Investments LLC

**PROJECT NUMBER** 12071.23

**DATE STARTED** 1/17/13      **COMPLETED** 1/17/13

**DRILLING CONTRACTOR** Gregg Drilling and Testing

**DRILLING METHOD** Geoprobe

**LOGGED BY** C. Houlihan      **CHECKED BY** Leonard Niles

**NOTES** Borehole grouted with neat cement

**PROJECT NAME** Hollis

**PROJECT LOCATION** 6655 Hollis Street, Emeryville CA

**GROUND ELEVATION** \_\_\_\_\_      **HOLE SIZE** 2.5 inches

**GROUND WATER LEVELS:**

▽ **AT TIME OF DRILLING** 9.00 ft

▼ **AT END OF DRILLING** 9.00 ft

**AFTER DRILLING** ---

GENERAL BH / TP / WELL - GINT STD US LAB.GDT - 2/1/13 09:37 - Z:\GINT\12071.23 HOLLIS GEOPROBE BORINGS.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA
0						
0.5					Asphalt/no recovery	
5.0	AU		CL		(CL) Clay, >95% fines, <5% fine-grained sand, black (2.5Y 2.5/1), soft to stiff, high plasticity, slightly moist.	
9.0	UD	100	ML		(ML) Sandy silt, 70% fines, 30% fine to medium grained sand, olive gray (5Y 4/2), soft to stiff, medium plasticity, slightly moist.	
10.0					(CH) Clay, less than 5% fine sand, dark yellowish brown (10YR 4/4), stiff, high plasticity, moist to wet, hydrocarbon odor.	PID = 102
10.5	B20-10-10.5 UD	100	CH			PID = 163
12.5	B20-12-12.5 UD	100				
14.5	B20-14.5-15 UD	100				PID = 50
15.0					Bottom of borehole at 15.0 feet.	



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Telephone: 415-391-2510  
Fax: 415-391-2008

# BORING NUMBER B21

PAGE 1 OF 1

**CLIENT** MCG Investments LLC

**PROJECT NUMBER** 12071.23

**DATE STARTED** 1/18/13 **COMPLETED** 1/18/13

**DRILLING CONTRACTOR** Gregg Drilling and Testing

**DRILLING METHOD** Geoprobe

**LOGGED BY** C. Houlihan **CHECKED BY** Leonard Niles

**NOTES** Borehole grouted with neat cement

**PROJECT NAME** Hollis

**PROJECT LOCATION** 6655 Hollis Street, Emeryville CA

**GROUND ELEVATION** \_\_\_\_\_ **HOLE SIZE** 2.5 inches

**GROUND WATER LEVELS:**

▽ **AT TIME OF DRILLING** 24.00 ft

▼ **AT END OF DRILLING** 24.00 ft

**AFTER DRILLING** ---

GENERAL BH / TP / WELL - GINT STD US LAB.GDT - 2/1/13 09:37 - Z:\GINT\12071.23 HOLLIS GEOPROBE BORINGS.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA
0						
0.5					Concrete/no recovery	
0.5 - 3.5	AU		CL		(CL) Clay, less than 5% fine sands, black (5Y 2.5/2), stiff, medium to high plasticity, slightly moist.	
3.5 - 5.0			CL-ML		(CL-ML) Clayey silt, olive brown (2.5Y 4/6), soft, nonplastic, slightly moist.	
5.0 - 8.0	AU B21-4.5-5	100	CL-ML		(CL-ML) Clayey silt with 5% trace coarse sands, olive brown (2.5Y 4/6) with orange mottling, soft, medium plasticity, moist.	PID = 0.5
8.0 - 10.5	UD	100	CL-ML		(CL-ML) Clayey silt with gravel, 10% gravel and coarse sand, olive brown (2.5Y 4/4), stiff, high plasticity, slightly moist.	
10.5 - 18.0			CL-ML		(CL-ML) Clayey silt with gravel, 10% gravel and coarse sand, olive brown (2.5Y 4/4), stiff, high plasticity, slightly moist.	PID = 413
18.0 - 20.0	NR	0			No recovery	
20.0 - 21.5	UD	100	CL-ML		(CL-ML) Clayey silt with gravel, 10% gravel and coarse sand, olive brown (2.5Y 4/4), stiff, high plasticity, slightly moist.	
21.5 - 22.0	B21-21.5-22	100	CL-ML		(CL-ML) Same as above but moist to wet.	PID = 177
22.0 - 24.0	UD	100	CL-ML		(CL-ML) Same as above but moist to wet.	

Bottom of borehole at 24.0 feet.





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# BORING NUMBER B22

CLIENT MCG Investments LLC

PROJECT NUMBER 12071.23

DATE STARTED 1/18/13 COMPLETED 1/18/13

DRILLING CONTRACTOR Gregg Drilling and Testing

DRILLING METHOD Geoprobe

LOGGED BY C. Houlihan CHECKED BY Leonard Niles

NOTES Borehole grouted with neat cement

PROJECT NAME Hollis

PROJECT LOCATION 6655 Hollis Street, Emeryville CA

GROUND ELEVATION \_\_\_\_\_ HOLE SIZE 2.5 inches

GROUND WATER LEVELS:  
 ▽ AT TIME OF DRILLING 13.66 ft  
 ▼ AT END OF DRILLING 13.66 ft  
 AFTER DRILLING ---

GENERAL BH / TP / WELL - GINT STD US LAB.GDT - 2/1/13 09:37 - Z:\GINT\12071.23 HOLLIS GEOPROBE BORINGS.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA
0						
0.5					Concrete/no recovery	
0.5 - 5.0	AU		CL		(CL) Clay, greenish gray (GLEY 1 5/5GY), stiff, medium plasticity, moist.	
5.0 - 6.0	AU B22-4.5-5		ML		(ML) Sandy silt, 60% fines, 30% sand, 10% gravel, dark olive gray (5Y 3/2), soft, nonplastic, wet, hydrocarbon odor.	PID = 221
6.0 - 8.0	UD	100	ML		(ML) Gravelly silt, 80% fines, 20% gravel with trace coarse sand, brown (10YR 5/3), stiff, medium plasticity, slightly moist.	
8.0 - 12.0					(ML) Same as above but dry.	
10.0 - 10.5	B22-10-10.5	100	ML			PID = 84.5
10.5 - 12.0	UD	100	ML		(ML) Sandy silt, 80% fines, 20% fine sand, 10YR 5/3, soft, nonplastic, wet.	
12.0 - 14.0						
14.0					▼	
14.0 - 15.0	B22-14.5-15	100	CL		(CL) Clay, dark yellowish brown (10YR 4/6), hard, medium plasticity, dry.	PID = 45.7
15.0					Bottom of borehole at 15.0 feet.	



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AllWest Environmental  
530 Howard Street #300  
San Francisco, CA 94105  
Telephone: 415-391-2510  
Fax: 415-391-2008

# BORING NUMBER B23

CLIENT MCG Investments LLC

PROJECT NUMBER 12071.23

DATE STARTED 1/17/13 COMPLETED 1/17/13

DRILLING CONTRACTOR Gregg Drilling and Testing

DRILLING METHOD Geoprobe

LOGGED BY C. Houlihan CHECKED BY Leonard Niles

NOTES Borehole grouted with neat cement

PROJECT NAME Hollis

PROJECT LOCATION 6655 Hollis Street, Emeryville CA

GROUND ELEVATION \_\_\_\_\_ HOLE SIZE 2.5 inches

GROUND WATER LEVELS:

▽ AT TIME OF DRILLING 3.00 ft

▼ AT END OF DRILLING 3.00 ft

AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA
0						
0.5					Concrete/no recovery	
5	AU				(SP) Sand, fine-grained, black (2.5Y 2.5/1), weak cementation, rounded, nonplastic, wet.	
	B23-5-5.5	100	SP			PID = 0.3
	UD	100				
	B23-8.5-9	100				PID = 0.5
Bottom of borehole at 9.0 feet.						

GENERAL BH / TP / WELL - GINT STD US LAB.GDT - 2/1/13 09:37 - Z:\GINT\12071.23 HOLLIS GEOPROBE BORINGS.GPJ



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San Francisco, CA 94105  
Telephone: 415-391-2510  
Fax: 415-391-2008

# BORING NUMBER B24

CLIENT MCG Investments LLC

PROJECT NUMBER 12071.23

DATE STARTED 1/18/13 COMPLETED 1/18/13

DRILLING CONTRACTOR Gregg Drilling and Testing

DRILLING METHOD Geoprobe

LOGGED BY C. Houlihan CHECKED BY Leonard Niles

NOTES Borehole grouted with neat cement

PROJECT NAME Hollis

PROJECT LOCATION 6655 Hollis Street, Emeryville CA

GROUND ELEVATION \_\_\_\_\_ HOLE SIZE 2.5 inches

GROUND WATER LEVELS:  
 AT TIME OF DRILLING ---  
 ▼ AT END OF DRILLING 9.45 ft  
 AFTER DRILLING ---

GENERAL BH / TP / WELL - GINT STD US LAB.GDT - 2/1/13 09:37 - Z:\GINT\12071.23 HOLLIS GEOPROBE BORINGS.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA
0					Concrete	
1.0	AU		CL-ML		(CL-ML) Silty clay with some shells, light olive brown (2.5Y 5/4), stiff, high plasticity, slightly moist.	
5	AU B24-4.5-5		CL-ML			PID = 6.3
6.0	UD	100	CL-ML		(CL-ML) Silty clay, light brownish gray (2.5Y 6/2), stiff, low plasticity, slightly moist.	
9.0	B24-8.5-9	100	CL		▼ (CL) Clay with gravel, 90% fines, 10% gravel with clasts up to 1/2 inch, light olive brown (2.5Y 5/4), stiff, low plasticity, dry to slightly moist.	PID = 169
12.0			CL		(CL) Clay with sand, 90% fines, 10% fine grained sand, yellowish-brown (10YR 5/4), stiff, medium plasticity, slightly moist.	
14.0	UD	100	CL		(CL) Clay with gravel, 90% fines, 10% gravel clasts up to 1/2 inch, yellowish brown (10YR 5/4) with some orange mottling, stiff, medium plasticity, slightly moist.	
21.5	B24-21.5-22	100	CL			PID = 14.8
22	UD	100	CL		(CL) Same as above but wet.	
24.0					Bottom of borehole at 24.0 feet.	



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530 Howard Street #300  
San Francisco, CA 94105  
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# BORING NUMBER B25

PAGE 1 OF 1

CLIENT MCG Investments LLC

PROJECT NAME Hollis

PROJECT NUMBER 12071.23

PROJECT LOCATION 6655 Hollis Street, Emeryville CA

DATE STARTED 1/16/13 COMPLETED 1/16/13

GROUND ELEVATION \_\_\_\_\_ HOLE SIZE 2.5 inches

DRILLING CONTRACTOR Gregg Drilling and Testing

GROUND WATER LEVELS:

DRILLING METHOD Geoprobe

AT TIME OF DRILLING ---

LOGGED BY C. Houlihan CHECKED BY Leonard Niles

AT END OF DRILLING ---

NOTES Borehole grouted with neat cement

▼ 2hrs AFTER DRILLING 29.80 ft

GENERAL BH / TP / WELL - GINT STD US LAB.GDT - 2/1/13 09:37 - Z:\GINT\12071.23 HOLLIS GEOPROBE BORINGS.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA
0						
0.5					Concrete/no recovery	
0.5 - 4.0	AU		CH		(CH) Clay, black (5Y 2.5/2), stiff, high plasticity, slightly moist.	
4.0 - 9.0	UD	100	CH		(CH) Clay with sand, 10% fine to coarse sand, minor pebbles, dark greenish-gray (GLEYS 1, 4/1) mottled with orange, stiff, high plasticity, slightly moist.	
9.0 - 10.5	B25-10-10.5	100				PID = 4.5
10.5 - 15.5	UD	100	CH		(CH) Clay, trace sands, olive brown (2.5Y 4/6), stiff, high plasticity, slightly moist.	
15.5 - 15.5	B25-15-15.5	100				PID = 0.6
21.0 - 22.0			CL-ML		(CL-ML) Silty clay, dark gray (5Y 4/1), soft, low to medium plasticity, wet.	
22.0 - 30.0	UD	100	CL		(CL) Clay with gravel, 90% clay, 10% gravel, trace coarse sands, brown (10YR 4/3), hard to stiff, low plasticity, dry.	
30.0					▼ Bottom of borehole at 30.0 feet.	

# Attachment B



## Analytical Report

All West Environmental, Inc  530 Howard Street, Ste.300  San Francisco, CA 94105	Client Project ID: #12071.23; Hollis	Date Sampled: 01/16/13
		Date Received: 01/17/13
	Client Contact: Leonard Niles	Date Reported: 01/25/13
	Client P.O.:	Date Completed: 01/25/13

**WorkOrder: 1301401**

January 25, 2013

Dear Leonard:

Enclosed within are:

- 1) The results of the **7** analyzed samples from your project: **#12071.23; Hollis,**
- 2) QC data for the above samples, and
- 3) A copy of the chain of custody.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McC Campbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius  
 Laboratory Manager  
 McC Campbell Analytical, Inc.

*The analytical results relate only to the items tested.*



# McC Campbell Analytical, Inc.

1534 Willow Pass Rd. / Pittsburg, Ca. 94565-1701  
 www.mcccampbell.com / main@mcccampbell.com  
 Telephone: (877) 252-9262 / Fax: (925) 252-9269

1301401

## CHAIN OF CUSTODY RECORD

**TURN AROUND TIME:** RUSH  24 HR  48 HR  72 HR  5 DAY  10 DAY   
 GeoTracker EDF  PDF  EDD  Write On (DW)  EQuIS   
 Effluent Sample Requiring "J" flag  UST Clean Up Fund Project ; Claim # \_\_\_\_\_

Report To: Leonard Niles

Bill To: Carol Ramelb

Company: AllWest

carol@allwest1.com

530 Howard St #300

choulihan@allwest1.com

SF, CA 94105

E-Mail: leonard@allwest1.com

Tele: (415) 391-2510

Fax: (415) 391-2008

Project #: 12071.23

Project Name: Hollis

Project Location: Emeryville, CA

Purchase Order#

Sampler Signature: [Signature]

**Analysis Request**

SAMPLE ID	Location/ Field Point Name	SAMPLING		# Containers	MATRIX							METHOD PRESERVED																				
		Date	Time		Ground Water	Waste Water	Drinking Water	Sea \ Water	Soil	Air	Sludge	Other	HCL	HNO <sub>3</sub>	Other	BTEX & TPH as Gas (8021/8015 or 8260) / MTBE	TPH as Diesel (8015) and TPH - ws w/silica gel	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	MTBE / BTEX ONLY (EPA 8260/8021)	EPA 505/608 / 8081 (CI Pesticides)	EPA 608 / 8082 PCB's ; Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic CI Herbicides)	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.7 / 200.8 / 6010 / 6020)	LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020)	Metals (200.7 / 200.8 / 6010 / 6020)	Filter sample for DISSOLVED metals analysis	
B18-10-10.5 →		1/10/13	0922	1					X						X	X									X							
B18-15.5-10 →			0945	1					X						X	X									X							
B25-10-10.5 →			1127	1					X						X	X									X							
B25-15-15.5 →			1141	1					X						X	X									X							
B17-8.5-9 →			1411	1					X						X	X									X							
B19-10-10.5 →			1545	1					X						X	X									X							
B19-14.5-15 →			1600	1					X						X	X									X							

\*\*MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate \$250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

Relinquished By: [Signature] Date: 1/13/13 Time: 1401 Received By: [Signature]

ICE/# 28 COMMENTS:  
 GOOD CONDITION \_\_\_\_\_  
 HEAD SPACE ABSENT \_\_\_\_\_  
 DECHLORINATED IN LAB \_\_\_\_\_  
 APPROPRIATE CONTAINERS \_\_\_\_\_  
 PRESERVED IN LAB \_\_\_\_\_

Relinquished By: [Signature] Date: 1/13/13 Time: 1615 Received By: [Signature]

VOAS O&G METALS OTHER HAZARDOUS:  
 PRESERVATION \_\_\_\_\_ pH<2 \_\_\_\_\_

Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received By: \_\_\_\_\_



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

# CHAIN-OF-CUSTODY RECORD

WorkOrder: 1301401

ClientCode: AWE

WaterTrax   
  WriteOn   
  EDF   
  Excel   
  EQuIS   
  Email   
  HardCopy   
  ThirdParty   
  J-flag

**Report to:**

Leonard Niles  
 All West Environmental, Inc  
 530 Howard Street, Ste.300  
 San Francisco, CA 94105  
 (415) 391-2510    FAX: (415) 391-2008

Email: Leonard@allwest1.com  
 cc:  
 PO:  
 ProjectNo: #12071.23; Hollis

**Bill to:**

Darlene Torio  
 All West Environmental, Inc  
 530 Howard Street, Ste.300  
 San Francisco, CA 94105  
 darlene@allwest1.com

**Requested TAT:**

**5 days**

**Date Received: 01/17/2013**

**Date Printed: 01/17/2013**

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	
1301401-001	B18-10-10.5	Soil	1/16/2013 9:22	<input type="checkbox"/>	A	A	A	A									
1301401-002	B18-15.5-16	Soil	1/16/2013 9:45	<input type="checkbox"/>	A	A		A									
1301401-003	B25-10-10.5	Soil	1/16/2013 11:27	<input type="checkbox"/>	A	A		A									
1301401-004	B25-15-15.5	Soil	1/16/2013 11:41	<input type="checkbox"/>	A	A		A									
1301401-005	B17-8.5-9	Soil	1/16/2013 14:11	<input type="checkbox"/>	A	A		A									
1301401-006	B19-10-10.5	Soil	1/16/2013 15:45	<input type="checkbox"/>	A	A		A									
1301401-007	B19-14.5-15	Soil	1/16/2013 16:00	<input type="checkbox"/>	A	A		A									

**Test Legend:**

1	8270D-PNA_S	2	G-MBTEX_S	3	PREFDF REPORT	4	TPH(DMO)WSG_S	5	
6		7		8		9		10	
11		12							

**Prepared by: Zoraida Cortez**

**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.





### Sample Receipt Checklist

Client Name: **All West Environmental, Inc**

Date and Time Received: **1/17/2013 5:43:55 PM**

Project Name: **#12071.23; Hollis**

LogIn Reviewed by: **Zoraida Cortez**

WorkOrder N°: **1301401** Matrix: Soil

Carrier: Rob Pringle (MAI Courier)

#### Chain of Custody (COC) Information

Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sample IDs noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Date and Time of collection noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sampler's name noted on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>

#### Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper containers/bottles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

#### Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature	Cooler Temp: 2.8°C		NA <input type="checkbox"/>
Water - VOA vials have zero headspace / no bubbles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Sample labels checked for correct preservation?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Metal - pH acceptable upon receipt (pH<2)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Samples Received on Ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

(Ice Type: WET ICE )

\* NOTE: If the "No" box is checked, see comments below.

-----  
 Comments:



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701  
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269  
http://www.mccampbell.com / E-mail: main@mccampbell.com

All West Environmental, Inc  
530 Howard Street, Ste.300  
San Francisco, CA 94105

Client Project ID: #12071.23; Hollis

Date Sampled: 01/16/13

Date Received: 01/17/13

Client Contact: Leonard Niles

Date Extracted: 01/22/13

Client P.O.:

Date Analyzed: 01/23/13-01/24/13

Polynuclear Aromatic Hydrocarbons (PAHs / PNAs) using SIM Mode by GC/MS

Extraction Method: SW3550B

Analytical Method: SW8270C-SIM

Work Order: 1301401

Lab ID	1301401-001A	1301401-002A	1301401-003A	1301401-004A	Reporting Limit for DF = 1	
Client ID	B18-10-10.5	B18-15.5-16	B25-10-10.5	B25-15-15.5		
Matrix	S	S	S	S		
DF	10	1	1	1		

Compound	Concentration				mg/kg	ug/L
Acenaphthene	ND<0.10	ND	ND	ND	0.01	NA
Acenaphthylene	ND<0.10	ND	ND	ND	0.01	NA
Anthracene	ND<0.10	ND	ND	ND	0.01	NA
Benzo (a) anthracene	ND<0.10	ND	0.013	ND	0.01	NA
Benzo (b) fluoranthene	ND<0.10	ND	ND	ND	0.01	NA
Benzo (k) fluoranthene	ND<0.10	ND	ND	ND	0.01	NA
Benzo (g,h,i) perylene	ND<0.10	ND	ND	ND	0.01	NA
Benzo (a) pyrene	ND<0.10	ND	ND	ND	0.01	NA
Chrysene	ND<0.10	ND	0.013	ND	0.01	NA
Dibenzo (a,h) anthracene	ND<0.10	ND	ND	ND	0.01	NA
Fluoranthene	ND<0.10	ND	0.037	ND	0.01	NA
Fluorene	ND<0.10	ND	ND	ND	0.01	NA
Indeno (1,2,3-cd) pyrene	ND<0.10	ND	ND	ND	0.01	NA
1-Methylnaphthalene	0.69	ND	0.014	ND	0.01	NA
2-Methylnaphthalene	1.1	ND	0.028	ND	0.01	NA
Naphthalene	0.47	ND	0.012	ND	0.01	NA
Phenanthrene	ND<0.10	ND	0.043	ND	0.01	NA
Pyrene	ND<0.10	ND	0.033	ND	0.01	NA

Surrogate Recoveries (%)

%SS1	83	78	77	75
%SS2	81	76	78	75

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/method detection limit; N/A means analyte not applicable to this ND means not detected at or above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

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



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All West Environmental, Inc  
530 Howard Street, Ste.300  
San Francisco, CA 94105

Client Project ID: #12071.23; Hollis  
Client Contact: Leonard Niles  
Client P.O.:

Date Sampled: 01/16/13  
Date Received: 01/17/13  
Date Extracted: 01/22/13  
Date Analyzed: 01/23/13-01/24/13

**Polynuclear Aromatic Hydrocarbons (PAHs / PNAs) using SIM Mode by GC/MS**

Extraction Method: SW3550B

Analytical Method: SW8270C-SIM

Work Order: 1301401

Lab ID	1301401-005A	1301401-006A	1301401-007A	Reporting Limit for DF =1
Client ID	B17-8.5-9	B19-10-10.5	B19-14.5-15	
Matrix	S	S	S	
DF	1	10	1	

Compound	Concentration			mg/kg	ug/L
Acenaphthene	ND	ND<0.10	ND	0.01	NA
Acenaphthylene	ND	ND<0.10	ND	0.01	NA
Anthracene	ND	ND<0.10	ND	0.01	NA
Benzo (a) anthracene	ND	ND<0.10	ND	0.01	NA
Benzo (b) fluoranthene	ND	ND<0.10	ND	0.01	NA
Benzo (k) fluoranthene	ND	ND<0.10	ND	0.01	NA
Benzo (g,h,i) perylene	ND	ND<0.10	ND	0.01	NA
Benzo (a) pyrene	ND	ND<0.10	ND	0.01	NA
Chrysene	ND	ND<0.10	ND	0.01	NA
Dibenzo (a,h) anthracene	ND	ND<0.10	ND	0.01	NA
Fluoranthene	ND	ND<0.10	ND	0.01	NA
Fluorene	ND	ND<0.10	ND	0.01	NA
Indeno (1,2,3-cd) pyrene	ND	ND<0.10	ND	0.01	NA
1-Methylnaphthalene	ND	0.48	0.26	0.01	NA
2-Methylnaphthalene	ND	0.76	0.50	0.01	NA
Naphthalene	ND	0.72	0.50	0.01	NA
Phenanthrene	ND	ND<0.10	0.014	0.01	NA
Pyrene	ND	ND<0.10	ND	0.01	NA

**Surrogate Recoveries (%)**

%SS1	80	83	77
%SS2	81	75	79

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/method detection limit; N/A means analyte not applicable to this ND means not detected at or above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

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



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http://www.mccampbell.com / E-mail: main@mccampbell.com

All West Environmental, Inc  530 Howard Street, Ste.300  San Francisco, CA 94105	Client Project ID: #12071.23; Hollis	Date Sampled: 01/16/13
		Date Received: 01/17/13
	Client Contact: Leonard Niles	Date Extracted: 01/17/13
	Client P.O.:	Date Analyzed: 01/17/13-01/22/13

**Gasoline Range (C6-C12) and Mineral Spirits Range (C9-C12) Volatile Hydrocarbons with BTEX and MTBE\***

Extraction Method: SW5030B

Analytical Method: SW8021B/8015Bm

Work Order: 1301401

Lab ID	1301401-001A	1301401-002A	1301401-003A	1301401-004A	Reporting Limit for DF = 1	
Client ID	B18-10-10.5	B18-15.5-16	B25-10-10.5	B25-15-15.5		
Matrix	S	S	S	S		
DF	100	1	1	1		

Compound	Concentration				mg/Kg	ug/L
	TPH(g)	450	ND	16	ND	1.0
TPH(mineral spirits)	430	ND	6.8	ND	1.0	NA
MTBE	ND<5.0	ND	ND	ND	0.05	NA
Benzene	ND<0.50	ND	0.0088	ND	0.005	NA
Toluene	ND<0.50	ND	0.034	ND	0.005	NA
Ethylbenzene	8.0	ND	0.30	ND	0.005	NA
Xylenes	25	ND	0.015	ND	0.005	NA

**Surrogate Recoveries (%)**

%SS:	---#	96	91	90	
------	------	----	----	----	--

<b>Comments</b>	d2,d9		d1		
-----------------	-------	--	----	--	--

\* water and vapor samples are reported 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 in mg/L.

# cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

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
- d2) heavier gasoline range compounds are significant (aged gasoline?)
- d9) no recognizable pattern



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All West Environmental, Inc  530 Howard Street, Ste.300  San Francisco, CA 94105	Client Project ID: #12071.23; Hollis	Date Sampled: 01/16/13
		Date Received: 01/17/13
	Client Contact: Leonard Niles	Date Extracted: 01/17/13
	Client P.O.:	Date Analyzed: 01/17/13-01/22/13

**Gasoline Range (C6-C12) and Mineral Spirits Range (C9-C12) Volatile Hydrocarbons with BTEX and MTBE\***

Extraction Method: SW5030B

Analytical Method: SW8021B/8015Bm

Work Order: 1301401

Lab ID	1301401-005A	1301401-006A	1301401-007A		Reporting Limit for DF = 1	
Client ID	B17-8.5-9	B19-10-10.5	B19-14.5-15			
Matrix	S	S	S			
DF	1	20	20			

Compound	Concentration				mg/Kg	ug/L
	TPH(g)	ND	360	240		1.0
TPH(mineral spirits)	ND	350	240		1.0	NA
MTBE	ND	ND<1.0	ND<1.0		0.05	NA
Benzene	ND	0.31	0.12		0.005	NA
Toluene	ND	0.23	0.16		0.005	NA
Ethylbenzene	ND	8.8	5.7		0.005	NA
Xylenes	ND	26	14		0.005	NA

**Surrogate Recoveries (%)**

%SS:	85	---#	---#		
------	----	------	------	--	--

Comments		d1	d1		
----------	--	----	----	--	--

\* water and vapor samples are reported 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 in mg/L.

# cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

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
- d2) heavier gasoline range compounds are significant (aged gasoline?)
- d9) no recognizable pattern



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http://www.mccampbell.com / E-mail: main@mccampbell.com

All West Environmental, Inc 530 Howard Street, Ste.300 San Francisco, CA 94105	Client Project ID: #12071.23; Hollis	Date Sampled: 01/16/13
		Date Received: 01/17/13
	Client Contact: Leonard Niles	Date Extracted: 01/17/13
	Client P.O.:	Date Analyzed: 01/18/13-01/24/13

**Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up\***

Extraction method: SW3550B/3630C

Analytical methods: SW8015B

Work Order: 1301401

Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	TPH-Motor Oil (C18-C36)	DF	% SS	Comments
1301401-001A	B18-10-10.5	S	60	5.4	1	96	e4,e2
1301401-002A	B18-15.5-16	S	2.4	ND	1	93	e2
1301401-003A	B25-10-10.5	S	3.4	ND	1	96	e2
1301401-004A	B25-15-15.5	S	ND	ND	1	96	
1301401-005A	B17-8.5-9	S	ND	ND	1	97	
1301401-006A	B19-10-10.5	S	32	ND	1	117	e4
1301401-007A	B19-14.5-15	S	11	ND	1	98	e4

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.

%SS = Percent Recovery of Surrogate Standard. DF = Dilution Factor

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  
e4) gasoline range compounds are significant.

 Angela Rydelius, Lab Manager



**QC SUMMARY REPORT FOR SW8270C**

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 74148

WorkOrder: 1301401

EPA Method: SW8270C-SIM		Extraction: SW3550B					Spiked Sample ID: 1301401-004A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)			
	mg/kg	mg/kg	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS	
Benzo (a) pyrene	ND	0.20	67.7	63.8	5.98	60.7	30 - 130	30	30 - 130	
Chrysene	ND	0.20	97.2	93.9	3.52	86.1	30 - 130	30	30 - 130	
1-Methylnaphthalene	ND	0.20	102	99.3	2.93	88.1	30 - 130	30	30 - 130	
2-Methylnaphthalene	ND	0.20	84.2	82.7	1.74	73.8	30 - 130	30	30 - 130	
Phenanthrene	ND	0.20	96.6	98	1.43	89.8	30 - 130	30	30 - 130	
Pyrene	ND	0.20	83.2	80.1	3.81	76	30 - 130	30	30 - 130	
%SS1:	75	0.50	82	80	2.47	73	30 - 130	30	30 - 130	
%SS2:	75	0.50	83	81	3.00	73	30 - 130	30	30 - 130	

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

**BATCH 74148 SUMMARY**

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1301401-001A	01/16/13 9:22 AM	01/22/13	01/24/13 7:06 PM	1301401-002A	01/16/13 9:45 AM	01/22/13	01/23/13 9:04 PM
1301401-003A	01/16/13 11:27 AM	01/22/13	01/23/13 9:31 PM	1301401-004A	01/16/13 11:41 AM	01/22/13	01/23/13 7:14 PM
1301401-005A	01/16/13 2:11 PM	01/22/13	01/23/13 9:59 PM	1301401-006A	01/16/13 3:45 PM	01/22/13	01/24/13 7:33 PM
1301401-007A	01/16/13 4:00 PM	01/22/13	01/23/13 10:54 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.  
 $\% \text{ Recovery} = 100 * (\text{MS-Sample}) / (\text{Amount Spiked}); \text{RPD} = 100 * (\text{MS} - \text{MSD}) / ((\text{MS} + \text{MSD}) / 2).$   
 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.  
 Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.



**QC SUMMARY REPORT FOR SW8021B/8015Bm**

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 74052

WorkOrder: 1301401

EPA Method: SW8021B/8015Bm		Extraction: SW5030B					Spiked Sample ID: 1301371-057A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS	
TPH(btex) <sup>£</sup>	ND	0.60	103	95.1	8.07	102	70 - 130	20	70 - 130	
MTBE	ND	0.10	90.9	97.2	6.62	88.7	70 - 130	20	70 - 130	
Benzene	ND	0.10	106	99.4	6.21	96.3	70 - 130	20	70 - 130	
Toluene	ND	0.10	104	98.3	5.55	94.6	70 - 130	20	70 - 130	
Ethylbenzene	ND	0.10	104	98.5	5.85	94.9	70 - 130	20	70 - 130	
Xylenes	ND	0.30	104	99.2	4.83	95.5	70 - 130	20	70 - 130	
%SS:	91	0.10	107	99	7.65	70	70 - 130	20	70 - 130	

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

BATCH 74052 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1301401-001A	01/16/13 9:22 AM	01/17/13	01/22/13 7:21 PM	1301401-002A	01/16/13 9:45 AM	01/17/13	01/17/13 11:07 PM
1301401-003A	01/16/13 11:27 AM	01/17/13	01/18/13 12:07 AM	1301401-004A	01/16/13 11:41 AM	01/17/13	01/18/13 12:36 AM
1301401-005A	01/16/13 2:11 PM	01/17/13	01/19/13 9:47 PM	1301401-006A	01/16/13 3:45 PM	01/17/13	01/19/13 10:17 PM
1301401-007A	01/16/13 4:00 PM	01/17/13	01/19/13 6:47 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.  
 $\% \text{ Recovery} = 100 * (\text{MS-Sample}) / (\text{Amount Spiked}); \text{RPD} = 100 * (\text{MS} - \text{MSD}) / ((\text{MS} + \text{MSD}) / 2).$   
 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.  
 £ 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.





**QC SUMMARY REPORT FOR SW8015B**

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 74051

WorkOrder: 1301401

EPA Method: SW8015B		Extraction: SW3550B/3630C					Spiked Sample ID: 1301371-057A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS	
TPH-Diesel (C10-C23)	ND	40	99.5	99.8	0.318	110	70 - 130	30	70 - 130	
%SS:	96	25	92	92	0	103	70 - 130	30	70 - 130	

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

BATCH 74051 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1301401-001A	01/16/13 9:22 AM	01/17/13	01/24/13 3:30 AM	1301401-002A	01/16/13 9:45 AM	01/17/13	01/23/13 9:33 PM
1301401-003A	01/16/13 11:27 AM	01/17/13	01/18/13 5:55 PM	1301401-004A	01/16/13 11:41 AM	01/17/13	01/18/13 12:35 AM
1301401-005A	01/16/13 2:11 PM	01/17/13	01/18/13 1:46 AM	1301401-006A	01/16/13 3:45 PM	01/17/13	01/19/13 2:21 PM
1301401-007A	01/16/13 4:00 PM	01/17/13	01/19/13 1:13 PM				

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.



## Analytical Report

All West Environmental, Inc  530 Howard Street, Ste.300  San Francisco, CA 94105	Client Project ID: #12071.23; Hollis	Date Sampled: 01/16/13
		Date Received: 01/17/13
	Client Contact: Leonard Niles	Date Reported: 01/25/13
	Client P.O.:	Date Completed: 01/25/13

**WorkOrder: 1301410**

January 25, 2013

Dear Leonard:

Enclosed within are:

- 1) The results of the **4** analyzed samples from your project: **#12071.23; Hollis,**
- 2) QC data for the above samples, and
- 3) A copy of the chain of custody.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McC Campbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius  
 Laboratory Manager  
 McC Campbell Analytical, Inc.

*The analytical results relate only to the items tested.*



# McCampbell Analytical, Inc.

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PAGE 1 of 2

1301 410

## CHAIN OF CUSTODY RECORD

TURN AROUND TIME: RUSH  24 HR  48 HR  72 HR  5 DAY  10 DAY   
 GeoTracker EDF  PDF  EDD  Write On (DW)  EQuIS   
 Effluent Sample Requiring "J" flag  UST Clean Up Fund Project ; Claim # \_\_\_\_\_

Report To: Leonard Niles Bill To: Carol Ramello  
 Company: Allwest carol@allwest1.com  
530 Howard St #300 choulihan@allwest1.com  
SE, CA 94105 E-Mail: leonard@allwest1.com  
 Tele: (415) 391-2510 Fax: (415) 391-2008  
 Project #: 12071.23 Project Name: Hollis  
 Project Location: Emeryville, CA Purchase Order#  
 Sampler Signature: [Signature]

### Analysis Request

SAMPLE ID	Location/ Field Point Name	SAMPLING		# Containers	MATRIX								METHOD PRESERVED																								
		Date	Time		Ground Water	Waste Water	Drinking Water	Sea / Water	Soil	Air	Sludge	Other	HCL	HNO <sub>3</sub>	Other	BTEX & TPH as Gas (8021/8015 or 8260) / MTBE	TPH as Diesel (8015) and TPH-m <sub>3</sub> w/ silica gel	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	MTBE / BTEX ONLY (EPA 8260/8021)	EPA 505/ 608 / 8081 (CI Pesticides)	EPA 608 / 8082 PCB's ; Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic CI Herbicides)	EPA 524.2 / 624 / 8260 (VOCs) and TPH-g	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.7 / 200.8 / 6010 / 6020)	LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020)	Metals (200.7 / 200.8 / 6010 / 6020)	Filter sample for DISSOLVED metals analysis						
B18	B18	1/16/13	1000	3	X									X																							
B18	B18		1000	1	X																																
B18	B18		1000	1	X																																
B25	B25		1330	3	X									X																							
B25	B25		1330	1	X																																
B25	B25		1330	1	X																																
B17	B17		1426	3	X									X																							
B17	B17		1426	1	X																																
B17	B17		1426	1	X																																
B19	B19		1620	3	X									X																							
B19	B19		1620	1	X																																

\*\*MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate \$250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

Relinquished By: <u>[Signature]</u>	Date: <u>1/7/13</u>	Time: <u>1407</u>	Received By: <u>[Signature]</u>	ICE/GOOD CONDITION _____ HEAD SPACE ABSENT _____ DECHLORINATED IN LAB _____ APPROPRIATE CONTAINERS _____ PRESERVED IN LAB _____  VOAS O&G METALS OTHER HAZARDOUS: PRESERVATION _____ pH <2 _____	COMMENTS:
Relinquished By: <u>[Signature]</u>	Date: <u>1/17/13</u>	Time: <u>1615</u>	Received By: <u>[Signature]</u>		
Relinquished By: _____	Date: _____	Time: _____	Received By: _____		



# McC Campbell Analytical, Inc.

1534 Willow Pass Rd. / Pittsburg, Ca. 94565-1701  
 www.mcccampbell.com / main@mcccampbell.com  
 Telephone: (877) 252-9262 / Fax: (925) 252-9269

*PAGE  
2 of 2*

## CHAIN OF CUSTODY RECORD

**TURN AROUND TIME:** RUSH  24 HR  48 HR  72 HR  5 DAY  10 DAY   
 GeoTracker EDF  PDF  EDD  Write On (DW)  EQuIS   
 Effluent Sample Requiring "J" flag  UST Clean Up Fund Project ; Claim # \_\_\_\_\_

**Report To:** Leonard Niles **Bill To:** Carol Ramello  
**Company:** AllWest **E-Mail:** carol@allwest1.com  
 530 Howard St #300 **choulihan@allwest1.com**  
 SF, CA 94105 **E-Mail:** leonard@allwest1.com  
**Tele:** (415) 391-2510 **Fax:** (415) 391-2008  
**Project #:** 12071.23 **Project Name:** Hollis  
**Project Location:** Emeryville, CA **Purchase Order#:**  
**Sampler Signature:** [Signature]

### Analysis Request

SAMPLE ID	Location/ Field Point Name	SAMPLING		# Containers	MATRIX								METHOD PRESERVED		BTEX & TPH as Gas (8021/8015 or 8260) / MTBE TPH as Diesel (8015) and TPH-m3 w/silicagel Total Petroleum Oil & Grease (1664 / 5520 E/B&F) Total Petroleum Hydrocarbons (418.1) MTBE / BTEX ONLY (EPA 8260/ 8021) EPA 505/ 608 / 8081 (CI Pesticides) EPA 608 / 8082 PCB's; Aroclors / Congeners EPA 507 / 8141 (NP Pesticides) EPA 515 / 8151 (Acidic CI Herbicides) EPA 524.2 / 624 / 8260 (VOCs) EPA 525.2 / 625 / 8270 (SVOCs) EPA 8270 SIM / 8310 (PAHs / PNAs) CAM 17 Metals (200.7 / 200.8 / 6010 / 6020) LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020) Metals (200.7 / 200.8 / 6010 / 6020) Filter sample for DISSOLVED metals analysis										
		Date	Time		Ground Water	Waste Water	Drinking Water	Sea \ Water	Soil	Air	Sludge	Other	HCL	HNO <sub>3</sub>		Other									
B19	B19	1/16/13	1620	1	X																				
<p><i>[Large diagonal signature across the grid]</i></p>																									

**\*\*MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate \$250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.**

**Relinquished By:** [Signature] **Date:** 1/17/13 **Time:** 1401  
**Received By:** [Signature]

**Relinquished By:** [Signature] **Date:** 1/17/13 **Time:** 1615  
**Received By:** [Signature]

**Relinquished By:** \_\_\_\_\_ **Date:** \_\_\_\_\_ **Time:** \_\_\_\_\_  
**Received By:** \_\_\_\_\_

**ICE/r°** \_\_\_\_\_ **COMMENTS:**

GOOD CONDITION \_\_\_\_\_  
 HEAD SPACE ABSENT \_\_\_\_\_  
 DECHLORINATED IN LAB \_\_\_\_\_  
 APPROPRIATE CONTAINERS \_\_\_\_\_  
 PRESERVED IN LAB \_\_\_\_\_

**PRESERVATION** \_\_\_\_\_ **VOAS** \_\_\_\_\_ **O&G** \_\_\_\_\_ **METALS** \_\_\_\_\_ **OTHER** \_\_\_\_\_ **HAZARDOUS:** \_\_\_\_\_  
 pH < 2 \_\_\_\_\_



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

# CHAIN-OF-CUSTODY RECORD

WorkOrder: 1301410

ClientCode: AWE

WaterTrax   
  WriteOn   
  EDF   
  Excel   
  EQUIS   
  Email   
  HardCopy   
  ThirdParty   
  J-flag

**Report to:**

Leonard Niles  
All West Environmental, Inc  
530 Howard Street, Ste.300  
San Francisco, CA 94105  
(415) 391-2510    FAX: (415) 391-2008

Email: Leonard@allwest1.com  
cc:  
PO:  
ProjectNo: #12071.23; Hollis

**Bill to:**

Darlene Torio  
All West Environmental, Inc  
530 Howard Street, Ste.300  
San Francisco, CA 94105  
darlene@allwest1.com

**Requested TAT:**

**5 days**

**Date Received: 01/17/2013**

**Date Printed: 01/17/2013**

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
1301410-001	B18	Water	1/16/2013 10:00	<input type="checkbox"/>	B	A	C	A								
1301410-002	B25	Water	1/16/2013 13:30	<input type="checkbox"/>	B	A	C									
1301410-003	B17	Water	1/16/2013 14:26	<input type="checkbox"/>	B	A	C									
1301410-004	B19	Water	1/16/2013 16:20	<input type="checkbox"/>	B	A	C									

**Test Legend:**

1	8270D-PNA_W	2	GAS8260_W	3	G-MBTX_W	4	PREFD REPORT	5	
6		7		8		9		10	
11		12							

The following SamplIDs: 001A, 001C, 002A, 002C, 003A, 003C, 004A, 004C contain testgroup.

**Prepared by: Zoraida Cortez**

**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.



### Sample Receipt Checklist

Client Name: **All West Environmental, Inc**

Date and Time Received: **1/17/2013 8:35:09 PM**

Project Name: **#12071.23; Hollis**

LogIn Reviewed by: **Zoraida Cortez**

WorkOrder N°: **1301410** Matrix: Water

Carrier: Rob Pringle (MAI Courier)

#### Chain of Custody (COC) Information

Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sample IDs noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Date and Time of collection noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sampler's name noted on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>

#### Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper containers/bottles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

#### Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature	Cooler Temp: 3°C		NA <input type="checkbox"/>
Water - VOA vials have zero headspace / no bubbles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input type="checkbox"/>
Sample labels checked for correct preservation?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Metal - pH acceptable upon receipt (pH<2)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Samples Received on Ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

(Ice Type: WET ICE )

\* NOTE: If the "No" box is checked, see comments below.

-----  
 Comments:



All West Environmental, Inc
530 Howard Street, Ste.300
San Francisco, CA 94105

Client Project ID: #12071.23; Hollis
Client Contact: Leonard Niles
Client P.O.:

Date Sampled: 01/16/13
Date Received: 01/17/13
Date Extracted: 01/22/13
Date Analyzed: 01/22/13

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

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 1301410

Table with 2 columns: Lab ID, Client ID, Matrix and 1301410-001A, B18, Water

Main table with 8 columns: Compound, Concentration \*, DF, Reporting Limit, Compound, Concentration \*, DF, Reporting Limit. Lists various organic compounds and their detection results.

Surrogate Recoveries (%)

Table with 2 columns: %SS1, %SS2, %SS3 and values 105, 93, 76

Comments: b1

\* 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/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

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

sample pH is greater than 2

b1) aqueous sample that contains greater than ~1 vol. % sediment



All West Environmental, Inc
530 Howard Street, Ste.300
San Francisco, CA 94105

Client Project ID: #12071.23; Hollis
Client Contact: Leonard Niles
Client P.O.:

Date Sampled: 01/16/13
Date Received: 01/17/13
Date Extracted: 01/22/13
Date Analyzed: 01/22/13

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

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 1301410

Table with 2 columns: Lab ID, Client ID, Matrix and values: 1301410-002A, B25, Water

Main data table with 8 columns: Compound, Concentration \*, DF, Reporting Limit, Compound, Concentration \*, DF, Reporting Limit. Lists various organic compounds and their detection results.

Surrogate Recoveries (%)

Table with 2 columns: %SS1, %SS2, %SS3 and values: 104, 93, 78

Comments: c8,b1

\* 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/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

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

sample pH is greater than 2

b1) aqueous sample that contains greater than ~1 vol. % sediment





All West Environmental, Inc
530 Howard Street, Ste.300
San Francisco, CA 94105

Client Project ID: #12071.23; Hollis
Client Contact: Leonard Niles
Client P.O.:

Date Sampled: 01/16/13
Date Received: 01/17/13
Date Extracted: 01/18/13
Date Analyzed: 01/18/13

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

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 1301410

Table with 2 columns: Lab ID (1301410-003A), Client ID (B17), Matrix (Water)

Main data table with 8 columns: Compound, Concentration \*, DF, Reporting Limit, Compound, Concentration \*, DF, Reporting Limit. Lists various organic compounds and their detection results.

Surrogate Recoveries (%)

Table showing surrogate recoveries: %SS1: 124, %SS2: 107, %SS3: 97

Comments: b1

\* 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/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

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

sample pH is greater than 2

b1) aqueous sample that contains greater than ~1 vol. % sediment



Table with client information: All West Environmental, Inc, Client Project ID: #12071.23; Hollis, Date Sampled: 01/16/13, Date Received: 01/17/13, Client Contact: Leonard Niles, Date Extracted: 01/19/13, San Francisco, CA 94105, Client P.O., Date Analyzed: 01/19/13

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

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 1301410

Table with Lab ID: 1301410-004A, Client ID: B19, Matrix: Water

Main data table with columns: Compound, Concentration \*, DF, Reporting Limit, Compound, Concentration \*, DF, Reporting Limit. Lists various organic compounds and their detection results.

