



CH2M Santa Ana
6 Hutton Centre Drive
Suite 700
Santa Ana, CA 92707
O +1 714 429 2000
F +1 714 429 2050
www.ch2m.com

Mr. Paul Cho
Regional Water Quality Control Board
Los Angeles Region
320 West 4th Street, Suite 200
Los Angeles, California 90013

December 16, 2015

Subject: Results of Additional Soil Sampling to Support Shallow Soil Closure
SFPP Norwalk Pump Station, Norwalk, California

Dear Mr. Cho,

This letter has been prepared by CH2M HILL Engineers, Inc. (CH2M) on behalf of SFPP, L.P. (SFPP), an operating partner of Kinder Morgan Energy Partners, L.P. (Kinder Morgan), to provide results on the collection and analysis of additional shallow soil samples at the SFPP Norwalk Pump Station to support shallow soil closure. The work was performed by CH2M in accordance with the *Response to Request for Additional Soil Sampling* (CH2M, 2015b) approved by the California Regional Water Quality Control Board, Los Angeles Region (RWQCB).

The Norwalk Pump Station is located within the Defense Fuel Support Point Norwalk, at 15306 Norwalk Boulevard, Norwalk, California. Figure 1 shows the location of the site.

Background

A request for No Further Action (NFA) in shallow soils (0 to 10 feet below ground surface [bgs]) was submitted to the RWQCB on March 25, 2014 (CH2M, 2014). The results of SFPP's 2012 Soil Boring Investigation (CH2M, 2012), which provided a thorough characterization of subsurface soil conditions, were presented with the NFA request. Data collected as part of the 2012 investigation consisted of volatile organic compounds (VOCs), total petroleum hydrocarbons (TPH), and other analytical results including metals for investigative-derived waste (IDW) profiling. The VOCs and TPH results showed that hydrocarbon impacts in soils are generally limited to the smear zone near the groundwater surface, which occurs deeper than 15 feet bgs.

Soil vapor data collected annually at the site are consistent with the results from the 2012 Soil Boring Investigation, which further supports shallow soil closure. Soil vapor samples are collected annually from a thorough network of 16 multidepth probes. Results of the 2014 annual soil vapor sampling event were presented to the RWQCB in a letter report dated February 24, 2015 (CH2M, 2015a). As cited in the report, detectable hydrocarbons were generally limited to depths greater than 15 feet bgs and were highest at the deepest sample depth of 22 feet bgs, just above the groundwater surface. All detectable hydrocarbons in soil vapor shallower than 15 feet bgs were below residential and commercial risk-based screening levels.

The 2015 annual soil vapor sampling event was completed on September 25, 2015; the results will be presented to the RWQCB under separate cover. In general, the 2015 soil vapor probe results were similar to the results reported in 2014.

RWQCB Request for Additional Soil Samples

During a teleconference meeting with Kinder Morgan on April 21, 2015, the RWQCB requested collection of additional soil samples to support the NFA request for shallow soils. The number, depth, and location of soil samples were left to Kinder Morgan's discretion; however, the RWQCB indicated that up to three sample locations would be sufficient, and analyses should include total metals, polycyclic aromatic hydrocarbons (PAHs), and polychlorinated biphenyls (PCBs). Kinder Morgan was given the option to use historical sample results to satisfy the RWQCB's request in lieu of collecting additional soil samples. Therefore, Kinder Morgan proposed to fulfill the request as follows:

- Use previous metals data collected from the 2012 Soil Boring Investigation to satisfy the RWQCB's request for metals data. These data are summarized in Table 1; the laboratory analytical report is provided in Attachment A. The initial purpose of the metals data was to assist with profiling the residual soil generated from direct-push drilling activities, which were used to facilitate the collection of discrete-depth soil samples. The composite sample included residual soil from each of the investigative borings, and therefore is representative of subsurface conditions at the site.
- Collect discrete-depth soil samples for PAHs and PCBs analysis since these data were not collected during previous investigations.

Details regarding the additional soil sampling activities and results are provided below.

Field Activities

On August 20, 2015, CH2M collected discrete-depth soil samples from two locations in the south-central area (SB-10 and SB-11) and one location in the southeastern area (SB-12), as shown on Figure 2.

- SB-10 is located south of the remediation pad and north of the Southern California Edison substation.
- SB-11 is located near legacy boring SB-6 south of the SFPP control room.
- SB-12 is located near legacy borings SB-8 and SB-9 in the southeastern 24-inch block valve area.

Soil samples were collected by hand auger methods to a maximum depth of 10 feet bgs. Discrete samples were collected at 5 feet and 10 feet bgs (or refusal depth) for laboratory analysis.

Pre-field Activities

CH2M performed the following field preparation activities, prior to commencement of the soil sampling:

- Updated the existing site-specific health and safety plan to incorporate the planned fieldwork.
- Marked the proposed boring locations.
- Notified Dig Alert. As required by Dig Alert, the borings were called-in and marked-out in white paint at least 2 business days prior to boring advancement.
- Performed an underground utility check using a private utility-locating subcontractor (Spectrum Geophysics).
- Coordinated with Kinder Morgan staff regarding potential conflicts with SFPP's pipelines.

Sampling Activities

CH2M used hand auger methods to collect soil samples for lithologic logging, field screening with a photoionization detector (PID), and laboratory analysis. The lithology was described by a CH2M engineer under the direction of a State of California Licensed Professional Geologist. Soil was described using visual manual procedures of ASTM International Method D2488, which are based on the Unified Soil Classification System for guidance. Color, moisture content, grain size, and other pertinent soil characteristics were recorded on the boring logs. Soil was screened in the field for the potential presence of VOCs using a PID. Copies of the boring logs are provided in Attachment B.

Discrete-depth soil samples were collected at each boring location (SB-10, SB-11, and SB-12) for field screening using a PID, and for laboratory analysis as follows:

- Soil samples were collected at 5 feet and 10 feet bgs at SB-10 and SB-12. At SB-11, soil samples were collected at 5 feet and 6 feet bgs; refusal was encountered at 6 feet bgs.
- For quality assurance/quality control purposes, one field duplicate soil sample was collected at the 5-foot depth at SB-10. In addition, one equipment blank (water sample) was collected at the end of the day.
- Samples were placed in an ice-chilled cooler and submitted under chain-of-custody protocol to Asset Laboratories, of Las Vegas, Nevada. Asset is certified under the California Environmental Laboratory Accreditation Program.

The soil samples (including field duplicate sample) and equipment blank sample were analyzed for:

- PAHs using U.S. Environmental Protection Agency (EPA) Method 8270 SIM
- PCBs using EPA Method 8082

Analytical Results

Table 1 presents a summary of metals data for composite soil collected from the 2012 Soil Boring Investigation (CH2M, 2012). The laboratory analytical report is provided in Attachment A. Metals data were compared with residential California Human Health Screening Levels (CHHSLs) and screening levels provided by the California Department of Toxic Substances Control (DTSC). For many metals, the CHHSL and DTSC screening level are identical or similar; in these cases, both values are useable for screening. Where there are differences between the two values, the DTSC value was used because DTSC screening levels are based on more current toxicity values than the CHHSLs. For many chemicals, DTSC has not developed screening levels. In those cases, EPA Regional Screening Levels (RSLs) for soil (based on residential land use) were used. As shown in Table 1, the metals concentrations are below all screening levels with the exception of arsenic. Arsenic was measured at a concentration of 5.4 milligrams per kilogram (mg/kg) and is considered to be representative of background soil concentrations. As noted in DTSC (2015), the screening level in soil for arsenic (0.067 mg/kg) is well below naturally occurring background levels in soil. An upper-bound estimate of the background concentration of arsenic in soil in Southern California is estimated to be 12 mg/kg (DTSC, 2008).

Table 2 presents a summary of soil analytical results for samples collected at SB-10, SB-11, and SB-12. The laboratory analytical report is provided in Attachment C. RSLs based on residential and industrial land use were used for screening PAH and PCB soil data. The following is a brief discussion of the results.

PAHs

- At SB-10, PAHs were nondetect in the 5-foot bgs primary sample; however, there were several low-level detections in the field duplicate sample. The maximum PAH detection in the field duplicate sample was 140 micrograms per kilogram ($\mu\text{g}/\text{kg}$) for fluoranthene. In the 10-foot bgs sample, all

PAHs were nondetect except for J-flagged (estimated) detections of fluoranthene (1.3J $\mu\text{g}/\text{kg}$) and pyrene (1.3J $\mu\text{g}/\text{kg}$). All detections at SB-10 were below EPA RSLs under residential and industrial scenarios.

- At SB-11, several PAHs in the 5-foot and 6-foot bgs samples were detected at concentrations above residential or industrial RSLs. Analytes that exceeded either the residential or industrial RSL included benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, and indeno(1,2,3-cd)pyrene. The source of PAHs is suspected to be asphalt debris that was observed to be present at the surface and within the borehole during hand augering activities. Asphalt is a common source of PAHs in the environment. Refusal was encountered at 6 feet bgs; therefore, a 10-foot bgs sample could not be collected.
- At SB-12, PAHs were nondetect, with the exception of two J-flagged detections in the 5-foot bgs sample. These included fluoranthene (1.3J $\mu\text{g}/\text{kg}$) and pyrene (1.3J $\mu\text{g}/\text{kg}$). Both detections are below residential and industrial RSLs. PAHs were nondetect in the 10-foot bgs sample.

PCBs

- PCBs were nondetect in all borings with the exception of two J-flagged detections in the 6-foot sample at SB-11. These included Aroclor 1254 (5.9J $\mu\text{g}/\text{kg}$) and Aroclor 1260 (7.5J $\mu\text{g}/\text{kg}$). Both detections are below residential and industrial RSLs.

Equipment Blank

All PAHs and PCBs were nondetect in the equipment blank sample.

Boring Destruction and Survey

After lithologic logging and soil sampling was complete, each soil boring was destroyed by backfilling with bentonite chips and hydrated in place. The locations of the borings were then surveyed by CH2M staff using a hand-held global positioning system (GPS) unit.

Investigation-Derived Waste Management

Equipment wash and rinse water were contained in 5-gallon buckets then transferred to the groundwater treatment system (GWTS) containment pad sump for treatment and discharge.

Soil cuttings were contained in a 55-gallon drum and temporarily staged at the GWTS containment pad. On October 2, 2015, the soil was hauled offsite by Environmental Logistics, Inc., and transported to Filter Recycling Services, Inc., of Bloomington, California, for nonhazardous disposal. A copy of the nonhazardous waste manifest is provided in Attachment D.

Recommendations

Kinder Morgan recommends that the RWQCB proceed with issuing shallow soil closure for SFPP's remediation areas. The elevated concentrations of PAHs at SB-11 are likely a result of asphalt debris that is present in the subsurface (near the pipeline manifold in the south-central area). This area will eventually be excavated by Kinder Morgan during demolition of the pipeline manifold infrastructure to facilitate conveyance of the property to the City of Norwalk. Additional confirmation samples will be collected by Kinder Morgan after excavation and demolition activities are complete.

If you have any questions regarding this letter report, please contact Mr. Dan Jablonski of CH2M at (213) 228-8271 or Mr. Steve Defibaugh of Kinder Morgan at (714) 560-4802.

Regards,
CH2M HILL Engineers, Inc.



Dan Jablonski
Project Manager

Attachments:

References

Table 1 – IDW Soil Metals Results, 2012 Soil Boring Investigation

Table 2 – Summary of Soil Analytical Results – PAHs and PCBs

Figure 1 – Site Location Map

Figure 2 – Soil Boring Locations

Attachment A – IDW Laboratory Analytical Report, 2012 Soil Boring Investigation

Attachment B – Soil Boring Logs

Attachment C – Laboratory Analytical Report, 2015 Soil Boring Investigation

Attachment D – Nonhazardous Waste Manifest

Distribution:

- Steve Defibaugh, Kinder Morgan Energy Partners, L.P.
- Eugene N. Garcia, Ph.D.
- Minxia Dong, Norwalk Public Library
- Mary Jane McIntosh, RAB Co-Chair (electronic only)
- Tracy Winkler, RAB (electronic only)
- Adriana Figueroa, City of Norwalk (electronic only)
- Neil F. Irish, P.G., The Source Group, Inc. (electronic only)
- Molly Black, The Source Group, Inc. (electronic only)
- Daniel Swensson, The Source Group, Inc. (electronic only)
- Norman Dupont, Esq., Richards, Watson, Gershon (electronic only)
- Charles Emig, City of Cerritos (electronic only)
- Gary Lynch, Park Water Co. (electronic only)
- Everett Ferguson, Water Replenishment District of Southern California (electronic only)
- Brian Partington, Water Replenishment District of Southern California (electronic only)
- Stuart Strum, Defense Logistics Agency Energy (electronic only)
- Nicholas Carros, DLA Installation Support (electronic only)
- Dan Jablonski, CH2M (electronic only)
- Mark Wuttig, CH2M (electronic only)

References

California Department of Toxic Substances Control (DTSC). 2008. Determination of a Southern California Regional Background Arsenic Concentration in Soil. March. Available at: <https://www.dtsc.ca.gov/upload/Background-Arsenic.pdf>.

California Department of Toxic Substances Control (DTSC). 2015. Human Health Risk Assessment Note 3, September 2015, linked from this page: <https://www.dtsc.ca.gov/assessingrisk/humanrisk2.cfm>.

CH2M HILL (CH2M). 2012. *Results of Soil Boring Investigation, SFPP Norwalk Pump Station, 15306 Norwalk Boulevard, Norwalk, California*. December 5.

CH2M HILL (CH2M). 2014. *Request for No Further Action – Shallow Soil, SFPP Norwalk Pump Station, 15306 Norwalk Boulevard, Norwalk, California*. March 25.

CH2M HILL (CH2M). 2015a. *Results of October 2014 Soil Vapor Monitoring at the South-Central and Southeastern Offsite Areas of the SFPP Norwalk Pump Station*. February 24.

CH2M HILL (CH2M). 2015b. *Response to Request for Additional Soil Sampling to Support Shallow Soil Closure, SFPP Norwalk Pump Station, Norwalk, California*. May 22.

U.S. Environmental Protection Agency (EPA). 2015. EPA Region 9 Website, RSL Table (June 2015 Update). Available at: <http://www3.epa.gov/region09/superfund/prg/>

Tables

Table 1. IDW Soil Metals Results, 2012 Soil Boring Investigation

SFPP Norwalk Pump Station, Norwalk, California

Analyte	Result	MDL	RL	CHHSL ^a	DTSC Screening Levels ^b	EPA RSLs ^c	Comments
Antimony	ND	0.17	2.1	30	---	31	---
Arsenic	5.4	0.16	1.0	0.07	0.067	0.68	Detected result is consistent with background levels in soil; EPA and DTSC use different toxicity values for arsenic (which is the reason for the ~10-fold higher screening level from EPA).
Barium	75	0.17	1.0	5,200	---	15,000	Screening levels have been updated since publication of the CHHSLs.
Beryllium	ND	0.15	1.0	16	15	160	Screening levels have been updated since publication of the CHHSLs.
Cadmium	0.38 J	0.16	1.0	1.7	5.2	71	Screening levels have been updated since publication of the CHHSLs.
Chromium	13	0.17	1.0	100,000	36,000	120,000	DTSC uses additional exposure pathways than EPA to obtain the lower screening level.
Cobalt	5.9	0.17	1.0	660	---	23	Screening levels have been updated since publication of the CHHSLs.
Copper	13	0.15	2.1	3,000	---	3,100	---
Lead	5.5	0.14	1.0	80	---	400	DTSC uses different methods than EPA for assessing lead risks in soil.
Mercury	ND	0.03	0.1	18	---	23	Screening levels have been updated since publication of the CHHSLs.
Molybdenum	ND	0.16	1.0	380	---	390	Screening levels have been updated since publication of the CHHSLs.
Nickel	10	0.17	1.0	1,600	490	1,500	DTSC uses additional exposure pathways than EPA to obtain the lower screening level.
Selenium	ND	0.29	1.0	380	---	390	---
Silver	ND	0.15	1.0	380	---	390	---
Thallium	ND	0.15	2.1	5	---	0.78	---
Vanadium	24	0.17	1.0	530	---	390	---
Zinc	39	0.16	1.0	23,000	---	23,000	---

Notes:

^a Office of Environmental Health Hazard Assessment (OEHHA), 2010. <http://oehha.ca.gov/risk/soil.html>. CHHSLs generally are used for all chemicals, except when they have been superseded as discussed below.

^b Department of Toxic Substances Control (DTSC), 2015. <https://www.dtsc.ca.gov/AssessingRisk/upload/HHRA-Note-3-2015-09.pdf>. DTSC screening levels for some chemicals are more current than CHHSLs.

If no value is available, DTSC recommends using Regional Screening Levels (RSLs).

^c Per EPA Region 9 Web site, RSL Table (June 2015 Update) <http://www3.epa.gov/region09/superfund/prg/>

Results are expressed in milligrams per liter (mg/L)

5.4 Analyte concentration detected above CHHSL and DTSC screening level.

Sample collected on September 27, 2012.

Soil sample is composite sample from soil borings SB-1 to SB-9.

From 2012 Soil Boring Investigation (CH2M HILL, 2012. *Results of Soil Boring Investigation, SFPP Norwalk Pump Station, 15306 Norwalk Boulevard, Norwalk, California. December 5).*

Results have been compared to CHHSLs (OEHHA, 2010)¹, screening levels recommended by DTSC (DTSC, 2015)² and EPA (EPA, 2015)³ based on residential land use.

--- no value is available.

CHHSL - California Human Health Screening Level

DTSC - California Department of Toxic Substances Control

EPA - U.S. Environmental Protection Agency

EPA RSLs - U.S. Environmental Protection Agency Region 9 Regional Screening Levels for Residential Soils

IDW - investigation-derived waste

J - estimated, result is above laboratory minimum detection limit but below laboratory reporting limit

MDL - laboratory minimum detection limit

mg/kg - milligrams per kilogram (dry weight)

ND - not detected above the laboratory minimum detection limit

RL - laboratory reporting limit

RSL - Regional Screening Level

Table 2. Summary of Soil Analytical Results - PAHs and PCBs

SFPP Norwalk Pump Station, Norwalk, California

Boring Location	Sample Date	Sample ID	Sample Depth Interval (feet bgs)	PAHs (EPA Method 8270 SIM)																	PCBs (EPA Method 8082)							
				1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
SB-10	8/20/2015	SB-10-5'_082015	4.5-5	<1	<1.7	<0.51	<0.51	<0.51	<0.51	<0.56	<0.56	<0.51	<0.72	<0.51	<0.4	<0.79	<0.6	<0.6	<1.2	<0.72	<0.6	<5	<5.4	<11	<8.1	<2.8	<4.9	<3.2
	8/20/2015	SB-10-5'D_082015	5-5.5 (FD)	<1	<1.7	4.0J	<0.51	19	55	27	40	6.3	14	49	<0.4	140	2.3J	5.7	<1.2	76	130	<5	<5.4	<11	<8.1	<2.8	<5	<3.2
	8/20/2015	SB-10-10'_082015	9.5-10	<1	<1.7	<0.51	<0.51	<0.51	<0.51	<0.56	<0.56	<0.51	<0.72	<0.51	<0.4	1.3J	<0.6	<0.6	<1.2	<0.72	1.3J	<5	<5.4	<11	<8.1	<2.8	<4.9	<3.2
SB-11	8/20/2015	SB-11-5'_082015	4.5-5	240	420	480	33	2,000	4,900	4,700	5,400	2,200	2,000	5,000	<20	9,000	350	2,100	380	8,000	9,400	<5	<5.4	<11	<8.1	<2.8	<5	<3.2
	8/20/2015	SB-11-6'_082015	5.5-6	80	140	150	7.7	700	4,100	2,900	4,300	900	1,200	3,700	<40	6,100	110	830	91	2,600	9,200	<5	<5.4	<11	<8.1	<2.8	5.9J	7.5J
SB-12	8/20/2015	SB-12-5'_082015	4.5-5	<1	<1.7	<0.51	<0.51	<0.51	<0.51	<0.56	<0.56	<0.51	<0.72	<0.51	<0.4	1.3J	<0.6	<0.6	<1.2	<0.72	1.3J	<5	<5.4	<11	<8.1	<2.8	<4.9	<3.2
	8/20/2015	SB-12-10'_082015	9.5-10	<1	<1.7	<0.51	<0.51	<0.51	<0.51	<0.56	<0.56	<0.51	<0.72	<0.51	<0.4	<0.79	<0.6	<0.6	<1.2	<0.72	<0.6	<5	<5.4	<11	<8.1	<2.8	<4.9	<3.2
		EPA RSLs^a	Residential	18,000	240,000	3,600,000	---	18,000,000	160	16	160	---	1,600	16,000	16	2,400,000	2,400,000	160	3,800	---	1,800,000	4,100	170	170	230	230	240	240
			Industrial	73,000	3,000,000	45,000,000	---	230,000,000	2,900	290	2,900	---	29,000	290,000	290	30,000,000	30,000,000	2,900	17,000	---	23,000,000	27,000	720	720	970	940	970	990

Notes:

^a EPA Region 9 Regional Screening Levels for Residential and Industrial Soils. Per EPA Region 9 Web site, RSL Table (June 2015 Update) <http://www3.epa.gov/region09/superfund/prg/>.

DTSC does not provide screening levels in soil for PAHs or PCBs (DTSC, 2015).

Results and PRGs are expressed in units of micrograms per kilogram (mg/kg).

240 Bold font represents data detected above the laboratory minimum detection limit.

4,900 Yellow highlight represents analyte concentration detected above residential or commercial EPA RSL.

<1 = not detected at or above the laboratory minimum detection limit shown.