Surrogate Recoveries (%)

Table showing surrogate recoveries: %SS1: 118, %SS2: 106, %SS3: 96

Comments: b1

\* 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/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

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

sample pH is greater than 2

b1) aqueous sample that contains greater than ~1 vol. % sediment



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701  
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269  
http://www.mccampbell.com / E-mail: main@mccampbell.com

All West Environmental, Inc  
530 Howard Street, Ste.300  
San Francisco, CA 94105

Client Project ID: #12071.23; Hollis  
Client Contact: Leonard Niles  
Client P.O.:

Date Sampled: 01/16/13  
Date Received: 01/17/13  
Date Extracted: 01/23/13  
Date Analyzed: 01/24/13-01/25/13

**Polynuclear Aromatic Hydrocarbons (PAHs / PNAs) using SIM Mode by GC/MS**

Extraction Method: SW3510C

Analytical Method: SW8270C-SIM

Work Order: 1301410

Lab ID	1301410-001B	1301410-002B	1301410-003B	1301410-004B	Reporting Limit for DF =1	
Client ID	B18	B25	B17	B19		
Matrix	W	W	W	W		
DF	10	1	1	1		

Compound	Concentration				ug/kg	µg/L
Acenaphthene	ND<5.0	1.1	ND	ND	NA	0.5
Acenaphthylene	ND<5.0	ND	ND	ND	NA	0.5
Anthracene	ND<5.0	ND	ND	ND	NA	0.5
Benzo (a) anthracene	ND<5.0	ND	ND	ND	NA	0.5
Benzo (b) fluoranthene	ND<5.0	ND	ND	ND	NA	0.5
Benzo (k) fluoranthene	ND<5.0	ND	ND	ND	NA	0.5
Benzo (g,h,i) perylene	ND<5.0	ND	ND	ND	NA	0.5
Benzo (a) pyrene	ND<5.0	ND	ND	ND	NA	0.5
Chrysene	ND<5.0	ND	ND	ND	NA	0.5
Dibenzo (a,h) anthracene	ND<5.0	ND	ND	ND	NA	0.5
Fluoranthene	ND<5.0	ND	ND	ND	NA	0.5
Fluorene	ND<5.0	ND	ND	ND	NA	0.5
Indeno (1,2,3-cd) pyrene	ND<5.0	ND	ND	ND	NA	0.5
1-Methylnaphthalene	22	4.4	ND	15	NA	0.5
2-Methylnaphthalene	36	6.8	ND	27	NA	0.5
Naphthalene	67	12	ND	28	NA	0.5
Phenanthrene	ND<5.0	0.88	ND	0.67	NA	0.5
Pyrene	ND<5.0	ND	ND	ND	NA	0.5

**Surrogate Recoveries (%)**

%SS1	54	76	65	72	
%SS2	---#	73	53	71	
Comments	b1	b1	b1	b1	

\* 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 at or above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

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

b1) aqueous sample that contains greater than ~1 vol. % sediment



All West Environmental, Inc  530 Howard Street, Ste.300  San Francisco, CA 94105	Client Project ID: #12071.23; Hollis	Date Sampled: 01/16/13
		Date Received: 01/17/13
	Client Contact: Leonard Niles	Date Extracted 01/18/13-01/19/13
	Client P.O.:	Date Analyzed 01/18/13-01/19/13

**TPH(g) by Purge & Trap and GC/MS\***

Extraction method: SW5030B

Analytical methods: SW8260B

Work Order: 1301410

Lab ID	Client ID	Matrix	TPH(g)	DF	% SS	Comments
001A	B18	W	8300	10	93	b1
002A	B25	W	270	1	96	b1
003A	B17	W	190	1	94	b1
004A	B19	W	5000	10	93	b1

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	µg/L
	S	NA	NA

\* 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/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

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

b1) aqueous sample that contains greater than ~1 vol. % sediment



All West Environmental, Inc  530 Howard Street, Ste.300  San Francisco, CA 94105	Client Project ID: #12071.23; Hollis	Date Sampled: 01/16/13
		Date Received: 01/17/13
	Client Contact: Leonard Niles	Date Extracted 01/18/13-01/23/13
	Client P.O.:	Date Analyzed 01/18/13-01/23/13

**Mineral Spirits Range (C9-C12) Volatile Hydrocarbons as Mineral Spirits\***

Extraction method: SW5030B

Analytical methods: SW8021B/8015Bm

Work Order: 1301410

Lab ID	Client ID	Matrix	TPH(mineral spirits)	DF	% SS	Comments
001C	B18	W	4800	10	108	d2,b1
002C	B25	W	87	1	118	d2,b1
003C	B17	W	ND	1	99	b1
004C	B19	W	3000	3.3	121	d2,b1

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	µg/L
	S	NA	NA

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

# cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference. %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation:  
 b1) aqueous sample that contains greater than ~1 vol. % sediment  
 d2) heavier gasoline range compounds are significant (aged gasoline?)



All West Environmental, Inc  530 Howard Street, Ste.300  San Francisco, CA 94105	Client Project ID: #12071.23; Hollis	Date Sampled: 01/16/13
		Date Received: 01/17/13
	Client Contact: Leonard Niles	Date Extracted 01/17/13
	Client P.O.:	Date Analyzed 01/20/13-01/23/13

**Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up\***

Extraction method: SW3510C/3630C

Analytical methods: SW8015B

Work Order: 1301410

Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	DF	% SS	Comments
1301410-001C	B18	W	1500	1	71	e4,b1
1301410-002C	B25	W	340	1	95	e7,e4,e2,b1
1301410-003C	B17	W	320	1	102	e7,e2,b1
1301410-004C	B19	W	1300	1	100	e4,b1

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	µg/L
	S	NA	NA

\* 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/matrix interference.

%SS = Percent Recovery of Surrogate Standard. DF = Dilution Factor

The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation:  
 b1) aqueous sample that contains greater than ~1 vol. % sediment  
 e2) diesel range compounds are significant; no recognizable pattern  
 e4) gasoline range compounds are significant.  
 e7) oil range compounds are significant



### QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 74129

WorkOrder: 1301410

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)		
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
tert-Amyl methyl ether (TAME)	ND<5.0	10	86.3	80	5.35	108	70 - 130	20	70 - 130
Benzene	ND<5.0	10	109	106	2.53	106	70 - 130	20	70 - 130
t-Butyl alcohol (TBA)	ND<20	40	118	110	6.37	111	70 - 130	20	70 - 130
Chlorobenzene	ND<5.0	10	104	105	1.51	106	70 - 130	20	70 - 130
1,2-Dibromoethane (EDB)	ND<5.0	10	115	109	5.68	114	70 - 130	20	70 - 130
1,2-Dichloroethane (1,2-DCA)	ND<5.0	10	120	115	4.36	111	70 - 130	20	70 - 130
1,1-Dichloroethene	ND<5.0	10	109	107	2.39	108	70 - 130	20	70 - 130
Diisopropyl ether (DIPE)	ND<5.0	10	114	110	3.74	110	70 - 130	20	70 - 130
Ethyl tert-butyl ether (ETBE)	ND<5.0	10	117	113	3.97	111	70 - 130	20	70 - 130
Methyl-t-butyl ether (MTBE)	260	10	NR	NR	NR	113	N/A	N/A	70 - 130
Toluene	ND<5.0	10	92.9	95.3	2.47	103	70 - 130	20	70 - 130
Trichloroethene	ND<5.0	10	116	111	4.17	113	70 - 130	20	70 - 130
%SS1:	117	25	121	115	5.13	113	70 - 130	20	70 - 130
%SS2:	108	25	105	106	0.920	110	70 - 130	20	70 - 130
%SS3:	106	2.5	100	98	1.83	101	70 - 130	20	70 - 130

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

#### BATCH 74129 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1301410-001A	01/16/13 10:00 AM	01/22/13	01/22/13 4:09 PM	1301410-002A	01/16/13 1:30 PM	01/22/13	01/22/13 4:52 PM
1301410-003A	01/16/13 2:26 PM	01/18/13	01/18/13 6:02 PM	1301410-004A	01/16/13 4:20 PM	01/19/13	01/19/13 2:13 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.  
 $\% \text{ Recovery} = 100 * (\text{MS-Sample}) / (\text{Amount Spiked}); \text{RPD} = 100 * (\text{MS} - \text{MSD}) / ((\text{MS} + \text{MSD}) / 2).$   
 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 or coelutes with another peak; &) low surrogate due to matrix interference.  
 Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.



**QC SUMMARY REPORT FOR SW8021B/8015Bm**

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 74138

WorkOrder: 1301410

EPA Method: SW8021B/8015Bm		Extraction: SW5030B					Spiked Sample ID: 1301377-007A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS	
TPH(btex) £	ND	60	104	99.8	3.81	105	70 - 130	20	70 - 130	
MTBE	ND	10	93.3	94.4	1.22	88.7	70 - 130	20	70 - 130	
Benzene	ND	10	97	97.1	0.0538	100	70 - 130	20	70 - 130	
Toluene	ND	10	97	96.9	0.136	99.8	70 - 130	20	70 - 130	
Ethylbenzene	ND	10	96.1	96.2	0.0356	97.9	70 - 130	20	70 - 130	
Xylenes	ND	30	96.7	96.4	0.272	97.2	70 - 130	20	70 - 130	
%SS:	104	10	97	98	1.20	97	70 - 130	20	70 - 130	

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

BATCH 74138 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1301410-001C	01/16/13 10:00 AM	01/22/13	01/22/13 8:20 PM	1301410-002C	01/16/13 1:30 PM	01/18/13	01/18/13 4:58 PM
1301410-003C	01/16/13 2:26 PM	01/23/13	01/23/13 9:42 PM	1301410-004C	01/16/13 4:20 PM	01/22/13	01/22/13 10:49 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.  
 £ 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, or inconsistency in sample containers.





**QC SUMMARY REPORT FOR SW8270C**

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 74187

WorkOrder: 1301410

EPA Method: SW8270C-SIM		Extraction: SW3510C					Spiked Sample ID: N/A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS	
Benzo (a) pyrene	N/A	10	N/A	N/A	N/A	59.8	N/A	N/A	30 - 130	
Chrysene	N/A	10	N/A	N/A	N/A	90.7	N/A	N/A	30 - 130	
1-Methylnaphthalene	N/A	10	N/A	N/A	N/A	92.9	N/A	N/A	30 - 130	
2-Methylnaphthalene	N/A	10	N/A	N/A	N/A	76	N/A	N/A	30 - 130	
Phenanthrene	N/A	10	N/A	N/A	N/A	90.8	N/A	N/A	30 - 130	
Pyrene	N/A	10	N/A	N/A	N/A	78.1	N/A	N/A	30 - 130	
%SS1:	N/A	25	N/A	N/A	N/A	76	N/A	N/A	30 - 130	
%SS2:	N/A	25	N/A	N/A	N/A	79	N/A	N/A	30 - 130	

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

BATCH 74187 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1301410-001B	01/16/13 10:00 AM	01/23/13	01/25/13 11:06 AM	1301410-002B	01/16/13 1:30 PM	01/23/13	01/24/13 5:43 PM
1301410-003B	01/16/13 2:26 PM	01/23/13	01/24/13 6:10 PM	1301410-004B	01/16/13 4:20 PM	01/23/13	01/24/13 6:38 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.  
 $\% \text{ Recovery} = 100 * (\text{MS-Sample}) / (\text{Amount Spiked}); \text{RPD} = 100 * (\text{MS} - \text{MSD}) / ((\text{MS} + \text{MSD}) / 2).$   
 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.  
 Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.



**QC SUMMARY REPORT FOR SW8015B**

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 74050

WorkOrder: 1301410

EPA Method: SW8015B		Extraction: SW3510C/3630C					Spiked Sample ID: N/A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS	
TPH-Diesel (C10-C23)	N/A	1000	N/A	N/A	N/A	109	N/A	N/A	70 - 130	
%SS:	N/A	625	N/A	N/A	N/A	101	N/A	N/A	70 - 130	

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

BATCH 74050 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1301410-001C	01/16/13 10:00 AM	01/17/13	01/23/13 8:29 AM	1301410-002C	01/16/13 1:30 PM	01/17/13	01/23/13 7:18 AM
1301410-003C	01/16/13 2:26 PM	01/17/13	01/20/13 1:04 PM	1301410-004C	01/16/13 4:20 PM	01/17/13	01/20/13 4:29 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.  
 $\% \text{ Recovery} = 100 * (\text{MS-Sample}) / (\text{Amount Spiked}); \text{RPD} = 100 * (\text{MS} - \text{MSD}) / ((\text{MS} + \text{MSD}) / 2).$   
 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.



## Analytical Report

All West Environmental, Inc  530 Howard Street, Ste.300  San Francisco, CA 94105	Client Project ID: #12071.23; Hollis	Date Sampled: 01/17/13
		Date Received: 01/18/13
	Client Contact: Leonard Niles	Date Reported: 01/28/13
	Client P.O.:	Date Completed: 01/25/13

**WorkOrder: 1301437**

January 29, 2013

Dear Leonard:

Enclosed within are:

- 1) The results of the **10** analyzed samples from your project: **#12071.23; Hollis,**
- 2) QC data for the above samples, and
- 3) A copy of the chain of custody.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

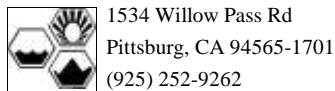
McC Campbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius  
 Laboratory Manager  
 McC Campbell Analytical, Inc.

*The analytical results relate only to the items tested.*





# CHAIN-OF-CUSTODY RECORD

WorkOrder: 1301437

ClientCode: AWE

- WaterTrax  
  WriteOn  
  EDF  
  Excel  
  EQuIS  
  Email  
  HardCopy  
  ThirdParty  
  J-flag

**Report to:**  
 Leonard Niles  
 All West Environmental, Inc  
 530 Howard Street, Ste.300  
 San Francisco, CA 94105  
 (415) 391-2510    FAX: (415) 391-2008

Email: Leonard@allwest1.com  
 cc:  
 PO:  
 ProjectNo: #12071.23; Hollis

**Bill to:**  
 Darlene Torio  
 All West Environmental, Inc  
 530 Howard Street, Ste.300  
 San Francisco, CA 94105  
 darlene@allwest1.com

**Requested TAT: 5 days**

**Date Received: 01/18/2013**

**Date Printed: 01/18/2013**

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	
1301437-001	B15-10-10.5	Soil	1/17/2013 8:30	<input type="checkbox"/>	A		A	A	A								
1301437-002	B15-19.5-20	Soil	1/17/2013 8:50	<input type="checkbox"/>	A		A		A								
1301437-003	B16-8.5-9	Soil	1/17/2013 10:22	<input type="checkbox"/>	A		A		A								
1301437-004	B16-11.5-12	Soil	1/17/2013 10:41	<input type="checkbox"/>	A		A		A								
1301437-005	B16-14.5-15	Soil	1/17/2013 10:54	<input type="checkbox"/>	A		A		A								
1301437-006	B20-10-10.5	Soil	1/17/2013 13:25	<input type="checkbox"/>	A	A			A								
1301437-007	B20-12-12.5	Soil	1/17/2013 13:36	<input type="checkbox"/>	A	A			A								
1301437-008	B20-14.5-15	Soil	1/17/2013 13:41	<input type="checkbox"/>	A	A			A								
1301437-009	B23-5-5.5	Soil	1/17/2013 14:55	<input type="checkbox"/>	A	A			A								
1301437-010	B23-8.5-9	Soil	1/17/2013 15:07	<input type="checkbox"/>	A	A			A								

**Test Legend:**

1	8270D-PNA_S	2	GAS8260_S	3	G-MBTEX_S	4	PREFDF REPORT	5	TPH(D)WSG_S
6		7		8		9		10	
11		12							

The following SampIDs: 006A, 007A, 008A, 009A, 010A contain testgroup.

**Prepared by: Zoraida Cortez**

**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.



### Sample Receipt Checklist

Client Name: **All West Environmental, Inc**

Date and Time Received: **1/18/2013 5:36:24 PM**

Project Name: **#12071.23; Hollis**

LogIn Reviewed by: **Zoraida Cortez**

WorkOrder N°: **1301437** Matrix: Soil

Carrier: Rob Pringle (MAI Courier)

#### Chain of Custody (COC) Information

Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sample IDs noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Date and Time of collection noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sampler's name noted on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>

#### Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper containers/bottles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

#### Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature	Cooler Temp: 3°C		NA <input type="checkbox"/>
Water - VOA vials have zero headspace / no bubbles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Sample labels checked for correct preservation?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Metal - pH acceptable upon receipt (pH<2)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Samples Received on Ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

(Ice Type: WET ICE )

\* NOTE: If the "No" box is checked, see comments below.

-----  
 Comments:



All West Environmental, Inc
530 Howard Street, Ste.300
San Francisco, CA 94105

Client Project ID: #12071.23; Hollis
Client Contact: Leonard Niles
Client P.O.:

Date Sampled: 01/17/13
Date Received: 01/18/13
Date Extracted: 01/18/13
Date Analyzed: 01/23/13

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

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 1301437

Table with 2 columns: Lab ID, Client ID, Matrix and their corresponding values: 1301437-006A, B20-10-10.5, Soil

Main data table with 8 columns: Compound, Concentration \*, DF, Reporting Limit, Compound, Concentration \*, DF, Reporting Limit. Lists various organic compounds and their detection results.

Surrogate Recoveries (%)

Table showing surrogate recoveries: %SS1: 117, %SS2: 107, %SS3: 90

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/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

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



Table with client information: All West Environmental, Inc, Client Project ID: #12071.23; Hollis, Date Sampled: 01/17/13, Date Received: 01/18/13, Client Contact: Leonard Niles, Date Extracted: 01/18/13, San Francisco, CA 94105, Client P.O., Date Analyzed: 01/23/13

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

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 1301437

Summary table with Lab ID 1301437-007A, Client ID B20-12-12.5, Matrix Soil

Main data table with columns: Compound, Concentration \*, DF, Reporting Limit, Compound, Concentration \*, DF, Reporting Limit. Lists various organic compounds and their detection results.

Surrogate Recoveries (%)

Table showing surrogate recoveries: %SS1: 122, %SS2: 104, %SS3: 96

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/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

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





Table with client information: All West Environmental, Inc, Client Project ID: #12071.23; Hollis, Date Sampled: 01/17/13, Date Received: 01/18/13, Client Contact: Leonard Niles, Date Extracted: 01/18/13, San Francisco, CA 94105, Client P.O., Date Analyzed: 01/25/13

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

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 1301437

Summary table with Lab ID: 1301437-008A, Client ID: B20-14.5-15, Matrix: Soil

Main data table with columns: Compound, Concentration \*, DF, Reporting Limit, Compound, Concentration \*, DF, Reporting Limit. Lists various organic compounds and their detection results.

Surrogate Recoveries (%)

Table showing surrogate recoveries: %SS1: 119, %SS2: 105, %SS3: 94

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/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

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



All West Environmental, Inc 530 Howard Street, Ste.300 San Francisco, CA 94105	Client Project ID: #12071.23; Hollis	Date Sampled: 01/17/13
		Date Received: 01/18/13
	Client Contact: Leonard Niles	Date Extracted: 01/18/13
	Client P.O.:	Date Analyzed: 01/22/13

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

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 1301437

Lab ID	1301437-009A
Client ID	B23-5-5.5
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, Total	ND	1.0	0.005

**Surrogate Recoveries (%)**

%SS1:	113	%SS2:	114
%SS3:	98		

**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/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

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



All West Environmental, Inc
530 Howard Street, Ste.300
San Francisco, CA 94105

Client Project ID: #12071.23; Hollis
Client Contact: Leonard Niles
Client P.O.:

Date Sampled: 01/17/13
Date Received: 01/18/13
Date Extracted: 01/18/13
Date Analyzed: 01/22/13

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

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 1301437

Table with 2 columns: Lab ID, Client ID, Matrix and their corresponding values: 1301437-010A, B23-8.5-9, Soil

Main data table with 8 columns: Compound, Concentration \*, DF, Reporting Limit, Compound, Concentration \*, DF, Reporting Limit. Lists various chemical compounds and their detection results.

Surrogate Recoveries (%)

Table showing surrogate recoveries: %SS1: 113, %SS2: 117, %SS3: 101

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/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor
# surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701  
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269  
http://www.mcccampbell.com / E-mail: main@mcccampbell.com

All West Environmental, Inc  
530 Howard Street, Ste.300  
San Francisco, CA 94105

Client Project ID: #12071.23; Hollis

Date Sampled: 01/17/13

Date Received: 01/18/13

Client Contact: Leonard Niles

Date Extracted: 01/22/13

Client P.O.:

Date Analyzed: 01/23/13-01/25/13

**Polynuclear Aromatic Hydrocarbons (PAHs / PNAs) using SIM Mode by GC/MS**

Extraction Method: SW3550B

Analytical Method: SW8270C-SIM

Work Order: 1301437

Lab ID	1301437-001A	1301437-002A	1301437-003A	1301437-004A	Reporting Limit for DF =1	
Client ID	B15-10-10.5	B15-19.5-20	B16-8.5-9	B16-11.5-12		
Matrix	S	S	S	S		
DF	1	1	1	1		

Compound	Concentration				mg/kg	ug/L
Acenaphthene	ND	ND	ND	ND	0.01	NA
Acenaphthylene	ND	ND	ND	ND	0.01	NA
Anthracene	ND	ND	ND	ND	0.01	NA
Benzo (a) anthracene	ND	ND	ND	ND	0.01	NA
Benzo (b) fluoranthene	ND	ND	ND	ND	0.01	NA
Benzo (k) fluoranthene	ND	ND	ND	ND	0.01	NA
Benzo (g,h,i) perylene	ND	ND	ND	ND	0.01	NA
Benzo (a) pyrene	ND	ND	ND	ND	0.01	NA
Chrysene	ND	ND	ND	ND	0.01	NA
Dibenzo (a,h) anthracene	ND	ND	ND	ND	0.01	NA
Fluoranthene	ND	ND	ND	ND	0.01	NA
Fluorene	ND	ND	ND	ND	0.01	NA
Indeno (1,2,3-cd) pyrene	ND	ND	ND	ND	0.01	NA
1-Methylnaphthalene	ND	ND	0.097	0.082	0.01	NA
2-Methylnaphthalene	ND	ND	0.19	0.15	0.01	NA
Naphthalene	ND	ND	0.23	0.15	0.01	NA
Phenanthrene	ND	ND	ND	ND	0.01	NA
Pyrene	ND	ND	ND	ND	0.01	NA

**Surrogate Recoveries (%)**

%SS1	81	81	77	84
%SS2	81	80	78	85

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/method detection limit; N/A means analyte not applicable to this ND means not detected at or above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

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



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All West Environmental, Inc  
530 Howard Street, Ste.300  
San Francisco, CA 94105

Client Project ID: #12071.23; Hollis  
Client Contact: Leonard Niles  
Client P.O.:

Date Sampled: 01/17/13  
Date Received: 01/18/13  
Date Extracted: 01/22/13  
Date Analyzed: 01/23/13-01/25/13

**Polynuclear Aromatic Hydrocarbons (PAHs / PNAs) using SIM Mode by GC/MS**

Extraction Method: SW3550B

Analytical Method: SW8270C-SIM

Work Order: 1301437

Lab ID	1301437-005A	1301437-006A	1301437-007A	1301437-008A	Reporting Limit for DF =1	
Client ID	B16-14.5-15	B20-10-10.5	B20-12-12.5	B20-14.5-15		
Matrix	S	S	S	S		
DF	1	20	20	1		

Compound	Concentration				mg/kg	ug/L
Acenaphthene	ND	ND<0.20	ND<0.20	ND	0.01	NA
Acenaphthylene	ND	ND<0.20	ND<0.20	ND	0.01	NA
Anthracene	ND	ND<0.20	ND<0.20	ND	0.01	NA
Benzo (a) anthracene	ND	ND<0.20	ND<0.20	ND	0.01	NA
Benzo (b) fluoranthene	ND	ND<0.20	ND<0.20	ND	0.01	NA
Benzo (k) fluoranthene	ND	ND<0.20	ND<0.20	ND	0.01	NA
Benzo (g,h,i) perylene	ND	ND<0.20	ND<0.20	ND	0.01	NA
Benzo (a) pyrene	ND	ND<0.20	ND<0.20	ND	0.01	NA
Chrysene	ND	ND<0.20	ND<0.20	ND	0.01	NA
Dibenzo (a,h) anthracene	ND	ND<0.20	ND<0.20	ND	0.01	NA
Fluoranthene	ND	ND<0.20	ND<0.20	ND	0.01	NA
Fluorene	ND	ND<0.20	ND<0.20	ND	0.01	NA
Indeno (1,2,3-cd) pyrene	ND	ND<0.20	ND<0.20	ND	0.01	NA
1-Methylnaphthalene	0.039	1.7	2.5	0.085	0.01	NA
2-Methylnaphthalene	0.069	2.9	4.3	0.16	0.01	NA
Naphthalene	0.075	4.5	7.1	0.22	0.01	NA
Phenanthrene	ND	ND<0.20	ND<0.20	ND	0.01	NA
Pyrene	ND	ND<0.20	ND<0.20	ND	0.01	NA

**Surrogate Recoveries (%)**

%SS1	83	97	101	86
%SS2	84	87	79	85

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/method detection limit; N/A means analyte not applicable to this ND means not detected at or above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

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



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All West Environmental, Inc

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San Francisco, CA 94105

Client Project ID: #12071.23; Hollis

Client Contact: Leonard Niles

Client P.O.:

Date Sampled: 01/17/13

Date Received: 01/18/13

Date Extracted: 01/22/13

Date Analyzed: 01/23/13-01/25/13

**Polynuclear Aromatic Hydrocarbons (PAHs / PNAs) using SIM Mode by GC/MS**

Extraction Method: SW3550B

Analytical Method: SW8270C-SIM

Work Order: 1301437

Lab ID	1301437-009A	1301437-010A			Reporting Limit for DF =1	
Client ID	B23-5-5.5	B23-8.5-9				
Matrix	S	S				
DF	1	1				

Compound	Concentration			mg/kg	ug/L
	Acenaphthene	ND	ND		0.01
Acenaphthylene	ND	ND		0.01	NA
Anthracene	ND	ND		0.01	NA
Benzo (a) anthracene	ND	ND		0.01	NA
Benzo (b) fluoranthene	ND	ND		0.01	NA
Benzo (k) fluoranthene	ND	ND		0.01	NA
Benzo (g,h,i) perylene	ND	ND		0.01	NA
Benzo (a) pyrene	ND	ND		0.01	NA
Chrysene	ND	ND<0.015		0.01	NA
Dibenzo (a,h) anthracene	ND	ND		0.01	NA
Fluoranthene	ND	0.016		0.01	NA
Fluorene	ND	ND		0.01	NA
Indeno (1,2,3-cd) pyrene	ND	ND		0.01	NA
1-Methylnaphthalene	ND	ND		0.01	NA
2-Methylnaphthalene	ND	ND		0.01	NA
Naphthalene	ND	ND		0.01	NA
Phenanthrene	ND	ND		0.01	NA
Pyrene	ND	0.018		0.01	NA

**Surrogate Recoveries (%)**

%SS1	81	72		
%SS2	82	66		

**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/method detection limit; N/A means analyte not applicable to this ND means not detected at or above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

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



All West Environmental, Inc  530 Howard Street, Ste.300  San Francisco, CA 94105	Client Project ID: #12071.23; Hollis	Date Sampled: 01/17/13
		Date Received: 01/18/13
	Client Contact: Leonard Niles	Date Extracted 01/18/13
	Client P.O.:	Date Analyzed 01/22/13-01/23/13

**TPH(g) by Purge & Trap and GC/MS\***

Extraction method: SW5030B

Analytical methods: SW8260B

Work Order: 1301437

Lab ID	Client ID	Matrix	TPH(g)	DF	% SS	Comments
006A	B20-10-10.5	S	480	100	94	
007A	B20-12-12.5	S	2000	1000	92	
008A	B20-14.5-15	S	27	20	93	
009A	B23-5-5.5	S	ND	1	100	
010A	B23-8.5-9	S	0.57	1	103	

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	NA	NA
	S	0.25	mg/kg

\* 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/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

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



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All West Environmental, Inc  530 Howard Street, Ste.300  San Francisco, CA 94105	Client Project ID: #12071.23; Hollis	Date Sampled: 01/17/13
		Date Received: 01/18/13
	Client Contact: Leonard Niles	Date Extracted: 01/18/13
	Client P.O.:	Date Analyzed: 01/19/13-01/23/13

**Gasoline Range (C6-C12) Mineral Spirits Range (C9-C12) Volatile Hydrocarbons with BTEX & MTBE\***

Extraction Method: SW5030B

Analytical Method: SW8021B/8015Bm

Work Order: 1301437

Lab ID	1301437-001A	1301437-002A	1301437-003A	1301437-004A	Reporting Limit for DF = 1	
Client ID	B15-10-10.5	B15-19.5-20	B16-8.5-9	B16-11.5-12		
Matrix	S	S	S	S		
DF	1	1	10	10		

Compound	Concentration				mg/Kg	ug/L
	TPH(g)	ND	ND	110	260	1.0
TPH(mineral spirits)	ND	ND	59	130	1.0	NA
MTBE	ND	ND	ND<0.50	ND<1.5	0.05	NA
Benzene	ND	ND	0.84	2.9	0.005	NA
Toluene	ND	ND	4.8	16	0.005	NA
Ethylbenzene	ND	ND	2.8	5.7	0.005	NA
Xylenes	0.012	0.007	13	24	0.005	NA

**Surrogate Recoveries (%)**

%SS:	93	103	---#	---#	
------	----	-----	------	------	--

<b>Comments</b>			d1	d1	
-----------------	--	--	----	----	--

\* water and vapor samples are reported 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 in mg/L.

# cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

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





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All West Environmental, Inc  530 Howard Street, Ste.300  San Francisco, CA 94105	Client Project ID: #12071.23; Hollis	Date Sampled: 01/17/13
	Client Contact: Leonard Niles	Date Received: 01/18/13
	Client P.O.:	Date Extracted: 01/18/13
		Date Analyzed: 01/19/13-01/23/13

**Gasoline Range (C6-C12) Mineral Spirits Range (C9-C12) Volatile Hydrocarbons with BTEX & MTBE\***

Extraction Method: SW5030B

Analytical Method: SW8021B/8015Bm

Work Order: 1301437

Lab ID	1301437-005A				Reporting Limit for DF =1
Client ID	B16-14.5-15				
Matrix	S				
DF	20				

Compound	Concentration				mg/Kg	ug/L
	TPH(g)	140				1.0
TPH(mineral spirits)	84				1.0	NA
MTBE	ND<1.0				0.05	NA
Benzene	2.6				0.005	NA
Toluene	10				0.005	NA
Ethylbenzene	2.6				0.005	NA
Xylenes	16				0.005	NA

**Surrogate Recoveries (%)**

%SS:	---#				
Comments	d1				

\* water and vapor samples are reported 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 in mg/L.

# cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

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



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All West Environmental, Inc  530 Howard Street, Ste.300  San Francisco, CA 94105	Client Project ID: #12071.23; Hollis	Date Sampled: 01/17/13
		Date Received: 01/18/13
	Client Contact: Leonard Niles	Date Extracted 01/18/13
	Client P.O.:	Date Analyzed 01/19/13-01/23/13

### Mineral Spirits Range (C9-C12) Volatile Hydrocarbons as Mineral Spirits\*

Extraction method: SW5030B

Analytical methods: SW8015Bm

Work Order: 1301437

Lab ID	Client ID	Matrix	TPH(mineral spirits)	DF	% SS	Comments
006A	B20-10-10.5	S	280	20	---#	d1
007A	B20-12-12.5	S	1200	100	---#	d1
008A	B20-14.5-15	S	15	10	109	d1
009A	B23-5-5.5	S	ND	1	97	
010A	B23-8.5-9	S	ND	1	101	

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

\* water and vapor samples are reported 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 in mg/L.

# cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

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



All West Environmental, Inc  530 Howard Street, Ste.300  San Francisco, CA 94105	Client Project ID: #12071.23; Hollis	Date Sampled: 01/17/13
		Date Received: 01/18/13
	Client Contact: Leonard Niles	Date Extracted 01/18/13
	Client P.O.:	Date Analyzed 01/19/13-01/25/13

**Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up\***

Extraction method: SW3550B/3630C

Analytical methods: SW8015B

Work Order: 1301437

Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	DF	% SS	Comments
1301437-001A	B15-10-10.5	S	ND	1	101	
1301437-002A	B15-19.5-20	S	2.7	1	113	e2
1301437-003A	B16-8.5-9	S	3.8	1	105	e4
1301437-004A	B16-11.5-12	S	9.6	1	102	e4
1301437-005A	B16-14.5-15	S	3.7	1	104	e4
1301437-006A	B20-10-10.5	S	90	1	102	e4
1301437-007A	B20-12-12.5	S	24	1	97	e4
1301437-008A	B20-14.5-15	S	5.1	1	103	e4
1301437-009A	B23-5-5.5	S	ND	1	102	
1301437-010A	B23-8.5-9	S	15	2	95	e7,e2

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	NA	NA
	S	1.0	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.

%SS = Percent Recovery of Surrogate Standard. DF = Dilution Factor

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
- e4) gasoline range compounds are significant.
- e7) oil range compounds are significant



**QC SUMMARY REPORT FOR SW8260B**

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 74102

WorkOrder: 1301437

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)		
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
tert-Amyl methyl ether (TAME)	ND	0.050	74.9	78.5	4.73	82.8	56 - 94	30	70 - 130
Benzene	ND	0.050	82.6	87.1	5.25	102	60 - 106	30	70 - 130
t-Butyl alcohol (TBA)	ND	0.20	75.1	76	1.19	78.3	56 - 140	30	70 - 130
Chlorobenzene	ND	0.050	81.4	85	4.35	98.6	61 - 108	30	70 - 130
1,2-Dibromoethane (EDB)	ND	0.050	76.4	84.6	10.2	91.2	54 - 119	30	70 - 130
1,2-Dichloroethane (1,2-DCA)	ND	0.050	89.1	97	8.51	107	48 - 115	30	70 - 130
1,1-Dichloroethene	ND	0.050	84.7	88.7	4.56	106	46 - 111	30	70 - 130
Diisopropyl ether (DIPE)	ND	0.050	85.7	88.8	3.63	98.3	53 - 111	30	70 - 130
Ethyl tert-butyl ether (ETBE)	ND	0.050	81.6	85.4	4.56	95.1	61 - 104	30	70 - 130
Methyl-t-butyl ether (MTBE)	ND	0.050	81.6	85	4.16	92.7	58 - 107	30	70 - 130
Toluene	ND	0.050	82.9	88.4	6.48	102	64 - 114	30	70 - 130
Trichloroethene	ND	0.050	91.4	93.5	2.34	108	60 - 116	30	70 - 130
%SS1:	116	0.12	114	114	0	117	70 - 130	30	70 - 130
%SS2:	113	0.12	115	115	0	117	70 - 130	30	70 - 130
%SS3:	93	0.012	93	102	9.39	102	70 - 130	30	70 - 130

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

BATCH 74102 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1301437-006A	01/17/13 1:25 PM	01/18/13	01/23/13 5:25 AM	1301437-007A	01/17/13 1:36 PM	01/18/13	01/23/13 6:06 AM
1301437-008A	01/17/13 1:41 PM	01/18/13	01/25/13 2:01 AM	1301437-009A	01/17/13 2:55 PM	01/18/13	01/22/13 2:46 PM
1301437-010A	01/17/13 3:07 PM	01/18/13	01/22/13 3:30 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.  
 $\% \text{ Recovery} = 100 * (\text{MS-Sample}) / (\text{Amount Spiked}); \text{RPD} = 100 * (\text{MS} - \text{MSD}) / ((\text{MS} + \text{MSD}) / 2).$   
 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.  
 Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.



**QC SUMMARY REPORT FOR SW8015B**

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 74051

WorkOrder: 1301437

EPA Method: SW8015B		Extraction: SW3550B/3630C					Spiked Sample ID: 1301371-057A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS	
TPH-Diesel (C10-C23)	ND	40	99.5	99.8	0.318	110	70 - 130	30	70 - 130	
%SS:	96	25	92	92	0	103	70 - 130	30	70 - 130	

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

BATCH 74051 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1301437-001A	01/17/13 8:30 AM	01/18/13	01/19/13 3:52 PM	1301437-002A	01/17/13 8:50 AM	01/18/13	01/23/13 12:35 AM
1301437-003A	01/17/13 10:22 AM	01/18/13	01/22/13 5:02 PM	1301437-004A	01/17/13 10:41 AM	01/18/13	01/22/13 8:37 PM
1301437-005A	01/17/13 10:54 AM	01/18/13	01/23/13 12:11 AM	1301437-006A	01/17/13 1:25 PM	01/18/13	01/25/13 4:15 PM
1301437-007A	01/17/13 1:36 PM	01/18/13	01/23/13 1:22 AM	1301437-008A	01/17/13 1:41 PM	01/18/13	01/22/13 6:13 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.



**QC SUMMARY REPORT FOR SW8015B**

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 74119

WorkOrder: 1301437

EPA Method: SW8015B		Extraction: SW3550B/3630C					Spiked Sample ID: 1301437-009A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS	
TPH-Diesel (C10-C23)	ND	40	114	112	1.01	103	70 - 130	30	70 - 130	
%SS:	102	25	104	103	0.776	92	70 - 130	30	70 - 130	

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

BATCH 74119 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1301437-009A	01/17/13 2:55 PM	01/18/13	01/20/13 2:58 AM	1301437-010A	01/17/13 3:07 PM	01/18/13	01/20/13 10:43 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.



### QC SUMMARY REPORT FOR SW8270C

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 74149

WorkOrder: 1301437

EPA Method: SW8270C-SIM		Extraction: SW3550B					Spiked Sample ID: 1301437-001A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)			
	mg/kg	mg/kg	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS	
Benzo (a) pyrene	ND	0.20	79.1	82.6	4.25	64.6	30 - 130	30	30 - 130	
Chrysene	ND	0.20	94.5	97.6	3.21	83	30 - 130	30	30 - 130	
1-Methylnaphthalene	ND	0.20	99.5	104	4.49	84.4	30 - 130	30	30 - 130	
2-Methylnaphthalene	ND	0.20	83.2	86.3	3.73	70.4	30 - 130	30	30 - 130	
Phenanthrene	ND	0.20	93.5	103	9.31	87.5	30 - 130	30	30 - 130	
Pyrene	ND	0.20	84.8	88.1	3.79	74.2	30 - 130	30	30 - 130	
%SS1:	81	0.50	79	81	2.40	71	30 - 130	30	30 - 130	
%SS2:	81	0.50	80	84	4.06	72	30 - 130	30	30 - 130	

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

#### BATCH 74149 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1301437-001A	01/17/13 8:30 AM	01/22/13	01/23/13 12:16 AM	1301437-002A	01/17/13 8:50 AM	01/22/13	01/23/13 12:44 AM
1301437-003A	01/17/13 10:22 AM	01/22/13	01/23/13 1:11 AM	1301437-004A	01/17/13 10:41 AM	01/22/13	01/23/13 3:29 PM
1301437-005A	01/17/13 10:54 AM	01/22/13	01/23/13 3:57 PM	1301437-006A	01/17/13 1:25 PM	01/22/13	01/24/13 12:37 PM
1301437-007A	01/17/13 1:36 PM	01/22/13	01/24/13 1:05 PM	1301437-008A	01/17/13 1:41 PM	01/22/13	01/23/13 4:24 PM
1301437-009A	01/17/13 2:55 PM	01/22/13	01/23/13 3:55 AM	1301437-010A	01/17/13 3:07 PM	01/22/13	01/25/13 1:25 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.  
 $\% \text{ Recovery} = 100 * (\text{MS-Sample}) / (\text{Amount Spiked}); \text{RPD} = 100 * (\text{MS} - \text{MSD}) / ((\text{MS} + \text{MSD}) / 2).$   
 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.  
 Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.



**QC SUMMARY REPORT FOR SW8021B/8015Bm**

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 74100

WorkOrder: 1301437

EPA Method: SW8021B/8015Bm		Extraction: SW5030B					Spiked Sample ID: 1301422-002A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS	
TPH(btex) £	ND	0.60	103	105	2.11	109	70 - 130	20	70 - 130	
MTBE	ND	0.10	75	93.9	19.8	113	70 - 130	20	70 - 130	
Benzene	ND	0.10	104	101	2.79	106	70 - 130	20	70 - 130	
Toluene	ND	0.10	101	99.4	1.18	105	70 - 130	20	70 - 130	
Ethylbenzene	ND	0.10	102	98	4.36	101	70 - 130	20	70 - 130	
Xylenes	ND	0.30	102	102	0	105	70 - 130	20	70 - 130	
%SS:	110	0.10	107	100	6.11	102	70 - 130	20	70 - 130	

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

BATCH 74100 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1301437-001A	01/17/13 8:30 AM	01/18/13	01/23/13 7:26 PM	1301437-002A	01/17/13 8:50 AM	01/18/13	01/23/13 8:55 PM
1301437-003A	01/17/13 10:22 AM	01/18/13	01/19/13 10:05 PM	1301437-004A	01/17/13 10:41 AM	01/18/13	01/19/13 9:35 PM
1301437-005A	01/17/13 10:54 AM	01/18/13	01/19/13 11:04 PM	1301437-006A	01/17/13 1:25 PM	01/18/13	01/19/13 11:34 PM
1301437-007A	01/17/13 1:36 PM	01/18/13	01/19/13 3:09 PM	1301437-008A	01/17/13 1:41 PM	01/18/13	01/19/13 4:09 PM
1301437-009A	01/17/13 2:55 PM	01/18/13	01/23/13 9:25 PM	1301437-010A	01/17/13 3:07 PM	01/18/13	01/23/13 10:24 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.  
 £ 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.





## Analytical Report

All West Environmental, Inc  530 Howard Street, Ste.300  San Francisco, CA 94105	Client Project ID: #12071.23; Hollis	Date Sampled: 01/18/13
		Date Received: 01/18/13
	Client Contact: Leonard Niles	Date Reported: 01/28/13
	Client P.O.:	Date Completed: 01/28/13

**WorkOrder: 1301438**

January 28, 2013

Dear Leonard:

Enclosed within are:

- 1) The results of the **10** analyzed samples from your project: **#12071.23; Hollis,**
- 2) QC data for the above samples, and
- 3) A copy of the chain of custody.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

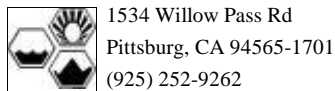
If you have any questions or concerns, please feel free to give me a call. Thank you for choosing McC Campbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius  
 Laboratory Manager  
 McC Campbell Analytical, Inc.

*The analytical results relate only to the items tested.*





# CHAIN-OF-CUSTODY RECORD

WorkOrder: 1301438

ClientCode: AWE

- WaterTrax  
  WriteOn  
  EDF  
  Excel  
  EQuIS  
  Email  
  HardCopy  
  ThirdParty  
  J-flag

**Report to:**  
 Leonard Niles  
 All West Environmental, Inc  
 530 Howard Street, Ste.300  
 San Francisco, CA 94105  
 (415) 391-2510    FAX: (415) 391-2008

Email: Leonard@allwest1.com  
 cc:  
 PO:  
 ProjectNo: #12071.23; Hollis

**Bill to:**  
 Darlene Torio  
 All West Environmental, Inc  
 530 Howard Street, Ste.300  
 San Francisco, CA 94105  
 darlene@allwest1.com

**Requested TAT: 5 days**

**Date Received: 01/18/2013**

**Date Printed: 01/18/2013**

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	
1301438-001	B21-4.5-5	Soil	1/18/2013 8:30	<input type="checkbox"/>	A	A		A	A								
1301438-002	B21-10-10.5	Soil	1/18/2013 8:56	<input type="checkbox"/>	A	A			A								
1301438-003	B21-21.5-22	Soil	1/18/2013 9:35	<input type="checkbox"/>	A	A			A								
1301438-004	B22-4.5-5	Soil	1/18/2013 10:05	<input type="checkbox"/>	A	A			A								
1301438-005	B22-10-10.5	Soil	1/18/2013 10:27	<input type="checkbox"/>	A	A			A								
1301438-006	B22-14.5-15	Soil	1/18/2013 10:34	<input type="checkbox"/>	A	A			A								
1301438-007	B24-4.5-5	Soil	1/18/2013 11:48	<input type="checkbox"/>	A	A			A								
1301438-008	B24-8.5-9	Soil	1/18/2013 12:10	<input type="checkbox"/>	A	A			A								
1301438-009	B24-21.5-22	Soil	1/18/2013 12:44	<input type="checkbox"/>	A	A			A								
1301438-010	Disp. Comp.	Soil	1/18/2013 14:00	<input type="checkbox"/>	A	A	A		A								

**Test Legend:**

1	8270D-PNA_S	2	GAS8260_S	3	LUFTMS_S	4	PREDF REPORT	5	TPH(D)WSG_S
6		7		8		9		10	
11		12							

The following SampIDs: 001A, 002A, 003A, 004A, 005A, 006A, 007A, 008A, 009A, 010A contain testgroup.

**Prepared by: Zoraida Cortez**

**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.



### Sample Receipt Checklist

Client Name: **All West Environmental, Inc**

Date and Time Received: **1/18/2013 5:58:38 PM**

Project Name: **#12071.23; Hollis**

LogIn Reviewed by: **Zoraida Cortez**

WorkOrder N°: **1301438** Matrix: Soil

Carrier: Rob Pringle (MAI Courier)

#### Chain of Custody (COC) Information

Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sample IDs noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Date and Time of collection noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sampler's name noted on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>

#### Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper containers/bottles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

#### Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature	Cooler Temp: 3°C		NA <input type="checkbox"/>
Water - VOA vials have zero headspace / no bubbles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Sample labels checked for correct preservation?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Metal - pH acceptable upon receipt (pH<2)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Samples Received on Ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

(Ice Type: WET ICE )

\* NOTE: If the "No" box is checked, see comments below.