--- = not available

bgs - below ground surface

DTSC - California Department of Toxic Substances Control

EPA - U.S. Environmental Protection Agency

FD - field duplicate

feet bgs - feet below ground surface

J - estimated; result detected above laboratory minimum detection limit but below laboratory reporting limit

PAH - polycyclic aromatic hydrocarbon

PCB - polychlorinated biphenyl

RSL - Regional Screening Level

Figures

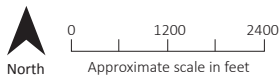
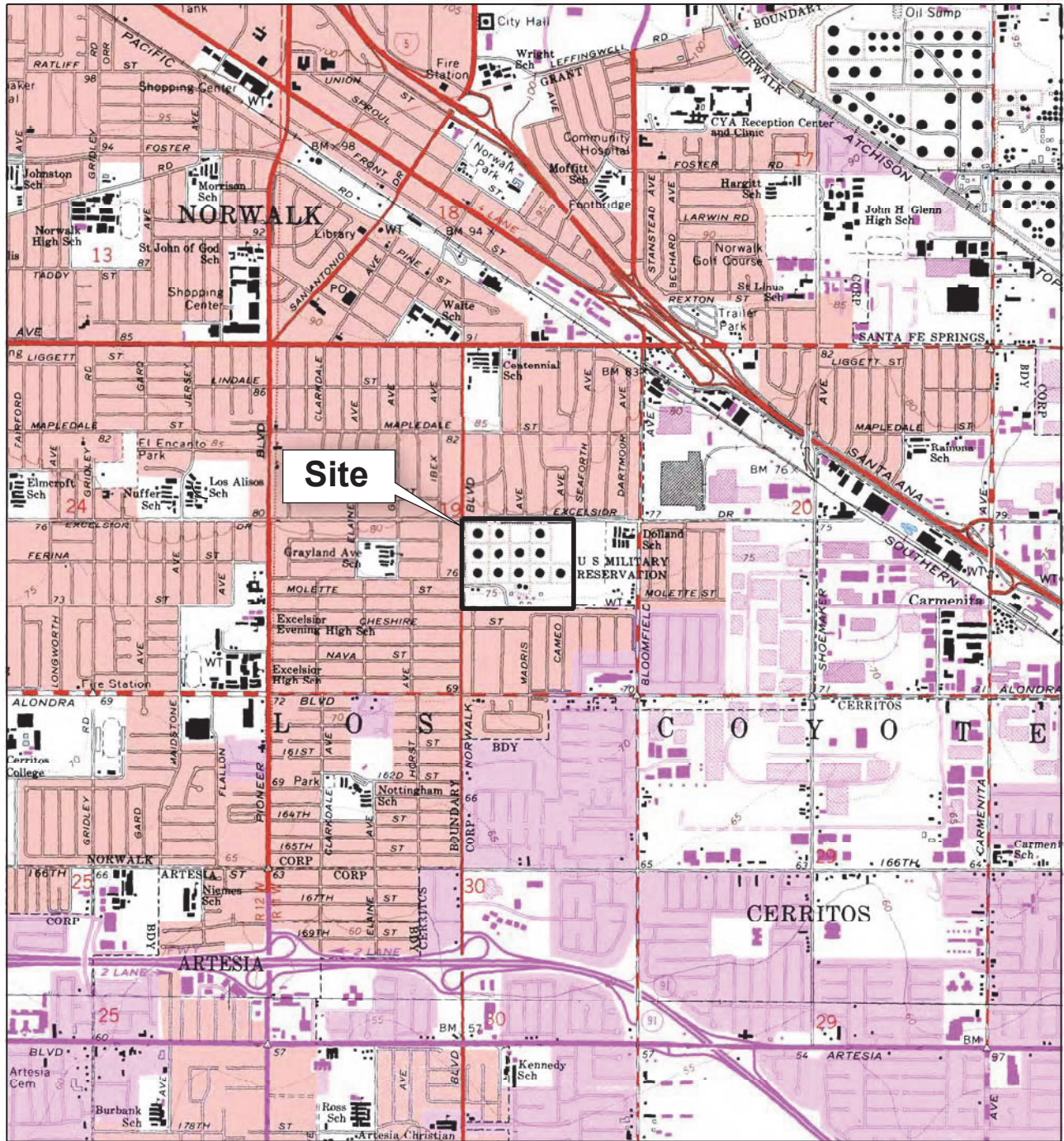
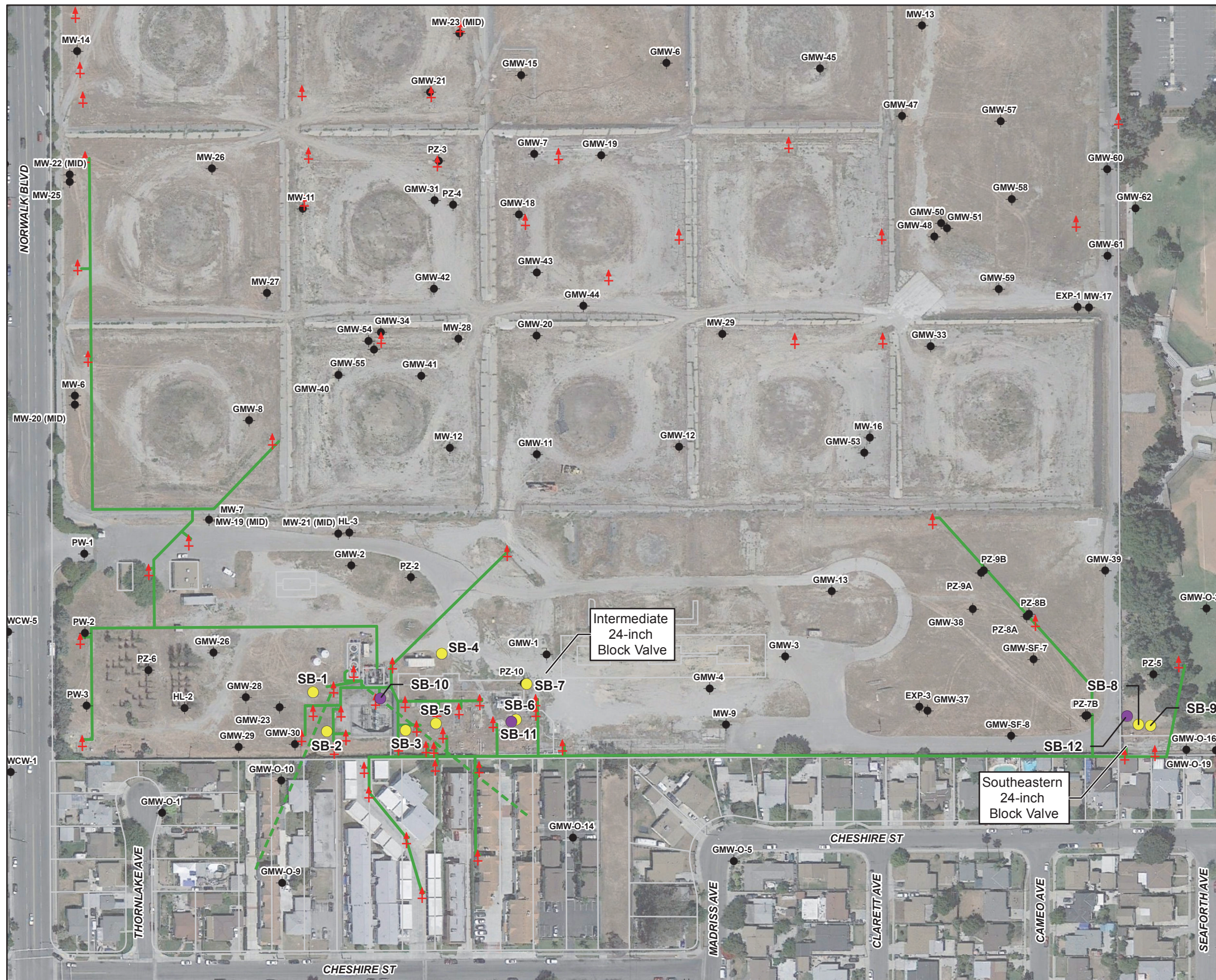


Figure 1
Site Location Map
SFP Norwalk Pump Station
Norwalk, California

BASEMAP MODIFIED FROM U.S.G.S. 7.5 MINUTE QUADRANGLE MAP
LOS ALAMITOS 1964, CALIFORNIA, PHOTO-REVISED 1981.
WHITTIER 1965, CALIFORNIA, PHOTO-REVISED 1981.





Legend

- 2012 Legacy Soil boring Location
- 2015 Soil Boring Location
- Existing Groundwater Monitoring Well
- ⊕ Existing Remediation Well
- KMEP Remediation Piping Layout (above ground and below ground)
- - - Horizontal Vapor Extraction Well Piping

Imagery Source:
Google Earth April 17, 2013.

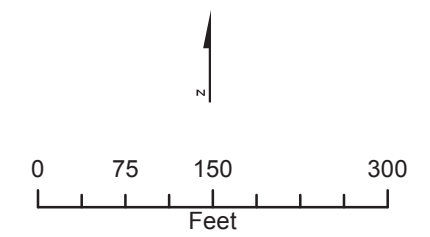


Figure 2
Soil Boring Locations
SFPP Norwalk Pump Station
Norwalk, California



Attachment A
IDW Laboratory Analytical Report
2012 Soil Boring Investigation

October 10, 2012

Daniel Jablonski
CH2M HILL
155 Grand Avenue, Suite 1000
Oakland, CA 94612

TEL: (213)228-8271
FAX: (510) 622-9129

CA-ELAP No.:2676
NV Cert. No.:NV-009222007A

Workorder No.: N008590

RE: Kinder Morgan - Norwalk

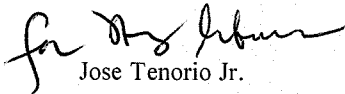
Attention: Daniel Jablonski

Enclosed are the results for sample(s) received on September 28, 2012 by Advanced Technology Laboratories, Inc. . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (702) 307-2659 if I can be of further assistance to your company.

Sincerely,



Jose Tenorio Jr.
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories - Las Vegas.



**Advanced Technology
Laboratories, Inc.**

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: CH2M HILL
Project: Kinder Morgan - Norwalk
Lab Order: N008590

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

Samples were received intact with proper chain of custody documentation.

Cooler temperature and sample preservation were verified upon receipt of samples if applicable.

Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.

Samples were analyzed within method holding time.

Results were J-Flag. "J" is used to flag those results that are between the PQL (Practical Quantitation Limit) and the calculated MDL (Method Detection Limit). Results that are "J" Flagged are estimated values since it becomes difficult to accurately quantitate the analyte near the MDL.

Subcontracted Analyses:

Ignitability was subcontracted to Associated Laboratories-Orange, CA .

Analytical Comments for EPA 6010B:

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria for some analytes possibly due to matrix interference. The associated Laboratory Control Sample (LCS) recovery was acceptable.

Analytical Comments for EPA 8015B_Jet Fuel:

Matrix Spike (MS) is outside recovery criteria possibly due to matrix interference. The associated Laboratory Control Sample (LCS) recovery was acceptable.

Analytical Comments for EPA 8270C:

Matrix Spike Duplicate (MSD) is outside recovery criteria for Benzoic acid possibly due to matrix interference. The associated Laboratory Control Sample (LCS) recovery was acceptable.



CLIENT: CH2M HILL
Project: Kinder Morgan - Norwalk
Lab Order: N008590
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N008590-001A	Soil IDW - MW	Soil	9/27/2012 11:45:00 AM	9/28/2012	10/10/2012
N008590-001B	Soil IDW - MW	Soil	9/27/2012 11:45:00 AM	9/28/2012	10/10/2012
N008590-001C	Soil IDW - MW	Soil	9/27/2012 11:45:00 AM	9/28/2012	10/10/2012
N008590-001D	Soil IDW - MW	Soil	9/27/2012 11:45:00 AM	9/28/2012	10/10/2012
N008590-002A	Soil IDW - SB	Soil	9/27/2012 12:00:00 PM	9/28/2012	10/10/2012
N008590-002B	Soil IDW - SB	Soil	9/27/2012 12:00:00 PM	9/28/2012	10/10/2012
N008590-002C	Soil IDW - SB	Soil	9/27/2012 12:00:00 PM	9/28/2012	10/10/2012
N008590-002D	Soil IDW - SB	Soil	9/27/2012 12:00:00 PM	9/28/2012	10/10/2012



CLIENT: CH2M HILL	Client Sample ID: Soil IDW - MW
Lab Order: N008590	Collection Date: 9/27/2012 11:45:00 AM
Project: Kinder Morgan - Norwalk	Matrix: SOIL
Lab ID: N008590-001	

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
----------	--------	-----	-----	------	-------	----	---------------

PERCENT MOISTURE

D2216

RunID: WETCHEM_120928C	QC Batch: R85747	PrepDate:	Analyst: KAB
Percent Moisture	18.59 0.1000 0.1000	wt%	1 9/28/2012

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS
EPA 3550B

EPA 8270C

RunID: MS4_121002B	QC Batch: 40838	PrepDate: 10/1/2012	Analyst: MDM
1,2,4-Trichlorobenzene	ND 52 410	ug/Kg-dry	1 10/2/2012 08:15 PM
1,2-Dichlorobenzene	ND 51 410	ug/Kg-dry	1 10/2/2012 08:15 PM
1,3-Dichlorobenzene	ND 61 410	ug/Kg-dry	1 10/2/2012 08:15 PM
1,4-Dichlorobenzene	ND 58 410	ug/Kg-dry	1 10/2/2012 08:15 PM
2,4,5-Trichlorophenol	ND 83 410	ug/Kg-dry	1 10/2/2012 08:15 PM
2,4,6-Trichlorophenol	ND 48 410	ug/Kg-dry	1 10/2/2012 08:15 PM
2,4-Dichlorophenol	ND 50 2000	ug/Kg-dry	1 10/2/2012 08:15 PM
2,4-Dimethylphenol	ND 110 410	ug/Kg-dry	1 10/2/2012 08:15 PM
2,4-Dinitrophenol	ND 50 2000	ug/Kg-dry	1 10/2/2012 08:15 PM
2,4-Dinitrotoluene	ND 54 410	ug/Kg-dry	1 10/2/2012 08:15 PM
2,6-Dinitrotoluene	ND 53 410	ug/Kg-dry	1 10/2/2012 08:15 PM
2-Chloronaphthalene	ND 55 410	ug/Kg-dry	1 10/2/2012 08:15 PM
2-Chlorophenol	ND 53 410	ug/Kg-dry	1 10/2/2012 08:15 PM
2-Methylnaphthalene	ND 49 410	ug/Kg-dry	1 10/2/2012 08:15 PM
2-Methylphenol	ND 59 410	ug/Kg-dry	1 10/2/2012 08:15 PM
2-Nitroaniline	ND 66 2000	ug/Kg-dry	1 10/2/2012 08:15 PM
2-Nitrophenol	ND 55 410	ug/Kg-dry	1 10/2/2012 08:15 PM
3,3'-Dichlorobenzidine	ND 53 810	ug/Kg-dry	1 10/2/2012 08:15 PM
3-Nitroaniline	ND 59 2000	ug/Kg-dry	1 10/2/2012 08:15 PM
4,6-Dinitro-2-methylphenol	ND 64 2000	ug/Kg-dry	1 10/2/2012 08:15 PM
4-Bromophenyl-phenylether	ND 99 410	ug/Kg-dry	1 10/2/2012 08:15 PM
4-Chloro-3-methylphenol	ND 50 810	ug/Kg-dry	1 10/2/2012 08:15 PM
4-Chloroaniline	ND 54 810	ug/Kg-dry	1 10/2/2012 08:15 PM
4-Chlorophenyl-phenylether	ND 75 410	ug/Kg-dry	1 10/2/2012 08:15 PM
4-Methylphenol	ND 44 410	ug/Kg-dry	1 10/2/2012 08:15 PM
4-Nitroaniline	ND 130 2000	ug/Kg-dry	1 10/2/2012 08:15 PM
4-Nitrophenol	ND 190 2000	ug/Kg-dry	1 10/2/2012 08:15 PM
Acenaphthene	ND 50 410	ug/Kg-dry	1 10/2/2012 08:15 PM
Acenaphthylene	ND 49 410	ug/Kg-dry	1 10/2/2012 08:15 PM
Anthracene	ND 82 410	ug/Kg-dry	1 10/2/2012 08:15 PM
Benzo(a)anthracene	ND 92 410	ug/Kg-dry	1 10/2/2012 08:15 PM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	S Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO Surrogate Diluted Out



CLIENT: CH2M HILL	Client Sample ID: Soil IDW - MW
Lab Order: N008590	Collection Date: 9/27/2012 11:45:00 AM
Project: Kinder Morgan - Norwalk	Matrix: SOIL
Lab ID: N008590-001	

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS							
	EPA 3550B			EPA 8270C			
RunID: MS4_121002B	QC Batch: 40838		PrepDate:	10/1/2012	Analyst: MDM		
Benzo(a)pyrene	ND	79	410		ug/Kg-dry	1	10/2/2012 08:15 PM
Benzo(b)fluoranthene	ND	58	410		ug/Kg-dry	1	10/2/2012 08:15 PM
Benzo(g,h,i)perylene	ND	70	410		ug/Kg-dry	1	10/2/2012 08:15 PM
Benzo(k)fluoranthene	ND	70	410		ug/Kg-dry	1	10/2/2012 08:15 PM
Benzoic acid	ND	180	2000		ug/Kg-dry	1	10/2/2012 08:15 PM
Benzyl alcohol	ND	83	810		ug/Kg-dry	1	10/2/2012 08:15 PM
Bis(2-chloroethoxy)methane	ND	79	410		ug/Kg-dry	1	10/2/2012 08:15 PM
Bis(2-chloroethyl)ether	ND	76	410		ug/Kg-dry	1	10/2/2012 08:15 PM
Bis(2-chloroisopropyl)ether	ND	70	410		ug/Kg-dry	1	10/2/2012 08:15 PM
Bis(2-ethylhexyl)phthalate	ND	99	410		ug/Kg-dry	1	10/2/2012 08:15 PM
Butylbenzylphthalate	ND	83	410		ug/Kg-dry	1	10/2/2012 08:15 PM
Chrysene	ND	98	410		ug/Kg-dry	1	10/2/2012 08:15 PM
Di-n-butylphthalate	ND	75	410		ug/Kg-dry	1	10/2/2012 08:15 PM
Di-n-octylphthalate	ND	63	410		ug/Kg-dry	1	10/2/2012 08:15 PM
Dibenz(a,h)anthracene	ND	110	410		ug/Kg-dry	1	10/2/2012 08:15 PM
Dibenzofuran	ND	50	410		ug/Kg-dry	1	10/2/2012 08:15 PM
Diethylphthalate	ND	60	410		ug/Kg-dry	1	10/2/2012 08:15 PM
Dimethylphthalate	ND	68	410		ug/Kg-dry	1	10/2/2012 08:15 PM
Fluoranthene	ND	86	410		ug/Kg-dry	1	10/2/2012 08:15 PM
Fluorene	ND	89	410		ug/Kg-dry	1	10/2/2012 08:15 PM
Hexachlorobenzene	ND	58	410		ug/Kg-dry	1	10/2/2012 08:15 PM
Hexachlorobutadiene	ND	74	810		ug/Kg-dry	1	10/2/2012 08:15 PM
Hexachloroethane	ND	58	410		ug/Kg-dry	1	10/2/2012 08:15 PM
Indeno(1,2,3-cd)pyrene	ND	81	410		ug/Kg-dry	1	10/2/2012 08:15 PM
Isophorone	ND	72	410		ug/Kg-dry	1	10/2/2012 08:15 PM
N-Nitrosodi-n-propylamine	ND	57	410		ug/Kg-dry	1	10/2/2012 08:15 PM
N-Nitrosodiphenylamine	ND	65	410		ug/Kg-dry	1	10/2/2012 08:15 PM
Naphthalene	ND	59	410		ug/Kg-dry	1	10/2/2012 08:15 PM
Nitrobenzene	ND	70	410		ug/Kg-dry	1	10/2/2012 08:15 PM
Pentachlorophenol	ND	42	2000		ug/Kg-dry	1	10/2/2012 08:15 PM
Phenanthrene	ND	100	410		ug/Kg-dry	1	10/2/2012 08:15 PM
Phenol	ND	46	410		ug/Kg-dry	1	10/2/2012 08:15 PM
Pyrene	ND	81	410		ug/Kg-dry	1	10/2/2012 08:15 PM
Surr: 1,2-Dichlorobenzene-d4	68.5	0	25-110		%REC	1	10/2/2012 08:15 PM
Surr: 2,4,6-Tribromophenol	82.1	0	36-126		%REC	1	10/2/2012 08:15 PM
Surr: 2-Chlorophenol-d4	75.6	0	30-100		%REC	1	10/2/2012 08:15 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
 H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit S Spike/Surrogate outside of limits due to matrix interference
 Results are wet unless otherwise specified DO Surrogate Diluted Out



CLIENT: CH2M HILL	Client Sample ID: Soil IDW - MW
Lab Order: N008590	Collection Date: 9/27/2012 11:45:00 AM
Project: Kinder Morgan - Norwalk	Matrix: SOIL
Lab ID: N008590-001	

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
----------	--------	-----	-----	------	-------	----	---------------

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 3550B

EPA 8270C

RunID: MS4_121002B	QC Batch: 40838	PrepDate: 10/1/2012	Analyst: MDM			
Surr: 2-Fluorobiphenyl	80.1	0	43-125	%REC	1	10/2/2012 08:15 PM
Surr: 2-Fluorophenol	75.3	0	37-125	%REC	1	10/2/2012 08:15 PM
Surr: 4-Terphenyl-d14	100	0	32-125	%REC	1	10/2/2012 08:15 PM
Surr: Nitrobenzene-d5	82.6	0	37-125	%REC	1	10/2/2012 08:15 PM
Surr: Phenol-d5	76.6	0	40-125	%REC	1	10/2/2012 08:15 PM

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS1_121001A	QC Batch: D12VS072	PrepDate:	Analyst: QBM			
1,1,1,2-Tetrachloroethane	ND	0.29	6.1	ug/Kg-dry	1	10/1/2012 04:58 PM
1,1,1-Trichloroethane	ND	0.39	6.1	ug/Kg-dry	1	10/1/2012 04:58 PM
1,1,1,2,2-Tetrachloroethane	ND	0.36	6.1	ug/Kg-dry	1	10/1/2012 04:58 PM
1,1,2-Trichloroethane	ND	0.54	6.1	ug/Kg-dry	1	10/1/2012 04:58 PM
1,1-Dichloroethane	ND	0.46	6.1	ug/Kg-dry	1	10/1/2012 04:58 PM
1,1-Dichloroethene	ND	0.93	6.1	ug/Kg-dry	1	10/1/2012 04:58 PM
1,1-Dichloropropene	ND	0.37	6.1	ug/Kg-dry	1	10/1/2012 04:58 PM
1,2,3-Trichlorobenzene	ND	0.42	6.1	ug/Kg-dry	1	10/1/2012 04:58 PM
1,2,3-Trichloropropane	ND	0.30	6.1	ug/Kg-dry	1	10/1/2012 04:58 PM
1,2,4-Trichlorobenzene	ND	0.50	6.1	ug/Kg-dry	1	10/1/2012 04:58 PM
1,2,4-Trimethylbenzene	ND	0.16	6.1	ug/Kg-dry	1	10/1/2012 04:58 PM
1,2-Dibromo-3-chloropropane	ND	1.1	6.1	ug/Kg-dry	1	10/1/2012 04:58 PM
1,2-Dibromoethane	ND	0.51	6.1	ug/Kg-dry	1	10/1/2012 04:58 PM
1,2-Dichlorobenzene	ND	0.23	6.1	ug/Kg-dry	1	10/1/2012 04:58 PM
1,2-Dichloroethane	ND	0.40	6.1	ug/Kg-dry	1	10/1/2012 04:58 PM
1,2-Dichloropropane	ND	0.55	6.1	ug/Kg-dry	1	10/1/2012 04:58 PM
1,3,5-Trimethylbenzene	ND	0.27	6.1	ug/Kg-dry	1	10/1/2012 04:58 PM
1,3-Dichlorobenzene	ND	0.34	6.1	ug/Kg-dry	1	10/1/2012 04:58 PM
1,3-Dichloropropane	ND	0.26	6.1	ug/Kg-dry	1	10/1/2012 04:58 PM
1,4-Dichlorobenzene	ND	0.21	6.1	ug/Kg-dry	1	10/1/2012 04:58 PM
2,2-Dichloropropane	ND	0.81	6.1	ug/Kg-dry	1	10/1/2012 04:58 PM
2-Butanone	ND	3.4	61	ug/Kg-dry	1	10/1/2012 04:58 PM
2-Chlorotoluene	ND	0.22	6.1	ug/Kg-dry	1	10/1/2012 04:58 PM
4-Chlorotoluene	ND	0.33	6.1	ug/Kg-dry	1	10/1/2012 04:58 PM
4-Isopropyltoluene	ND	0.23	6.1	ug/Kg-dry	1	10/1/2012 04:58 PM
4-Methyl-2-pentanone	ND	1.5	61	ug/Kg-dry	1	10/1/2012 04:58 PM
Acetone	ND	5.1	61	ug/Kg-dry	1	10/1/2012 04:58 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified

E Value above quantitation range
 J Analyte detected below quantitation limits
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out



**Advanced Technology
 Laboratories, Inc.**

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: CH2M HILL
Lab Order: N008590
Project: Kinder Morgan - Norwalk
Lab ID: N008590-001

Client Sample ID: Soil IDW - MW
Collection Date: 9/27/2012 11:45:00 AM
Matrix: SOIL

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
----------	--------	-----	-----	------	-------	----	---------------

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS1_121001A	QC Batch: D12VS072	PrepDate:	Analyst: QBM
Acrolein	ND 12	120	ug/Kg-dry 1 10/1/2012 04:58 PM
Acrylonitrile	ND 5.2	61	ug/Kg-dry 1 10/1/2012 04:58 PM
Benzene	ND 0.22	6.1	ug/Kg-dry 1 10/1/2012 04:58 PM
Bromobenzene	ND 0.38	6.1	ug/Kg-dry 1 10/1/2012 04:58 PM
Bromochloromethane	ND 0.38	6.1	ug/Kg-dry 1 10/1/2012 04:58 PM
Bromodichloromethane	ND 0.39	6.1	ug/Kg-dry 1 10/1/2012 04:58 PM
Bromoform	ND 0.46	6.1	ug/Kg-dry 1 10/1/2012 04:58 PM
Bromomethane	ND 1.1	6.1	ug/Kg-dry 1 10/1/2012 04:58 PM
Carbon disulfide	ND 0.42	6.1	ug/Kg-dry 1 10/1/2012 04:58 PM
Carbon tetrachloride	ND 0.29	6.1	ug/Kg-dry 1 10/1/2012 04:58 PM
Chlorobenzene	ND 0.23	6.1	ug/Kg-dry 1 10/1/2012 04:58 PM
Chloroethane	ND 0.55	6.1	ug/Kg-dry 1 10/1/2012 04:58 PM
Chloroform	ND 0.43	6.1	ug/Kg-dry 1 10/1/2012 04:58 PM
Chloromethane	ND 0.61	6.1	ug/Kg-dry 1 10/1/2012 04:58 PM
cis-1,2-Dichloroethene	ND 0.59	6.1	ug/Kg-dry 1 10/1/2012 04:58 PM
cis-1,3-Dichloropropene	ND 0.24	6.1	ug/Kg-dry 1 10/1/2012 04:58 PM
Di-isopropyl ether	ND 0.40	6.1	ug/Kg-dry 1 10/1/2012 04:58 PM
Dibromochloromethane	ND 0.46	6.1	ug/Kg-dry 1 10/1/2012 04:58 PM
Dibromomethane	ND 0.41	6.1	ug/Kg-dry 1 10/1/2012 04:58 PM
Dichlorodifluoromethane	ND 0.28	6.1	ug/Kg-dry 1 10/1/2012 04:58 PM
Ethyl Tert-butyl ether	ND 0.62	6.1	ug/Kg-dry 1 10/1/2012 04:58 PM
Ethylbenzene	ND 0.16	6.1	ug/Kg-dry 1 10/1/2012 04:58 PM
Freon-113	ND 1.5	6.1	ug/Kg-dry 1 10/1/2012 04:58 PM
Hexachlorobutadiene	ND 1.2	6.1	ug/Kg-dry 1 10/1/2012 04:58 PM
Isopropylbenzene	ND 0.38	6.1	ug/Kg-dry 1 10/1/2012 04:58 PM
m,p-Xylene	ND 0.24	6.1	ug/Kg-dry 1 10/1/2012 04:58 PM
Methylene chloride	4.9 1.7	6.1	J ug/Kg-dry 1 10/1/2012 04:58 PM
MTBE	ND 0.39	6.1	ug/Kg-dry 1 10/1/2012 04:58 PM
n-Butylbenzene	ND 0.26	6.1	ug/Kg-dry 1 10/1/2012 04:58 PM
n-Propylbenzene	ND 0.14	6.1	ug/Kg-dry 1 10/1/2012 04:58 PM
Naphthalene	ND 0.29	6.1	ug/Kg-dry 1 10/1/2012 04:58 PM
o-Xylene	ND 0.30	6.1	ug/Kg-dry 1 10/1/2012 04:58 PM
sec-Butylbenzene	ND 0.30	6.1	ug/Kg-dry 1 10/1/2012 04:58 PM
Styrene	ND 0.69	6.1	ug/Kg-dry 1 10/1/2012 04:58 PM
Tert-amyl methyl ether	ND 0.42	6.1	ug/Kg-dry 1 10/1/2012 04:58 PM
Tert-Butanol	ND 8.2	31	ug/Kg-dry 1 10/1/2012 04:58 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified

E Value above quantitation range
 J Analyte detected below quantitation limits
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out



CLIENT: CH2M HILL	Client Sample ID: Soil IDW - MW
Lab Order: N008590	Collection Date: 9/27/2012 11:45:00 AM
Project: Kinder Morgan - Norwalk	Matrix: SOIL
Lab ID: N008590-001	

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
----------	--------	-----	-----	------	-------	----	---------------

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS1_121001A	QC Batch: D12VS072	PrepDate:	Analyst: QBM
tert-Butylbenzene	ND 0.73	6.1	ug/Kg-dry 1 10/1/2012 04:58 PM
Tetrachloroethene	ND 0.29	6.1	ug/Kg-dry 1 10/1/2012 04:58 PM
Toluene	ND 0.17	6.1	ug/Kg-dry 1 10/1/2012 04:58 PM
trans-1,2-Dichloroethene	ND 0.71	6.1	ug/Kg-dry 1 10/1/2012 04:58 PM
trans-1,3-Dichloropropene	ND 0.28	6.1	ug/Kg-dry 1 10/1/2012 04:58 PM
Trichloroethene	ND 0.15	6.1	ug/Kg-dry 1 10/1/2012 04:58 PM
Trichlorofluoromethane	ND 0.80	6.1	ug/Kg-dry 1 10/1/2012 04:58 PM
Vinyl chloride	ND 0.44	6.1	ug/Kg-dry 1 10/1/2012 04:58 PM
Xylenes, Total	ND 6.1	6.1	ug/Kg-dry 1 10/1/2012 04:58 PM
Surr: 1,2-Dichloroethane-d4	83.6 0	52-149	%REC 1 10/1/2012 04:58 PM
Surr: 4-Bromofluorobenzene	94.2 0	65-135	%REC 1 10/1/2012 04:58 PM
Surr: Dibromofluoromethane	96.6 0	65-135	%REC 1 10/1/2012 04:58 PM
Surr: Toluene-d8	108 0	75-125	%REC 1 10/1/2012 04:58 PM

DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID

EPA 3550B

EPA 8015B

RunID: GC3_121003B	QC Batch: 40849	PrepDate: 10/2/2012	Analyst: MDM
TPH-Diesel	3.3 1.0	12	J mg/Kg-dry 1 10/3/2012 09:00 PM
Surr: Octacosane	99.2 0	25-162	%REC 1 10/3/2012 09:00 PM
Surr: p-Terphenyl	99.2 0	47-142	%REC 1 10/3/2012 09:00 PM

JET FUEL BY GC/FID

EPA 3550B

EPA 8015B

RunID: GC3_121008A	QC Batch: 40849	PrepDate: 10/2/2012	Analyst: MDM
Jet Fuel	ND 12	12	mg/Kg-dry 1 10/8/2012 11:28 AM
Surr: p-Terphenyl	102 0	56-116	%REC 1 10/8/2012 11:28 AM

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B

RunID: GC4_121002A	QC Batch: E12VS152	PrepDate:	Analyst: QBM
TPH-Gasoline	75 35	1200	J ug/Kg-dry 1 10/2/2012 01:03 PM
Surr: Chlorobenzene - d5	92.7 0	64-148	%REC 1 10/2/2012 01:03 PM

MERCURY BY COLD VAPOR TECHNIQUE

EPA 7471

EPA 7471A

RunID: AA1_121001A	QC Batch: 40829	PrepDate: 9/28/2012	Analyst: CEI
---------------------------	------------------------	----------------------------	---------------------

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	S Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO Surrogate Diluted Out



Advanced Technology
 Laboratories, Inc.

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: CH2M HILL	Client Sample ID: Soil IDW - MW
Lab Order: N008590	Collection Date: 9/27/2012 11:45:00 AM
Project: Kinder Morgan - Norwalk	Matrix: SOIL
Lab ID: N008590-001	

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
----------	--------	-----	-----	------	-------	----	---------------

MERCURY BY COLD VAPOR TECHNIQUE

EPA 7471

EPA 7471A

RunID: AA1_121001A	QC Batch: 40829	PrepDate: 9/28/2012	Analyst: CEI
Mercury	ND 0.035	0.12	mg/Kg-dry 1 10/1/2012

ICP METALS

EPA 3050B

EPA 6010B

RunID: ICP2_121001A	QC Batch: 40828	PrepDate: 9/28/2012	Analyst: JT
Antimony	ND 0.21	2.5	mg/Kg-dry 1 10/1/2012 10:07 AM
Arsenic	1.7 0.19	1.2	mg/Kg-dry 1 10/1/2012 10:07 AM
Barium	79 0.20	1.2	mg/Kg-dry 1 10/1/2012 10:07 AM
Beryllium	ND 0.18	1.2	mg/Kg-dry 1 10/1/2012 10:07 AM
Cadmium	ND 0.19	1.2	mg/Kg-dry 1 10/1/2012 10:07 AM
Chromium	11 0.20	1.2	mg/Kg-dry 1 10/1/2012 10:07 AM
Cobalt	4.9 0.20	1.2	mg/Kg-dry 1 10/1/2012 10:07 AM
Copper	8.1 0.18	2.5	mg/Kg-dry 1 10/1/2012 10:07 AM
Lead	1.8 0.17	1.2	mg/Kg-dry 1 10/1/2012 10:07 AM
Molybdenum	ND 0.19	1.2	mg/Kg-dry 1 10/1/2012 10:07 AM
Nickel	8.1 0.20	1.2	mg/Kg-dry 1 10/1/2012 10:07 AM
Selenium	ND 0.34	1.2	mg/Kg-dry 1 10/1/2012 10:07 AM
Silver	ND 0.18	1.2	mg/Kg-dry 1 10/1/2012 10:07 AM
Thallium	ND 0.17	2.5	mg/Kg-dry 1 10/1/2012 10:07 AM
Vanadium	20 0.20	1.2	mg/Kg-dry 1 10/1/2012 10:07 AM
Zinc	28 0.19	1.2	mg/Kg-dry 1 10/1/2012 10:07 AM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	S Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO Surrogate Diluted Out



CLIENT: CH2M HILL
Lab Order: N008590
Project: Kinder Morgan - Norwalk
Lab ID: N008590-002

Client Sample ID: Soil IDW - SB
Collection Date: 9/27/2012 12:00:00 PM
Matrix: SOIL

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
----------	--------	-----	-----	------	-------	----	---------------

PERCENT MOISTURE

D2216

RunID: **WETCHEM_120928C** QC Batch: **R85747** PrepDate: Analyst: **KAB**
 Percent Moisture 3.943 0.1000 0.1000 wt% 1 9/28/2012

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS
EPA 3550B

EPA 8270C

RunID: MS4_121002B	QC Batch: 40838	PrepDate: 10/1/2012	Analyst: MDM
1,2,4-Trichlorobenzene	ND 44	340	ug/Kg-dry 1 10/2/2012 08:44 PM
1,2-Dichlorobenzene	ND 43	340	ug/Kg-dry 1 10/2/2012 08:44 PM
1,3-Dichlorobenzene	ND 52	340	ug/Kg-dry 1 10/2/2012 08:44 PM
1,4-Dichlorobenzene	ND 49	340	ug/Kg-dry 1 10/2/2012 08:44 PM
2,4,5-Trichlorophenol	ND 70	340	ug/Kg-dry 1 10/2/2012 08:44 PM
2,4,6-Trichlorophenol	ND 41	340	ug/Kg-dry 1 10/2/2012 08:44 PM
2,4-Dichlorophenol	ND 42	1700	ug/Kg-dry 1 10/2/2012 08:44 PM
2,4-Dimethylphenol	ND 95	340	ug/Kg-dry 1 10/2/2012 08:44 PM
2,4-Dinitrophenol	ND 43	1700	ug/Kg-dry 1 10/2/2012 08:44 PM
2,4-Dinitrotoluene	ND 46	340	ug/Kg-dry 1 10/2/2012 08:44 PM
2,6-Dinitrotoluene	ND 45	340	ug/Kg-dry 1 10/2/2012 08:44 PM
2-Chloronaphthalene	ND 47	340	ug/Kg-dry 1 10/2/2012 08:44 PM
2-Chlorophenol	ND 45	340	ug/Kg-dry 1 10/2/2012 08:44 PM
2-Methylnaphthalene	6700 41	340	ug/Kg-dry 1 10/2/2012 08:44 PM
2-Methylphenol	ND 50	340	ug/Kg-dry 1 10/2/2012 08:44 PM
2-Nitroaniline	ND 55	1700	ug/Kg-dry 1 10/2/2012 08:44 PM
2-Nitrophenol	ND 47	340	ug/Kg-dry 1 10/2/2012 08:44 PM
3,3'-Dichlorobenzidine	ND 45	690	ug/Kg-dry 1 10/2/2012 08:44 PM
3-Nitroaniline	ND 50	1700	ug/Kg-dry 1 10/2/2012 08:44 PM
4,6-Dinitro-2-methylphenol	ND 54	1700	ug/Kg-dry 1 10/2/2012 08:44 PM
4-Bromophenyl-phenylether	ND 84	340	ug/Kg-dry 1 10/2/2012 08:44 PM
4-Chloro-3-methylphenol	ND 42	690	ug/Kg-dry 1 10/2/2012 08:44 PM
4-Chloroaniline	ND 45	690	ug/Kg-dry 1 10/2/2012 08:44 PM
4-Chlorophenyl-phenylether	ND 64	340	ug/Kg-dry 1 10/2/2012 08:44 PM
4-Methylphenol	ND 37	340	ug/Kg-dry 1 10/2/2012 08:44 PM
4-Nitroaniline	ND 110	1700	ug/Kg-dry 1 10/2/2012 08:44 PM
4-Nitrophenol	ND 160	1700	ug/Kg-dry 1 10/2/2012 08:44 PM
Acenaphthene	120 42	340	J ug/Kg-dry 1 10/2/2012 08:44 PM
Acenaphthylene	ND 42	340	ug/Kg-dry 1 10/2/2012 08:44 PM
Anthracene	ND 69	340	ug/Kg-dry 1 10/2/2012 08:44 PM
Benzo(a)anthracene	ND 78	340	ug/Kg-dry 1 10/2/2012 08:44 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
 H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit S Spike/Surrogate outside of limits due to matrix interference
 Results are wet unless otherwise specified DO Surrogate Diluted Out



CLIENT: CH2M HILL
Lab Order: N008590
Project: Kinder Morgan - Norwalk
Lab ID: N008590-002

Client Sample ID: Soil IDW - SB
Collection Date: 9/27/2012 12:00:00 PM
Matrix: SOIL

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS							
	EPA 3550B			EPA 8270C			
RunID: MS4_121002B	QC Batch: 40838			PrepDate:	10/1/2012		Analyst: MDM
Benzo(a)pyrene	ND	67	340		ug/Kg-dry	1	10/2/2012 08:44 PM
Benzo(b)fluoranthene	ND	49	340		ug/Kg-dry	1	10/2/2012 08:44 PM
Benzo(g,h,i)perylene	ND	59	340		ug/Kg-dry	1	10/2/2012 08:44 PM
Benzo(k)fluoranthene	ND	59	340		ug/Kg-dry	1	10/2/2012 08:44 PM
Benzoic acid	ND	150	1700		ug/Kg-dry	1	10/2/2012 08:44 PM
Benzyl alcohol	ND	71	690		ug/Kg-dry	1	10/2/2012 08:44 PM
Bis(2-chloroethoxy)methane	ND	67	340		ug/Kg-dry	1	10/2/2012 08:44 PM
Bis(2-chloroethyl)ether	ND	64	340		ug/Kg-dry	1	10/2/2012 08:44 PM
Bis(2-chloroisopropyl)ether	ND	59	340		ug/Kg-dry	1	10/2/2012 08:44 PM
Bis(2-ethylhexyl)phthalate	ND	83	340		ug/Kg-dry	1	10/2/2012 08:44 PM
Butylbenzylphthalate	ND	70	340		ug/Kg-dry	1	10/2/2012 08:44 PM
Chrysene	ND	83	340		ug/Kg-dry	1	10/2/2012 08:44 PM
Di-n-butylphthalate	ND	63	340		ug/Kg-dry	1	10/2/2012 08:44 PM
Di-n-octylphthalate	ND	53	340		ug/Kg-dry	1	10/2/2012 08:44 PM
Dibenz(a,h)anthracene	ND	97	340		ug/Kg-dry	1	10/2/2012 08:44 PM
Dibenzofuran	150	43	340	J	ug/Kg-dry	1	10/2/2012 08:44 PM
Diethylphthalate	ND	51	340		ug/Kg-dry	1	10/2/2012 08:44 PM
Dimethylphthalate	ND	57	340		ug/Kg-dry	1	10/2/2012 08:44 PM
Fluoranthene	ND	73	340		ug/Kg-dry	1	10/2/2012 08:44 PM
Fluorene	ND	75	340		ug/Kg-dry	1	10/2/2012 08:44 PM
Hexachlorobenzene	ND	49	340		ug/Kg-dry	1	10/2/2012 08:44 PM
Hexachlorobutadiene	ND	63	690		ug/Kg-dry	1	10/2/2012 08:44 PM
Hexachloroethane	ND	49	340		ug/Kg-dry	1	10/2/2012 08:44 PM
Indeno(1,2,3-cd)pyrene	ND	68	340		ug/Kg-dry	1	10/2/2012 08:44 PM
Isophorone	ND	61	340		ug/Kg-dry	1	10/2/2012 08:44 PM
N-Nitrosodi-n-propylamine	ND	48	340		ug/Kg-dry	1	10/2/2012 08:44 PM
N-Nitrosodiphenylamine	290	55	340	J	ug/Kg-dry	1	10/2/2012 08:44 PM
Naphthalene	4100	50	340		ug/Kg-dry	1	10/2/2012 08:44 PM
Nitrobenzene	ND	59	340		ug/Kg-dry	1	10/2/2012 08:44 PM
Pentachlorophenol	ND	36	1700		ug/Kg-dry	1	10/2/2012 08:44 PM
Phenanthrene	540	87	340		ug/Kg-dry	1	10/2/2012 08:44 PM
Phenol	ND	39	340		ug/Kg-dry	1	10/2/2012 08:44 PM
Pyrene	ND	68	340		ug/Kg-dry	1	10/2/2012 08:44 PM
Surr: 1,2-Dichlorobenzene-d4	72.4	0	25-110		%REC	1	10/2/2012 08:44 PM
Surr: 2,4,6-Tribromophenol	93.7	0	36-126		%REC	1	10/2/2012 08:44 PM
Surr: 2-Chlorophenol-d4	77.5	0	30-100		%REC	1	10/2/2012 08:44 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified

E Value above quantitation range
 J Analyte detected below quantitation limits
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out



CLIENT: CH2M HILL
Lab Order: N008590
Project: Kinder Morgan - Norwalk
Lab ID: N008590-002

Client Sample ID: Soil IDW - SB
Collection Date: 9/27/2012 12:00:00 PM
Matrix: SOIL

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
----------	--------	-----	-----	------	-------	----	---------------

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 3550B

EPA 8270C

RunID:	MS4_121002B	QC Batch:	40838	PrepDate:	10/1/2012	Analyst:	MDM
Surr:	2-Fluorobiphenyl	84.8	0	43-125	%REC	1	10/2/2012 08:44 PM
Surr:	2-Fluorophenol	77.2	0	37-125	%REC	1	10/2/2012 08:44 PM
Surr:	4-Terphenyl-d14	96.3	0	32-125	%REC	1	10/2/2012 08:44 PM
Surr:	Nitrobenzene-d5	79.3	0	37-125	%REC	1	10/2/2012 08:44 PM
Surr:	Phenol-d5	74.8	0	40-125	%REC	1	10/2/2012 08:44 PM

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID:	MS1_121001A	QC Batch:	D12VS072	PrepDate:	Analyst:	QBM	
	1,1,1,2-Tetrachloroethane	ND	0.25	5.2	ug/Kg-dry	1	10/1/2012 01:04 PM
	1,1,1-Trichloroethane	ND	0.33	5.2	ug/Kg-dry	1	10/1/2012 01:04 PM
	1,1,1,2,2-Tetrachloroethane	ND	0.31	5.2	ug/Kg-dry	1	10/1/2012 01:04 PM
	1,1,2-Trichloroethane	ND	0.46	5.2	ug/Kg-dry	1	10/1/2012 01:04 PM
	1,1-Dichloroethane	ND	0.39	5.2	ug/Kg-dry	1	10/1/2012 01:04 PM
	1,1-Dichloroethene	ND	0.79	5.2	ug/Kg-dry	1	10/1/2012 01:04 PM
	1,1-Dichloropropene	ND	0.31	5.2	ug/Kg-dry	1	10/1/2012 01:04 PM
	1,2,3-Trichlorobenzene	ND	0.35	5.2	ug/Kg-dry	1	10/1/2012 01:04 PM
	1,2,3-Trichloropropane	ND	0.26	5.2	ug/Kg-dry	1	10/1/2012 01:04 PM
	1,2,4-Trichlorobenzene	ND	0.43	5.2	ug/Kg-dry	1	10/1/2012 01:04 PM
	1,2,4-Trimethylbenzene	21000	34	1300	ug/Kg-dry	250	10/1/2012 03:26 PM
	1,2-Dibromo-3-chloropropane	ND	0.93	5.2	ug/Kg-dry	1	10/1/2012 01:04 PM
	1,2-Dibromoethane	ND	0.43	5.2	ug/Kg-dry	1	10/1/2012 01:04 PM
	1,2-Dichlorobenzene	ND	0.20	5.2	ug/Kg-dry	1	10/1/2012 01:04 PM
	1,2-Dichloroethane	ND	0.34	5.2	ug/Kg-dry	1	10/1/2012 01:04 PM
	1,2-Dichloropropane	ND	0.47	5.2	ug/Kg-dry	1	10/1/2012 01:04 PM
	1,3,5-Trimethylbenzene	6200	11	260	ug/Kg-dry	50	10/1/2012 02:37 PM
	1,3-Dichlorobenzene	ND	0.29	5.2	ug/Kg-dry	1	10/1/2012 01:04 PM
	1,3-Dichloropropane	ND	0.22	5.2	ug/Kg-dry	1	10/1/2012 01:04 PM
	1,4-Dichlorobenzene	ND	0.18	5.2	ug/Kg-dry	1	10/1/2012 01:04 PM
	2,2-Dichloropropane	ND	0.68	5.2	ug/Kg-dry	1	10/1/2012 01:04 PM
	2-Butanone	ND	2.9	52	ug/Kg-dry	1	10/1/2012 01:04 PM
	2-Chlorotoluene	ND	0.19	5.2	ug/Kg-dry	1	10/1/2012 01:04 PM
	4-Chlorotoluene	ND	0.28	5.2	ug/Kg-dry	1	10/1/2012 01:04 PM
	4-Isopropyltoluene	55	0.19	5.2	ug/Kg-dry	1	10/1/2012 01:04 PM
	4-Methyl-2-pentanone	ND	1.3	52	ug/Kg-dry	1	10/1/2012 01:04 PM
	Acetone	ND	4.3	52	ug/Kg-dry	1	10/1/2012 01:04 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified

E Value above quantitation range
 J Analyte detected below quantitation limits
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out



Advanced Technology
 Laboratories, Inc.

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: CH2M HILL
Lab Order: N008590
Project: Kinder Morgan - Norwalk
Lab ID: N008590-002

Client Sample ID: Soil IDW - SB
Collection Date: 9/27/2012 12:00:00 PM
Matrix: SOIL

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
----------	--------	-----	-----	------	-------	----	---------------

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS1_121001A	QC Batch: D12VS072	PrepDate:	Analyst: QBM
Acrolein	ND 10	100	ug/Kg-dry 1 10/1/2012 01:04 PM
Acrylonitrile	ND 4.4	52	ug/Kg-dry 1 10/1/2012 01:04 PM
Benzene	1.6 0.19	5.2	J ug/Kg-dry 1 10/1/2012 01:04 PM
Bromobenzene	ND 0.32	5.2	ug/Kg-dry 1 10/1/2012 01:04 PM
Bromochloromethane	ND 0.32	5.2	ug/Kg-dry 1 10/1/2012 01:04 PM
Bromodichloromethane	ND 0.33	5.2	ug/Kg-dry 1 10/1/2012 01:04 PM
Bromoform	ND 0.39	5.2	ug/Kg-dry 1 10/1/2012 01:04 PM
Bromomethane	ND 0.91	5.2	ug/Kg-dry 1 10/1/2012 01:04 PM
Carbon disulfide	ND 0.35	5.2	ug/Kg-dry 1 10/1/2012 01:04 PM
Carbon tetrachloride	ND 0.24	5.2	ug/Kg-dry 1 10/1/2012 01:04 PM
Chlorobenzene	ND 0.19	5.2	ug/Kg-dry 1 10/1/2012 01:04 PM
Chloroethane	ND 0.47	5.2	ug/Kg-dry 1 10/1/2012 01:04 PM
Chloroform	ND 0.36	5.2	ug/Kg-dry 1 10/1/2012 01:04 PM
Chloromethane	ND 0.52	5.2	ug/Kg-dry 1 10/1/2012 01:04 PM
cis-1,2-Dichloroethene	ND 0.50	5.2	ug/Kg-dry 1 10/1/2012 01:04 PM
cis-1,3-Dichloropropene	ND 0.21	5.2	ug/Kg-dry 1 10/1/2012 01:04 PM
Di-isopropyl ether	ND 0.34	5.2	ug/Kg-dry 1 10/1/2012 01:04 PM
Dibromochloromethane	ND 0.39	5.2	ug/Kg-dry 1 10/1/2012 01:04 PM
Dibromomethane	ND 0.35	5.2	ug/Kg-dry 1 10/1/2012 01:04 PM
Dichlorodifluoromethane	ND 0.24	5.2	ug/Kg-dry 1 10/1/2012 01:04 PM
Ethyl Tert-butyl ether	ND 0.52	5.2	ug/Kg-dry 1 10/1/2012 01:04 PM
Ethylbenzene	1500 6.9	260	ug/Kg-dry 50 10/1/2012 02:37 PM
Freon-113	ND 1.3	5.2	ug/Kg-dry 1 10/1/2012 01:04 PM
Hexachlorobutadiene	ND 1.0	5.2	ug/Kg-dry 1 10/1/2012 01:04 PM
Isopropylbenzene	290 16	260	ug/Kg-dry 50 10/1/2012 02:37 PM
m,p-Xylene	12000 10	260	ug/Kg-dry 50 10/1/2012 02:37 PM
Methylene chloride	4.9 1.5	5.2	J ug/Kg-dry 1 10/1/2012 01:04 PM
MTBE	33 0.33	5.2	ug/Kg-dry 1 10/1/2012 01:04 PM
n-Butylbenzene	1300 11	260	ug/Kg-dry 50 10/1/2012 02:37 PM
n-Propylbenzene	1700 6.1	260	ug/Kg-dry 50 10/1/2012 02:37 PM
Naphthalene	6200 12	260	ug/Kg-dry 50 10/1/2012 02:37 PM
o-Xylene	6100 13	260	ug/Kg-dry 50 10/1/2012 02:37 PM
sec-Butylbenzene	80 0.25	5.2	ug/Kg-dry 1 10/1/2012 01:04 PM
Styrene	ND 0.58	5.2	ug/Kg-dry 1 10/1/2012 01:04 PM
Tert-amyl methyl ether	ND 0.35	5.2	ug/Kg-dry 1 10/1/2012 01:04 PM
Tert-Butanol	42 7.0	26	ug/Kg-dry 1 10/1/2012 01:04 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
 H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit S Spike/Surrogate outside of limits due to matrix interference
 Results are wet unless otherwise specified DO Surrogate Diluted Out



Advanced Technology
 Laboratories, Inc.