-----  
 Comments:



All West Environmental, Inc 530 Howard Street, Ste.300 San Francisco, CA 94105	Client Project ID: #12071.23; Hollis	Date Sampled: 01/18/13
		Date Received: 01/18/13
	Client Contact: Leonard Niles	Date Extracted: 01/18/13
	Client P.O.:	Date Analyzed: 01/22/13

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

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 1301438

Lab ID	1301438-001A
Client ID	B21-4.5-5
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<5.0	100	0.05	tert-Amyl methyl ether (TAME)	ND<0.50	100	0.005
Benzene	ND<0.50	100	0.005	Bromobenzene	ND<0.50	100	0.005
Bromochloromethane	ND<0.50	100	0.005	Bromodichloromethane	ND<0.50	100	0.005
Bromoform	ND<0.50	100	0.005	Bromomethane	ND<0.50	100	0.005
2-Butanone (MEK)	ND<2.0	100	0.02	t-Butyl alcohol (TBA)	ND<5.0	100	0.05
n-Butyl benzene	1.8	100	0.005	sec-Butyl benzene	ND<0.50	100	0.005
tert-Butyl benzene	ND<0.50	100	0.005	Carbon Disulfide	ND<0.50	100	0.005
Carbon Tetrachloride	ND<0.50	100	0.005	Chlorobenzene	ND<0.50	100	0.005
Chloroethane	ND<0.50	100	0.005	Chloroform	ND<0.50	100	0.005
Chloromethane	ND<0.50	100	0.005	2-Chlorotoluene	ND<0.50	100	0.005
4-Chlorotoluene	ND<0.50	100	0.005	Dibromochloromethane	ND<0.50	100	0.005
1,2-Dibromo-3-chloropropane	ND<0.40	100	0.004	1,2-Dibromoethane (EDB)	ND<0.40	100	0.004
Dibromomethane	ND<0.50	100	0.005	1,2-Dichlorobenzene	ND<0.50	100	0.005
1,3-Dichlorobenzene	ND<0.50	100	0.005	1,4-Dichlorobenzene	ND<0.50	100	0.005
Dichlorodifluoromethane	ND<0.50	100	0.005	1,1-Dichloroethane	ND<0.50	100	0.005
1,2-Dichloroethane (1,2-DCA)	ND<0.40	100	0.004	1,1-Dichloroethene	ND<0.50	100	0.005
cis-1,2-Dichloroethene	ND<0.50	100	0.005	trans-1,2-Dichloroethene	ND<0.50	100	0.005
1,2-Dichloropropane	ND<0.50	100	0.005	1,3-Dichloropropane	ND<0.50	100	0.005
2,2-Dichloropropane	ND<0.50	100	0.005	1,1-Dichloropropene	ND<0.50	100	0.005
cis-1,3-Dichloropropene	ND<0.50	100	0.005	trans-1,3-Dichloropropene	ND<0.50	100	0.005
Diisopropyl ether (DIPE)	ND<0.50	100	0.005	Ethylbenzene	3.2	100	0.005
Ethyl tert-butyl ether (ETBE)	ND<0.50	100	0.005	Freon 113	ND<10	100	0.1
Hexachlorobutadiene	ND<0.50	100	0.005	Hexachloroethane	ND<0.50	100	0.005
2-Hexanone	ND<0.50	100	0.005	Isopropylbenzene	ND<0.50	100	0.005
4-Isopropyl toluene	ND<0.50	100	0.005	Methyl-t-butyl ether (MTBE)	0.98	100	0.005
Methylene chloride	ND<0.50	100	0.005	4-Methyl-2-pentanone (MIBK)	ND<0.50	100	0.005
Naphthalene	3.3	100	0.005	n-Propyl benzene	1.8	100	0.005
Styrene	ND<0.50	100	0.005	1,1,1,2-Tetrachloroethane	ND<0.50	100	0.005
1,1,2,2-Tetrachloroethane	ND<0.50	100	0.005	Tetrachloroethene	ND<0.50	100	0.005
Toluene	4.3	100	0.005	1,2,3-Trichlorobenzene	ND<0.50	100	0.005
1,2,4-Trichlorobenzene	ND<0.50	100	0.005	1,1,1-Trichloroethane	ND<0.50	100	0.005
1,1,2-Trichloroethane	ND<0.50	100	0.005	Trichloroethene	ND<0.50	100	0.005
Trichlorofluoromethane	ND<0.50	100	0.005	1,2,3-Trichloropropane	ND<0.50	100	0.005
1,2,4-Trimethylbenzene	13	100	0.005	1,3,5-Trimethylbenzene	4.1	100	0.005
Vinyl Chloride	ND<0.50	100	0.005	Xylenes, Total	19	100	0.005

**Surrogate Recoveries (%)**

%SS1:	119	%SS2:	104
%SS3:	95		

**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/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

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

a13) reporting limit raised due to low density sample



Table with client information: All West Environmental, Inc, Client Project ID: #12071.23; Hollis, Date Sampled: 01/18/13, Date Received: 01/18/13, Client Contact: Leonard Niles, Date Extracted: 01/18/13, San Francisco, CA 94105, Client P.O., Date Analyzed: 01/24/13

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

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 1301438

Table with Lab ID: 1301438-002A, Client ID: B21-10-10.5, Matrix: Soil

Main data table with columns: Compound, Concentration \*, DF, Reporting Limit, Compound, Concentration \*, DF, Reporting Limit. Lists various organic compounds and their detection results.

Surrogate Recoveries (%)

Table showing surrogate recoveries: %SS1: 117, %SS2: 106, %SS3: 91

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/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

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

a13) reporting limit raised due to low density sample



Table with client information: All West Environmental, Inc, Client Project ID: #12071.23; Hollis, Date Sampled: 01/18/13, Date Received: 01/18/13, Client Contact: Leonard Niles, Date Extracted: 01/18/13, San Francisco, CA 94105, Client P.O., Date Analyzed: 01/24/13

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

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 1301438

Table with Lab ID: 1301438-003A, Client ID: B21-21.5-22, Matrix: Soil

Main data table with columns: Compound, Concentration \*, DF, Reporting Limit, Compound, Concentration \*, DF, Reporting Limit. Lists various organic compounds and their detection results.

Surrogate Recoveries (%)

Table showing surrogate recoveries: %SS1: 122, %SS2: 108, %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/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor
# surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.
a13) reporting limit raised due to low density sample



Table with client information: All West Environmental, Inc, Client Project ID: #12071.23; Hollis, Date Sampled: 01/18/13, Date Received: 01/18/13, Client Contact: Leonard Niles, Date Extracted: 01/18/13, San Francisco, CA 94105, Client P.O., Date Analyzed: 01/24/13

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

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 1301438

Summary table with Lab ID 1301438-004A, Client ID B22-4.5-5, Matrix Soil

Main data table with columns: Compound, Concentration \*, DF, Reporting Limit, Compound, Concentration \*, DF, Reporting Limit. Lists various organic compounds and their detection levels.

Surrogate Recoveries (%)

Table showing surrogate recoveries: %SS1: 115, %SS2: 107, %SS3: 92

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/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

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

a13) reporting limit raised due to low density sample





Table with client information: All West Environmental, Inc, Client Project ID: #12071.23; Hollis, Date Sampled: 01/18/13, Date Received: 01/18/13, Client Contact: Leonard Niles, Date Extracted: 01/18/13, San Francisco, CA 94105, Client P.O., Date Analyzed: 01/25/13

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

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 1301438

Table with Lab ID: 1301438-005A, Client ID: B22-10-10.5, Matrix: Soil

Main data table with columns: Compound, Concentration \*, DF, Reporting Limit, Compound, Concentration \*, DF, Reporting Limit. Lists various organic compounds and their detection results.

Surrogate Recoveries (%)

Table showing surrogate recoveries: %SS1: 116, %SS2: 107, %SS3: 95

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/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor
# surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.
a13) reporting limit raised due to low density sample



Table with client information: All West Environmental, Inc, Client Project ID: #12071.23; Hollis, Date Sampled: 01/18/13, Date Received: 01/18/13, Client Contact: Leonard Niles, Date Extracted: 01/18/13, San Francisco, CA 94105, Client P.O., Date Analyzed: 01/25/13

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

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 1301438

Summary table with Lab ID 1301438-006A, Client ID B22-14.5-15, Matrix Soil

Main data table with columns: Compound, Concentration, DF, Reporting Limit, Compound, Concentration, DF, Reporting Limit. Lists various organic compounds and their detection levels.

Surrogate Recoveries (%)

Table showing surrogate recoveries: %SS1: 111, %SS2: 108, %SS3: 91

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/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor
# surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.
a13) reporting limit raised due to low density sample



Table with client information: All West Environmental, Inc, Client Project ID: #12071.23; Hollis, Date Sampled: 01/18/13, Date Received: 01/18/13, Client Contact: Leonard Niles, Date Extracted: 01/18/13, San Francisco, CA 94105, Client P.O., Date Analyzed: 01/25/13

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

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 1301438

Table with Lab ID, Client ID, Matrix, and Soil information.

Main data table with columns: Compound, Concentration \*, DF, Reporting Limit, Compound, Concentration \*, DF, Reporting Limit. Lists various organic compounds and their detection results.

Surrogate Recoveries (%)

Table showing surrogate recoveries: %SS1: 126, %SS2: 111, %SS3: 93

Comments: a13

\* 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/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

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

a13) reporting limit raised due to low density sample



Table with client information: All West Environmental, Inc, Client Project ID: #12071.23; Hollis, Date Sampled: 01/18/13, Date Received: 01/18/13, Client Contact: Leonard Niles, Date Extracted: 01/18/13, San Francisco, CA 94105, Client P.O., Date Analyzed: 01/24/13

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

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 1301438

Summary table with Lab ID 1301438-008A, Client ID B24-8.5-9, Matrix Soil

Main data table with columns: Compound, Concentration \*, DF, Reporting Limit, Compound, Concentration \*, DF, Reporting Limit. Lists various organic compounds and their detection levels.

Surrogate Recoveries (%)

Table showing surrogate recoveries: %SS1: 122, %SS2: 106, %SS3: 93

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/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor
# surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.
a13) reporting limit raised due to low density sample



All West Environmental, Inc 530 Howard Street, Ste.300 San Francisco, CA 94105	Client Project ID: #12071.23; Hollis	Date Sampled: 01/18/13
		Date Received: 01/18/13
	Client Contact: Leonard Niles	Date Extracted: 01/18/13
	Client P.O.:	Date Analyzed: 01/25/13

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

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 1301438

Lab ID	1301438-009A
Client ID	B24-21.5-22
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<0.10	2.0	0.05	tert-Amyl methyl ether (TAME)	ND<0.010	2.0	0.005
Benzene	0.022	2.0	0.005	Bromobenzene	ND<0.010	2.0	0.005
Bromochloromethane	ND<0.010	2.0	0.005	Bromodichloromethane	ND<0.010	2.0	0.005
Bromoform	ND<0.010	2.0	0.005	Bromomethane	ND<0.010	2.0	0.005
2-Butanone (MEK)	ND<0.040	2.0	0.02	t-Butyl alcohol (TBA)	ND<0.10	2.0	0.05
n-Butyl benzene	ND<0.010	2.0	0.005	sec-Butyl benzene	ND<0.010	2.0	0.005
tert-Butyl benzene	ND<0.010	2.0	0.005	Carbon Disulfide	ND<0.010	2.0	0.005
Carbon Tetrachloride	ND<0.010	2.0	0.005	Chlorobenzene	ND<0.010	2.0	0.005
Chloroethane	ND<0.010	2.0	0.005	Chloroform	ND<0.010	2.0	0.005
Chloromethane	ND<0.010	2.0	0.005	2-Chlorotoluene	ND<0.010	2.0	0.005
4-Chlorotoluene	ND<0.010	2.0	0.005	Dibromochloromethane	ND<0.010	2.0	0.005
1,2-Dibromo-3-chloropropane	ND<0.0080	2.0	0.004	1,2-Dibromoethane (EDB)	ND<0.0080	2.0	0.004
Dibromomethane	ND<0.010	2.0	0.005	1,2-Dichlorobenzene	ND<0.010	2.0	0.005
1,3-Dichlorobenzene	ND<0.010	2.0	0.005	1,4-Dichlorobenzene	ND<0.010	2.0	0.005
Dichlorodifluoromethane	ND<0.010	2.0	0.005	1,1-Dichloroethane	ND<0.010	2.0	0.005
1,2-Dichloroethane (1,2-DCA)	ND<0.0080	2.0	0.004	1,1-Dichloroethene	ND<0.010	2.0	0.005
cis-1,2-Dichloroethene	ND<0.010	2.0	0.005	trans-1,2-Dichloroethene	ND<0.010	2.0	0.005
1,2-Dichloropropane	ND<0.010	2.0	0.005	1,3-Dichloropropane	ND<0.010	2.0	0.005
2,2-Dichloropropane	ND<0.010	2.0	0.005	1,1-Dichloropropene	ND<0.010	2.0	0.005
cis-1,3-Dichloropropene	ND<0.010	2.0	0.005	trans-1,3-Dichloropropene	ND<0.010	2.0	0.005
Diisopropyl ether (DIPE)	ND<0.010	2.0	0.005	Ethylbenzene	0.032	2.0	0.005
Ethyl tert-butyl ether (ETBE)	ND<0.010	2.0	0.005	Freon 113	ND<0.20	2.0	0.1
Hexachlorobutadiene	ND<0.010	2.0	0.005	Hexachloroethane	ND<0.010	2.0	0.005
2-Hexanone	ND<0.010	2.0	0.005	Isopropylbenzene	ND<0.010	2.0	0.005
4-Isopropyl toluene	ND<0.010	2.0	0.005	Methyl-t-butyl ether (MTBE)	0.24	2.0	0.005
Methylene chloride	ND<0.010	2.0	0.005	4-Methyl-2-pentanone (MIBK)	ND<0.010	2.0	0.005
Naphthalene	ND<0.010	2.0	0.005	n-Propyl benzene	ND<0.010	2.0	0.005
Styrene	ND<0.010	2.0	0.005	1,1,1,2-Tetrachloroethane	ND<0.010	2.0	0.005
1,1,2,2-Tetrachloroethane	ND<0.010	2.0	0.005	Tetrachloroethene	ND<0.010	2.0	0.005
Toluene	0.11	2.0	0.005	1,2,3-Trichlorobenzene	ND<0.010	2.0	0.005
1,2,4-Trichlorobenzene	ND<0.010	2.0	0.005	1,1,1-Trichloroethane	ND<0.010	2.0	0.005
1,1,2-Trichloroethane	ND<0.010	2.0	0.005	Trichloroethene	ND<0.010	2.0	0.005
Trichlorofluoromethane	ND<0.010	2.0	0.005	1,2,3-Trichloropropane	ND<0.010	2.0	0.005
1,2,4-Trimethylbenzene	0.065	2.0	0.005	1,3,5-Trimethylbenzene	0.019	2.0	0.005
Vinyl Chloride	ND<0.010	2.0	0.005	Xylenes, Total	0.19	2.0	0.005

**Surrogate Recoveries (%)**

%SS1:	116	%SS2:	109
%SS3:	92		

**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/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

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

a13) reporting limit raised due to low density sample



All West Environmental, Inc 530 Howard Street, Ste.300 San Francisco, CA 94105	Client Project ID: #12071.23; Hollis	Date Sampled: 01/18/13
		Date Received: 01/18/13
	Client Contact: Leonard Niles	Date Extracted: 01/18/13
	Client P.O.:	Date Analyzed: 01/25/13

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

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 1301438

Lab ID	1301438-010A
Client ID	Disp. Comp.
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<1.0	20	0.05	tert-Amyl methyl ether (TAME)	ND<0.10	20	0.005
Benzene	0.38	20	0.005	Bromobenzene	ND<0.10	20	0.005
Bromochloromethane	ND<0.10	20	0.005	Bromodichloromethane	ND<0.10	20	0.005
Bromoform	ND<0.10	20	0.005	Bromomethane	ND<0.10	20	0.005
2-Butanone (MEK)	ND<0.40	20	0.02	t-Butyl alcohol (TBA)	ND<1.0	20	0.05
n-Butyl benzene	ND<0.10	20	0.005	sec-Butyl benzene	ND<0.10	20	0.005
tert-Butyl benzene	ND<0.10	20	0.005	Carbon Disulfide	ND<0.10	20	0.005
Carbon Tetrachloride	ND<0.10	20	0.005	Chlorobenzene	ND<0.10	20	0.005
Chloroethane	ND<0.10	20	0.005	Chloroform	ND<0.10	20	0.005
Chloromethane	ND<0.10	20	0.005	2-Chlorotoluene	ND<0.10	20	0.005
4-Chlorotoluene	ND<0.10	20	0.005	Dibromochloromethane	ND<0.10	20	0.005
1,2-Dibromo-3-chloropropane	ND<0.080	20	0.004	1,2-Dibromoethane (EDB)	ND<0.080	20	0.004
Dibromomethane	ND<0.10	20	0.005	1,2-Dichlorobenzene	ND<0.10	20	0.005
1,3-Dichlorobenzene	ND<0.10	20	0.005	1,4-Dichlorobenzene	ND<0.10	20	0.005
Dichlorodifluoromethane	ND<0.10	20	0.005	1,1-Dichloroethane	ND<0.10	20	0.005
1,2-Dichloroethane (1,2-DCA)	ND<0.080	20	0.004	1,1-Dichloroethene	ND<0.10	20	0.005
cis-1,2-Dichloroethene	ND<0.10	20	0.005	trans-1,2-Dichloroethene	ND<0.10	20	0.005
1,2-Dichloropropane	ND<0.10	20	0.005	1,3-Dichloropropane	ND<0.10	20	0.005
2,2-Dichloropropane	ND<0.10	20	0.005	1,1-Dichloropropene	ND<0.10	20	0.005
cis-1,3-Dichloropropene	ND<0.10	20	0.005	trans-1,3-Dichloropropene	ND<0.10	20	0.005
Diisopropyl ether (DIPE)	ND<0.10	20	0.005	Ethylbenzene	0.22	20	0.005
Ethyl tert-butyl ether (ETBE)	ND<0.10	20	0.005	Freon 113	ND<2.0	20	0.1
Hexachlorobutadiene	ND<0.10	20	0.005	Hexachloroethane	ND<0.10	20	0.005
2-Hexanone	ND<0.10	20	0.005	Isopropylbenzene	ND<0.10	20	0.005
4-Isopropyl toluene	ND<0.10	20	0.005	Methyl-t-butyl ether (MTBE)	2.6	20	0.005
Methylene chloride	ND<0.10	20	0.005	4-Methyl-2-pentanone (MIBK)	ND<0.10	20	0.005
Naphthalene	ND<0.10	20	0.005	n-Propyl benzene	ND<0.10	20	0.005
Styrene	ND<0.10	20	0.005	1,1,1,2-Tetrachloroethane	ND<0.10	20	0.005
1,1,2,2-Tetrachloroethane	ND<0.10	20	0.005	Tetrachloroethene	ND<0.10	20	0.005
Toluene	1.0	20	0.005	1,2,3-Trichlorobenzene	ND<0.10	20	0.005
1,2,4-Trichlorobenzene	ND<0.10	20	0.005	1,1,1-Trichloroethane	ND<0.10	20	0.005
1,1,2-Trichloroethane	ND<0.10	20	0.005	Trichloroethene	ND<0.10	20	0.005
Trichlorofluoromethane	ND<0.10	20	0.005	1,2,3-Trichloropropane	ND<0.10	20	0.005
1,2,4-Trimethylbenzene	0.42	20	0.005	1,3,5-Trimethylbenzene	0.13	20	0.005
Vinyl Chloride	ND<0.10	20	0.005	Xylenes, Total	1.4	20	0.005

**Surrogate Recoveries (%)**

%SS1:	116	%SS2:	105
%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/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

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

a13) reporting limit raised due to low density sample



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All West Environmental, Inc  530 Howard Street, Ste.300  San Francisco, CA 94105	Client Project ID: #12071.23; Hollis	Date Sampled: 01/18/13
		Date Received: 01/18/13
	Client Contact: Leonard Niles	Date Extracted: 01/22/13
	Client P.O.:	Date Analyzed: 01/23/13-01/24/13

**Polynuclear Aromatic Hydrocarbons (PAHs / PNAs) using SIM Mode by GC/MS**

Extraction Method: SW3550B

Analytical Method: SW8270C-SIM

Work Order: 1301438

Lab ID	1301438-001A	1301438-002A	1301438-003A	1301438-004A	Reporting Limit for DF = 1	
Client ID	B21-4.5-5	B21-10-10.5	B21-21.5-22	B22-4.5-5		
Matrix	S	S	S	S		
DF	10	20	1	1		

Compound	Concentration				mg/kg	ug/L
Acenaphthene	ND<0.10	ND<0.20	ND	ND	0.01	NA
Acenaphthylene	ND<0.10	ND<0.20	ND	ND	0.01	NA
Anthracene	ND<0.10	ND<0.20	ND	ND	0.01	NA
Benzo (a) anthracene	ND<0.10	ND<0.20	ND	ND	0.01	NA
Benzo (b) fluoranthene	ND<0.10	ND<0.20	ND	ND	0.01	NA
Benzo (k) fluoranthene	ND<0.10	ND<0.20	ND	ND	0.01	NA
Benzo (g,h,i) perylene	ND<0.10	ND<0.20	ND	ND	0.01	NA
Benzo (a) pyrene	ND<0.10	ND<0.20	ND	ND	0.01	NA
Chrysene	ND<0.10	ND<0.20	ND	ND	0.01	NA
Dibenzo (a,h) anthracene	ND<0.10	ND<0.20	ND	ND	0.01	NA
Fluoranthene	ND<0.10	ND<0.20	ND	ND	0.01	NA
Fluorene	ND<0.10	ND<0.20	ND	ND	0.01	NA
Indeno (1,2,3-cd) pyrene	ND<0.10	ND<0.20	ND	ND	0.01	NA
1-Methylnaphthalene	0.87	2.1	0.27	0.13	0.01	NA
2-Methylnaphthalene	1.4	3.7	0.50	0.24	0.01	NA
Naphthalene	1.6	5.0	0.43	0.15	0.01	NA
Phenanthrene	ND<0.10	ND<0.20	ND	ND	0.01	NA
Pyrene	ND<0.10	ND<0.20	ND	ND	0.01	NA

**Surrogate Recoveries (%)**

%SS1	86	101	84	88
%SS2	76	78	86	88

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/method detection limit; N/A means analyte not applicable to this ND means not detected at or above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

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



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All West Environmental, Inc  
530 Howard Street, Ste.300  
San Francisco, CA 94105

Client Project ID: #12071.23; Hollis

Date Sampled: 01/18/13

Date Received: 01/18/13

Client Contact: Leonard Niles

Date Extracted: 01/22/13

Client P.O.:

Date Analyzed: 01/23/13-01/24/13

Polynuclear Aromatic Hydrocarbons (PAHs / PNAs) using SIM Mode by GC/MS

Extraction Method: SW3550B

Analytical Method: SW8270C-SIM

Work Order: 1301438

Lab ID	1301438-005A	1301438-006A	1301438-007A	1301438-008A	Reporting Limit for DF = 1	
Client ID	B22-10-10.5	B22-14.5-15	B24-4.5-5	B24-8.5-9		
Matrix	S	S	S	S		
DF	5	1	1	10		