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: CH2M HILL	Client Sample ID: Soil IDW - SB
Lab Order: N008590	Collection Date: 9/27/2012 12:00:00 PM
Project: Kinder Morgan - Norwalk	Matrix: SOIL
Lab ID: N008590-002	

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
----------	--------	-----	-----	------	-------	----	---------------

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS1_121001A	QC Batch: D12VS072	PrepDate:	Analyst: QBM
tert-Butylbenzene	ND 0.62	5.2	ug/Kg-dry 1 10/1/2012 01:04 PM
Tetrachloroethene	ND 0.25	5.2	ug/Kg-dry 1 10/1/2012 01:04 PM
Toluene	1400 7.2	260	ug/Kg-dry 50 10/1/2012 02:37 PM
trans-1,2-Dichloroethene	ND 0.60	5.2	ug/Kg-dry 1 10/1/2012 01:04 PM
trans-1,3-Dichloropropene	ND 0.24	5.2	ug/Kg-dry 1 10/1/2012 01:04 PM
Trichloroethene	ND 0.13	5.2	ug/Kg-dry 1 10/1/2012 01:04 PM
Trichlorofluoromethane	ND 0.67	5.2	ug/Kg-dry 1 10/1/2012 01:04 PM
Vinyl chloride	ND 0.37	5.2	ug/Kg-dry 1 10/1/2012 01:04 PM
Xylenes, Total	18000 260	260	ug/Kg-dry 50 10/1/2012 02:37 PM
Surr: 1,2-Dichloroethane-d4	81.7 0	52-149	%REC 50 10/1/2012 02:37 PM
Surr: 1,2-Dichloroethane-d4	66.2 0	52-149	%REC 250 10/1/2012 03:26 PM
Surr: 1,2-Dichloroethane-d4	89.0 0	52-149	%REC 1 10/1/2012 01:04 PM
Surr: 4-Bromofluorobenzene	121 0	65-135	%REC 1 10/1/2012 01:04 PM
Surr: 4-Bromofluorobenzene	107 0	65-135	%REC 50 10/1/2012 02:37 PM
Surr: 4-Bromofluorobenzene	109 0	65-135	%REC 250 10/1/2012 03:26 PM
Surr: Dibromofluoromethane	89.9 0	65-135	%REC 1 10/1/2012 01:04 PM
Surr: Dibromofluoromethane	98.2 0	65-135	%REC 50 10/1/2012 02:37 PM
Surr: Dibromofluoromethane	82.9 0	65-135	%REC 250 10/1/2012 03:26 PM
Surr: Toluene-d8	108 0	75-125	%REC 1 10/1/2012 01:04 PM
Surr: Toluene-d8	113 0	75-125	%REC 50 10/1/2012 02:37 PM
Surr: Toluene-d8	113 0	75-125	%REC 250 10/1/2012 03:26 PM

DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID

EPA 3550B

EPA 8015B

RunID: GC3_121003B	QC Batch: 40849	PrepDate: 10/2/2012	Analyst: MDM
TPH-Diesel	1100 0.86	10	mg/Kg-dry 1 10/3/2012 09:26 PM
Surr: Octacosane	96.1 0	25-162	%REC 1 10/3/2012 09:26 PM
Surr: p-Terphenyl	97.0 0	47-142	%REC 1 10/3/2012 09:26 PM

JET FUEL BY GC/FID

EPA 3550B

EPA 8015B

RunID: GC3_121008A	QC Batch: 40849	PrepDate: 10/2/2012	Analyst: MDM
Jet Fuel	930 10	10	mg/Kg-dry 1 10/8/2012 12:13 PM
Surr: p-Terphenyl	101 0	56-116	%REC 1 10/8/2012 12:13 PM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	S Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO Surrogate Diluted Out



Advanced Technology
Laboratories, Inc.

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: CH2M HILL
Lab Order: N008590
Project: Kinder Morgan - Norwalk
Lab ID: N008590-002

Client Sample ID: Soil IDW - SB
Collection Date: 9/27/2012 12:00:00 PM
Matrix: SOIL

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
----------	--------	-----	-----	------	-------	----	---------------

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B

RunID: GC4_121002A	QC Batch: E12VS152				PrepDate:		Analyst: QBM
TPH-Gasoline	220000	1500	52000		ug/Kg-dry	50	10/2/2012 12:34 PM
Surr: Chlorobenzene - d5	96.6	0	64-148		%REC	50	10/2/2012 12:34 PM

MERCURY BY COLD VAPOR TECHNIQUE

EPA 7471

EPA 7471A

RunID: AA1_121001A	QC Batch: 40829				PrepDate: 9/28/2012		Analyst: CEI
Mercury	ND	0.030	0.10		mg/Kg-dry	1	10/1/2012

ICP METALS

EPA 3050B

EPA 6010B

RunID: ICP2_121001A	QC Batch: 40828				PrepDate: 9/28/2012		Analyst: JT
Antimony	ND	0.17	2.1		mg/Kg-dry	1	10/1/2012 10:14 AM
Arsenic	5.4	0.16	1.0		mg/Kg-dry	1	10/1/2012 10:14 AM
Barium	75	0.17	1.0		mg/Kg-dry	1	10/1/2012 10:14 AM
Beryllium	ND	0.15	1.0		mg/Kg-dry	1	10/1/2012 10:14 AM
Cadmium	0.38	0.16	1.0	J	mg/Kg-dry	1	10/1/2012 10:14 AM
Chromium	13	0.17	1.0		mg/Kg-dry	1	10/1/2012 10:14 AM
Cobalt	5.9	0.17	1.0		mg/Kg-dry	1	10/1/2012 10:14 AM
Copper	13	0.15	2.1		mg/Kg-dry	1	10/1/2012 10:14 AM
Lead	5.5	0.14	1.0		mg/Kg-dry	1	10/1/2012 10:14 AM
Molybdenum	ND	0.16	1.0		mg/Kg-dry	1	10/1/2012 10:14 AM
Nickel	10	0.17	1.0		mg/Kg-dry	1	10/1/2012 10:14 AM
Selenium	ND	0.29	1.0		mg/Kg-dry	1	10/1/2012 10:14 AM
Silver	ND	0.15	1.0		mg/Kg-dry	1	10/1/2012 10:14 AM
Thallium	ND	0.15	2.1		mg/Kg-dry	1	10/1/2012 10:14 AM
Vanadium	24	0.17	1.0		mg/Kg-dry	1	10/1/2012 10:14 AM
Zinc	39	0.16	1.0		mg/Kg-dry	1	10/1/2012 10:14 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified

E Value above quantitation range
 J Analyte detected below quantitation limits
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out



CLIENT: CH2M HILL
Work Order: N008590
Project: Kinder Morgan - Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPGE

Sample ID: MB-40828	SampType: MBLK	TestCode: 6010_SPGE	Units: mg/Kg	Prep Date: 9/28/2012	RunNo: 85758						
Client ID: PBS	Batch ID: 40828	TestNo: EPA 6010B EPA 3050B		Analysis Date: 10/1/2012	SeqNo: 1450916						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	ND	2.0									
Arsenic	ND	1.0									
Barium	ND	1.0									
Beryllium	ND	1.0									
Cadmium	ND	1.0									
Chromium	ND	1.0									
Cobalt	ND	1.0									
Copper	ND	2.0									
Lead	ND	1.0									
Molybdenum	ND	1.0									
Nickel	ND	1.0									
Selenium	ND	1.0									
Silver	ND	1.0									
Thallium	ND	2.0									
Vanadium	ND	1.0									
Zinc	ND	1.0									

Sample ID: LCS-40828	SampType: LCS	TestCode: 6010_SPGE	Units: mg/Kg	Prep Date: 9/28/2012	RunNo: 85758						
Client ID: LCSS	Batch ID: 40828	TestNo: EPA 6010B EPA 3050B		Analysis Date: 10/1/2012	SeqNo: 1450917						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	51.551	2.0	50.00	0	103	85	115				
Arsenic	49.522	1.0	50.00	0	99.0	85	115				
Barium	50.696	1.0	50.00	0	101	85	115				
Beryllium	49.601	1.0	50.00	0	99.2	85	115				
Cadmium	49.109	1.0	50.00	0	98.2	85	115				
Chromium	51.282	1.0	50.00	0	103	85	115				
Cobalt	49.439	1.0	50.00	0	98.9	85	115				

Qualifiers:

- B Analyte detected in the associated Method Blank
 - J Analyte detected below quantitation limits
 - S Spike/Surrogate outside of limits due to matrix interference
 - E Value above quantitation range
 - ND Not Detected at the Reporting Limit
 - DO Surrogate Diluted Out
 - H Holding times for preparation or analysis exceeded
 - R RPD outside accepted recovery limits
- Calculations are based on raw values



CLIENT: CH2M HILL
 Work Order: N008590
 Project: Kinder Morgan - Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPGE

Sample ID: LCS-40828	SampType: LCS	TestCode: 6010_SPGE	Units: mg/Kg	Prep Date: 9/28/2012	RunNo: 85758						
Client ID: LCSS	Batch ID: 40828	TestNo: EPA 6010B	EPA 3050B	Analysis Date: 10/1/2012	SeqNo: 1450917						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	50.762	2.0	50.00	0	102	85	115				
Lead	50.797	1.0	50.00	0	102	85	115				
Molybdenum	49.142	1.0	50.00	0	98.3	85	115				
Nickel	48.735	1.0	50.00	0	97.5	85	115				
Selenium	47.227	1.0	50.00	0	94.5	85	115				
Silver	47.791	1.0	50.00	0	95.6	85	115				
Thallium	48.932	2.0	50.00	0	97.9	85	115				
Vanadium	50.728	1.0	50.00	0	101	85	115				
Zinc	48.727	1.0	50.00	0	97.5	85	115				

Sample ID: N008590-002B-MS	SampType: MS	TestCode: 6010_SPGE	Units: mg/Kg-dry	Prep Date: 9/28/2012	RunNo: 85758						
Client ID: ZZZZZ	Batch ID: 40828	TestNo: EPA 6010B	EPA 3050B	Analysis Date: 10/1/2012	SeqNo: 1450921						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	102.873	2.1	130.4	0	78.9	75	125				
Arsenic	110.043	1.0	130.4	5.390	80.3	75	125				
Barium	185.104	1.0	130.4	75.31	84.2	75	125				
Beryllium	103.093	1.0	130.4	0	79.1	75	125				
Cadmium	98.399	1.0	130.4	0.3773	75.2	75	125				
Chromium	117.688	1.0	130.4	12.99	80.3	75	125				
Cobalt	105.721	1.0	130.4	5.868	76.6	75	125				
Copper	125.165	2.1	130.4	13.09	86.0	75	125				
Lead	103.877	1.0	130.4	5.502	75.4	75	125				
Molybdenum	103.952	1.0	130.4	0	79.7	75	125				
Nickel	107.795	1.0	130.4	10.23	74.8	75	125				S
Selenium	99.308	1.0	130.4	0	76.2	75	125				
Silver	111.699	1.0	130.4	0	85.7	75	125				
Thallium	94.080	2.1	130.4	0	72.2	75	125				S
Vanadium	130.372	1.0	130.4	23.56	81.9	75	125				
Zinc	134.235	1.0	52.16	38.79	183	75	125				S

Qualifiers:

- | | | |
|--|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits |
| S Spike/Surrogate outside of limits due to matrix interference | DO Surrogate Diluted Out | Calculations are based on raw values |



**Advanced Technology
Laboratories, Inc.**

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: CH2M HILL
Work Order: N008590
Project: Kinder Morgan - Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPGE

Sample ID: N008590-002B-MSD	SampType: MSD	TestCode: 6010_SPGE	Units: mg/Kg-dry	Prep Date: 9/28/2012	RunNo: 85758
Client ID: ZZZZZZ	Batch ID: 40828	TestNo: EPA 6010B	EPA 3050B	Analysis Date: 10/1/2012	SeqNo: 1450943

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	104.554	2.1	129.8	0	80.5	75	125	102.9	1.62	20	
Arsenic	110.539	1.0	129.8	5.390	81.0	75	125	110.0	0.450	20	
Barium	183.673	1.0	129.8	75.31	83.5	75	125	185.1	0.776	20	
Beryllium	103.888	1.0	129.8	0	80.0	75	125	103.1	0.768	20	
Cadmium	99.206	1.0	129.8	0.3773	76.1	75	125	98.40	0.817	20	
Chromium	118.793	1.0	129.8	12.99	81.5	75	125	117.7	0.935	20	
Cobalt	106.460	1.0	129.8	5.868	77.5	75	125	105.7	0.696	20	
Copper	127.036	2.1	129.8	13.09	87.8	75	125	125.2	1.48	20	
Lead	104.293	1.0	129.8	5.502	76.1	75	125	103.9	0.399	20	
Molybdenum	104.470	1.0	129.8	0	80.5	75	125	104.0	0.497	20	
Nickel	107.598	1.0	129.8	10.23	75.0	75	125	107.8	0.183	20	
Selenium	99.454	1.0	129.8	0	76.6	75	125	99.31	0.148	20	
Silver	111.048	1.0	129.8	0	85.5	75	125	111.7	0.585	20	
Thallium	94.976	2.1	129.8	0	73.2	75	125	94.08	0.948	20	S
Vanadium	131.439	1.0	129.8	23.56	83.1	75	125	130.4	0.815	20	
Zinc	134.197	1.0	51.92	38.79	184	75	125	134.2	0.0282	20	S

Qualifiers:

- | | | |
|--|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits |
| S Spike/Surrogate outside of limits due to matrix interference | DO Surrogate Diluted Out | Calculations are based on raw values |



**Advanced Technology
Laboratories, Inc.**

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: CH2M HILL
Work Order: N008590
Project: Kinder Morgan - Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 7471_S_PGE

Sample ID: LCS-40829	SampType: LCS	TestCode: 7471_S_PGE	Units: mg/Kg	Prep Date: 9/28/2012	RunNo: 85767						
Client ID: LCSS	Batch ID: 40829	TestNo: EPA 7471A EPA 7471		Analysis Date: 10/1/2012	SeqNo: 1451340						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.413	0.10	0.4165	0	99.1	75	125				

Sample ID: MB-40829	SampType: MBLK	TestCode: 7471_S_PGE	Units: mg/Kg	Prep Date: 9/28/2012	RunNo: 85767						
Client ID: PBS	Batch ID: 40829	TestNo: EPA 7471A EPA 7471		Analysis Date: 10/1/2012	SeqNo: 1451341						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.10									

Sample ID: N008590-002B-MS	SampType: MS	TestCode: 7471_S_PGE	Units: mg/Kg-dry	Prep Date: 9/28/2012	RunNo: 85767						
Client ID: ZZZZZ	Batch ID: 40829	TestNo: EPA 7471A EPA 7471		Analysis Date: 10/1/2012	SeqNo: 1451345						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.458	0.10	0.4300	0	106	75	125				

Sample ID: N008590-002B-MSD	SampType: MSD	TestCode: 7471_S_PGE	Units: mg/Kg-dry	Prep Date: 9/28/2012	RunNo: 85767						
Client ID: ZZZZZ	Batch ID: 40829	TestNo: EPA 7471A EPA 7471		Analysis Date: 10/1/2012	SeqNo: 1451346						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.460	0.10	0.4358	0	106	75	125	0.4575	0.591	20	

Qualifiers:

- | | | |
|--|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits |
| S Spike/Surrogate outside of limits due to matrix interference | DO Surrogate Diluted Out | Calculations are based on raw values |



**Advanced Technology
Laboratories, Inc.**

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: CH2M HILL
Work Order: N008590
Project: Kinder Morgan - Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_S_DM HPGE

Sample ID: LCS-40849_DRO	SampType: LCS	TestCode: 8015_S_DM H	Units: mg/Kg	Prep Date: 10/2/2012	RunNo: 85805						
Client ID: LCSS	Batch ID: 40849	TestNo: EPA 8015B EPA 3550B		Analysis Date: 10/3/2012	SeqNo: 1452391						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Diesel	251.787	10	333.3	0	75.5	51	153				
Surr: Octacosane	26.109		26.67		97.9	25	162				
Surr: p-Terphenyl	28.091		26.67		105	47	142				

Sample ID: MB-40849	SampType: MBLK	TestCode: 8015_S_DM H	Units: mg/Kg	Prep Date: 10/2/2012	RunNo: 85805						
Client ID: PBS	Batch ID: 40849	TestNo: EPA 8015B EPA 3550B		Analysis Date: 10/3/2012	SeqNo: 1452393						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Diesel	2.497	10									J
Surr: Octacosane	25.184		26.67		94.4	25	162				
Surr: p-Terphenyl	25.497		26.67		95.6	47	142				

Sample ID: N008589-001D-MS	SampType: MS	TestCode: 8015_S_DM H	Units: mg/Kg-dry	Prep Date: 10/2/2012	RunNo: 85805						
Client ID: ZZZZZ	Batch ID: 40849	TestNo: EPA 8015B EPA 3550B		Analysis Date: 10/3/2012	SeqNo: 1452397						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Diesel	354.593	11	366.2	7.549	94.8	51	153				
Surr: Octacosane	30.670		29.30		105	25	162				
Surr: p-Terphenyl	30.461		29.30		104	47	142				

Sample ID: N008589-001D-MSD	SampType: MSD	TestCode: 8015_S_DM H	Units: mg/Kg-dry	Prep Date: 10/2/2012	RunNo: 85805						
Client ID: ZZZZZ	Batch ID: 40849	TestNo: EPA 8015B EPA 3550B		Analysis Date: 10/3/2012	SeqNo: 1452398						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Diesel	347.297	11	366.7	7.549	92.6	51	153	354.6	2.08	50	
Surr: Octacosane	26.866		29.34		91.6	25	162		0		
Surr: p-Terphenyl	30.871		29.34		105	47	142		0		

Qualifiers:

- | | | |
|--|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits |
| S Spike/Surrogate outside of limits due to matrix interference | DO Surrogate Diluted Out | Calculations are based on raw values |



**Advanced Technology
Laboratories, Inc.**

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: CH2M HILL
Work Order: N008590
Project: Kinder Morgan - Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_S_GASPGE

Sample ID: E121002LCS	SampType: LCS	TestCode: 8015_S_GAS	Units: ug/Kg	Prep Date:	RunNo: 85839						
Client ID: LCSS	Batch ID: E12VS152	TestNo: EPA 8015B		Analysis Date: 10/2/2012	SeqNo: 1454153						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH-Gasoline	5121.000	1000	5000	0	102	57	146				
Surr: Chlorobenzene - d5	98177.000		100000		98.2	64	148				

Sample ID: N008590-001AMSD	SampType: MSD	TestCode: 8015_S_GAS	Units: ug/Kg-dry	Prep Date:	RunNo: 85839						
Client ID: ZZZZZ	Batch ID: E12VS152	TestNo: EPA 8015B		Analysis Date: 10/2/2012	SeqNo: 1454154						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH-Gasoline	6251.075	1200	6142	74.93	101	57	146	6254	0.0393	50	
Surr: Chlorobenzene - d5	118572.653		122800		96.5	64	148		0	0	

Sample ID: E121002MB1	SampType: MBLK	TestCode: 8015_S_GAS	Units: ug/Kg	Prep Date:	RunNo: 85839						
Client ID: PBS	Batch ID: E12VS152	TestNo: EPA 8015B		Analysis Date: 10/2/2012	SeqNo: 1454155						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH-Gasoline	112.000	1000									J
Surr: Chlorobenzene - d5	94599.000		100000		94.6	64	148				

Sample ID: N008590-001AMS	SampType: MS	TestCode: 8015_S_GAS	Units: ug/Kg-dry	Prep Date:	RunNo: 85839						
Client ID: ZZZZZ	Batch ID: E12VS152	TestNo: EPA 8015B		Analysis Date: 10/2/2012	SeqNo: 1454159						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH-Gasoline	6253.531	1200	6142	74.93	101	57	146				
Surr: Chlorobenzene - d5	122229.451		122800		99.5	64	148				

Qualifiers:

- | | | |
|--|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits |
| S Spike/Surrogate outside of limits due to matrix interference | DO Surrogate Diluted Out | Calculations are based on raw values |



**Advanced Technology
Laboratories, Inc.**

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: CH2M HILL
Work Order: N008590
Project: Kinder Morgan - Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_S_JF

Sample ID: LCS-40849_JF	SampType: LCS	TestCode: 8015_S_JF	Units: mg/Kg	Prep Date: 10/2/2012	RunNo: 85855						
Client ID: LCSS	Batch ID: 40849	TestNo: EPA 8015B	EPA 3550B	Analysis Date: 10/8/2012	SeqNo: 1455444						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Jet Fuel	290.773	10	333.3	0	87.2	70	130				
Surr: p-Terphenyl	27.096		26.67		102	56	116				

Sample ID: MB-40849	SampType: MBLK	TestCode: 8015_S_JF	Units: mg/Kg	Prep Date: 10/2/2012	RunNo: 85855						
Client ID: PBS	Batch ID: 40849	TestNo: EPA 8015B	EPA 3550B	Analysis Date: 10/8/2012	SeqNo: 1455445						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Jet Fuel	ND	10									
Surr: p-Terphenyl	25.658		26.67		96.2	56	116				

Sample ID: N008590-002C-MS	SampType: MS	TestCode: 8015_S_JF	Units: mg/Kg-dry	Prep Date: 10/2/2012	RunNo: 85855						
Client ID: ZZZZZ	Batch ID: 40849	TestNo: EPA 8015B	EPA 3550B	Analysis Date: 10/8/2012	SeqNo: 1455449						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Jet Fuel	1411.977	10	346.8	927.5	140	70	130				S
Surr: p-Terphenyl	29.605		27.75		107	56	116				

Sample ID: N008590-002C-MSD	SampType: MSD	TestCode: 8015_S_JF	Units: mg/Kg-dry	Prep Date: 10/2/2012	RunNo: 85855						
Client ID: ZZZZZ	Batch ID: 40849	TestNo: EPA 8015B	EPA 3550B	Analysis Date: 10/8/2012	SeqNo: 1455450						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Jet Fuel	1265.890	10	346.6	927.5	97.6	70	130	1412	10.9	30	
Surr: p-Terphenyl	28.499		27.73		103	56	116		0	0	

Qualifiers:

- | | | |
|--|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits |
| S Spike/Surrogate outside of limits due to matrix interference | DO Surrogate Diluted Out | Calculations are based on raw values |



Advanced Technology
Laboratories, Inc.