Compound	Concentration				mg/kg	ug/L
Acenaphthene	ND<0.050	ND	ND	ND<0.10	0.01	NA
Acenaphthylene	ND<0.050	ND	ND	ND<0.10	0.01	NA
Anthracene	ND<0.050	ND	ND	ND<0.10	0.01	NA
Benzo (a) anthracene	ND<0.050	ND	ND	ND<0.10	0.01	NA
Benzo (b) fluoranthene	ND<0.050	ND	ND	ND<0.10	0.01	NA
Benzo (k) fluoranthene	ND<0.050	ND	ND	ND<0.10	0.01	NA
Benzo (g,h,i) perylene	ND<0.050	ND	ND	ND<0.10	0.01	NA
Benzo (a) pyrene	ND<0.050	ND	ND	ND<0.10	0.01	NA
Chrysene	ND<0.050	ND	ND	ND<0.10	0.01	NA
Dibenzo (a,h) anthracene	ND<0.050	ND	ND	ND<0.10	0.01	NA
Fluoranthene	ND<0.050	ND	ND	ND<0.10	0.01	NA
Fluorene	ND<0.050	ND	ND	ND<0.10	0.01	NA
Indeno (1,2,3-cd) pyrene	ND<0.050	ND	ND	ND<0.10	0.01	NA
1-Methylnaphthalene	0.26	0.024	0.013	0.59	0.01	NA
2-Methylnaphthalene	0.41	0.044	0.025	0.95	0.01	NA
Naphthalene	0.67	0.058	0.029	0.85	0.01	NA
Phenanthrene	ND<0.050	ND	ND	ND<0.10	0.01	NA
Pyrene	ND<0.050	ND	ND	ND<0.10	0.01	NA

Surrogate Recoveries (%)

%SS1	86	83	84	81	
%SS2	74	83	84	77	

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/method detection limit; N/A means analyte not applicable to this ND means not detected at or above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

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





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All West Environmental, Inc  
530 Howard Street, Ste.300  
San Francisco, CA 94105

Client Project ID: #12071.23; Hollis

Date Sampled: 01/18/13

Date Received: 01/18/13

Client Contact: Leonard Niles

Date Extracted: 01/22/13

Client P.O.:

Date Analyzed: 01/23/13-01/24/13

Polynuclear Aromatic Hydrocarbons (PAHs / PNAs) using SIM Mode by GC/MS

Extraction Method: SW3550B

Analytical Method: SW8270C-SIM

Work Order: 1301438

Lab ID	1301438-009A	1301438-010A			Reporting Limit for DF =1	
Client ID	B24-21.5-22	Disp. Comp.				
Matrix	S	S				
DF	1	1				

Compound	Concentration			mg/kg	ug/L
Acenaphthene	ND	ND		0.01	NA
Acenaphthylene	ND	ND		0.01	NA
Anthracene	ND	ND		0.01	NA
Benzo (a) anthracene	ND	ND		0.01	NA
Benzo (b) fluoranthene	ND	ND		0.01	NA
Benzo (k) fluoranthene	ND	ND		0.01	NA
Benzo (g,h,i) perylene	ND	ND		0.01	NA
Benzo (a) pyrene	ND	ND		0.01	NA
Chrysene	ND	ND		0.01	NA
Dibenzo (a,h) anthracene	ND	ND		0.01	NA
Fluoranthene	ND	ND		0.01	NA
Fluorene	ND	ND		0.01	NA
Indeno (1,2,3-cd) pyrene	ND	ND		0.01	NA
1-Methylnaphthalene	ND	0.072		0.01	NA
2-Methylnaphthalene	ND	0.13		0.01	NA
Naphthalene	0.014	0.11		0.01	NA
Phenanthrene	ND	ND		0.01	NA
Pyrene	ND	ND		0.01	NA

Surrogate Recoveries (%)

%SS1	81	84		
%SS2	81	85		

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/method detection limit; N/A means analyte not applicable to this ND means not detected at or above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

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



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All West Environmental, Inc  530 Howard Street, Ste.300  San Francisco, CA 94105	Client Project ID: #12071.23; Hollis	Date Sampled: 01/18/13
		Date Received: 01/18/13
	Client Contact: Leonard Niles	Date Extracted 01/18/13
	Client P.O.:	Date Analyzed 01/22/13-01/25/13

### TPH(g) by Purge & Trap and GC/MS\*

Extraction method: SW5030B

Analytical methods: SW8260B

Work Order: 1301438

Lab ID	Client ID	Matrix	TPH(g)	DF	% SS	Comments
001A	B21-4.5-5	S	280	100	92	
002A	B21-10-10.5	S	1900	1000	93	
003A	B21-21.5-22	S	120	67	96	
004A	B22-4.5-5	S	92	25	94	
005A	B22-10-10.5	S	68	100	93	
006A	B22-14.5-15	S	30	10	95	
007A	B24-4.5-5	S	0.45	1	98	
008A	B24-8.5-9	S	250	100	93	
009A	B24-21.5-22	S	1.6	1	99	
010A	Disp. Comp.	S	14	20	93	

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	NA	NA
	S	0.25	mg/kg

\* 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/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

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



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All West Environmental, Inc  530 Howard Street, Ste.300  San Francisco, CA 94105	Client Project ID: #12071.23; Hollis	Date Sampled: 01/18/13
		Date Received: 01/18/13
	Client Contact: Leonard Niles	Date Extracted 01/18/13
	Client P.O.:	Date Analyzed 01/19/13-01/28/13

### Mineral Spirits Range (C9-C12) Volatile Hydrocarbons as Mineral Spirits\*

Extraction method: SW5030B

Analytical methods: SW8015Bm

Work Order: 1301438

Lab ID	Client ID	Matrix	TPH(g)	DF	% SS	Comments
001A	B21-4.5-5	S	410	33	---#	d1
002A	B21-10-10.5	S	1200	200	118	d1
003A	B21-21.5-22	S	340	200	---#	d1
004A	B22-4.5-5	S	120	10	119	d1
005A	B22-10-10.5	S	280	20	---#	d1
006A	B22-14.5-15	S	20	1	96	d1
007A	B24-4.5-5	S	ND	1	119	
008A	B24-8.5-9	S	230	20	94	d1
009A	B24-21.5-22	S	4.2	1	106	d1
010A	Disp. Comp.	S	24	10	108	d1

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

\* water and vapor samples are reported 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 in mg/L.

# cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

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



# McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701  
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269  
http://www.mcccampbell.com / E-mail: main@mcccampbell.com

All West Environmental, Inc  530 Howard Street, Ste.300  San Francisco, CA 94105	Client Project ID: #12071.23; Hollis	Date Sampled: 01/18/13
		Date Received: 01/18/13
	Client Contact: Leonard Niles	Date Extracted: 01/18/13
	Client P.O.:	Date Analyzed: 01/24/13

### LUFT 5 Metals\*

Extraction method: SW3050B

Analytical methods: SW6020

Work Order: 1301438

Lab ID	Client ID	Matrix	Extraction Type	Cadmium	Chromium	Lead	Nickel	Zinc	DF	% SS	Comments
010A	Disp. Comp.	S	TOTAL	ND	53	6.4	40	42	1	91	

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	TOTAL	NA	NA	NA	NA	NA	NA	NA
	S	TOTAL	0.25	0.5	0.5	0.5	0.5	5.0	mg/Kg

\*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/method detection limit; N/A means not applicable to this sample or instrument.

TOTAL = Hot acid digestion of a representative sample aliquot.  
TRM = Total recoverable metals is the "direct analysis" of a sample aliquot taken from its acid-preserved container.  
DISS = Dissolved metals by direct analysis of 0.45 µm filtered and acidified sample.

%SS = Percent Recovery of Surrogate Standard  
DF = Dilution Factor

 Angela Rydelius, Lab Manager



All West Environmental, Inc  530 Howard Street, Ste.300  San Francisco, CA 94105	Client Project ID: #12071.23; Hollis	Date Sampled: 01/18/13
		Date Received: 01/18/13
	Client Contact: Leonard Niles	Date Extracted 01/18/13
	Client P.O.:	Date Analyzed 01/20/13-01/23/13

**Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up\***

Extraction method: SW3550B/3630C

Analytical methods: SW8015B

Work Order: 1301438

Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	DF	% SS	Comments
1301438-001A	B21-4.5-5	S	40	1	100	e4,e2
1301438-002A	B21-10-10.5	S	180	1	112	e4
1301438-003A	B21-21.5-22	S	22	1	97	e4
1301438-004A	B22-4.5-5	S	9.1	1	104	e4
1301438-005A	B22-10-10.5	S	17	1	94	e4
1301438-006A	B22-14.5-15	S	3.2	1	102	e4
1301438-007A	B24-4.5-5	S	1.8	1	95	e2
1301438-008A	B24-8.5-9	S	44	1	96	e4
1301438-009A	B24-21.5-22	S	2.2	1	104	e2
1301438-010A	Disp. Comp.	S	4.1	1	96	e4,e2

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	NA	NA
	S	1.0	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.

%SS = Percent Recovery of Surrogate Standard. DF = Dilution Factor

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

e4) gasoline range compounds are significant.



### QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 74102

WorkOrder: 1301438

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)		
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
tert-Amyl methyl ether (TAME)	ND	0.050	74.9	78.5	4.73	82.8	56 - 94	30	70 - 130
Benzene	ND	0.050	82.6	87.1	5.25	102	60 - 106	30	70 - 130
t-Butyl alcohol (TBA)	ND	0.20	75.1	76	1.19	78.3	56 - 140	30	70 - 130
Chlorobenzene	ND	0.050	81.4	85	4.35	98.6	61 - 108	30	70 - 130
1,2-Dibromoethane (EDB)	ND	0.050	76.4	84.6	10.2	91.2	54 - 119	30	70 - 130
1,2-Dichloroethane (1,2-DCA)	ND	0.050	89.1	97	8.51	107	48 - 115	30	70 - 130
1,1-Dichloroethene	ND	0.050	84.7	88.7	4.56	106	46 - 111	30	70 - 130
Diisopropyl ether (DIPE)	ND	0.050	85.7	88.8	3.63	98.3	53 - 111	30	70 - 130
Ethyl tert-butyl ether (ETBE)	ND	0.050	81.6	85.4	4.56	95.1	61 - 104	30	70 - 130
Methyl-t-butyl ether (MTBE)	ND	0.050	81.6	85	4.16	92.7	58 - 107	30	70 - 130
Toluene	ND	0.050	82.9	88.4	6.48	102	64 - 114	30	70 - 130
Trichloroethene	ND	0.050	91.4	93.5	2.34	108	60 - 116	30	70 - 130
%SS1:	116	0.12	114	114	0	117	70 - 130	30	70 - 130
%SS2:	113	0.12	115	115	0	117	70 - 130	30	70 - 130
%SS3:	93	0.012	93	102	9.39	102	70 - 130	30	70 - 130

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

#### BATCH 74102 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1301438-001A	01/18/13 8:30 AM	01/18/13	01/22/13 4:13 PM	1301438-002A	01/18/13 8:56 AM	01/18/13	01/24/13 10:36 PM
1301438-003A	01/18/13 9:35 AM	01/18/13	01/24/13 11:17 PM	1301438-004A	01/18/13 10:05 AM	01/18/13	01/24/13 11:58 PM
1301438-005A	01/18/13 10:27 AM	01/18/13	01/25/13 12:39 AM	1301438-006A	01/18/13 10:34 AM	01/18/13	01/25/13 1:20 AM
1301438-007A	01/18/13 11:48 AM	01/18/13	01/25/13 4:08 PM	1301438-008A	01/18/13 12:10 PM	01/18/13	01/24/13 9:13 PM
1301438-009A	01/18/13 12:44 PM	01/18/13	01/25/13 4:49 PM	1301438-010A	01/18/13 2:00 PM	01/18/13	01/25/13 5:30 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.  
 $\% \text{ Recovery} = 100 * (\text{MS-Sample}) / (\text{Amount Spiked}); \text{RPD} = 100 * (\text{MS} - \text{MSD}) / ((\text{MS} + \text{MSD}) / 2).$   
 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.  
 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: 74149

WorkOrder: 1301438

EPA Method: SW8270C-SIM		Extraction: SW3550B					Spiked Sample ID: 1301437-001A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)			
	mg/kg	mg/kg	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS	
Benzo (a) pyrene	ND	0.20	79.1	82.6	4.25	64.6	30 - 130	30	30 - 130	
Chrysene	ND	0.20	94.5	97.6	3.21	83	30 - 130	30	30 - 130	
1-Methylnaphthalene	ND	0.20	99.5	104	4.49	84.4	30 - 130	30	30 - 130	
2-Methylnaphthalene	ND	0.20	83.2	86.3	3.73	70.4	30 - 130	30	30 - 130	
Phenanthrene	ND	0.20	93.5	103	9.31	87.5	30 - 130	30	30 - 130	
Pyrene	ND	0.20	84.8	88.1	3.79	74.2	30 - 130	30	30 - 130	
%SS1:	81	0.50	79	81	2.40	71	30 - 130	30	30 - 130	
%SS2:	81	0.50	80	84	4.06	72	30 - 130	30	30 - 130	

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

**BATCH 74149 SUMMARY**

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1301438-001A	01/18/13 8:30 AM	01/22/13	01/24/13 1:32 PM	1301438-002A	01/18/13 8:56 AM	01/22/13	01/24/13 2:00 PM
1301438-003A	01/18/13 9:35 AM	01/22/13	01/23/13 5:17 AM	1301438-004A	01/18/13 10:05 AM	01/22/13	01/24/13 8:01 PM
1301438-005A	01/18/13 10:27 AM	01/22/13	01/24/13 8:29 PM	1301438-006A	01/18/13 10:34 AM	01/22/13	01/23/13 4:52 PM
1301438-007A	01/18/13 11:48 AM	01/22/13	01/23/13 5:20 PM	1301438-008A	01/18/13 12:10 PM	01/22/13	01/24/13 8:56 PM
1301438-009A	01/18/13 12:44 PM	01/22/13	01/24/13 11:15 AM	1301438-010A	01/18/13 2:00 PM	01/22/13	01/23/13 5:51 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.  
 $\% \text{ Recovery} = 100 * (\text{MS-Sample}) / (\text{Amount Spiked}); \text{RPD} = 100 * (\text{MS} - \text{MSD}) / ((\text{MS} + \text{MSD}) / 2).$   
 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.  
 Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.



**QC SUMMARY REPORT FOR SW8021B/8015Bm**

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 74100

WorkOrder: 1301438

EPA Method: SW8015Bm		Extraction: SW5030B					Spiked Sample ID: 1301422-002A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS	
TPH(btex) <sup>£</sup>	ND	0.60	103	105	2.11	109	70 - 130	20	70 - 130	
MTBE	ND	0.10	75	93.9	19.8	113	70 - 130	20	70 - 130	
Benzene	ND	0.10	104	101	2.79	106	70 - 130	20	70 - 130	
Toluene	ND	0.10	101	99.4	1.18	105	70 - 130	20	70 - 130	
Ethylbenzene	ND	0.10	102	98	4.36	101	70 - 130	20	70 - 130	
Xylenes	ND	0.30	102	102	0	105	70 - 130	20	70 - 130	
%SS:	110	0.10	107	100	6.11	102	70 - 130	20	70 - 130	

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

**BATCH 74100 SUMMARY**

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1301438-001A	01/18/13 8:30 AM	01/18/13	01/24/13 7:06 PM	1301438-002A	01/18/13 8:56 AM	01/18/13	01/20/13 3:31 AM
1301438-003A	01/18/13 9:35 AM	01/18/13	01/20/13 12:33 AM	1301438-004A	01/18/13 10:05 AM	01/18/13	01/24/13 9:13 PM
1301438-005A	01/18/13 10:27 AM	01/18/13	01/24/13 4:35 PM	1301438-006A	01/18/13 10:34 AM	01/18/13	01/19/13 7:07 PM
1301438-007A	01/18/13 11:48 AM	01/18/13	01/28/13 12:52 PM	1301438-008A	01/18/13 12:10 PM	01/18/13	01/24/13 2:40 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.  
 £ 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.





**QC SUMMARY REPORT FOR SW8021B/8015Bm**

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 74120

WorkOrder: 1301438

EPA Method: SW8015Bm		Extraction: SW5030B					Spiked Sample ID: 1301498-001A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS	
TPH(btex) <sup>£</sup>	ND	0.60	104	106	2.39	111	70 - 130	20	70 - 130	
MTBE	ND	0.10	111	114	2.92	117	70 - 130	20	70 - 130	
Benzene	ND	0.10	105	105	0	108	70 - 130	20	70 - 130	
Toluene	ND	0.10	102	102	0	106	70 - 130	20	70 - 130	
Ethylbenzene	ND	0.10	102	101	0.171	104	70 - 130	20	70 - 130	
Xylenes	ND	0.30	106	106	0	107	70 - 130	20	70 - 130	
%SS:	110	0.10	98	99	1.34	94	70 - 130	20	70 - 130	

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

BATCH 74120 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1301438-009A	01/18/13 12:44 PM	01/18/13	01/28/13 1:22 PM	1301438-010A	01/18/13 2:00 PM	01/18/13	01/19/13 10:35 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.  
 £ 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.



**QC SUMMARY REPORT FOR SW6020**

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 74063

WorkOrder: 1301438

EPA Method: SW6020		Extraction: SW3050B					Spiked Sample ID: 1301398-001A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS	
Cadmium	ND	50	108	112	3.92	91.3	75 - 125	20	75 - 125	
Chromium	43	50	104	97.1	3.69	94	75 - 125	20	75 - 125	
Lead	8.0	50	111	122	8.21	93.1	75 - 125	20	75 - 125	
Nickel	44	50	116	109	3.57	95.5	75 - 125	20	75 - 125	
Zinc	43	500	112	116	3.55	94.4	75 - 125	20	75 - 125	
%SS:	90	500	114	119	4.19	97	70 - 130	20	70 - 130	

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

BATCH 74063 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1301438-010A	01/18/13 2:00 PM	01/18/13	01/24/13 3:52 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.  
 $\% \text{ Recovery} = 100 * (\text{MS-Sample}) / (\text{Amount Spiked}); \text{RPD} = 100 * (\text{MS} - \text{MSD}) / ((\text{MS} + \text{MSD}) / 2).$   
 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 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.



**QC SUMMARY REPORT FOR SW8015B**

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 74119

WorkOrder: 1301438

EPA Method: SW8015B		Extraction: SW3550B/3630C					Spiked Sample ID: 1301437-009A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS	
TPH-Diesel (C10-C23)	ND	40	114	112	1.01	103	70 - 130	30	70 - 130	
%SS:	102	25	104	103	0.776	92	70 - 130	30	70 - 130	

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

BATCH 74119 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1301438-001A	01/18/13 8:30 AM	01/18/13	01/22/13 7:25 PM	1301438-002A	01/18/13 8:56 AM	01/18/13	01/22/13 5:02 PM
1301438-003A	01/18/13 9:35 AM	01/18/13	01/23/13 2:33 AM	1301438-004A	01/18/13 10:05 AM	01/18/13	01/22/13 6:13 PM
1301438-005A	01/18/13 10:27 AM	01/18/13	01/23/13 6:07 AM	1301438-006A	01/18/13 10:34 AM	01/18/13	01/20/13 2:58 AM
1301438-007A	01/18/13 11:48 AM	01/18/13	01/23/13 10:44 PM	1301438-008A	01/18/13 12:10 PM	01/18/13	01/23/13 3:44 AM
1301438-009A	01/18/13 12:44 PM	01/18/13	01/23/13 4:56 AM	1301438-010A	01/18/13 2:00 PM	01/18/13	01/22/13 9:48 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.  
 $\% \text{ Recovery} = 100 * (\text{MS-Sample}) / (\text{Amount Spiked}); \text{RPD} = 100 * (\text{MS} - \text{MSD}) / ((\text{MS} + \text{MSD}) / 2).$   
 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.



## Analytical Report

All West Environmental, Inc  530 Howard Street, Ste.300  San Francisco, CA 94105	Client Project ID: #12071.23; Hollis	Date Sampled: 01/17/13
		Date Received: 01/18/13
	Client Contact: Leonard Niles	Date Reported: 01/28/13
	Client P.O.:	Date Completed: 01/25/13

**WorkOrder: 1301439**

January 28, 2013

Dear Leonard:

Enclosed within are:

- 1) The results of the **4** analyzed samples from your project: **#12071.23; Hollis**,
- 2) QC data for the above samples, and
- 3) A copy of the chain of custody.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing McC Campbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius  
Laboratory Manager  
McC Campbell Analytical, Inc.

*The analytical results relate only to the items tested.*





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

# CHAIN-OF-CUSTODY RECORD

WorkOrder: 1301439

ClientCode: AWE

WaterTrax   
  WriteOn   
  EDF   
  Excel   
  EQUIS   
  Email   
  HardCopy   
  ThirdParty   
  J-flag

**Report to:**

Leonard Niles  
All West Environmental, Inc  
530 Howard Street, Ste.300  
San Francisco, CA 94105  
(415) 391-2510    FAX: (415) 391-2008

Email: Leonard@allwest1.com  
cc:  
PO:  
ProjectNo: #12071.23; Hollis

**Bill to:**

Darlene Torio  
All West Environmental, Inc  
530 Howard Street, Ste.300  
San Francisco, CA 94105  
darlene@allwest1.com

**Requested TAT:**

**5 days**

*Date Received:*    **01/18/2013**

*Date Printed:*    **01/18/2013**

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
1301439-001	B15	Water	1/17/2013 9:30	<input type="checkbox"/>	C	A	B	A	B							
1301439-002	B16	Water	1/17/2013 11:49	<input type="checkbox"/>		A	B		B							
1301439-003	B20	Water	1/17/2013 14:11	<input type="checkbox"/>	C	A	B		B							
1301439-004	B23	Water	1/17/2013 15:25	<input type="checkbox"/>	C	A	B		B							

**Test Legend:**

1	8270D-PNA_W	2	GAS8260_W	3	G-MBTEX_W	4	PREFD REPORT	5	TPH(D)WSG_W
6		7		8		9		10	
11		12							

The following SamplIDs: 001A, 001B, 002A, 002B, 003A, 003B, 004A, 004B contain testgroup.

**Prepared by: Zoraida Cortez**

**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.



### Sample Receipt Checklist

Client Name: **All West Environmental, Inc**

Date and Time Received: **1/18/2013 8:50:51 PM**

Project Name: **#12071.23; Hollis**

LogIn Reviewed by: **Zoraida Cortez**

WorkOrder N°: **1301439** Matrix: Water

Carrier: Rob Pringle (MAI Courier)

#### Chain of Custody (COC) Information

Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sample IDs noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Date and Time of collection noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sampler's name noted on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>

#### Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper containers/bottles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

#### Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature	Cooler Temp: 3°C		NA <input type="checkbox"/>
Water - VOA vials have zero headspace / no bubbles?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	No VOA vials submitted <input type="checkbox"/>
Sample labels checked for correct preservation?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Metal - pH acceptable upon receipt (pH<2)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Samples Received on Ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

(Ice Type: WET ICE )

\* NOTE: If the "No" box is checked, see comments below.

-----  
 Comments: Sample 003 had headspace.