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: CH2M HILL
 Work Order: N008590
 Project: Kinder Morgan - Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S_PG&E

Sample ID: D121001LCS	SampType: LCS	TestCode: 8260_S_PG&	Units: ug/Kg	Prep Date:	RunNo: 85794
Client ID: LCSS	Batch ID: D12VS072	TestNo: EPA 8260B		Analysis Date: 10/1/2012	SeqNo: 1452153

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	41.090	5.0	40.00	0	103	74	125				
1,1,1-Trichloroethane	37.420	5.0	40.00	0	93.6	68	130				
1,1,2,2-Tetrachloroethane	43.950	5.0	40.00	0	110	59	140				
1,1,2-Trichloroethane	40.010	5.0	40.00	0	100	62	127				
1,1-Dichloroethane	42.410	5.0	40.00	0	106	73	125				
1,1-Dichloroethene	43.190	5.0	40.00	0	108	65	136				
1,1-Dichloropropene	36.880	5.0	40.00	0	92.2	70	135				
1,2,3-Trichlorobenzene	44.700	5.0	40.00	0	112	62	133				
1,2,3-Trichloropropane	41.440	5.0	40.00	0	104	63	130				
1,2,4-Trichlorobenzene	43.970	5.0	40.00	0	110	65	131				
1,2,4-Trimethylbenzene	43.940	5.0	40.00	0	110	65	135				
1,2-Dibromo-3-chloropropane	37.700	5.0	40.00	0	94.3	49	135				
1,2-Dibromoethane	39.510	5.0	40.00	0	98.8	70	124				
1,2-Dichlorobenzene	44.720	5.0	40.00	0	112	74	120				
1,2-Dichloroethane	42.260	5.0	40.00	0	106	72	137				
1,2-Dichloropropane	38.140	5.0	40.00	0	95.4	71	120				
1,3,5-Trimethylbenzene	43.950	5.0	40.00	0	110	65	133				
1,3-Dichlorobenzene	44.110	5.0	40.00	0	110	72	124				
1,3-Dichloropropane	37.110	5.0	40.00	0	92.8	76	123				
1,4-Dichlorobenzene	43.980	5.0	40.00	0	110	72	125				
2,2-Dichloropropane	41.080	5.0	40.00	0	103	67	134				
2-Butanone	298.680	50	400.0	0	74.7	40	135				
2-Chlorotoluene	43.920	5.0	40.00	0	110	69	128				
4-Chlorotoluene	44.110	5.0	40.00	0	110	73	126				
4-Isopropyltoluene	44.260	5.0	40.00	0	111	70	130				
4-Methyl-2-pentanone	354.860	50	400.0	0	88.7	65	135				
Acetone	298.910	50	400.0	0	74.7	40	141				
Acrolein	335.470	100	400.0	0	83.9	65	135				
Acrylonitrile	486.660	50	400.0	0	122	65	135				
Benzene	39.670	5.0	40.00	0	99.2	73	126				

Qualifiers:

- | | | |
|--|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits |
| S Spike/Surrogate outside of limits due to matrix interference | DO Surrogate Diluted Out | Calculations are based on raw values |



**Advanced Technology
Laboratories, Inc.**

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: CH2M HILL
 Work Order: N008590
 Project: Kinder Morgan - Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S_PG&E

Sample ID: D121001LCS	SampType: LCS	TestCode: 8260_S_PG&	Units: ug/Kg	Prep Date:	RunNo: 85794
Client ID: LCSS	Batch ID: D12VS072	TestNo: EPA 8260B		Analysis Date: 10/1/2012	SeqNo: 1452153

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromobenzene	45.590	5.0	40.00	0	114	66	121				
Bromochloromethane	45.560	5.0	40.00	0	114	71	127				
Bromodichloromethane	39.760	5.0	40.00	0	99.4	72	128				
Bromoform	41.260	5.0	40.00	0	103	66	137				
Bromomethane	47.640	5.0	40.00	0	119	45	141				
Carbon disulfide	44.030	5.0	40.00	0	110	66	135				
Carbon tetrachloride	37.570	5.0	40.00	0	93.9	67	133				
Chlorobenzene	41.600	5.0	40.00	0	104	75	123				
Chloroethane	43.070	5.0	40.00	0	108	41	141				
Chloroform	42.240	5.0	40.00	0	106	72	124				
Chloromethane	41.850	5.0	40.00	0	105	51	129				
cis-1,2-Dichloroethene	44.020	5.0	40.00	0	110	67	125				
cis-1,3-Dichloropropene	38.660	5.0	40.00	0	96.7	72	126				
Di-isopropyl ether	39.580	5.0	40.00	0	99.0	70	130				
Dibromochloromethane	38.440	5.0	40.00	0	96.1	66	130				
Dibromomethane	42.240	5.0	40.00	0	106	73	128				
Dichlorodifluoromethane	41.340	5.0	40.00	0	103	34	136				
Ethyl Tert-butyl ether	40.200	5.0	40.00	0	101	70	130				
Ethylbenzene	40.900	5.0	40.00	0	102	74	127				
Freon-113	46.120	5.0	40.00	0	115	65	135				
Hexachlorobutadiene	41.650	5.0	40.00	0	104	53	142				
Isopropylbenzene	43.810	5.0	40.00	0	110	77	129				
m,p-Xylene	81.950	5.0	80.00	0	102	79	126				
Methylene chloride	40.900	5.0	40.00	0	102	63	137				
MTBE	36.570	5.0	40.00	0	91.4	50	135				
n-Butylbenzene	43.500	5.0	40.00	0	109	65	138				
n-Propylbenzene	43.740	5.0	40.00	0	109	63	135				
Naphthalene	41.260	5.0	40.00	0	103	51	135				
o-Xylene	41.180	5.0	40.00	0	103	77	125				
sec-Butylbenzene	44.400	5.0	40.00	0	111	63	132				

Qualifiers:

- | | | |
|--|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits |
| S Spike/Surrogate outside of limits due to matrix interference | DO Surrogate Diluted Out | Calculations are based on raw values |



**Advanced Technology
Laboratories, Inc.**

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: CH2M HILL
 Work Order: N008590
 Project: Kinder Morgan - Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S_PG&E

Sample ID: D121001LCS		SampType: LCS		TestCode: 8260_S_PG& Units: ug/Kg		Prep Date:		RunNo: 85794			
Client ID: LCSS		Batch ID: D12VS072		TestNo: EPA 8260B		Analysis Date: 10/1/2012		SeqNo: 1452153			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Styrene	42.280	5.0	40.00	0	106	74	128				
Tert-amyl methyl ether	39.490	5.0	40.00	0	98.7	70	130				
Tert-Butanol	151.130	25	200.0	0	75.6	70	130				
tert-Butylbenzene	43.890	5.0	40.00	0	110	65	132				
Tetrachloroethene	39.890	5.0	40.00	0	99.7	67	139				
Toluene	44.280	5.0	40.00	0	111	71	127				
trans-1,2-Dichloroethene	43.800	5.0	40.00	0	110	66	134				
trans-1,3-Dichloropropene	41.560	5.0	40.00	0	104	65	127				
Trichloroethene	37.230	5.0	40.00	0	93.1	77	124				
Trichlorofluoromethane	40.340	5.0	40.00	0	101	49	139				
Vinyl chloride	42.120	5.0	40.00	0	105	58	126				
Xylenes, Total	123.130	5.0	120.0	0	103	65	125				
Surr: 1,2-Dichloroethane-d4	45.720		50.00		91.4	52	149				
Surr: 4-Bromofluorobenzene	51.630		50.00		103	65	135				
Surr: Dibromofluoromethane	50.020		50.00		100	65	135				
Surr: Toluene-d8	50.820		50.00		102	75	125				

Sample ID: D121001LCS		SampType: LCSD		TestCode: 8260_S_PG& Units: ug/Kg		Prep Date:		RunNo: 85794			
Client ID: LCSS02		Batch ID: D12VS072		TestNo: EPA 8260B		Analysis Date: 10/1/2012		SeqNo: 1452154			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	40.300	5.0	40.00	0	101	74	125	41.09	1.94	30	
1,1,1-Trichloroethane	38.410	5.0	40.00	0	96.0	68	130	37.42	2.61	30	
1,1,2,2-Tetrachloroethane	43.570	5.0	40.00	0	109	59	140	43.95	0.868	30	
1,1,2-Trichloroethane	39.850	5.0	40.00	0	99.6	62	127	40.01	0.401	30	
1,1-Dichloroethane	42.870	5.0	40.00	0	107	73	125	42.41	1.08	30	
1,1-Dichloroethene	44.780	5.0	40.00	0	112	65	136	43.19	3.61	30	
1,1-Dichloropropene	38.080	5.0	40.00	0	95.2	70	135	36.88	3.20	30	
1,2,3-Trichlorobenzene	44.210	5.0	40.00	0	111	62	133	44.70	1.10	30	
1,2,3-Trichloropropane	39.940	5.0	40.00	0	99.8	63	130	41.44	3.69	30	

Qualifiers:

- | | | |
|--|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits |
| S Spike/Surrogate outside of limits due to matrix interference | DO Surrogate Diluted Out | Calculations are based on raw values |



**Advanced Technology
Laboratories, Inc.**

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: CH2M HILL
 Work Order: N008590
 Project: Kinder Morgan - Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S_PG&E

Sample ID: D121001LCSD	SampType: LCSD	TestCode: 8260_S_PG&	Units: ug/Kg	Prep Date:	RunNo: 85794
Client ID: LCSS02	Batch ID: D12VS072	TestNo: EPA 8260B		Analysis Date: 10/1/2012	SeqNo: 1452154

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	43.040	5.0	40.00	0	108	65	131	43.97	2.14	30	
1,2,4-Trimethylbenzene	44.230	5.0	40.00	0	111	65	135	43.94	0.658	30	
1,2-Dibromo-3-chloropropane	37.070	5.0	40.00	0	92.7	49	135	37.70	1.69	30	
1,2-Dibromoethane	39.190	5.0	40.00	0	98.0	70	124	39.51	0.813	30	
1,2-Dichlorobenzene	44.490	5.0	40.00	0	111	74	120	44.72	0.516	30	
1,2-Dichloroethane	42.480	5.0	40.00	0	106	72	137	42.26	0.519	30	
1,2-Dichloropropane	38.740	5.0	40.00	0	96.9	71	120	38.14	1.56	30	
1,3,5-Trimethylbenzene	44.100	5.0	40.00	0	110	65	133	43.95	0.341	30	
1,3-Dichlorobenzene	43.960	5.0	40.00	0	110	72	124	44.11	0.341	30	
1,3-Dichloropropane	36.680	5.0	40.00	0	91.7	76	123	37.11	1.17	30	
1,4-Dichlorobenzene	44.030	5.0	40.00	0	110	72	125	43.98	0.114	30	
2,2-Dichloropropane	42.230	5.0	40.00	0	106	67	134	41.08	2.76	30	
2-Butanone	327.160	50	400.0	0	81.8	40	135	298.7	9.10	30	
2-Chlorotoluene	43.710	5.0	40.00	0	109	69	128	43.92	0.479	30	
4-Chlorotoluene	43.550	5.0	40.00	0	109	73	126	44.11	1.28	30	
4-Isopropyltoluene	43.960	5.0	40.00	0	110	70	130	44.26	0.680	30	
4-Methyl-2-pentanone	355.220	50	400.0	0	88.8	65	135	354.9	0.101	30	
Acetone	332.260	50	400.0	0	83.1	40	141	298.9	10.6	30	
Acrolein	332.800	100	400.0	0	83.2	65	135	335.5	0.799	30	
Acrylonitrile	492.070	50	400.0	0	123	65	135	486.7	1.11	30	
Benzene	40.420	5.0	40.00	0	101	73	126	39.67	1.87	30	
Bromobenzene	45.210	5.0	40.00	0	113	66	121	45.59	0.837	30	
Bromochloromethane	46.090	5.0	40.00	0	115	71	127	45.56	1.16	30	
Bromodichloromethane	40.100	5.0	40.00	0	100	72	128	39.76	0.851	30	
Bromoform	40.840	5.0	40.00	0	102	66	137	41.26	1.02	30	
Bromomethane	47.460	5.0	40.00	0	119	45	141	47.64	0.379	30	
Carbon disulfide	44.500	5.0	40.00	0	111	66	135	44.03	1.06	30	
Carbon tetrachloride	37.800	5.0	40.00	0	94.5	67	133	37.57	0.610	30	
Chlorobenzene	41.230	5.0	40.00	0	103	75	123	41.60	0.893	30	
Chloroethane	43.690	5.0	40.00	0	109	41	141	43.07	1.43	30	

Qualifiers:

- | | | |
|--|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits |
| S Spike/Surrogate outside of limits due to matrix interference | DO Surrogate Diluted Out | Calculations are based on raw values |



**Advanced Technology
Laboratories, Inc.**

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: CH2M HILL
 Work Order: N008590
 Project: Kinder Morgan - Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S_PG&E

Sample ID: D121001LCSD	SampType: LCSD	TestCode: 8260_S_PG&	Units: ug/Kg	Prep Date:	RunNo: 85794						
Client ID: LCSS02	Batch ID: D12VS072	TestNo: EPA 8260B		Analysis Date: 10/1/2012	SeqNo: 1452154						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloroform	42.930	5.0	40.00	0	107	72	124	42.24	1.62	30	
Chloromethane	42.080	5.0	40.00	0	105	51	129	41.85	0.548	30	
cis-1,2-Dichloroethene	44.970	5.0	40.00	0	112	67	125	44.02	2.14	30	
cis-1,3-Dichloropropene	38.030	5.0	40.00	0	95.1	72	126	38.66	1.64	30	
Di-isopropyl ether	40.110	5.0	40.00	0	100	70	130	39.58	1.33	30	
Dibromochloromethane	38.570	5.0	40.00	0	96.4	66	130	38.44	0.338	30	
Dibromomethane	42.250	5.0	40.00	0	106	73	128	42.24	0.0237	30	
Dichlorodifluoromethane	41.330	5.0	40.00	0	103	34	136	41.34	0.0242	30	
Ethyl Tert-butyl ether	40.000	5.0	40.00	0	100	70	130	40.20	0.499	30	
Ethylbenzene	40.210	5.0	40.00	0	101	74	127	40.90	1.70	30	
Freon-113	47.470	5.0	40.00	0	119	65	135	46.12	2.88	30	
Hexachlorobutadiene	41.570	5.0	40.00	0	104	53	142	41.65	0.192	30	
Isopropylbenzene	44.000	5.0	40.00	0	110	77	129	43.81	0.433	30	
m,p-Xylene	80.860	5.0	80.00	0	101	79	126	81.95	1.34	30	
Methylene chloride	41.780	5.0	40.00	0	104	63	137	40.90	2.13	30	
MTBE	37.140	5.0	40.00	0	92.8	50	135	36.57	1.55	30	
n-Butylbenzene	43.290	5.0	40.00	0	108	65	138	43.50	0.484	30	
n-Propylbenzene	44.150	5.0	40.00	0	110	63	135	43.74	0.933	30	
Naphthalene	41.220	5.0	40.00	0	103	51	135	41.26	0.0970	30	
o-Xylene	40.520	5.0	40.00	0	101	77	125	41.18	1.62	30	
sec-Butylbenzene	44.200	5.0	40.00	0	110	63	132	44.40	0.451	30	
Styrene	41.710	5.0	40.00	0	104	74	128	42.28	1.36	30	
Tert-amyl methyl ether	38.610	5.0	40.00	0	96.5	70	130	39.49	2.25	30	
Tert-Butanol	144.780	25	200.0	0	72.4	70	130	151.1	4.29	30	
tert-Butylbenzene	43.790	5.0	40.00	0	109	65	132	43.89	0.228	30	
Tetrachloroethene	39.120	5.0	40.00	0	97.8	67	139	39.89	1.95	30	
Toluene	43.440	5.0	40.00	0	109	71	127	44.28	1.92	30	
trans-1,2-Dichloroethene	44.320	5.0	40.00	0	111	66	134	43.80	1.18	30	
trans-1,3-Dichloropropene	40.650	5.0	40.00	0	102	65	127	41.56	2.21	30	
Trichloroethene	37.380	5.0	40.00	0	93.5	77	124	37.23	0.402	30	

Qualifiers:

- | | | |
|--|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits |
| S Spike/Surrogate outside of limits due to matrix interference | DO Surrogate Diluted Out | Calculations are based on raw values |



**Advanced Technology
Laboratories, Inc.**

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: CH2M HILL
Work Order: N008590
Project: Kinder Morgan - Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S_PG&E

Sample ID: D121001LCSD	SampType: LCSD	TestCode: 8260_S_PG&	Units: ug/Kg	Prep Date:	RunNo: 85794						
Client ID: LCSS02	Batch ID: D12VS072	TestNo: EPA 8260B	Analysis Date: 10/1/2012	SeqNo: 1452154							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichlorofluoromethane	41.330	5.0	40.00	0	103	49	139	40.34	2.42	30	
Vinyl chloride	42.240	5.0	40.00	0	106	58	126	42.12	0.284	30	
Xylenes, Total	121.380	5.0	120.0	0	101	65	125	123.1	1.43	30	
Surr: 1,2-Dichloroethane-d4	46.880		50.00		93.8	52	149		0	0	
Surr: 4-Bromofluorobenzene	51.170		50.00		102	65	135		0	0	
Surr: Dibromofluoromethane	51.490		50.00		103	65	135		0	0	
Surr: Toluene-d8	51.130		50.00		102	75	125		0	0	

Sample ID: D121001MB2	SampType: MBLK	TestCode: 8260_S_PG&	Units: ug/Kg	Prep Date:	RunNo: 85794						
Client ID: PBS	Batch ID: D12VS072	TestNo: EPA 8260B	Analysis Date: 10/1/2012	SeqNo: 1452155							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0									
1,1,1-Trichloroethane	ND	5.0									
1,1,2,2-Tetrachloroethane	ND	5.0									
1,1,2-Trichloroethane	ND	5.0									
1,1-Dichloroethane	ND	5.0									
1,1-Dichloroethene	ND	5.0									
1,1-Dichloropropene	ND	5.0									
1,2,3-Trichlorobenzene	ND	5.0									
1,2,3-Trichloropropane	ND	5.0									
1,2,4-Trichlorobenzene	ND	5.0									
1,2,4-Trimethylbenzene	ND	5.0									
1,2-Dibromo-3-chloropropane	ND	5.0									
1,2-Dibromoethane	ND	5.0									
1,2-Dichlorobenzene	ND	5.0									
1,2-Dichloroethane	ND	5.0									
1,2-Dichloropropane	ND	5.0									
1,3,5-Trimethylbenzene	ND	5.0									
1,3-Dichlorobenzene	ND	5.0									

Qualifiers:

- | | | |
|--|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits |
| S Spike/Surrogate outside of limits due to matrix interference | DO Surrogate Diluted Out | Calculations are based on raw values |



**Advanced Technology
Laboratories, Inc.**

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: CH2M HILL
Work Order: N008590
Project: Kinder Morgan - Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S_PG&E

Sample ID: D121001MB2	SampType: MBLK	TestCode: 8260_S_PG&	Units: ug/Kg	Prep Date:	RunNo: 85794						
Client ID: PBS	Batch ID: D12VS072	TestNo: EPA 8260B		Analysis Date: 10/1/2012	SeqNo: 1452155						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Dichloropropane	ND	5.0									
1,4-Dichlorobenzene	ND	5.0									
2,2-Dichloropropane	ND	5.0									
2-Butanone	ND	50									
2-Chlorotoluene	ND	5.0									
4-Chlorotoluene	ND	5.0									
4-Isopropyltoluene	ND	5.0									
4-Methyl-2-pentanone	ND	50									
Acetone	ND	50									
Acrolein	ND	100									
Acrylonitrile	ND	50									
Benzene	ND	5.0									
Bromobenzene	ND	5.0									
Bromochloromethane	ND	5.0									
Bromodichloromethane	ND	5.0									
Bromoform	ND	5.0									
Bromomethane	ND	5.0									
Carbon disulfide	ND	5.0									
Carbon tetrachloride	ND	5.0									
Chlorobenzene	ND	5.0									
Chloroethane	ND	5.0									
Chloroform	ND	5.0									
Chloromethane	ND	5.0									
cis-1,2-Dichloroethene	ND	5.0									
cis-1,3-Dichloropropene	ND	5.0									
Di-isopropyl ether	ND	5.0									
Dibromochloromethane	ND	5.0									
Dibromomethane	ND	5.0									
Dichlorodifluoromethane	ND	5.0									
Ethyl Tert-butyl ether	ND	5.0									

Qualifiers:

- | | | |
|--|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits |
| S Spike/Surrogate outside of limits due to matrix interference | DO Surrogate Diluted Out | Calculations are based on raw values |



**Advanced Technology
Laboratories, Inc.**

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: CH2M HILL
Work Order: N008590
Project: Kinder Morgan - Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S_PG&E

Sample ID: D121001MB2	SampType: MBLK	TestCode: 8260_S_PG&	Units: ug/Kg	Prep Date:	RunNo: 85794						
Client ID: PBS	Batch ID: D12VS072	TestNo: EPA 8260B		Analysis Date: 10/1/2012	SeqNo: 1452155						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethylbenzene	ND	5.0									
Freon-113	ND	5.0									
Hexachlorobutadiene	ND	5.0									
Isopropylbenzene	ND	5.0									
m,p-Xylene	ND	5.0									
Methylene chloride	ND	5.0									
MTBE	ND	5.0									
n-Butylbenzene	ND	5.0									
n-Propylbenzene	ND	5.0									
Naphthalene	ND	5.0									
o-Xylene	ND	5.0									
sec-Butylbenzene	ND	5.0									
Styrene	ND	5.0									
Tert-amyl methyl ether	ND	5.0									
Tert-Butanol	ND	25									
tert-Butylbenzene	ND	5.0									
Tetrachloroethene	ND	5.0									
Toluene	ND	5.0									
trans-1,2-Dichloroethene	ND	5.0									
trans-1,3-Dichloropropene	ND	5.0									
Trichloroethene	ND	5.0									
Trichlorofluoromethane	ND	5.0									
Vinyl chloride	ND	5.0									
Xylenes, Total	ND	5.0									
Surr: 1,2-Dichloroethane-d4	40.710		50.00		81.4	52	149				
Surr: 4-Bromofluorobenzene	47.940		50.00		95.9	65	135				
Surr: Dibromofluoromethane	44.200		50.00		88.4	65	135				
Surr: Toluene-d8	48.660		50.00		97.3	75	125				

Qualifiers:

- | | | |
|--|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits |
| S Spike/Surrogate outside of limits due to matrix interference | DO Surrogate Diluted Out | Calculations are based on raw values |



**Advanced Technology
Laboratories, Inc.**

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: CH2M HILL
Work Order: N008590
Project: Kinder Morgan - Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_S_PGE

Sample ID: LCS-40838	SampType: LCS	TestCode: 8270_S_PGE	Units: ug/Kg	Prep Date: 10/1/2012	RunNo: 85788
Client ID: LCSS	Batch ID: 40838	TestNo: EPA 8270C EPA 3550B		Analysis Date: 10/2/2012	SeqNo: 1452003

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	2713.000	330	3330	0	81.5	44	125				
1,2-Dichlorobenzene	2666.333	330	3330	0	80.1	45	125				
1,3-Dichlorobenzene	2540.667	330	3330	0	76.3	39	125				
1,4-Dichlorobenzene	2591.000	330	3330	0	77.8	35	125				
2,4,5-Trichlorophenol	2969.667	330	3330	0	89.2	49	125				
2,4,6-Trichlorophenol	3081.333	330	3330	0	92.5	43	125				
2,4-Dichlorophenol	2851.000	1600	3330	0	85.6	45	125				
2,4-Dimethylphenol	2552.333	330	3330	0	76.6	32	125				
2,4-Dinitrophenol	2623.000	1600	3330	0	78.8	25	132				
2,4-Dinitrotoluene	3030.667	330	3330	0	91.0	48	125				
2,6-Dinitrotoluene	3031.667	330	3330	0	91.0	48	125				
2-Chloronaphthalene	2902.667	330	3330	0	87.2	45	125				
2-Chlorophenol	2671.333	330	3330	0	80.2	44	125				
2-Methylnaphthalene	2752.667	330	3330	0	82.7	47	125				
2-Methylphenol	2685.333	330	3330	0	80.6	40	125				
2-Nitroaniline	3285.000	1600	3330	0	98.6	44	125				
2-Nitrophenol	2836.000	330	3330	0	85.2	42	125				
3,3'-Dichlorobenzidine	4876.333	660	6660	0	73.2	25	128				
3-Nitroaniline	3256.667	1600	3330	0	97.8	27	125				
4,6-Dinitro-2-methylphenol	3049.667	1600	3330	0	91.6	29	137				
4-Bromophenyl-phenylether	3316.333	330	3330	0	99.6	46	125				
4-Chloro-3-methylphenol	2919.000	660	3330	0	87.7	46	125				
4-Chloroaniline	2350.667	660	3330	0	70.6	10	125				
4-Chlorophenyl-phenylether	2937.333	330	3330	0	88.2	47	125				
4-Methylphenol	2765.667	330	3330	0	83.1	41	125				
4-Nitroaniline	2965.333	1600	3330	0	89.0	34	125				
4-Nitrophenol	2758.333	1600	3330	0	82.8	25	138				
Acenaphthene	2946.667	330	3330	0	88.5	46	125				
Acenaphthylene	3064.000	330	3330	0	92.0	44	125				
Anthracene	3094.000	330	3330	0	92.9	53	125				

Qualifiers:

- | | | |
|--|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits |
| S Spike/Surrogate outside of limits due to matrix interference | DO Surrogate Diluted Out | Calculations are based on raw values |



**Advanced Technology
Laboratories, Inc.**

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: CH2M HILL
Work Order: N008590
Project: Kinder Morgan - Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_S_PGE

Sample ID: LCS-40838	SampType: LCS	TestCode: 8270_S_PGE	Units: ug/Kg	Prep Date: 10/1/2012	RunNo: 85788
Client ID: LCSS	Batch ID: 40838	TestNo: EPA 8270C	EPA 3550B	Analysis Date: 10/2/2012	SeqNo: 1452003

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(a)anthracene	3232.000	330	3330	0	97.1	52	125				
Benzo(a)pyrene	3232.333	330	3330	0	97.1	50	125				
Benzo(b)fluoranthene	3152.667	330	3330	0	94.7	45	125				
Benzo(g,h,i)perylene	3159.000	330	3330	0	94.9	38	126				
Benzo(k)fluoranthene	3226.667	330	3330	0	96.9	45	125				
Benzoic acid	1746.667	1600	3330	0	52.5	25	125				
Benzyl alcohol	2893.667	660	3330	0	86.9	25	125				
Bis(2-chloroethoxy)methane	2973.000	330	3330	0	89.3	43	125				
Bis(2-chloroethyl)ether	2712.333	330	3330	0	81.5	38	125				
Bis(2-chloroisopropyl)ether	2635.333	330	3330	0	79.1	25	125				
Bis(2-ethylhexyl)phthalate	3912.667	330	3330	0	117	47	127				
Butylbenzylphthalate	3973.333	330	3330	0	119	49	125				
Chrysene	3819.667	330	3330	0	115	53	125				
Di-n-butylphthalate	3409.000	330	3330	0	102	56	125				
Di-n-octylphthalate	3995.667	330	3330	0	120	41	132				
Dibenz(a,h)anthracene	3264.333	330	3330	0	98.0	41	125				
Dibenzofuran	2958.333	330	3330	0	88.8	51	125				
Diethylphthalate	3255.000	330	3330	0	97.7	50	125				
Dimethylphthalate	3141.000	330	3330	0	94.3	49	125				
Fluoranthene	2974.667	330	3330	0	89.3	54	125				
Fluorene	2965.333	330	3330	0	89.0	49	125				
Hexachlorobenzene	3061.000	330	3330	0	91.9	47	125				
Hexachlorobutadiene	3066.667	660	3330	0	92.1	40	125				
Hexachloroethane	2649.000	330	3330	0	79.5	34	125				
Indeno(1,2,3-cd)pyrene	3263.333	330	3330	0	98.0	38	125				
Isophorone	3339.333	330	3330	0	100	43	125				
N-Nitrosodi-n-propylamine	2987.000	330	3330	0	89.7	40	125				
N-Nitrosodiphenylamine	3137.667	330	3330	0	94.2	49	125				
Naphthalene	2761.667	330	3330	0	82.9	40	125				
Nitrobenzene	2720.000	330	3330	0	81.7	41	125				

Qualifiers:

- | | | |
|--|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits |
| S Spike/Surrogate outside of limits due to matrix interference | DO Surrogate Diluted Out | Calculations are based on raw values |



**Advanced Technology
Laboratories, Inc.**

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: CH2M HILL
Work Order: N008590
Project: Kinder Morgan - Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_S_PGE

Sample ID: LCS-40838	SampType: LCS	TestCode: 8270_S_PGE	Units: ug/Kg	Prep Date: 10/1/2012	RunNo: 85788						
Client ID: LCSS	Batch ID: 40838	TestNo: EPA 8270C EPA 3550B		Analysis Date: 10/2/2012	SeqNo: 1452003						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Pentachlorophenol	2705.000	1600	3330	0	81.2	25	125				
Phenanthrene	3038.000	330	3330	0	91.2	50	125				
Phenol	2664.000	330	3330	0	80.0	39	125				
Pyrene	2893.000	330	3330	0	86.9	46	125				
Surr: 1,2-Dichlorobenzene-d4	2575.333		3330		77.3	25	110				
Surr: 2,4,6-Tribromophenol	2986.333		3330		89.7	36	126				
Surr: 2-Chlorophenol-d4	2610.333		3330		78.4	30	100				
Surr: 2-Fluorobiphenyl	2904.333		3330		87.2	43	125				
Surr: 2-Fluorophenol	2652.000		3330		79.6	37	125				
Surr: 4-Terphenyl-d14	3407.000		3330		102	32	125				
Surr: Nitrobenzene-d5	2853.000		3330		85.7	37	125				
Surr: Phenol-d5	2694.000		3330		80.9	40	125				

Sample ID: N008590-001C-MS	SampType: MS	TestCode: 8270_S_PGE	Units: ug/Kg-dry	Prep Date: 10/1/2012	RunNo: 85788						
Client ID: ZZZZZ	Batch ID: 40838	TestNo: EPA 8270C EPA 3550B		Analysis Date: 10/2/2012	SeqNo: 1452004						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	2847.316	410	4090	0	69.6	44	125				
1,2-Dichlorobenzene	2787.946	410	4090	0	68.2	45	125				
1,3-Dichlorobenzene	2617.614	410	4090	0	64.0	39	125				
1,4-Dichlorobenzene	2681.079	410	4090	0	65.5	35	125				
2,4,5-Trichlorophenol	3686.279	410	4090	0	90.1	49	125				
2,4,6-Trichlorophenol	3678.090	410	4090	0	89.9	43	125				
2,4-Dichlorophenol	3186.750	2000	4090	0	77.9	45	125				
2,4-Dimethylphenol	2774.434	410	4090	0	67.8	32	125				
2,4-Dinitrophenol	2864.513	2000	4090	0	70.0	25	132				
2,4-Dinitrotoluene	3766.122	410	4090	0	92.1	48	125				
2,6-Dinitrotoluene	3697.334	410	4090	0	90.4	48	125				
2-Chloronaphthalene	3199.443	410	4090	0	78.2	45	125				
2-Chlorophenol	2954.182	410	4090	0	72.2	44	125				

Qualifiers:

- | | | |
|--|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits |
| S Spike/Surrogate outside of limits due to matrix interference | DO Surrogate Diluted Out | Calculations are based on raw values |



**Advanced Technology
Laboratories, Inc.**

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: CH2M HILL
 Work Order: N008590
 Project: Kinder Morgan - Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_S_PGE

Sample ID: N008590-001C-MS	SampType: MS	TestCode: 8270_S_PGE	Units: ug/Kg-dry	Prep Date: 10/1/2012	RunNo: 85788
Client ID: ZZZZZ	Batch ID: 40838	TestNo: EPA 8270C	EPA 3550B	Analysis Date: 10/2/2012	SeqNo: 1452004

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Methylnaphthalene	2956.639	410	4090	0	72.3	47	125				
2-Methylphenol	3016.009	410	4090	0	73.7	40	125				
2-Nitroaniline	4001.556	2000	4090	0	97.8	44	125				
2-Nitrophenol	3139.254	410	4090	0	76.7	42	125				
3,3'-Dichlorobenzidine	6118.413	810	8181	0	74.8	25	128				
3-Nitroaniline	3864.799	2000	4090	0	94.5	27	125				
4,6-Dinitro-2-methylphenol	3829.996	2000	4090	0	93.6	29	137				
4-Bromophenyl-phenylether	4045.367	410	4090	0	98.9	46	125				
4-Chloro-3-methylphenol	3442.656	810	4090	0	84.2	46	125				
4-Chloroaniline	2685.174	810	4090	0	65.6	10	125				
4-Chlorophenyl-phenylether	3447.570	410	4090	0	84.3	47	125				
4-Methylphenol	3046.718	410	4090	0	74.5	41	125				
4-Nitroaniline	3643.287	2000	4090	0	89.1	34	125				
4-Nitrophenol	3588.830	2000	4090	0	87.7	25	138				
Acenaphthene	3387.790	410	4090	0	82.8	46	125				
Acenaphthylene	3533.145	410	4090	0	86.4	44	125				
Anthracene	3848.012	410	4090	0	94.1	53	125				
Benzo(a)anthracene	3973.304	410	4090	0	97.1	52	125				
Benzo(a)pyrene	4016.296	410	4090	0	98.2	50	125				
Benzo(b)fluoranthene	3972.075	410	4090	0	97.1	45	125				
Benzo(g,h,i)perylene	4009.335	410	4090	0	98.0	38	126				
Benzo(k)fluoranthene	4031.855	410	4090	0	98.6	45	125				
Benzoic acid	1173.893	2000	4090	0	28.7	25	125				J
Benzyl alcohol	3108.136	810	4090	0	76.0	25	125				
Bis(2-chloroethoxy)methane	3123.285	410	4090	0	76.4	43	125				
Bis(2-chloroethyl)ether	2923.883	410	4090	0	71.5	38	125				
Bis(2-chloroisopropyl)ether	2789.583	410	4090	0	68.2	25	125				
Bis(2-ethylhexyl)phthalate	4781.149	410	4090	0	117	47	127				
Butylbenzylphthalate	4769.275	410	4090	0	117	49	125				
Chrysene	4700.078	410	4090	0	115	53	125				

Qualifiers:

- | | | |
|--|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits |
| S Spike/Surrogate outside of limits due to matrix interference | DO Surrogate Diluted Out | Calculations are based on raw values |



**Advanced Technology
Laboratories, Inc.**

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: CH2M HILL
 Work Order: N008590
 Project: Kinder Morgan - Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_S_PGE

Sample ID: N008590-001C-MS	SampType: MS	TestCode: 8270_S_PGE	Units: ug/Kg-dry	Prep Date: 10/1/2012	RunNo: 85788
Client ID: ZZZZZZ	Batch ID: 40838	TestNo: EPA 8270C	EPA 3550B	Analysis Date: 10/2/2012	SeqNo: 1452004

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Di-n-butylphthalate	4194.407	410	4090	0	103	56	125				
Di-n-octylphthalate	4697.211	410	4090	0	115	41	132				
Dibenz(a,h)anthracene	4121.934	410	4090	0	101	41	125				
Dibenzofuran	3464.767	410	4090	0	84.7	51	125				
Diethylphthalate	4008.926	410	4090	0	98.0	50	125				
Dimethylphthalate	3797.650	410	4090	0	92.8	49	125				
Fluoranthene	3703.476	410	4090	0	90.5	54	125				
Fluorene	3522.090	410	4090	0	86.1	49	125				
Hexachlorobenzene	3808.705	410	4090	0	93.1	47	125				
Hexachlorobutadiene	3161.364	810	4090	0	77.3	40	125				
Hexachloroethane	2769.111	410	4090	0	67.7	34	125				
Indeno(1,2,3-cd)pyrene	4139.131	410	4090	0	101	38	125				
Isophorone	3628.137	410	4090	0	88.7	43	125				
N-Nitrosodi-n-propylamine	3051.632	410	4090	0	74.6	40	125				
N-Nitrosodiphenylamine	3848.421	410	4090	0	94.1	49	125				
Naphthalene	2985.710	410	4090	0	73.0	40	125				
Nitrobenzene	2904.230	410	4090	0	71.0	41	125				
Pentachlorophenol	3621.586	2000	4090	0	88.5	25	125				
Phenanthrene	3785.776	410	4090	0	92.6	50	125				
Phenol	2985.710	410	4090	0	73.0	39	125				
Pyrene	3593.743	410	4090	0	87.9	46	125				
Surr: 1,2-Dichlorobenzene-d4	2195.881		4090		53.7	25	110				
Surr: 2,4,6-Tribromophenol	3572.862		4090		87.3	36	126				
Surr: 2-Chlorophenol-d4	2749.457		4090		67.2	30	100				
Surr: 2-Fluorobiphenyl	2912.828		4090		71.2	43	125				
Surr: 2-Fluorophenol	2780.166		4090		68.0	37	125				
Surr: 4-Terphenyl-d14	3873.807		4090		94.7	32	125				
Surr: Nitrobenzene-d5	2900.954		4090		70.9	37	125				
Surr: Phenol-d5	2866.560		4090		70.1	40	125				

Qualifiers:

- | | | |
|--|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits |
| S Spike/Surrogate outside of limits due to matrix interference | DO Surrogate Diluted Out | Calculations are based on raw values |



**Advanced Technology
Laboratories, Inc.**

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: CH2M HILL
Work Order: N008590
Project: Kinder Morgan - Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_S_PGE

Sample ID: N008590-001C-MSD	SampType: MSD	TestCode: 8270_S_PGE	Units: ug/Kg-dry	Prep Date: 10/1/2012	RunNo: 85788
Client ID: ZZZZZ	Batch ID: 40838	TestNo: EPA 8270C	EPA 3550B	Analysis Date: 10/2/2012	SeqNo: 1452005

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	2987.923	400	4082	0	73.2	44	125	2847	4.82	30	
1,2-Dichlorobenzene	2841.224	400	4082	0	69.6	45	125	2788	1.89	30	
1,3-Dichlorobenzene	2682.266	400	4082	0	65.7	39	125	2618	2.44	30	
1,4-Dichlorobenzene	2786.059	400	4082	0	68.2	35	125	2681	3.84	30	
2,4,5-Trichlorophenol	3792.521	400	4082	0	92.9	49	125	3686	2.84	30	
2,4,6-Trichlorophenol	3805.189	400	4082	0	93.2	43	125	3678	3.40	30	
2,4-Dichlorophenol	3426.386	2000	4082	0	83.9	45	125	3187	7.25	30	
2,4-Dimethylphenol	2918.047	400	4082	0	71.5	32	125	2774	5.05	30	
2,4-Dinitrophenol	2741.518	2000	4082	0	67.2	25	132	2865	4.39	30	
2,4-Dinitrotoluene	3582.484	400	4082	0	87.8	48	125	3766	5.00	30	
2,6-Dinitrotoluene	3600.872	400	4082	0	88.2	48	125	3697	2.64	30	
2-Chloronaphthalene	3390.018	400	4082	0	83.0	45	125	3199	5.78	30	
2-Chlorophenol	3086.404	400	4082	0	75.6	44	125	2954	4.38	30	
2-Methylnaphthalene	3099.480	400	4082	0	75.9	47	125	2957	4.72	30	
2-Methylphenol	3138.709	400	4082	0	76.9	40	125	3016	3.99	30	
2-Nitroaniline	3896.723	2000	4082	0	95.5	44	125	4002	2.65	30	
2-Nitrophenol	3340.573	400	4082	0	81.8	42	125	3139	6.21	30	
3,3'-Dichlorobenzidine	6459.259	810	8164	0	79.1	25	128	6118	5.42	30	
3-Nitroaniline	3816.631	2000	4082	0	93.5	27	125	3865	1.25	30	
4,6-Dinitro-2-methylphenol	3803.554	2000	4082	0	93.2	29	137	3830	0.693	30	
4-Bromophenyl-phenylether	4038.927	400	4082	0	98.9	46	125	4045	0.159	30	
4-Chloro-3-methylphenol	3567.773	810	4082	0	87.4	46	125	3443	3.57	30	
4-Chloroaniline	2874.732	810	4082	0	70.4	10	125	2685	6.82	30	
4-Chlorophenyl-phenylether	3496.262	400	4082	0	85.6	47	125	3448	1.40	30	
4-Methylphenol	3236.781	400	4082	0	79.3	41	125	3047	6.05	30	
4-Nitroaniline	3473.788	2000	4082	0	85.1	34	125	3643	4.76	30	
4-Nitrophenol	3580.441	2000	4082	0	87.7	25	138	3589	0.234	30	
Acenaphthene	3468.067	400	4082	0	85.0	46	125	3388	2.34	30	
Acenaphthylene	3636.015	400	4082	0	89.1	44	125	3533	2.87	30	
Anthracene	3783.940	400	4082	0	92.7	53	125	3848	1.68	30	

Qualifiers:

- | | | |
|--|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits |
| S Spike/Surrogate outside of limits due to matrix interference | DO Surrogate Diluted Out | Calculations are based on raw values |



**Advanced Technology
Laboratories, Inc.**

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: CH2M HILL
 Work Order: N008590
 Project: Kinder Morgan - Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_S_PGE

Sample ID: N008590-001C-MSD	SampType: MSD	TestCode: 8270_S_PGE	Units: ug/Kg-dry	Prep Date: 10/1/2012	RunNo: 85788
Client ID: ZZZZZ	Batch ID: 40838	TestNo: EPA 8270C	EPA 3550B	Analysis Date: 10/2/2012	SeqNo: 1452005

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(a)anthracene	3849.730	400	4082	0	94.3	52	125	3973	3.16	30	
Benzo(a)pyrene	3947.802	400	4082	0	96.7	50	125	4016	1.72	30	
Benzo(b)fluoranthene	3932.682	400	4082	0	96.3	45	125	3972	0.997	30	
Benzo(g,h,i)perylene	3953.114	400	4082	0	96.8	38	126	4009	1.41	30	
Benzo(k)fluoranthene	3982.536	400	4082	0	97.6	45	125	4032	1.23	30	
Benzoic acid	919.424	2000	4082	0	22.5	25	125	1174	0	30	JS
Benzyl alcohol	3278.461	810	4082	0	80.3	25	125	3108	5.33	30	
Bis(2-chloroethoxy)methane	3409.224	400	4082	0	83.5	43	125	3123	8.75	30	
Bis(2-chloroethyl)ether	3136.666	400	4082	0	76.8	38	125	2924	7.02	30	
Bis(2-chloroisopropyl)ether	2927.446	400	4082	0	71.7	25	125	2790	4.82	30	
Bis(2-ethylhexyl)phthalate	4698.869	400	4082	0	115	47	127	4781	1.74	30	
Butylbenzylphthalate	4772.014	400	4082	0	117	49	125	4769	0.0574	30	
Chrysene	4588.538	400	4082	0	112	53	125	4700	2.40	30	
Di-n-butylphthalate	4130.461	400	4082	0	101	56	125	4194	1.54	30	
Di-n-octylphthalate	4673.942	400	4082	0	114	41	132	4697	0.497	30	
Dibenz(a,h)anthracene	4054.455	400	4082	0	99.3	41	125	4122	1.65	30	
Dibenzofuran	3490.542	400	4082	0	85.5	51	125	3465	0.741	30	
Diethylphthalate	3876.700	400	4082	0	95.0	50	125	4009	3.35	30	
Dimethylphthalate	3755.744	400	4082	0	92.0	49	125	3798	1.11	30	
Fluoranthene	3606.593	400	4082	0	88.3	54	125	3703	2.65	30	
Fluorene	3507.296	400	4082	0	85.9	49	125	3522	0.421	30	
Hexachlorobenzene	3798.242	400	4082	0	93.0	47	125	3809	0.275	30	
Hexachlorobutadiene	3344.251	810	4082	0	81.9	40	125	3161	5.62	30	
Hexachloroethane	2815.480	400	4082	0	69.0	34	125	2769	1.66	30	
Indeno(1,2,3-cd)pyrene	4052.820	400	4082	0	99.3	38	125	4139	2.11	30	
Isophorone	3824.803	400	4082	0	93.7	43	125	3628	5.28	30	
N-Nitrosodi-n-propylamine	3237.598	400	4082	0	79.3	40	125	3052	5.91	30	
N-Nitrosodiphenylamine	3873.839	400	4082	0	94.9	49	125	3848	0.658	30	
Naphthalene	3132.579	400	4082	0	76.7	40	125	2986	4.80	30	
Nitrobenzene	3053.713	400	4082	0	74.8	41	125	2904	5.02	30	

Qualifiers:

- | | | |
|--|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits |
| S Spike/Surrogate outside of limits due to matrix interference | DO Surrogate Diluted Out | Calculations are based on raw values |



**Advanced Technology
Laboratories, Inc.**

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: CH2M HILL
 Work Order: N008590
 Project: Kinder Morgan - Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_S_PGE

Sample ID: N008590-001C-MSD		SampType: MSD		TestCode: 8270_S_PGE		Units: ug/Kg-dry		Prep Date: 10/1/2012		RunNo: 85788	
Client ID: ZZZZZZ		Batch ID: 40838		TestNo: EPA 8270C EPA 3550B		Analysis Date: 10/2/2012		SeqNo: 1452005			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Pentachlorophenol	3471.336	2000	4082	0	85.0	25	125	3622	4.24	30	
Phenanthrene	3726.323	400	4082	0	91.3	50	125	3786	1.58	30	
Phenol	3139.935	400	4082	0	76.9	39	125	2986	5.04	30	
Pyrene	3507.704	400	4082	0	85.9	46	125	3594	2.42	30	
Surr: 1,2-Dichlorobenzene-d4	2415.837		4082		59.2	25	110		0	30	
Surr: 2,4,6-Tribromophenol	3524.458		4082		86.3	36	126		0	30	
Surr: 2-Chlorophenol-d4	2904.154		4082		71.1	30	100		0	30	
Surr: 2-Fluorobiphenyl	3138.709		4082		76.9	43	125		0	30	
Surr: 2-Fluorophenol	2934.801		4082		71.9	37	125		0	30	
Surr: 4-Terphenyl-d14	3973.954		4082		97.3	32	125		0	30	
Surr: Nitrobenzene-d5	3071.284		4082		75.2	37	125		0	30	
Surr: Phenol-d5	3073.736		4082		75.3	40	125		0	30	

Sample ID: MB-40838		SampType: MBLK		TestCode: 8270_S_PGE		Units: ug/Kg		Prep Date: 10/1/2012		RunNo: 85788	
Client ID: PBS		Batch ID: 40838		TestNo: EPA 8270C EPA 3550B		Analysis Date: 10/2/2012		SeqNo: 1452005			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	ND	330									
1,2-Dichlorobenzene	ND	330									
1,3-Dichlorobenzene	ND	330									
1,4-Dichlorobenzene	ND	330									
2,4,5-Trichlorophenol	ND	330									
2,4,6-Trichlorophenol	ND	330									
2,4-Dichlorophenol	ND	1600									
2,4-Dimethylphenol	ND	330									
2,4-Dinitrophenol	ND	1600									
2,4-Dinitrotoluene	ND	330									
2,6-Dinitrotoluene	ND	330									
2-Chloronaphthalene	ND	330									
2-Chlorophenol	ND	330									

Qualifiers:

- | | | |
|--|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits |
| S Spike/Surrogate outside of limits due to matrix interference | DO Surrogate Diluted Out | Calculations are based on raw values |



**Advanced Technology
Laboratories, Inc.**

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: CH2M HILL
Work Order: N008590
Project: Kinder Morgan - Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_S_PGE

Sample ID: MB-40838	SampType: MBLK	TestCode: 8270_S_PGE	Units: ug/Kg	Prep Date: 10/1/2012	RunNo: 85788						
Client ID: PBS	Batch ID: 40838	TestNo: EPA 8270C	EPA 3550B	Analysis Date: 10/2/2012	SeqNo: 1452006						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Methylnaphthalene	ND	330									
2-Methylphenol	ND	330									
2-Nitroaniline	ND	1600									
2-Nitrophenol	ND	330									
3,3'-Dichlorobenzidine	ND	660									
3-Nitroaniline	ND	1600									
4,6-Dinitro-2-methylphenol	ND	1600									
4-Bromophenyl-phenylether	ND	330									
4-Chloro-3-methylphenol	ND	660									
4-Chloroaniline	ND	660									
4-Chlorophenyl-phenylether	ND	330									
4-Methylphenol	ND	330									
4-Nitroaniline	ND	1600									
4-Nitrophenol	ND	1600									
Acenaphthene	ND	330									
Acenaphthylene	ND	330									
Anthracene	ND	330									
Benzo(a)anthracene	ND	330									
Benzo(a)pyrene	ND	330									
Benzo(b)fluoranthene	ND	330									
Benzo(g,h,i)perylene	ND	330									
Benzo(k)fluoranthene	ND	330									
Benzoic acid	ND	1600									
Benzyl alcohol	ND	660									
Bis(2-chloroethoxy)methane	ND	330									
Bis(2-chloroethyl)ether	ND	330									
Bis(2-chloroisopropyl)ether	ND	330									
Bis(2-ethylhexyl)phthalate	ND	330									
Butylbenzylphthalate	ND	330									
Chrysene	ND	330									

Qualifiers:

- | | | |
|--|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits |
| S Spike/Surrogate outside of limits due to matrix interference | DO Surrogate Diluted Out | Calculations are based on raw values |



**Advanced Technology
Laboratories, Inc.**

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: CH2M HILL
Work Order: N008590
Project: Kinder Morgan - Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_S_PGE

Sample ID: MB-40838	SampType: MBLK	TestCode: 8270_S_PGE	Units: ug/Kg	Prep Date: 10/1/2012	RunNo: 85788
Client ID: PBS	Batch ID: 40838	TestNo: EPA 8270C	EPA 3550B	Analysis Date: 10/2/2012	SeqNo: 1452006

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Di-n-butylphthalate	ND	330									
Di-n-octylphthalate	ND	330									
Dibenz(a,h)anthracene	ND	330									
Dibenzofuran	ND	330									
Diethylphthalate	ND	330									
Dimethylphthalate	ND	330									
Fluoranthene	ND	330									
Fluorene	ND	330									
Hexachlorobenzene	ND	330									
Hexachlorobutadiene	ND	660									
Hexachloroethane	ND	330									
Indeno(1,2,3-cd)pyrene	ND	330									
Isophorone	ND	330									
N-Nitrosodi-n-propylamine	ND	330									
N-Nitrosodiphenylamine	ND	330									
Naphthalene	ND	330									
Nitrobenzene	ND	330									
Pentachlorophenol	ND	1600									
Phenanthrene	ND	330									
Phenol	ND	330									
Pyrene	ND	330									
Surr: 1,2-Dichlorobenzene-d4	2670.333		3330		80.2	25	110				
Surr: 2,4,6-Tribromophenol	2653.333		3330		79.7	36	126				
Surr: 2-Chlorophenol-d4	2713.333		3330		81.5	30	100				
Surr: 2-Fluorobiphenyl	2961.667		3330		88.9	43	125				
Surr: 2-Fluorophenol	2666.000		3330		80.1	37	125				
Surr: 4-Terphenyl-d14	3629.667		3330		109	32	125				
Surr: Nitrobenzene-d5	2983.667		3330		89.6	37	125				
Surr: Phenol-d5	2738.333		3330		82.2	40	125				

Qualifiers:

- | | | |
|--|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits |
| S Spike/Surrogate outside of limits due to matrix interference | DO Surrogate Diluted Out | Calculations are based on raw values |



**Advanced Technology
Laboratories, Inc.**

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: CH2M HILL
Work Order: N008590
Project: Kinder Morgan - Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: PMOIST

Sample ID: MB-R85747	SampType: MBLK	TestCode: PMOIST	Units: wt%	Prep Date:	RunNo: 85747						
Client ID: PBS	Batch ID: R85747	TestNo: D2216		Analysis Date: 9/28/2012	SeqNo: 1450569						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Percent Moisture	ND	0.1000
------------------	----	--------

Sample ID: N008590-002B-DUP	SampType: DUP	TestCode: PMOIST	Units: wt%	Prep Date:	RunNo: 85747						
Client ID: ZZZZZ	Batch ID: R85747	TestNo: D2216		Analysis Date: 9/28/2012	SeqNo: 1450573						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Percent Moisture	3.913	0.1000		3.943	0.764	30
------------------	-------	--------	--	-------	-------	----

Qualifiers:

- | | | |
|--|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits |
| S Spike/Surrogate outside of limits due to matrix interference | DO Surrogate Diluted Out | Calculations are based on raw values |



**Advanced Technology
Laboratories, Inc.**

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CHAIN OF CUSTODY RECORD



3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

P.O.#: _____ Quote #: _____

Logged By: _____ Date: _____

NOTE: Please include your Quote No. to ensure proper pricing of your project.