All West Environmental, Inc 530 Howard Street, Ste.300 San Francisco, CA 94105	Client Project ID: #12071.23; Hollis	Date Sampled: 01/17/13
		Date Received: 01/18/13
	Client Contact: Leonard Niles	Date Extracted: 01/23/13
	Client P.O.:	Date Analyzed: 01/23/13

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

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 1301439

Lab ID	1301439-001A
Client ID	B15
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<25	2.5	10	tert-Amyl methyl ether (TAME)	ND<1.2	2.5	0.5
Benzene	3.1	2.5	0.5	Bromobenzene	ND<1.2	2.5	0.5
Bromochloromethane	ND<1.2	2.5	0.5	Bromodichloromethane	ND<1.2	2.5	0.5
Bromoform	ND<1.2	2.5	0.5	Bromomethane	ND<1.2	2.5	0.5
2-Butanone (MEK)	ND<5.0	2.5	2.0	t-Butyl alcohol (TBA)	ND<5.0	2.5	2.0
n-Butyl benzene	9.8	2.5	0.5	sec-Butyl benzene	1.8	2.5	0.5
tert-Butyl benzene	ND<1.2	2.5	0.5	Carbon Disulfide	ND<1.2	2.5	0.5
Carbon Tetrachloride	ND<1.2	2.5	0.5	Chlorobenzene	ND<1.2	2.5	0.5
Chloroethane	ND<1.2	2.5	0.5	Chloroform	ND<1.2	2.5	0.5
Chloromethane	ND<1.2	2.5	0.5	2-Chlorotoluene	ND<1.2	2.5	0.5
4-Chlorotoluene	ND<1.2	2.5	0.5	Dibromochloromethane	ND<1.2	2.5	0.5
1,2-Dibromo-3-chloropropane	ND<0.50	2.5	0.2	1,2-Dibromoethane (EDB)	ND<1.2	2.5	0.5
Dibromomethane	ND<1.2	2.5	0.5	1,2-Dichlorobenzene	ND<1.2	2.5	0.5
1,3-Dichlorobenzene	ND<1.2	2.5	0.5	1,4-Dichlorobenzene	ND<1.2	2.5	0.5
Dichlorodifluoromethane	ND<1.2	2.5	0.5	1,1-Dichloroethane	ND<1.2	2.5	0.5
1,2-Dichloroethane (1,2-DCA)	ND<1.2	2.5	0.5	1,1-Dichloroethene	ND<1.2	2.5	0.5
cis-1,2-Dichloroethene	ND<1.2	2.5	0.5	trans-1,2-Dichloroethene	ND<1.2	2.5	0.5
1,2-Dichloropropane	ND<1.2	2.5	0.5	1,3-Dichloropropane	ND<1.2	2.5	0.5
2,2-Dichloropropane	ND<1.2	2.5	0.5	1,1-Dichloropropene	ND<1.2	2.5	0.5
cis-1,3-Dichloropropene	ND<1.2	2.5	0.5	trans-1,3-Dichloropropene	ND<1.2	2.5	0.5
Diisopropyl ether (DIPE)	ND<1.2	2.5	0.5	Ethylbenzene	24	2.5	0.5
Ethyl tert-butyl ether (ETBE)	ND<1.2	2.5	0.5	Freon 113	ND<25	2.5	10
Hexachlorobutadiene	ND<1.2	2.5	0.5	Hexachloroethane	ND<1.2	2.5	0.5
2-Hexanone	ND<1.2	2.5	0.5	Isopropylbenzene	2.6	2.5	0.5
4-Isopropyl toluene	ND<1.2	2.5	0.5	Methyl-t-butyl ether (MTBE)	ND<1.2	2.5	0.5
Methylene chloride	ND<1.2	2.5	0.5	4-Methyl-2-pentanone (MIBK)	ND<1.2	2.5	0.5
Naphthalene	27	2.5	0.5	n-Propyl benzene	12	2.5	0.5
Styrene	ND<1.2	2.5	0.5	1,1,1,2-Tetrachloroethane	ND<1.2	2.5	0.5
1,1,2,2-Tetrachloroethane	ND<1.2	2.5	0.5	Tetrachloroethene	ND<1.2	2.5	0.5
Toluene	32	2.5	0.5	1,2,3-Trichlorobenzene	ND<1.2	2.5	0.5
1,2,4-Trichlorobenzene	ND<1.2	2.5	0.5	1,1,1-Trichloroethane	ND<1.2	2.5	0.5
1,1,2-Trichloroethane	ND<1.2	2.5	0.5	Trichloroethene	53	2.5	0.5
Trichlorofluoromethane	ND<1.2	2.5	0.5	1,2,3-Trichloropropane	ND<1.2	2.5	0.5
1,2,4-Trimethylbenzene	100	2.5	0.5	1,3,5-Trimethylbenzene	33	2.5	0.5
Vinyl Chloride	ND<1.2	2.5	0.5	Xylenes, Total	160	2.5	0.5

**Surrogate Recoveries (%)**

%SS1:	120	%SS2:	105
%SS3:	90		

Comments: b1

\* 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/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

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

b1) aqueous sample that contains greater than ~1 vol. % sediment

b6) lighter than water immiscible sheen/product is present





Table with client information: All West Environmental, Inc, Client Project ID: #12071.23; Hollis, Date Sampled: 01/17/13, Date Received: 01/18/13, Client Contact: Leonard Niles, Date Extracted: 01/23/13, San Francisco, CA 94105, Client P.O., Date Analyzed: 01/23/13

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

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 1301439

Table with Lab ID: 1301439-002A, Client ID: B16, Matrix: Water

Main data table with columns: Compound, Concentration \*, DF, Reporting Limit, Compound, Concentration \*, DF, Reporting Limit. Lists various organic compounds and their detection results.

Surrogate Recoveries (%)

Table showing surrogate recoveries: %SS1: 119, %SS2: 106, %SS3: 97

Comments: b1

\* 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/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

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

b1) aqueous sample that contains greater than ~1 vol. % sediment

b6) lighter than water immiscible sheen/product is present



All West Environmental, Inc 530 Howard Street, Ste.300 San Francisco, CA 94105	Client Project ID: #12071.23; Hollis	Date Sampled: 01/17/13
		Date Received: 01/18/13
	Client Contact: Leonard Niles	Date Extracted: 01/24/13
	Client P.O.:	Date Analyzed: 01/24/13

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

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 1301439

Lab ID	1301439-003A
Client ID	B20
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<25,000	2500	10	tert-Amyl methyl ether (TAME)	ND<1200	2500	0.5
Benzene	21,000	2500	0.5	Bromobenzene	ND<1200	2500	0.5
Bromochloromethane	ND<1200	2500	0.5	Bromodichloromethane	ND<1200	2500	0.5
Bromoform	ND<1200	2500	0.5	Bromomethane	ND<1200	2500	0.5
2-Butanone (MEK)	ND<5000	2500	2.0	t-Butyl alcohol (TBA)	ND<5000	2500	2.0
n-Butyl benzene	ND<1200	2500	0.5	sec-Butyl benzene	ND<1200	2500	0.5
tert-Butyl benzene	ND<1200	2500	0.5	Carbon Disulfide	ND<1200	2500	0.5
Carbon Tetrachloride	ND<1200	2500	0.5	Chlorobenzene	ND<1200	2500	0.5
Chloroethane	ND<1200	2500	0.5	Chloroform	ND<1200	2500	0.5
Chloromethane	ND<1200	2500	0.5	2-Chlorotoluene	ND<1200	2500	0.5
4-Chlorotoluene	ND<1200	2500	0.5	Dibromochloromethane	ND<1200	2500	0.5
1,2-Dibromo-3-chloropropane	ND<500	2500	0.2	1,2-Dibromoethane (EDB)	ND<1200	2500	0.5
Dibromomethane	ND<1200	2500	0.5	1,2-Dichlorobenzene	ND<1200	2500	0.5
1,3-Dichlorobenzene	ND<1200	2500	0.5	1,4-Dichlorobenzene	ND<1200	2500	0.5
Dichlorodifluoromethane	ND<1200	2500	0.5	1,1-Dichloroethane	ND<1200	2500	0.5
1,2-Dichloroethane (1,2-DCA)	ND<1200	2500	0.5	1,1-Dichloroethene	ND<1200	2500	0.5
cis-1,2-Dichloroethene	ND<1200	2500	0.5	trans-1,2-Dichloroethene	ND<1200	2500	0.5
1,2-Dichloropropane	ND<1200	2500	0.5	1,3-Dichloropropane	ND<1200	2500	0.5
2,2-Dichloropropane	ND<1200	2500	0.5	1,1-Dichloropropene	ND<1200	2500	0.5
cis-1,3-Dichloropropene	ND<1200	2500	0.5	trans-1,3-Dichloropropene	ND<1200	2500	0.5
Diisopropyl ether (DIPE)	ND<1200	2500	0.5	Ethylbenzene	3700	2500	0.5
Ethyl tert-butyl ether (ETBE)	ND<1200	2500	0.5	Freon 113	ND<25,000	2500	10
Hexachlorobutadiene	ND<1200	2500	0.5	Hexachloroethane	ND<1200	2500	0.5
2-Hexanone	ND<1200	2500	0.5	Isopropylbenzene	ND<1200	2500	0.5
4-Isopropyl toluene	ND<1200	2500	0.5	Methyl-t-butyl ether (MTBE)	2300	2500	0.5
Methylene chloride	ND<1200	2500	0.5	4-Methyl-2-pentanone (MIBK)	ND<1200	2500	0.5
Naphthalene	ND<1200	2500	0.5	n-Propyl benzene	ND<1200	2500	0.5
Styrene	ND<1200	2500	0.5	1,1,1,2-Tetrachloroethane	ND<1200	2500	0.5
1,1,2,2-Tetrachloroethane	ND<1200	2500	0.5	Tetrachloroethene	ND<1200	2500	0.5
Toluene	47,000	2500	0.5	1,2,3-Trichlorobenzene	ND<1200	2500	0.5
1,2,4-Trichlorobenzene	ND<1200	2500	0.5	1,1,1-Trichloroethane	ND<1200	2500	0.5
1,1,2-Trichloroethane	ND<1200	2500	0.5	Trichloroethene	ND<1200	2500	0.5
Trichlorofluoromethane	ND<1200	2500	0.5	1,2,3-Trichloropropane	ND<1200	2500	0.5
1,2,4-Trimethylbenzene	1800	2500	0.5	1,3,5-Trimethylbenzene	ND<1200	2500	0.5
Vinyl Chloride	ND<1200	2500	0.5	Xylenes, Total	21,000	2500	0.5

**Surrogate Recoveries (%)**

%SS1:	120	%SS2:	118
%SS3:	107		

Comments: b6,b1

\* 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/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

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

b1) aqueous sample that contains greater than ~1 vol. % sediment

b6) lighter than water immiscible sheen/product is present



Table with client information: All West Environmental, Inc, Client Project ID: #12071.23; Hollis, Date Sampled: 01/17/13, Date Received: 01/18/13, Client Contact: Leonard Niles, Date Extracted: 01/24/13, San Francisco, CA 94105, Client P.O., Date Analyzed: 01/24/13

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

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 1301439

Table with Lab ID (1301439-004A), Client ID (B23), Matrix (Water)

Main data table with columns: Compound, Concentration \*, DF, Reporting Limit, Compound, Concentration \*, DF, Reporting Limit. Lists various organic compounds and their detection results.

Surrogate Recoveries (%)

Table showing surrogate recoveries: %SS1: 121, %SS2: 119, %SS3: 102

Comments: b1

\* 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/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

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

b1) aqueous sample that contains greater than ~1 vol. % sediment

b6) lighter than water immiscible sheen/product is present



McC Campbell Analytical, Inc.

"When Quality Counts"

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Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269  
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All West Environmental, Inc  530 Howard Street, Ste.300  San Francisco, CA 94105	Client Project ID: #12071.23; Hollis	Date Sampled: 01/17/13
		Date Received: 01/18/13
	Client Contact: Leonard Niles	Date Extracted: 01/23/13
	Client P.O.:	Date Analyzed: 01/24/13-01/25/13

**Polynuclear Aromatic Hydrocarbons (PAHs / PNAs) using SIM Mode by GC/MS**

Extraction Method: SW3510C

Analytical Method: SW8270C-SIM

Work Order: 1301439

Lab ID	1301439-001C	1301439-003C	1301439-004C	Reporting Limit for DF = 1
Client ID	B15	B20	B23	
Matrix	W	W	W	
DF	1	100	1	

Compound	Concentration			ug/kg	µg/L
Acenaphthene	ND	ND<50	ND	NA	0.5
Acenaphthylene	ND	ND<50	ND	NA	0.5
Anthracene	ND	ND<50	ND	NA	0.5
Benzo (a) anthracene	ND	ND<50	0.56	NA	0.5
Benzo (b) fluoranthene	ND	ND<50	ND	NA	0.5
Benzo (k) fluoranthene	ND	ND<50	ND	NA	0.5
Benzo (g,h,i) perylene	ND	ND<50	ND	NA	0.5
Benzo (a) pyrene	ND	ND<50	ND	NA	0.5
Chrysene	ND	ND<50	ND	NA	0.5
Dibenzo (a,h) anthracene	ND	ND<50	ND	NA	0.5
Fluoranthene	ND	ND<50	0.94	NA	0.5
Fluorene	ND	ND<50	ND	NA	0.5
Indeno (1,2,3-cd) pyrene	ND	ND<50	ND	NA	0.5
1-Methylnaphthalene	ND	460	ND	NA	0.5
2-Methylnaphthalene	ND	750	ND	NA	0.5
Naphthalene	ND	1700	ND<0.55	NA	0.5
Phenanthrene	ND	ND<50	0.75	NA	0.5
Pyrene	ND	ND<50	1.0	NA	0.5

**Surrogate Recoveries (%)**

%SS1	68	---#	66
%SS2	64	---#	51
Comments	b1	b1	b1

\* 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 at or above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

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

b1) aqueous sample that contains greater than ~1 vol. % sediment



All West Environmental, Inc  530 Howard Street, Ste.300  San Francisco, CA 94105	Client Project ID: #12071.23; Hollis	Date Sampled: 01/17/13
		Date Received: 01/18/13
	Client Contact: Leonard Niles	Date Extracted 01/22/13-01/24/13
	Client P.O.:	Date Analyzed 01/22/13-01/24/13

**TPH(g) by Purge & Trap and GC/MS\***

Extraction method: SW5030B

Analytical methods: SW8260B

Work Order: 1301439

Lab ID	Client ID	Matrix	TPH(g)	DF	% SS	Comments
001A	B15	W	1900	2.5	92	b1
002A	B16	W	47,000	200	93	b1
003A	B20	W	160,000	100	100	b6,b1
004A	B23	W	170	1	101	b1

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	µg/L
	S	NA	NA

\* 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/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

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

b1) aqueous sample that contains greater than ~1 vol. % sediment  
 b6) lighter than water immiscible sheen/product is present



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All West Environmental, Inc  530 Howard Street, Ste.300  San Francisco, CA 94105	Client Project ID: #12071.23; Hollis	Date Sampled: 01/17/13
		Date Received: 01/18/13
	Client Contact: Leonard Niles	Date Extracted 01/23/13
	Client P.O.:	Date Analyzed 01/23/13

### Mineral Spirits Range (C9-C12) Volatile Hydrocarbons as Mineral Spirits\*

Extraction method: SW5030B

Analytical methods: SW8015Bm

Work Order: 1301439

Lab ID	Client ID	Matrix	TPH(mineral spirits)	DF	% SS	Comments
001B	B15	W	1300	1	---#	d1,b1
002B	B16	W	ND<5000	100	101	d1,b1
003B	B20	W	22,000	200	108	d1,b6,b1
004B	B23	W	160	1	116	d1,b1

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	µg/L
	S	NA	NA

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

# cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference. %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation:  
b1) aqueous sample that contains greater than ~1 vol. % sediment  
b6) lighter than water immiscible sheen/product is present  
d1) weakly modified or unmodified gasoline is significant



All West Environmental, Inc  530 Howard Street, Ste.300  San Francisco, CA 94105	Client Project ID: #12071.23; Hollis	Date Sampled: 01/17/13
		Date Received: 01/18/13
	Client Contact: Leonard Niles	Date Extracted 01/18/13
	Client P.O.:	Date Analyzed 01/23/13

**Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up\***

Extraction method: SW3510C/3630C

Analytical methods: SW8015B

Work Order: 1301439

Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	DF	% SS	Comments
1301439-001B	B15	W	740	1	104	e4,b1
1301439-002B	B16	W	6300	1	99	e4,b1
1301439-003B	B20	W	95,000	10	106	e4,b6,b1
1301439-004B	B23	W	140	1	81	e4,e2,b1

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	µg/L
	S	NA	NA

\* 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/matrix interference.

%SS = Percent Recovery of Surrogate Standard. DF = Dilution Factor

The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation:  
 b1) aqueous sample that contains greater than ~1 vol. % sediment  
 b6) lighter than water immiscible sheen/product is present  
 e2) diesel range compounds are significant; no recognizable pattern  
 e4) gasoline range compounds are significant.



### QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 74174

WorkOrder: 1301439

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)		
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
tert-Amyl methyl ether (TAME)	ND	10	116	118	2.02	117	70 - 130	20	70 - 130
Benzene	1.9	10	89.6	90.8	1.14	102	70 - 130	20	70 - 130
t-Butyl alcohol (TBA)	4.7	40	121	124	1.99	117	70 - 130	20	70 - 130
Chlorobenzene	ND	10	97.6	97.2	0.444	99.4	70 - 130	20	70 - 130
1,2-Dibromoethane (EDB)	ND	10	111	112	1.57	111	70 - 130	20	70 - 130
1,2-Dichloroethane (1,2-DCA)	ND	10	92.2	98.5	6.67	105	70 - 130	20	70 - 130
1,1-Dichloroethene	ND	10	101	102	0.505	110	70 - 130	20	70 - 130
Diisopropyl ether (DIPE)	ND	10	89.6	93.1	3.81	121	70 - 130	20	70 - 130
Ethyl tert-butyl ether (ETBE)	ND	10	99.6	103	3.38	114	70 - 130	20	70 - 130
Methyl-t-butyl ether (MTBE)	ND	10	111	114	3.12	116	70 - 130	20	70 - 130
Toluene	0.73	10	101	96.9	3.88	99.8	70 - 130	20	70 - 130
Trichloroethene	ND	10	98.7	100	1.63	99.7	70 - 130	20	70 - 130
%SS1:	100	25	97	101	3.61	101	70 - 130	20	70 - 130
%SS2:	99	25	96	97	0.815	99	70 - 130	20	70 - 130
%SS3:	107	2.5	109	106	2.59	98	70 - 130	20	70 - 130

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

#### BATCH 74174 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1301439-001A	01/17/13 9:30 AM	01/23/13	01/23/13 3:21 AM	1301439-002A	01/17/13 11:49 AM	01/23/13	01/23/13 4:03 AM
1301439-003A	01/17/13 2:11 PM	01/24/13	01/24/13 11:18 PM	1301439-004A	01/17/13 3:25 PM	01/24/13	01/24/13 3:29 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.  
 $\% \text{ Recovery} = 100 * (\text{MS-Sample}) / (\text{Amount Spiked}); \text{RPD} = 100 * (\text{MS} - \text{MSD}) / ((\text{MS} + \text{MSD}) / 2).$   
 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 or coelutes with another peak; &) low surrogate due to matrix interference.  
 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: Water

QC Matrix: Water

BatchID: 74187

WorkOrder: 1301439

EPA Method: SW8270C-SIM		Extraction: SW3510C					Spiked Sample ID: N/A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS	
Benzo (a) pyrene	N/A	10	N/A	N/A	N/A	59.8	N/A	N/A	30 - 130	
Chrysene	N/A	10	N/A	N/A	N/A	90.7	N/A	N/A	30 - 130	
1-Methylnaphthalene	N/A	10	N/A	N/A	N/A	92.9	N/A	N/A	30 - 130	
2-Methylnaphthalene	N/A	10	N/A	N/A	N/A	76	N/A	N/A	30 - 130	
Phenanthrene	N/A	10	N/A	N/A	N/A	90.8	N/A	N/A	30 - 130	
Pyrene	N/A	10	N/A	N/A	N/A	78.1	N/A	N/A	30 - 130	
%SS1:	N/A	25	N/A	N/A	N/A	76	N/A	N/A	30 - 130	
%SS2:	N/A	25	N/A	N/A	N/A	79	N/A	N/A	30 - 130	

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

BATCH 74187 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1301439-001C	01/17/13 9:30 AM	01/23/13	01/24/13 10:19 PM	1301439-003C	01/17/13 2:11 PM	01/23/13	01/25/13 12:29 PM
1301439-004C	01/17/13 3:25 PM	01/23/13	01/25/13 12:57 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.  
 $\% \text{ Recovery} = 100 * (\text{MS-Sample}) / (\text{Amount Spiked}); \text{RPD} = 100 * (\text{MS} - \text{MSD}) / ((\text{MS} + \text{MSD}) / 2).$   
 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.  
 Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.



**QC SUMMARY REPORT FOR SW8021B/8015Bm**

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 74182

WorkOrder: 1301439

EPA Method: SW8021B/8015Bm		Extraction: SW5030B					Spiked Sample ID: 1301440-002B			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS	
TPH(btex) £	6400	60	NR	NR	NR	102	N/A	N/A	70 - 130	
MTBE	2000	10	NR	NR	NR	90.3	N/A	N/A	70 - 130	
Benzene	350	10	NR	NR	NR	96	N/A	N/A	70 - 130	
Toluene	2000	10	NR	NR	NR	95.5	N/A	N/A	70 - 130	
Ethylbenzene	500	10	NR	NR	NR	94.4	N/A	N/A	70 - 130	
Xylenes	2700	30	NR	NR	NR	94.1	N/A	N/A	70 - 130	
%SS:	103	10	NR	NR	NR	99	N/A	N/A	70 - 130	

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

BATCH 74182 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1301439-001B	01/17/13 9:30 AM	01/23/13	01/23/13 3:45 AM	1301439-002B	01/17/13 11:49 AM	01/23/13	01/23/13 11:11 PM
1301439-003B	01/17/13 2:11 PM	01/23/13	01/23/13 6:12 AM	1301439-004B	01/17/13 3:25 PM	01/23/13	01/23/13 4:14 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.  
 £ 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, or inconsistency in sample containers.



**QC SUMMARY REPORT FOR SW8015B**

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 74125

WorkOrder: 1301439

EPA Method: SW8015B		Extraction: SW3510C/3630C					Spiked Sample ID: N/A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS	
TPH-Diesel (C10-C23)	N/A	1000	N/A	N/A	N/A	110	N/A	N/A	70 - 130	
%SS:	N/A	625	N/A	N/A	N/A	102	N/A	N/A	70 - 130	

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

BATCH 74125 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1301439-001B	01/17/13 9:30 AM	01/18/13	01/23/13 1:44 AM	1301439-002B	01/17/13 11:49 AM	01/18/13	01/23/13 3:47 PM
1301439-003B	01/17/13 2:11 PM	01/18/13	01/23/13 8:21 PM	1301439-004B	01/17/13 3:25 PM	01/18/13	01/23/13 5:09 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.

DHS ELAP Certification 1644

 QA/QC Officer



## Analytical Report

All West Environmental, Inc  530 Howard Street, Ste.300  San Francisco, CA 94105	Client Project ID: #12071.23; Hollis	Date Sampled: 01/18/13
		Date Received: 01/18/13
	Client Contact: Leonard Niles	Date Reported: 01/28/13
	Client P.O.:	Date Completed: 01/25/13

**WorkOrder: 1301440**

January 28, 2013

Dear Leonard:

Enclosed within are:

- 1) The results of the **3** analyzed samples from your project: **#12071.23; Hollis**,
- 2) QC data for the above samples, and
- 3) A copy of the chain of custody.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McC Campbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius  
Laboratory Manager  
McC Campbell Analytical, Inc.