FOR LABORATORY USE ONLY:

Method of Transport

- Client
- ATL
- FedEx
- OnTrac
- GSO
- Other: _____

Sample Condition Upon Receipt

- 1. CHILLED ^{1.0°C} Y N
- 2. HEADSPACE (VOA) ^{ICE 12#} Y N
- 3. CONTAINER INTACT Y N
- 4. SEALED Y N
- 5. # OF SPLS MATCH COC Y N
- 6. PRESERVED Y N

Client: CH2M HILL Address: 6 Hutton Centre Dr suite 700 TEL: 818 257 3630
 Attn: Dan Jablonski City: Santa Ana State: CA Zip Code: 92707 FAX: _____

Project Name: Kinder Morgan - Norwalk Project #: _____ Sampler: Jeff Ockerman (Signature) _____

Relinquished by: Jeff Ockerman (Signature and Printed Name) Date: 9-27-12 Time: 12:05 Received by: FPDIWA (Signature and Printed Name) Date: 9/27/12 Time: 12:05
 Relinquished by: FPDIWA (Signature and Printed Name) Date: 9/27/12 Time: 12:31 Received by: Mike (Signature and Printed Name) Date: 9/27/12 Time: 12:31
 Relinquished by: FedEx OnTrac (Signature and Printed Name) Date: 9/27/12 Time: _____ Received by: Michael (Signature and Printed Name) Date: 9/28/12 Time: 09:30

I hereby authorize ATL to perform the work indicated below:
 Project Mgr /Submitter: _____
 Send Report To: Attn: Dan Jablonski
 Bill To: _____
 Attn: _____
 Special Instructions/Comments: _____

Sample/Records - Archival & Disposal
 Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.
Storage Fees (applies when storage is requested):
 • Sample : \$2.00 / sample / mo (after 45 days)
 • Records : \$1.00 / ATL workorder / mo (after 1 year)

Circle or Add Analysis(es) Requested	SPECIFY APPROPRIATE MATRIX				TAT	#	Type	PRESERVATION	QA/QC		
	8081A (Pesticides)	8082 (PCB)	8260B (Volatiles)	8270C (BNA)					6010B (Total Metal)	8015B (GRO) / 8021 (BTX)	TITLE 22 / C-AM 17 (6010 / 7000)
<u>EM Solids</u>											
<u>TH Gas Analy + Jet</u>											
<u>Semi VOC</u>											
<u>SEDIMENT</u>											
<u>SOLID</u>											
<u>SOIL</u>											
<u>DRINKING WATER</u>											
<u>GROUND WATER</u>											
<u>WASTEWATER</u>											
<u>STORMWATER</u>											
<u>AQUEOUS</u>											

ITEM	LAB USE ONLY:		Sample Description			
	Batch #:	Lab No.	Sample I.D. / Location	Date	Time	
	<u>R008590-1</u>		<u>Soil IDW-MW</u>	<u>9-27-12</u>	<u>11:45</u>	
	<u>-2</u>		<u>Soil IDW-SB</u>	<u>9-27-12</u>	<u>12:00</u>	

• TAT starts 8 a.m. following day if samples received after 5 p.m.

TAT: A= Overnight ≤ 24 hrs B= Emergency Next workday C= Critical 2 Workdays D= Urgent 3 Workdays E= Routine 7 Workdays

Preservatives: H=HCl N=HNO₃ S=H₂SO₄ C=4°C
 Z=Zn(AC)₂ O=NaOH T=Na₂S₂O₃

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

Advanced Technology Laboratories, Inc.

Please review the checklist below. Any NO signifies non-compliance. Any non-compliance will be noted and must be understood as having an impact on the quality of the data. All tests will be performed as requested regardless of any compliance issues.

If you have any questions or further instruction, please contact our Project Coordinator at (702) 307-2659.

Cooler Received/Opened On: 9/27/2012 Workorder: N008590
 Rep sample Temp (Deg C): 1.8 IR Gun ID: 1
 Temp Blank: Yes No
 Carrier name: ONTRAC
 Last 4 digits of Tracking No.: 1039 Packing Material Used: Carton
 Cooling process: Ice Ice Pack Dry Ice Other None

Sample Receipt Checklist

- | | | | |
|---|---|-----------------------------|---|
| 1. Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| 2. Custody seals intact, signed, dated on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 3. Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 4. Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 5. Sampler's name present in COC? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 6. Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 7. Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 8. Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 9. Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 10. Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 11. All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 12. Temperature of rep sample or Temp Blank within acceptable limit? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 13. Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| 14. Water - pH acceptable upon receipt?
Example: pH > 12 for (CN,S); pH<2 for Metals | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| 15. Did the bottle labels indicate correct preservatives used? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| 16. Were there Non-Conformance issues at login?
Was Client notified? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |

Comments:

Checklist Completed By

MBC

for off
10/1/12

Reviewed By:

[Signature]

Advanced Technology Laboratories, Inc.

WORK ORDER Summary

01-Oct-12

WorkOrder: N008590

Client ID: CH2HI01

Project: Kinder Morgan - Norwalk

QC Level: RTNE

Date Received: 9/28/2012

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N008590-001A	Soil IDW - MW	9/27/2012 11:45:00 AM	10/9/2012	Soil	EPA 8015B	GASOLINE RANGE ORGANICS BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			10/9/2012		EPA 8260B	VOLATILE ORGANIC COMPOUNDS BY GC/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
N008590-001B			10/9/2012		EPA 3050B	SOPREP TOTAL METALS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			10/9/2012		EPA 6010B	ICP METALS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			10/9/2012		EPA 7471	MERCURY PREP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			10/9/2012		EPA 7471A	MERCURY BY COLD VAPOR TECHNIQUE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
N008590-001C			10/9/2012		D2216	PERCENT MOISTURE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			10/9/2012		EPA 3550B	ULTRASONIC EXTRACTION: 8270C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			10/9/2012		EPA 3550B	ULTRASONIC EXTRACTION: EXTRACTABLE FUELS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			10/9/2012		EPA 8015B	DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			10/9/2012		EPA 8015B	JET FUEL BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
N008590-001D			10/9/2012		EPA 8270C	SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			10/9/2012		EPA 3550B	SHAKE-OUT METHOD: EXTRACTABLE FUELS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			10/9/2012		EPA 1030	IGNITABILITY OF SOLIDS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	SUB
N008590-002A	Soil IDW - SB	9/27/2012 12:00:00 PM	10/9/2012		EPA 8015B	GASOLINE RANGE ORGANICS BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			10/9/2012		EPA 8260B	VOLATILE ORGANIC COMPOUNDS BY GC/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
N008590-002B			10/9/2012		EPA 3050B	SOPREP TOTAL METALS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			10/9/2012		EPA 6010B	ICP METALS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			10/9/2012		EPA 7471	MERCURY PREP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS

Advanced Technology Laboratories, Inc.

WORK ORDER Summary

01-Oct-12

WorkOrder: N008590

Client ID: CH2HI01

Project: Kinder Morgan - Norwalk

QC Level: RTNE

Date Received: 9/28/2012

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N008590-002B	Soil IDW - SB	9/27/2012 12:00:00 PM	10/9/2012	Soil	EPA 7471A	MERCURY BY COLD VAPOR TECHNIQUE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			10/9/2012		D2216	PERCENT MOISTURE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
N008590-002C			10/9/2012		EPA 3550B	ULTRASONIC EXTRACTION: 8270C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			10/9/2012		EPA 3550B	ULTRASONIC EXTRACTION: EXTRACTABLE FUELS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			10/9/2012		EPA 8015B	DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			10/9/2012		EPA 8015B	JET FUEL BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			10/9/2012		EPA 8270C	SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			10/9/2012		EPA 3550B	SHAKE-OUT METHOD: EXTRACTABLE FUELS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
N008590-002D			10/9/2012		EPA 1030	IGNITABILITY OF SOLIDS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	SUB
N008590-003A	FOLDER		10/9/2012		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB



Advanced Technology Laboratories

3151-3153 W Post Rd., Las Vegas, NV 89118

www.atlglobal.com

TEL: 7023072659

FAX: 7023072691

CHAIN-OF-CUSTODY RECORD

QC Level: RTNE

Subcontractor:

Associated Laboratories
806 N. Batavia
Orange, CA 92868

TEL: (714) 771-6900
FAX: (714) 538-1209
Acct #:

Field Sampler: Jeff Ockerman

28-Sep-12

Sample ID	Matrix	Date Collected	Bottle Type	Requested Tests		
				EPA 1030		
N008590-001D / Soil IDW - MW	Soil	9/27/2012 11:45:00 AM	4OZG	1		
N008590-002D / Soil IDW - SB	Soil	9/27/2012 12:00:00 PM	4OZG	1		

General Comments: Please email sample receipt acknowledgement to the PM.

Please use PO#: N008590

Please fax results by: Normal TAT

Relinquished by: _____	Date/Time	Received by: _____	Date/Time
Relinquished by: _____	9/28/12 4:70	Received by: _____	_____



800-334-5000

Call For A Pickup!

FROM (Company)

ENVIRO TREATMENT & TECHNOLOGY*

Street Address

3875 WALNUT AVE SUITE

City

SIGNAL HILL

State

Zip Code (Required)

Phone Number

CA 90755 562-489-4045

PLEASE PRINT IN BLOCK LETTERS with Blue / Black Ink

TO (Company) WE CANNOT DELIVER TO A P.O. BOX

ATL LAS VEGAS

Street Address

3151 WYPOST ROAD

Suite #

City

LAS VEGAS

State

Zip Code (Required)

Phone Number

NV 89118 702-307-2659

Recipient's Name

MARLON CARTIN

Shipper's Ref. #

CH2M HILL

Account Number



B10246441039

Date

07/27/02



B10246441039

Service Options	Billing Information	Weight
<input checked="" type="checkbox"/> SUNRISE - BY 10:30 AM* <input type="checkbox"/> SUNRISE GOLD - BY 8:00 AM* <input type="checkbox"/> HEAVYWEIGHT** <input type="checkbox"/> Saturday Delivery - Extra Charge (see Service Guide for details) <input type="checkbox"/> HOLD FOR PICKUP <input checked="" type="checkbox"/> This shipment requires a delivery signature <input type="checkbox"/> Declared Value \$ (maximum \$25,000) <input type="checkbox"/> C.O.D. Amount \$, Limit \$10,000 (affix C.O.D. tag to package)	<input type="checkbox"/> Bill Shipper's Account <input checked="" type="checkbox"/> Bill Other Acct # <input type="checkbox"/> Secured Payment (Money Order or Certified Check) <input type="checkbox"/> Unsecured Payment (Company Check or Personal Check)	<input type="checkbox"/> 8 oz. Letter or <input type="checkbox"/> Weight lbs. (Subject to verification) Dim weight charge if greater than actual weight: L in. X W in. X H in. +225 = _____
Driver # 3215 Pick-up Time 2:30 Shipper's Signature <i>[Signature]</i>	Driver's Initials F Shipper's Name DANIEL	



Associated Laboratories

806 N. Batavia - Orange, CA 92868
Tel (714)771-6900 Fax (714)538-1209
www.associatedlabs.com
Info@associatedlabs.com



Client: Advanced Technology Labs
Address: 3151-3153 W. Post Road
Las Vegas, NV 89118
Attn: Marlon Cartin

Lab Request: 311310
Report Date: 10/05/2012
Date Received: 09/29/2012
Client ID: 12257

Comments: P.O. #N008590

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods. Methods accredited by NELAC are indicated on the report. This cover letter is an integral part of the final report.

<u>Sample #</u>	<u>Client Sample ID</u>
311310-001	N008590-001D/Soil IDW-MW
311310-002	N008590-002D/Soil IDW-SB

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,

Edward S. Behare, Ph.D.
Lab Director

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 45 days from date reported.

The reports of the Associated Laboratories are confidential property of our clients and may not be reproduced or used for publication in part or in full without our written permission. This is for the mutual protection of the public, our clients, and ourselves.

TESTING & CONSULTING
Chemical
Microbiological
Environmental

Matrix: Solid	Client: Advanced Technology Labs	Collector: Client
Sampled: 09/27/2012 11:45	Site:	Notes:
Sample #: <u>311310-001</u>	Client Sample #: N008590-001D/Soil IDW-MW	

Analyte	Result	DF	RDL	Units	Analyzed	By	Notes
Method: EPA 1030 <i>NELAC</i>	Prep Method: Method		QCBatchID:				
Ignitability	Pass	1		mm/sec	10/01/12	hanhkhong	

Matrix: Solid	Client: Advanced Technology Labs	Collector: Client
Sampled: 09/27/2012 12:00	Site:	Notes:
Sample #: <u>311310-002</u>	Client Sample #: N008590-002D/Soil IDW-SB	

Analyte	Result	DF	RDL	Units	Analyzed	By	Notes
Method: EPA 1030 <i>NELAC</i>	Prep Method: Method		QCBatchID:				
Ignitability	Pass	1		mm/sec	10/01/12	hanhkhong	

ND = Not Detected or < RDL

RDL = Reporting Detection Limit DF = Dilution Factor



311310



Advanced Technology Laboratories

3151-3153 W Post Rd., Las Vegas, NV 89118
www.atlglobal.com
TEL: 7023072659 FAX: 7023072691

CHAIN-OF-CUSTODY RECORD

QC Level: RTNE

Subcontractor:

Associated Laboratories
806 N. Batavia
Orange, CA 92868

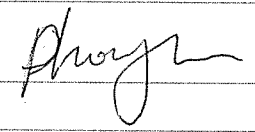
TEL: (714) 771-6900
FAX: (714) 538-1209
Acct #:

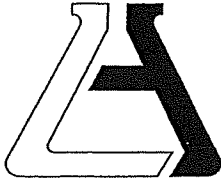
Field Sampler: Jeff Ockerman

28-Sep-12

Sample ID	Matrix	Date Collected	Bottle Type	Requested Tests		
				EPA 1030		
N008590-001D / Soil IDW - MW	Soil	9/27/2012 11:45:00 AM	4OZG	1		
N008590-002D / Soil IDW - SB	Soil	9/27/2012 12:00:00 PM	4OZG	1		

General Comments: Please email sample receipt acknowledgement to the PM.
Please use PO#: N008590 Please fax results by: Normal TAT

Relinquished by: _____	Date/Time: 9/28/12 17:00	Received by: 	Date/Time: 9/28/12 10:18
Relinquished by: _____		Received by: _____	



ASSOCIATED LABORATORIES

806 North Batavia – Orange, California 92868 – 714-771-6900

FAX 714-538-1209

SAMPLE ACCEPTANCE CHECKLIST

Section 1
 Client: ATL Project: _____
 Date Received: 9-29-12 Sampler's Name: Yes No
 Sample(s) received in cooler: Yes No (Skip Section 2)
 Shipping Information: _____

Section 2
 Was the cooler packed with: _____ Ice X Ice Packs _____ Bubble Wrap _____ Styrofoam
 _____ Paper _____ None _____ Other _____
 Cooler or box temperature: 20c
 (Acceptance range is 0 to 6 Deg. C.)

Section 3	YES	NO	N/A
Was a COC received?	<input checked="" type="checkbox"/>		
Is it properly completed? (IDs, sampling date and time, signature, test)	<input checked="" type="checkbox"/>		
Were custody seals present?			<input checked="" type="checkbox"/>
If Yes – were they intact?			<input checked="" type="checkbox"/>
Were all samples sealed in plastic bags?	<input checked="" type="checkbox"/>		
Did all samples arrive intact? If no, indicate below.	<input checked="" type="checkbox"/>		
Did all bottle labels agree with COC? (ID, dates and times)	<input checked="" type="checkbox"/>		
Were correct containers used for the tests required?	<input checked="" type="checkbox"/>		
Was a sufficient amount of sample sent for tests indicated?	<input checked="" type="checkbox"/>		
Was there headspace in VOA vials?			<input checked="" type="checkbox"/>
Were the containers labeled with correct preservatives?			<input checked="" type="checkbox"/>
Was total residual chlorine measured (Fish Bioassay samples only)? *			<input checked="" type="checkbox"/>

*: If the answer is no, please inform Fish Bioassay Dept. immediately.

Section 4
 Explanations/Comments

Section 5
 Was Project Manager notified of discrepancies: Y / N N/A

Completed By: Phong L Date: 9-29-12

Attachment B

Soil Boring Logs



PROJECT NUMBER
660221.PM.01

BORING NUMBER
SB - 10

SHEET 1 OF 1

SOIL BORING LOG

PROJECT : SFPP Norwalk Pump Station

LOCATION : SB-10 (1782938.90N, 6540080.80E) DATE: 8/20/15

WEATHER: Sunny, 90 deg F, light wind

DRILLING CONTRACTOR :

CH2M HILL

DRILLING METHOD AND EQUIPMENT USED : SST Hand Auger 4" Bucket; MiniRae PID; Trimble Handheld GPS

WATER LEVELS

n/a

START : 0' 0"

END : 10' 0"

LOGGER : A. Barnhart

DEPTH BELOW SURFACE (FT)	LAB SAMPLE (FT)		STANDARD PENETRATION TEST RESULTS 6"-6"-6"-6" (N)	CORE DESCRIPTION	COMMENTS		
	SAMPLE INTERVAL (FT)	#/TYPE			DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION.	OVM (ppm): Breathing Zone Above Hole	
1				Road base/gravel with fine to medium grained sand.	0.0	0.0	
2					0.0	0.0	
3					0.0	0.0	
4					0.0	0.0	
5	SB-10-5'_082015 4.5-5.0	Hand auger		Sandy silt (ML), light yellowish brown (2.5Y 6/3)	0.0	0.0	
6	5.0-5.5 SB-10-5'D_082015	Hand auger		dry, 60% fines, 40% fine sand, no staining or odor.	0.0	0.0	
7					0.0	0.0	
8					0.0	0.0	
9					0.0	0.0	
10	SB-10-10'_082015 9.5-10.0	Hand auger		Silty sand (SM), light yellowish brown (2.5Y 6/3)	0.0	0.0	
				dry, 80% fine sand, 20% fines, no staining or odor.			
				Refusal at 8' 9", stepped over 1' south for 10' sample			

Sampler Signature: _____

Date: _____



PROJECT NUMBER
660221.PM.01

BORING NUMBER
SB - 11

SHEET 1 OF 1

SOIL BORING LOG

PROJECT : SFPP Norwalk Pump Station LOCATION : SB-11 (1782903.12N, 6540282.04E) DATE: 8/20/15

WEATHER: Sunny, 90 deg F, light wind DRILLING CONTRACTOR : CH2M HILL

DRILLING METHOD AND EQUIPMENT USED : SST Hand Auger 4" Bucket; MiniRae PID; Trimble Handheld GPS

WATER LEVELS n/a START : 0' 0" END : 5' 9" LOGGER : A. Barnhart

DEPTH BELOW SURFACE (FT)	LAB SAMPLE (FT)		STANDARD PENETRATION TEST RESULTS 6"-6"-6"-6" (N)	CORE DESCRIPTION	COMMENTS	
	SAMPLE INTERVAL (FT)	#/TYPE			DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION.	
					OVM (ppm): Breathing Zone Above Hole	
1_				Road base/gravel with fine to medium grained sand. Some asphalt present.	0.0	0.0
2_					0.0	0.0
3_					0.0	0.0
4_					0.0	0.0
5_	SB-11-5'_082015 4.5-5.0	Hand auger		Silty sand (SM), olive brown (2.5Y 4/4) dry, 70% fine sand, 30% fines, no staining or odor.	0.0	0.0
6_	SB-11-6'_082015 5.5-6.0	Hand auger		Silty sand (SM), light olive brown (2.5Y 5/3) dry, 60% fine sand, 40% fines, no staining or odor.	0.0	0.0
7_				Refusal at 5' 9"		
8_				Presence of asphalt noted in auger buckets; large pieces were removed prior to transferring soil to sample jars.		
9_						
10_						

Sampler Signature: _____

Date: _____



PROJECT NUMBER
660221.PM.01

BORING NUMBER
SB - 12

SHEET 1 OF 1

SOIL BORING LOG

PROJECT : SFPP Norwalk Pump Station

LOCATION : SB-12 (1782911.99N, 6541227.63E) DATE: 8/20/15

WEATHER: Sunny, 90 deg F, light wind

DRILLING CONTRACTOR :

CH2M HILL

DRILLING METHOD AND EQUIPMENT USED : SST Hand Auger 4" Bucket; MiniRae PID; Trimble Handheld GPS

WATER LEVELS

n/a

START : 0' 0"

END : 10' 0"

LOGGER : A. Barnhart

DEPTH BELOW SURFACE (FT)	LAB SAMPLE (FT)		STANDARD PENETRATION TEST RESULTS 6"-6"-6"-6" (N)	CORE DESCRIPTION	COMMENTS		
	SAMPLE INTERVAL (FT)	#/TYPE			SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION.	
						OVM (ppm): Breathing Zone Above Hole	
1_					0.0	0.0	
2_					0.0	0.0	
3_					0.0	0.0	
4_					0.0	0.0	
5_	SB-12-5'_082015	4.5-5.0	Hand auger	Poorly graded sand (SP), light olive brown (2.5Y 5/4) dry, 100% fine sand, no staining or odor.	0.0	0.0	
6_					0.0	0.0	
7_					0.0	0.0	
8_					0.0	0.0	
9_					0.0	0.0	
10_	SB-12-10'_082015	9.5-10.0	Hand auger	Lean clay (CL), olive gray (5Y 4/2) dry, greater than 95% fines, trace fine sand, low plasticity, no staining or odor.	0.0	0.0	

Sampler Signature: _____

Date: _____

Attachment C
Laboratory Analytical Report
2015 Soil Boring Investigation

September 09, 2015

Dan Jablonski
CH2MHill
1000 Wilshire Blvd.
Los Angeles, CA 90017

CA-ELAP No.: 2676
NV Cert. No.: NV-00922

TEL:
FAX:

Workorder No.: N016679

RE: SFPP - Norwalk Site

Attention: Dan Jablonski

Enclosed are the results for sample(s) received on August 21, 2015 by ASSET Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (702) 307-2659 if I can be of further assistance to your company.

Sincerely,



Glen Gesmundo
QA Manager

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories - Las Vegas.



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11060 Artesia Blvd., Ste C, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
Project: SFPP - Norwalk Site
Lab Order: N016679

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

Samples were received intact with proper chain of custody documentation.

Cooler temperature and sample preservation were verified upon receipt of samples if applicable.

Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.

Samples were analyzed within method holding time.

Results were J-Flag. "J" is used to flag those results that are between the PQL (Practical Quantitation Limit) and the calculated MDL (Method Detection Limit). Results that are "J" Flagged are estimated values since it becomes difficult to accurately quantitate the analyte near the MDL.

Analytical Comments for EPA 8082-Soil:

Surrogate Tetrachloro-m-xylene was outside recovery limit on sample N016679-004 possibly due to matrix interference. The other surrogate Decachlorobiphenyl was recovered within control limits.

RPD and Matrix Spike(MS) / Matrix Spike Duplicate(MSD) are outside criteria on QC samples N016679-001A-MS and N016679-001A-MSD possibly due to matrix interference ; however, the analytical batch was validated by the Laboratory Control Sample (LCS).

Surrogate Tetrachloro-m-xylene was outside recovery limit on QC sample N016679-001A-MSD possibly due to matrix interference. The other surrogate Decachlorobiphenyl was recovered within control limits.

Analytical Comments for EPA 8082-Water:

Matrix Spike(MS) and Matrix Spike Duplicate(MSD) were not performed due to limited sample. LCS/LCSD was used instead to measure precision.

Analytical Comments for EPA 8270C_SIM-Soil:

Dilution was necessary on samples N016679-004, N016679-005 due to matrix. The analysis of sample



CLIENT: CH2MHill
Project: SFPP - Norwalk Site
Lab Order: N016679

CASE NARRATIVE

N016679-005 required a dilution such that the surrogate recovery calculation does not provide useful information. The associated blank spike recovery was acceptable.