*The analytical results relate only to the items tested.*





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

# CHAIN-OF-CUSTODY RECORD

WorkOrder: 1301440

ClientCode: AWE

WaterTrax   
  WriteOn   
  EDF   
  Excel   
  EQuIS   
 Email   
 HardCopy   
 ThirdParty   
 J-flag

**Report to:**  
 Leonard Niles  
 All West Environmental, Inc  
 530 Howard Street, Ste.300  
 San Francisco, CA 94105  
 (415) 391-2510    FAX: (415) 391-2008

Email: Leonard@allwest1.com  
 cc:  
 PO:  
 ProjectNo: #12071.23; Hollis

**Bill to:**  
 Darlene Torio  
 All West Environmental, Inc  
 530 Howard Street, Ste.300  
 San Francisco, CA 94105  
 darlene@allwest1.com

**Requested TAT: 5 days**

**Date Received: 01/18/2013**

**Date Printed: 01/18/2013**

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	
1301440-001	B22	Water	1/18/2013 11:00	<input type="checkbox"/>	C	A	B										
1301440-002	B24	Water	1/18/2013 13:20	<input type="checkbox"/>	C	A	B										
1301440-003	B21	Water	1/18/2013 13:47	<input type="checkbox"/>		A	B										

**Test Legend:**

1	8270D-PNA_W	2	GAS8260_W	3	G-MBTEX_W	4		5	
6		7		8		9		10	
11		12							

The following SamplIDs: 001A, 001B, 002A, 002B, 003A, 003B contain testgroup.

**Prepared by: Zoraida Cortez**

**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.



### Sample Receipt Checklist

Client Name: **All West Environmental, Inc**

Date and Time Received: **1/18/2013 9:12:28 PM**

Project Name: **#12071.23; Hollis**

LogIn Reviewed by: **Zoraida Cortez**

WorkOrder N°: **1301440** Matrix: Water

Carrier: Rob Pringle (MAI Courier)

#### Chain of Custody (COC) Information

Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sample IDs noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Date and Time of collection noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sampler's name noted on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>

#### Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper containers/bottles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

#### Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature	Cooler Temp: 3°C		NA <input type="checkbox"/>
Water - VOA vials have zero headspace / no bubbles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input type="checkbox"/>
Sample labels checked for correct preservation?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Metal - pH acceptable upon receipt (pH<2)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Samples Received on Ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

(Ice Type: WET ICE )

\* NOTE: If the "No" box is checked, see comments below.

-----  
 Comments:



All West Environmental, Inc 530 Howard Street, Ste.300 San Francisco, CA 94105	Client Project ID: #12071.23; Hollis	Date Sampled: 01/18/13
		Date Received: 01/18/13
	Client Contact: Leonard Niles	Date Extracted: 01/25/13
	Client P.O.:	Date Analyzed: 01/25/13

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

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 1301440

Lab ID	1301440-001A
Client ID	B22
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<10,000	1000	10	tert-Amyl methyl ether (TAME)	ND<500	1000	0.5
Benzene	7700	1000	0.5	Bromobenzene	ND<500	1000	0.5
Bromochloromethane	ND<500	1000	0.5	Bromodichloromethane	ND<500	1000	0.5
Bromoform	ND<500	1000	0.5	Bromomethane	ND<500	1000	0.5
2-Butanone (MEK)	ND<2000	1000	2.0	t-Butyl alcohol (TBA)	ND<2000	1000	2.0
n-Butyl benzene	ND<500	1000	0.5	sec-Butyl benzene	ND<500	1000	0.5
tert-Butyl benzene	ND<500	1000	0.5	Carbon Disulfide	ND<500	1000	0.5
Carbon Tetrachloride	ND<500	1000	0.5	Chlorobenzene	ND<500	1000	0.5
Chloroethane	ND<500	1000	0.5	Chloroform	ND<500	1000	0.5
Chloromethane	ND<500	1000	0.5	2-Chlorotoluene	ND<500	1000	0.5
4-Chlorotoluene	ND<500	1000	0.5	Dibromochloromethane	ND<500	1000	0.5
1,2-Dibromo-3-chloropropane	ND<200	1000	0.2	1,2-Dibromoethane (EDB)	ND<500	1000	0.5
Dibromomethane	ND<500	1000	0.5	1,2-Dichlorobenzene	ND<500	1000	0.5
1,3-Dichlorobenzene	ND<500	1000	0.5	1,4-Dichlorobenzene	ND<500	1000	0.5
Dichlorodifluoromethane	ND<500	1000	0.5	1,1-Dichloroethane	ND<500	1000	0.5
1,2-Dichloroethane (1,2-DCA)	ND<500	1000	0.5	1,1-Dichloroethene	ND<500	1000	0.5
cis-1,2-Dichloroethene	ND<500	1000	0.5	trans-1,2-Dichloroethene	ND<500	1000	0.5
1,2-Dichloropropane	ND<500	1000	0.5	1,3-Dichloropropane	ND<500	1000	0.5
2,2-Dichloropropane	ND<500	1000	0.5	1,1-Dichloropropene	ND<500	1000	0.5
cis-1,3-Dichloropropene	ND<500	1000	0.5	trans-1,3-Dichloropropene	ND<500	1000	0.5
Diisopropyl ether (DIPE)	ND<500	1000	0.5	Ethylbenzene	3500	1000	0.5
Ethyl tert-butyl ether (ETBE)	ND<500	1000	0.5	Freon 113	ND<10,000	1000	10
Hexachlorobutadiene	ND<500	1000	0.5	Hexachloroethane	ND<500	1000	0.5
2-Hexanone	ND<500	1000	0.5	Isopropylbenzene	ND<500	1000	0.5
4-Isopropyl toluene	ND<500	1000	0.5	Methyl-t-butyl ether (MTBE)	8100	1000	0.5
Methylene chloride	ND<500	1000	0.5	4-Methyl-2-pentanone (MIBK)	ND<500	1000	0.5
Naphthalene	910	1000	0.5	n-Propyl benzene	ND<500	1000	0.5
Styrene	ND<500	1000	0.5	1,1,1,2-Tetrachloroethane	ND<500	1000	0.5
1,1,2,2-Tetrachloroethane	ND<500	1000	0.5	Tetrachloroethene	ND<500	1000	0.5
Toluene	26,000	1000	0.5	1,2,3-Trichlorobenzene	ND<500	1000	0.5
1,2,4-Trichlorobenzene	ND<500	1000	0.5	1,1,1-Trichloroethane	ND<500	1000	0.5
1,1,2-Trichloroethane	ND<500	1000	0.5	Trichloroethene	ND<500	1000	0.5
Trichlorofluoromethane	ND<500	1000	0.5	1,2,3-Trichloropropane	ND<500	1000	0.5
1,2,4-Trimethylbenzene	2300	1000	0.5	1,3,5-Trimethylbenzene	590	1000	0.5
Vinyl Chloride	ND<500	1000	0.5	Xylenes, Total	21,000	1000	0.5

**Surrogate Recoveries (%)**

%SS1:	119	%SS2:	121
%SS3:	104		

**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/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

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





Table with client information: All West Environmental, Inc, Client Project ID: #12071.23; Hollis, Date Sampled: 01/18/13, Date Received: 01/18/13, Client Contact: Leonard Niles, Date Extracted: 01/24/13, San Francisco, CA 94105, Client P.O., Date Analyzed: 01/24/13

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

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 1301440

Table with Lab ID: 1301440-002A, Client ID: B24, Matrix: Water

Main data table with columns: Compound, Concentration \*, DF, Reporting Limit, Compound, Concentration \*, DF, Reporting Limit. Lists various organic compounds and their detection results.

Surrogate Recoveries (%)

Table showing surrogate recoveries: %SS1: 120, %SS2: 120, %SS3: 104

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/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor
# surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.



All West Environmental, Inc 530 Howard Street, Ste.300 San Francisco, CA 94105	Client Project ID: #12071.23; Hollis	Date Sampled: 01/18/13
		Date Received: 01/18/13
	Client Contact: Leonard Niles	Date Extracted: 01/25/13
	Client P.O.:	Date Analyzed: 01/25/13

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

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 1301440

Lab ID	1301440-003A
Client ID	B21
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<50,000	5000	10	tert-Amyl methyl ether (TAME)	ND<2500	5000	0.5
Benzene	ND<2500	5000	0.5	Bromobenzene	ND<2500	5000	0.5
Bromochloromethane	ND<2500	5000	0.5	Bromodichloromethane	ND<2500	5000	0.5
Bromoform	ND<2500	5000	0.5	Bromomethane	ND<2500	5000	0.5
2-Butanone (MEK)	ND<10,000	5000	2.0	t-Butyl alcohol (TBA)	ND<10,000	5000	2.0
n-Butyl benzene	ND<2500	5000	0.5	sec-Butyl benzene	ND<2500	5000	0.5
tert-Butyl benzene	ND<2500	5000	0.5	Carbon Disulfide	ND<2500	5000	0.5
Carbon Tetrachloride	ND<2500	5000	0.5	Chlorobenzene	ND<2500	5000	0.5
Chloroethane	ND<2500	5000	0.5	Chloroform	ND<2500	5000	0.5
Chloromethane	ND<2500	5000	0.5	2-Chlorotoluene	ND<2500	5000	0.5
4-Chlorotoluene	ND<2500	5000	0.5	Dibromochloromethane	ND<2500	5000	0.5
1,2-Dibromo-3-chloropropane	ND<1000	5000	0.2	1,2-Dibromoethane (EDB)	ND<2500	5000	0.5
Dibromomethane	ND<2500	5000	0.5	1,2-Dichlorobenzene	ND<2500	5000	0.5
1,3-Dichlorobenzene	ND<2500	5000	0.5	1,4-Dichlorobenzene	ND<2500	5000	0.5
Dichlorodifluoromethane	ND<2500	5000	0.5	1,1-Dichloroethane	ND<2500	5000	0.5
1,2-Dichloroethane (1,2-DCA)	ND<2500	5000	0.5	1,1-Dichloroethene	ND<2500	5000	0.5
cis-1,2-Dichloroethene	ND<2500	5000	0.5	trans-1,2-Dichloroethene	ND<2500	5000	0.5
1,2-Dichloropropane	ND<2500	5000	0.5	1,3-Dichloropropane	ND<2500	5000	0.5
2,2-Dichloropropane	ND<2500	5000	0.5	1,1-Dichloropropene	ND<2500	5000	0.5
cis-1,3-Dichloropropene	ND<2500	5000	0.5	trans-1,3-Dichloropropene	ND<2500	5000	0.5
Diisopropyl ether (DIPE)	ND<2500	5000	0.5	Ethylbenzene	ND<2500	5000	0.5
Ethyl tert-butyl ether (ETBE)	ND<2500	5000	0.5	Freon 113	ND<50,000	5000	10
Hexachlorobutadiene	ND<2500	5000	0.5	Hexachloroethane	ND<2500	5000	0.5
2-Hexanone	ND<2500	5000	0.5	Isopropylbenzene	ND<2500	5000	0.5
4-Isopropyl toluene	ND<2500	5000	0.5	Methyl-t-butyl ether (MTBE)	140,000	5000	0.5
Methylene chloride	ND<2500	5000	0.5	4-Methyl-2-pentanone (MIBK)	ND<2500	5000	0.5
Naphthalene	ND<2500	5000	0.5	n-Propyl benzene	ND<2500	5000	0.5
Styrene	ND<2500	5000	0.5	1,1,1,2-Tetrachloroethane	ND<2500	5000	0.5
1,1,2,2-Tetrachloroethane	ND<2500	5000	0.5	Tetrachloroethene	ND<2500	5000	0.5
Toluene	6100	5000	0.5	1,2,3-Trichlorobenzene	ND<2500	5000	0.5
1,2,4-Trichlorobenzene	ND<2500	5000	0.5	1,1,1-Trichloroethane	ND<2500	5000	0.5
1,1,2-Trichloroethane	ND<2500	5000	0.5	Trichloroethene	ND<2500	5000	0.5
Trichlorofluoromethane	ND<2500	5000	0.5	1,2,3-Trichloropropane	ND<2500	5000	0.5
1,2,4-Trimethylbenzene	ND<2500	5000	0.5	1,3,5-Trimethylbenzene	ND<2500	5000	0.5
Vinyl Chloride	ND<2500	5000	0.5	Xylenes, Total	6200	5000	0.5

**Surrogate Recoveries (%)**

%SS1:	121	%SS2:	118
%SS3:	106		

**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/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

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



**McC Campbell Analytical, Inc.**

*"When Quality Counts"*

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All West Environmental, Inc  
530 Howard Street, Ste.300  
San Francisco, CA 94105

Client Project ID: #12071.23; Hollis

Date Sampled: 01/18/13

Date Received: 01/18/13

Client Contact: Leonard Niles

Date Extracted: 01/23/13

Client P.O.:

Date Analyzed: 01/25/13

**Polynuclear Aromatic Hydrocarbons (PAHs / PNAs) using SIM Mode by GC/MS**

Extraction Method: SW3510C

Analytical Method: SW8270C-SIM

Work Order: 1301440

Lab ID	1301440-001C	1301440-002C			Reporting Limit for DF =1	
Client ID	B22	B24				
Matrix	W	W				
DF	100	10				

Compound	Concentration			ug/kg	µg/L
Acenaphthene	ND<50	ND<5.0		NA	0.5
Acenaphthylene	ND<50	ND<5.0		NA	0.5
Anthracene	ND<50	ND<5.0		NA	0.5
Benzo (a) anthracene	ND<50	ND<5.0		NA	0.5
Benzo (b) fluoranthene	ND<50	ND<5.0		NA	0.5
Benzo (k) fluoranthene	ND<50	ND<5.0		NA	0.5
Benzo (g,h,i) perylene	ND<50	ND<5.0		NA	0.5
Benzo (a) pyrene	ND<50	ND<5.0		NA	0.5
Chrysene	ND<50	ND<5.0		NA	0.5
Dibenzo (a,h) anthracene	ND<50	ND<5.0		NA	0.5
Fluoranthene	ND<50	ND<5.0		NA	0.5
Fluorene	ND<50	ND<5.0		NA	0.5
Indeno (1,2,3-cd) pyrene	ND<50	ND<5.0		NA	0.5
1-Methylnaphthalene	280	20		NA	0.5
2-Methylnaphthalene	420	30		NA	0.5
Naphthalene	1300	80		NA	0.5
Phenanthrene	ND<50	ND<5.0		NA	0.5
Pyrene	ND<50	ND<5.0		NA	0.5

**Surrogate Recoveries (%)**

%SS1	---#	61		
%SS2	---#	---		

**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 at or above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

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



All West Environmental, Inc  530 Howard Street, Ste.300  San Francisco, CA 94105	Client Project ID: #12071.23; Hollis	Date Sampled: 01/18/13
		Date Received: 01/18/13
	Client Contact: Leonard Niles	Date Extracted 01/24/13-01/25/13
	Client P.O.:	Date Analyzed 01/24/13-01/25/13

**TPH(g) by Purge & Trap and GC/MS\***

Extraction method: SW5030B

Analytical methods: SW8260B

Work Order: 1301440

Lab ID	Client ID	Matrix	TPH(g)	DF	% SS	Comments
001A	B22	W	110,000	100	98	
002A	B24	W	17,000	100	102	
003A	B21	W	41,000	200	100	

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	µg/L
	S	NA	NA

\* 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/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

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



All West Environmental, Inc  530 Howard Street, Ste.300  San Francisco, CA 94105	Client Project ID: #12071.23; Hollis	Date Sampled: 01/18/13
		Date Received: 01/18/13
	Client Contact: Leonard Niles	Date Extracted 01/23/13
	Client P.O.:	Date Analyzed 01/23/13

**Mineral Spirits Range (C9-C12) Volatile Hydrocarbons as Mineral Spirits\***

Extraction method: SW5030B

Analytical methods: SW8015Bm

Work Order: 1301440

Lab ID	Client ID	Matrix	TPH(mineral spirits)	DF	% SS	Comments
001B	B22	W	17,000	200	101	d1
002B	B24	W	7600	100	103	d1
003B	B21	W	16,000	100	111	d1

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	µg/L
	S	NA	NA

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

# cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference. %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

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



All West Environmental, Inc  530 Howard Street, Ste.300  San Francisco, CA 94105	Client Project ID: #12071.23; Hollis	Date Sampled: 01/18/13
		Date Received: 01/18/13
	Client Contact: Leonard Niles	Date Extracted 01/18/13
	Client P.O.:	Date Analyzed 01/23/13

**Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up\***

Extraction method: SW3510C/3630C

Analytical methods: SW8015B

Work Order: 1301440

Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	DF	% SS	Comments
1301440-001B	B22	W	8800	1	103	e4
1301440-002B	B24	W	2700	1	101	e4
1301440-003B	B21	W	3900	1	100	e4

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	µg/L
	S	NA	NA

\* 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/matrix interference.

%SS = Percent Recovery of Surrogate Standard. DF = Dilution Factor

The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation:  
 e4) gasoline range compounds are significant.



**QC SUMMARY REPORT FOR SW8015B**

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 74125

WorkOrder: 1301440

EPA Method: SW8015B		Extraction: SW3510C/3630C					Spiked Sample ID: N/A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS	
TPH-Diesel (C10-C23)	N/A	1000	N/A	N/A	N/A	110	N/A	N/A	70 - 130	
%SS:	N/A	625	N/A	N/A	N/A	102	N/A	N/A	70 - 130	

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

BATCH 74125 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1301440-001B	01/18/13 11:00 AM	01/18/13	01/23/13 3:03 AM	1301440-002B	01/18/13 1:20 PM	01/18/13	01/23/13 4:01 AM
1301440-003B	01/18/13 1:47 PM	01/18/13	01/23/13 2:52 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.



**QC SUMMARY REPORT FOR SW8260B**

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 74174

WorkOrder: 1301440

EPA Method: SW8260B		Extraction: SW5030B					Spiked Sample ID: 1301444-008B			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS	
tert-Amyl methyl ether (TAME)	ND	10	116	118	2.02	117	70 - 130	20	70 - 130	
Benzene	1.9	10	89.6	90.8	1.14	102	70 - 130	20	70 - 130	
t-Butyl alcohol (TBA)	4.7	40	121	124	1.99	117	70 - 130	20	70 - 130	
Chlorobenzene	ND	10	97.6	97.2	0.444	99.4	70 - 130	20	70 - 130	
1,2-Dibromoethane (EDB)	ND	10	111	112	1.57	111	70 - 130	20	70 - 130	
1,2-Dichloroethane (1,2-DCA)	ND	10	92.2	98.5	6.67	105	70 - 130	20	70 - 130	
1,1-Dichloroethene	ND	10	101	102	0.505	110	70 - 130	20	70 - 130	
Diisopropyl ether (DIPE)	ND	10	89.6	93.1	3.81	121	70 - 130	20	70 - 130	
Ethyl tert-butyl ether (ETBE)	ND	10	99.6	103	3.38	114	70 - 130	20	70 - 130	
Methyl-t-butyl ether (MTBE)	ND	10	111	114	3.12	116	70 - 130	20	70 - 130	
Toluene	0.73	10	101	96.9	3.88	99.8	70 - 130	20	70 - 130	
Trichloroethene	ND	10	98.7	100	1.63	99.7	70 - 130	20	70 - 130	
%SS1:	100	25	97	101	3.61	101	70 - 130	20	70 - 130	
%SS2:	99	25	96	97	0.815	99	70 - 130	20	70 - 130	
%SS3:	107	2.5	109	106	2.59	98	70 - 130	20	70 - 130	

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

BATCH 74174 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1301440-001A	01/18/13 11:00 AM	01/25/13	01/25/13 12:36 AM	1301440-002A	01/18/13 1:20 PM	01/24/13	01/24/13 4:48 PM
1301440-003A	01/18/13 1:47 PM	01/25/13	01/25/13 1:15 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.  
 $\% \text{ Recovery} = 100 * (\text{MS-Sample}) / (\text{Amount Spiked}); \text{RPD} = 100 * (\text{MS} - \text{MSD}) / ((\text{MS} + \text{MSD}) / 2).$   
 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 or coelutes with another peak; &) low surrogate due to matrix interference.  
 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: Water

QC Matrix: Water

BatchID: 74187

WorkOrder: 1301440

EPA Method: SW8270C-SIM		Extraction: SW3510C					Spiked Sample ID: N/A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS	
Benzo (a) pyrene	N/A	10	N/A	N/A	N/A	59.8	N/A	N/A	30 - 130	
Chrysene	N/A	10	N/A	N/A	N/A	90.7	N/A	N/A	30 - 130	
1-Methylnaphthalene	N/A	10	N/A	N/A	N/A	92.9	N/A	N/A	30 - 130	
2-Methylnaphthalene	N/A	10	N/A	N/A	N/A	76	N/A	N/A	30 - 130	
Phenanthrene	N/A	10	N/A	N/A	N/A	90.8	N/A	N/A	30 - 130	
Pyrene	N/A	10	N/A	N/A	N/A	78.1	N/A	N/A	30 - 130	
%SS1:	N/A	25	N/A	N/A	N/A	76	N/A	N/A	30 - 130	
%SS2:	N/A	25	N/A	N/A	N/A	79	N/A	N/A	30 - 130	

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

BATCH 74187 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1301440-001C	01/18/13 11:00 AM	01/23/13	01/25/13 11:34 AM	1301440-002C	01/18/13 1:20 PM	01/23/13	01/25/13 12:01 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.  
 $\% \text{ Recovery} = 100 * (\text{MS-Sample}) / (\text{Amount Spiked}); \text{RPD} = 100 * (\text{MS} - \text{MSD}) / ((\text{MS} + \text{MSD}) / 2).$   
 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.  
 Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.



**QC SUMMARY REPORT FOR SW8021B/8015Bm**

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 74182

WorkOrder: 1301440

EPA Method: SW8021B/8015Bm		Extraction: SW5030B					Spiked Sample ID: 1301440-002B			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS	
TPH(btex) £	6400	60	NR	NR	NR	102	N/A	N/A	70 - 130	
MTBE	2000	10	NR	NR	NR	90.3	N/A	N/A	70 - 130	
Benzene	350	10	NR	NR	NR	96	N/A	N/A	70 - 130	
Toluene	2000	10	NR	NR	NR	95.5	N/A	N/A	70 - 130	
Ethylbenzene	500	10	NR	NR	NR	94.4	N/A	N/A	70 - 130	
Xylenes	2700	30	NR	NR	NR	94.1	N/A	N/A	70 - 130	
%SS:	103	10	NR	NR	NR	99	N/A	N/A	70 - 130	

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

BATCH 74182 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1301440-001B	01/18/13 11:00 AM	01/23/13	01/23/13 6:42 AM	1301440-002B	01/18/13 1:20 PM	01/23/13	01/23/13 8:10 AM
1301440-003B	01/18/13 1:47 PM	01/23/13	01/23/13 8:40 AM	1301440-003B	01/18/13 1:47 PM	01/23/13	01/23/13 11:41 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.  
 £ 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, or inconsistency in sample containers.