Further dilution was necessary on some analytes for samples N016679-004 and N016679-005 due to associated internal standard not meeting method criteria possibly due to matrix interference. Samples were analyzed with further dilution and internal standard met method criteria. Affected analytes for this failed internal standard were reported at dilution that meet internal standard recovery limit.

Some surrogates were outside recovery limit on samples N016679-002, N016679-004 and N016679-005 possibly due to matrix interference. The other surrogates were recovered within control limits.

RPD and Matrix Spike(MS) / Matrix Spike Duplicate(MSD) are outside criteria for some analytes on QC samples N016679-002A-MS and N016679-002A-MSD possibly due to matrix interference ; however, the analytical batch was validated by the Laboratory Control Sample (LCS).



CLIENT: CH2MHill
Project: SFPP - Norwalk Site
Lab Order: N016679
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N016679-001A	SB-10-5'-082015	Soil	8/20/2015 9:00:00 AM	8/21/2015	
N016679-002A	SB-10-5'D-082015	Soil	8/20/2015 9:05:00 AM	8/21/2015	
N016679-003A	SB-10-10'-082015	Soil	8/20/2015 10:20:00 AM	8/21/2015	
N016679-004A	SB-11-5'-082015	Soil	8/20/2015 11:55:00 AM	8/21/2015	
N016679-005A	SB-11-6'-082015	Soil	8/20/2015 12:10:00 PM	8/21/2015	
N016679-006A	SB-12-5'-082015	Soil	8/20/2015 1:30:00 PM	8/21/2015	
N016679-007A	SB-12-10'-082015	Soil	8/20/2015 2:20:00 PM	8/21/2015	
N016679-008A	SB-12-10'N-082015	Water	8/20/2015 2:40:00 PM	8/21/2015	



ASSET Laboratories

ANALYTICAL RESULTS

Print Date: 09-Sep-15

CLIENT: CH2MHill
Lab Order: N016679
Project: SFPP - Norwalk Site
Lab ID: N016679-001

Client Sample ID: SB-10-5'-082015
Collection Date: 8/20/2015 9:00:00 AM
Matrix: SOIL

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
----------	--------	-----	-----	------	-------	----	---------------

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM

EPA 3550B

EPA 8270CSIM

RunID: MS3_150901A	QC Batch: 51298			PrepDate	8/27/2015	Analyst: JAA
1-Methylnaphthalene	ND	1.0	5.0	ug/Kg	1	9/1/2015 06:35 PM
2-Methylnaphthalene	ND	1.7	5.0	ug/Kg	1	9/1/2015 06:35 PM
Acenaphthene	ND	0.51	5.0	ug/Kg	1	9/1/2015 06:35 PM
Acenaphthylene	ND	0.51	5.0	ug/Kg	1	9/1/2015 06:35 PM
Anthracene	ND	0.51	5.0	ug/Kg	1	9/1/2015 06:35 PM
Benzo(a)anthracene	ND	0.51	5.0	ug/Kg	1	9/1/2015 06:35 PM
Benzo(a)pyrene	ND	0.56	5.0	ug/Kg	1	9/1/2015 06:35 PM
Benzo(b)fluoranthene	ND	0.56	5.0	ug/Kg	1	9/1/2015 06:35 PM
Benzo(g,h,i)perylene	ND	0.51	5.0	ug/Kg	1	9/1/2015 06:35 PM
Benzo(k)fluoranthene	ND	0.72	5.0	ug/Kg	1	9/1/2015 06:35 PM
Chrysene	ND	0.51	5.0	ug/Kg	1	9/1/2015 06:35 PM
Dibenz(a,h)anthracene	ND	0.40	5.0	ug/Kg	1	9/1/2015 06:35 PM
Fluoranthene	ND	0.79	5.0	ug/Kg	1	9/1/2015 06:35 PM
Fluorene	ND	0.60	5.0	ug/Kg	1	9/1/2015 06:35 PM
Indeno(1,2,3-cd)pyrene	ND	0.60	5.0	ug/Kg	1	9/1/2015 06:35 PM
Naphthalene	ND	1.2	5.0	ug/Kg	1	9/1/2015 06:35 PM
Phenanthrene	ND	0.72	5.0	ug/Kg	1	9/1/2015 06:35 PM
Pyrene	ND	0.60	5.0	ug/Kg	1	9/1/2015 06:35 PM
Surr: 1,2-Dichlorobenzene-d4	36.0	0	25-110	%REC	1	9/1/2015 06:35 PM
Surr: 2-Fluorobiphenyl	40.0	0	34-135	%REC	1	9/1/2015 06:35 PM
Surr: 4-Terphenyl-d14	56.0	0	14-129	%REC	1	9/1/2015 06:35 PM
Surr: Nitrobenzene-d5	42.0	0	25-135	%REC	1	9/1/2015 06:35 PM

PCBS BY GC/ECD

EPA 3550B

EPA 8082

RunID: GC8_150824B	QC Batch: 51258			PrepDate	8/24/2015	Analyst: MDM
Aroclor 1016	ND	5.0	16	ug/Kg	1	8/24/2015 11:20 PM
Aroclor 1221	ND	5.4	33	ug/Kg	1	8/24/2015 11:20 PM
Aroclor 1232	ND	11	16	ug/Kg	1	8/24/2015 11:20 PM
Aroclor 1242	ND	8.1	16	ug/Kg	1	8/24/2015 11:20 PM
Aroclor 1248	ND	2.8	16	ug/Kg	1	8/24/2015 11:20 PM
Aroclor 1254	ND	4.9	16	ug/Kg	1	8/24/2015 11:20 PM
Aroclor 1260	ND	3.2	16	ug/Kg	1	8/24/2015 11:20 PM
Surr: Decachlorobiphenyl	80.8	0	26-125	%REC	1	8/24/2015 11:20 PM
Surr: Tetrachloro-m-xylene	61.6	0	48-121	%REC	1	8/24/2015 11:20 PM

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
Results are wet unless otherwise specified

E Value above quantitation range
J Analyte detected below quantitation limits
S Spike/Surrogate outside of limits due to matrix interference
DO Surrogate Diluted Out



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11060 Artesia Blvd., Ste C, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: 09-Sep-15

CLIENT: CH2MHill
Lab Order: N016679
Project: SFPP - Norwalk Site
Lab ID: N016679-002

Client Sample ID: SB-10-5'D-082015
Collection Date: 8/20/2015 9:05:00 AM
Matrix: SOIL

Analyses Result MDL PQL Qual Units DF Date Analyzed

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM

EPA 3550B

EPA 8270CSIM

RunID: MS3_150902A	QC Batch: 51298	PrepDate	8/27/2015	Analyst: JAA		
1-Methylnaphthalene	ND	1.0	5.0	ug/Kg	1	9/2/2015 10:54 AM
2-Methylnaphthalene	ND	1.7	5.0	ug/Kg	1	9/2/2015 10:54 AM
Acenaphthene	4.0	0.51	5.0	J ug/Kg	1	9/2/2015 10:54 AM
Acenaphthylene	ND	0.51	5.0	ug/Kg	1	9/2/2015 10:54 AM
Anthracene	19	0.51	5.0	ug/Kg	1	9/2/2015 10:54 AM
Benzo(a)anthracene	55	0.51	5.0	ug/Kg	1	9/2/2015 10:54 AM
Benzo(a)pyrene	27	0.56	5.0	ug/Kg	1	9/2/2015 10:54 AM
Benzo(b)fluoranthene	40	0.56	5.0	ug/Kg	1	9/2/2015 10:54 AM
Benzo(g,h,i)perylene	6.3	0.51	5.0	ug/Kg	1	9/2/2015 10:54 AM
Benzo(k)fluoranthene	14	0.72	5.0	ug/Kg	1	9/2/2015 10:54 AM
Chrysene	49	0.51	5.0	ug/Kg	1	9/2/2015 10:54 AM
Dibenz(a,h)anthracene	ND	0.40	5.0	ug/Kg	1	9/2/2015 10:54 AM
Fluoranthene	140	0.79	5.0	ug/Kg	1	9/2/2015 10:54 AM
Fluorene	2.3	0.60	5.0	J ug/Kg	1	9/2/2015 10:54 AM
Indeno(1,2,3-cd)pyrene	5.7	0.60	5.0	ug/Kg	1	9/2/2015 10:54 AM
Naphthalene	ND	1.2	5.0	ug/Kg	1	9/2/2015 10:54 AM
Phenanthrene	76	0.72	5.0	ug/Kg	1	9/2/2015 10:54 AM
Pyrene	130	0.60	5.0	ug/Kg	1	9/2/2015 10:54 AM
Surr: 1,2-Dichlorobenzene-d4	24.0	0	25-110	S %REC	1	9/2/2015 10:54 AM
Surr: 2-Fluorobiphenyl	34.0	0	34-135	%REC	1	9/2/2015 10:54 AM
Surr: 4-Terphenyl-d14	44.0	0	14-129	%REC	1	9/2/2015 10:54 AM
Surr: Nitrobenzene-d5	30.0	0	25-135	%REC	1	9/2/2015 10:54 AM

PCBS BY GC/ECD

EPA 3550B

EPA 8082

RunID: GC8_150824B	QC Batch: 51258	PrepDate	8/24/2015	Analyst: MDM		
Aroclor 1016	ND	5.0	17	ug/Kg	1	8/24/2015 11:43 PM
Aroclor 1221	ND	5.4	33	ug/Kg	1	8/24/2015 11:43 PM
Aroclor 1232	ND	11	17	ug/Kg	1	8/24/2015 11:43 PM
Aroclor 1242	ND	8.1	17	ug/Kg	1	8/24/2015 11:43 PM
Aroclor 1248	ND	2.8	17	ug/Kg	1	8/24/2015 11:43 PM
Aroclor 1254	ND	5.0	17	ug/Kg	1	8/24/2015 11:43 PM
Aroclor 1260	ND	3.2	17	ug/Kg	1	8/24/2015 11:43 PM
Surr: Decachlorobiphenyl	68.7	0	26-125	%REC	1	8/24/2015 11:43 PM
Surr: Tetrachloro-m-xylene	56.0	0	48-121	%REC	1	8/24/2015 11:43 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit S Spike/Surrogate outside of limits due to matrix interference
Results are wet unless otherwise specified DO Surrogate Diluted Out



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11060 Artesia Blvd., Ste C, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: 09-Sep-15

CLIENT: CH2MHill
Lab Order: N016679
Project: SFPP - Norwalk Site
Lab ID: N016679-003

Client Sample ID: SB-10-10'-082015
Collection Date: 8/20/2015 10:20:00 AM
Matrix: SOIL

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
----------	--------	-----	-----	------	-------	----	---------------

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM

EPA 3550B

EPA 8270CSIM

RunID: MS3_150901A	QC Batch: 51298			PrepDate	8/27/2015	Analyst: JAA	
1-Methylnaphthalene	ND	1.0	5.0		ug/Kg	1	9/1/2015 08:00 PM
2-Methylnaphthalene	ND	1.7	5.0		ug/Kg	1	9/1/2015 08:00 PM
Acenaphthene	ND	0.51	5.0		ug/Kg	1	9/1/2015 08:00 PM
Acenaphthylene	ND	0.51	5.0		ug/Kg	1	9/1/2015 08:00 PM
Anthracene	ND	0.51	5.0		ug/Kg	1	9/1/2015 08:00 PM
Benzo(a)anthracene	ND	0.51	5.0		ug/Kg	1	9/1/2015 08:00 PM
Benzo(a)pyrene	ND	0.56	5.0		ug/Kg	1	9/1/2015 08:00 PM
Benzo(b)fluoranthene	ND	0.56	5.0		ug/Kg	1	9/1/2015 08:00 PM
Benzo(g,h,i)perylene	ND	0.51	5.0		ug/Kg	1	9/1/2015 08:00 PM
Benzo(k)fluoranthene	ND	0.72	5.0		ug/Kg	1	9/1/2015 08:00 PM
Chrysene	ND	0.51	5.0		ug/Kg	1	9/1/2015 08:00 PM
Dibenz(a,h)anthracene	ND	0.40	5.0		ug/Kg	1	9/1/2015 08:00 PM
Fluoranthene	1.3	0.79	5.0	J	ug/Kg	1	9/1/2015 08:00 PM
Fluorene	ND	0.60	5.0		ug/Kg	1	9/1/2015 08:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.60	5.0		ug/Kg	1	9/1/2015 08:00 PM
Naphthalene	ND	1.2	5.0		ug/Kg	1	9/1/2015 08:00 PM
Phenanthrene	ND	0.72	5.0		ug/Kg	1	9/1/2015 08:00 PM
Pyrene	1.3	0.60	5.0	J	ug/Kg	1	9/1/2015 08:00 PM
Surr: 1,2-Dichlorobenzene-d4	38.0	0	25-110		%REC	1	9/1/2015 08:00 PM
Surr: 2-Fluorobiphenyl	43.0	0	34-135		%REC	1	9/1/2015 08:00 PM
Surr: 4-Terphenyl-d14	59.0	0	14-129		%REC	1	9/1/2015 08:00 PM
Surr: Nitrobenzene-d5	47.0	0	25-135		%REC	1	9/1/2015 08:00 PM

PCBS BY GC/ECD

EPA 3550B

EPA 8082

RunID: GC8_150824B	QC Batch: 51258			PrepDate	8/24/2015	Analyst: MDM	
Aroclor 1016	ND	5.0	16		ug/Kg	1	8/25/2015 12:05 AM
Aroclor 1221	ND	5.4	33		ug/Kg	1	8/25/2015 12:05 AM
Aroclor 1232	ND	11	16		ug/Kg	1	8/25/2015 12:05 AM
Aroclor 1242	ND	8.1	16		ug/Kg	1	8/25/2015 12:05 AM
Aroclor 1248	ND	2.8	16		ug/Kg	1	8/25/2015 12:05 AM
Aroclor 1254	ND	4.9	16		ug/Kg	1	8/25/2015 12:05 AM
Aroclor 1260	ND	3.2	16		ug/Kg	1	8/25/2015 12:05 AM
Surr: Decachlorobiphenyl	70.1	0	26-125		%REC	1	8/25/2015 12:05 AM
Surr: Tetrachloro-m-xylene	59.7	0	48-121		%REC	1	8/25/2015 12:05 AM

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
Results are wet unless otherwise specified
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike/Surrogate outside of limits due to matrix interference
DO Surrogate Diluted Out



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11060 Artesia Blvd., Ste C, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: 09-Sep-15

CLIENT: CH2MHill
Lab Order: N016679
Project: SFPP - Norwalk Site
Lab ID: N016679-004

Client Sample ID: SB-11-5'-082015
Collection Date: 8/20/2015 11:55:00 AM
Matrix: SOIL

Analyses Result MDL PQL Qual Units DF Date Analyzed

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM

EPA 3550B

EPA 8270CSIM

RunID: MS3_150902A	QC Batch: 51298	PrepDate	8/27/2015	Analyst: JAA		
1-Methylnaphthalene	240	1.0	5.0	ug/Kg	1	9/2/2015 12:18 PM
2-Methylnaphthalene	420	84	250	ug/Kg	50	9/2/2015 01:45 PM
Acenaphthene	480	25	250	ug/Kg	50	9/2/2015 01:45 PM
Acenaphthylene	33	0.51	5.0	ug/Kg	1	9/2/2015 12:18 PM
Anthracene	2000	25	250	ug/Kg	50	9/2/2015 01:45 PM
Benzo(a)anthracene	4900	25	250	ug/Kg	50	9/2/2015 01:45 PM
Benzo(a)pyrene	4700	28	250	ug/Kg	50	9/2/2015 01:45 PM
Benzo(b)fluoranthene	5400	28	250	ug/Kg	50	9/2/2015 01:45 PM
Benzo(g,h,i)perylene	2200	25	250	ug/Kg	50	9/2/2015 01:45 PM
Benzo(k)fluoranthene	2000	36	250	ug/Kg	50	9/2/2015 01:45 PM
Chrysene	5000	25	250	ug/Kg	50	9/2/2015 01:45 PM
Dibenz(a,h)anthracene	ND	20	250	ug/Kg	50	9/2/2015 01:45 PM
Fluoranthene	9000	39	250	ug/Kg	50	9/2/2015 01:45 PM
Fluorene	350	30	250	ug/Kg	50	9/2/2015 01:45 PM
Indeno(1,2,3-cd)pyrene	2100	30	250	ug/Kg	50	9/2/2015 01:45 PM
Naphthalene	380	58	250	ug/Kg	50	9/2/2015 01:45 PM
Phenanthrene	8000	36	250	ug/Kg	50	9/2/2015 01:45 PM
Pyrene	9400	30	250	ug/Kg	50	9/2/2015 01:45 PM
Surr: 1,2-Dichlorobenzene-d4	36.0	0	25-110	%REC	1	9/2/2015 12:18 PM
Surr: 2-Fluorobiphenyl	41.0	0	34-135	%REC	1	9/2/2015 12:18 PM
Surr: 4-Terphenyl-d14	205	0	14-129	S %REC	1	9/2/2015 12:18 PM
Surr: Nitrobenzene-d5	61.0	0	25-135	%REC	1	9/2/2015 12:18 PM

PCBS BY GC/ECD

EPA 3550B

EPA 8082

RunID: GC8_150824B	QC Batch: 51258	PrepDate	8/24/2015	Analyst: MDM		
Aroclor 1016	ND	5.0	17	ug/Kg	1	8/25/2015 12:28 AM
Aroclor 1221	ND	5.4	33	ug/Kg	1	8/25/2015 12:28 AM
Aroclor 1232	ND	11	17	ug/Kg	1	8/25/2015 12:28 AM
Aroclor 1242	ND	8.1	17	ug/Kg	1	8/25/2015 12:28 AM
Aroclor 1248	ND	2.8	17	ug/Kg	1	8/25/2015 12:28 AM
Aroclor 1254	ND	5.0	17	ug/Kg	1	8/25/2015 12:28 AM
Aroclor 1260	ND	3.2	17	ug/Kg	1	8/25/2015 12:28 AM
Surr: Decachlorobiphenyl	56.1	0	26-125	%REC	1	8/25/2015 12:28 AM
Surr: Tetrachloro-m-xylene	44.4	0	48-121	S %REC	1	8/25/2015 12:28 AM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit S Spike/Surrogate outside of limits due to matrix interference
Results are wet unless otherwise specified DO Surrogate Diluted Out



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11060 Artesia Blvd., Ste C, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: 09-Sep-15

CLIENT: CH2MHill
Lab Order: N016679
Project: SFPP - Norwalk Site
Lab ID: N016679-005

Client Sample ID: SB-11-6'-082015
Collection Date: 8/20/2015 12:10:00 PM
Matrix: SOIL

Analyses Result MDL PQL Qual Units DF Date Analyzed

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM

EPA 3550B

EPA 8270CSIM

RunID: MS3_150902A	QC Batch: 51298	PrepDate	8/27/2015	Analyst: JAA		
1-Methylnaphthalene	80	1.0	5.0	ug/Kg	1	9/2/2015 12:46 PM
2-Methylnaphthalene	140	1.7	5.0	ug/Kg	1	9/2/2015 12:46 PM
Acenaphthene	150	0.51	5.0	ug/Kg	1	9/2/2015 12:46 PM
Acenaphthylene	7.7	0.51	5.0	ug/Kg	1	9/2/2015 12:46 PM
Anthracene	700	51	500	ug/Kg	100	9/1/2015 09:25 PM
Benzo(a)anthracene	4100	51	500	ug/Kg	100	9/1/2015 09:25 PM
Benzo(a)pyrene	2900	56	500	ug/Kg	100	9/1/2015 09:25 PM
Benzo(b)fluoranthene	4300	56	500	ug/Kg	100	9/1/2015 09:25 PM
Benzo(g,h,i)perylene	900	51	500	ug/Kg	100	9/1/2015 09:25 PM
Benzo(k)fluoranthene	1200	72	500	ug/Kg	100	9/1/2015 09:25 PM
Chrysene	3700	51	500	ug/Kg	100	9/1/2015 09:25 PM
Dibenz(a,h)anthracene	ND	40	500	ug/Kg	100	9/1/2015 09:25 PM
Fluoranthene	6100	79	500	ug/Kg	100	9/1/2015 09:25 PM
Fluorene	110	0.60	5.0	ug/Kg	1	9/2/2015 12:46 PM
Indeno(1,2,3-cd)pyrene	830	60	500	ug/Kg	100	9/1/2015 09:25 PM
Naphthalene	91	1.2	5.0	ug/Kg	1	9/2/2015 12:46 PM
Phenanthrene	2600	72	500	ug/Kg	100	9/1/2015 09:25 PM
Pyrene	9200	60	500	ug/Kg	100	9/1/2015 09:25 PM
Surr: 1,2-Dichlorobenzene-d4	32.0	0	25-110	%REC	1	9/2/2015 12:46 PM
Surr: 2-Fluorobiphenyl	37.0	0	34-135	%REC	1	9/2/2015 12:46 PM
Surr: 4-Terphenyl-d14	139	0	14-129	S %REC	1	9/2/2015 12:46 PM
Surr: Nitrobenzene-d5	48.0	0	25-135	%REC	1	9/2/2015 12:46 PM

PCBS BY GC/ECD

EPA 3550B

EPA 8082

RunID: GC8_150824B	QC Batch: 51258	PrepDate	8/24/2015	Analyst: MDM		
Aroclor 1016	ND	5.0	16	ug/Kg	1	8/25/2015 12:50 AM
Aroclor 1221	ND	5.4	33	ug/Kg	1	8/25/2015 12:50 AM
Aroclor 1232	ND	11	16	ug/Kg	1	8/25/2015 12:50 AM
Aroclor 1242	ND	8.1	16	ug/Kg	1	8/25/2015 12:50 AM
Aroclor 1248	ND	2.8	16	ug/Kg	1	8/25/2015 12:50 AM
Aroclor 1254	5.9	4.9	16	J ug/Kg	1	8/25/2015 12:50 AM
Aroclor 1260	7.5	3.2	16	J ug/Kg	1	8/25/2015 12:50 AM
Surr: Decachlorobiphenyl	56.7	0	26-125	%REC	1	8/25/2015 12:50 AM
Surr: Tetrachloro-m-xylene	54.9	0	48-121	%REC	1	8/25/2015 12:50 AM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit S Spike/Surrogate outside of limits due to matrix interference
Results are wet unless otherwise specified DO Surrogate Diluted Out



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11060 Artesia Blvd., Ste C, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: 09-Sep-15

CLIENT: CH2MHill
 Lab Order: N016679
 Project: SFPP - Norwalk Site
 Lab ID: N016679-006

Client Sample ID: SB-12-5'-082015
 Collection Date: 8/20/2015 1:30:00 PM
 Matrix: SOIL

Analyses Result MDL PQL Qual Units DF Date Analyzed

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM

EPA 3550B

EPA 8270CSIM

RunID: MS3_150901A	QC Batch: 51298	PrepDate	8/27/2015	Analyst: JAA		
1-Methylnaphthalene	ND	1.0	5.0	ug/Kg	1	9/1/2015 07:04 PM
2-Methylnaphthalene	ND	1.7	5.0	ug/Kg	1	9/1/2015 07:04 PM
Acenaphthene	ND	0.51	5.0	ug/Kg	1	9/1/2015 07:04 PM
Acenaphthylene	ND	0.51	5.0	ug/Kg	1	9/1/2015 07:04 PM
Anthracene	ND	0.51	5.0	ug/Kg	1	9/1/2015 07:04 PM
Benzo(a)anthracene	ND	0.51	5.0	ug/Kg	1	9/1/2015 07:04 PM
Benzo(a)pyrene	ND	0.56	5.0	ug/Kg	1	9/1/2015 07:04 PM
Benzo(b)fluoranthene	ND	0.56	5.0	ug/Kg	1	9/1/2015 07:04 PM
Benzo(g,h,i)perylene	ND	0.51	5.0	ug/Kg	1	9/1/2015 07:04 PM
Benzo(k)fluoranthene	ND	0.72	5.0	ug/Kg	1	9/1/2015 07:04 PM
Chrysene	ND	0.51	5.0	ug/Kg	1	9/1/2015 07:04 PM
Dibenz(a,h)anthracene	ND	0.40	5.0	ug/Kg	1	9/1/2015 07:04 PM
Fluoranthene	1.3	0.79	5.0	J ug/Kg	1	9/1/2015 07:04 PM
Fluorene	ND	0.60	5.0	ug/Kg	1	9/1/2015 07:04 PM
Indeno(1,2,3-cd)pyrene	ND	0.60	5.0	ug/Kg	1	9/1/2015 07:04 PM
Naphthalene	ND	1.2	5.0	ug/Kg	1	9/1/2015 07:04 PM
Phenanthrene	ND	0.72	5.0	ug/Kg	1	9/1/2015 07:04 PM
Pyrene	1.3	0.60	5.0	J ug/Kg	1	9/1/2015 07:04 PM
Surr: 1,2-Dichlorobenzene-d4	43.0	0	25-110	%REC	1	9/1/2015 07:04 PM
Surr: 2-Fluorobiphenyl	46.0	0	34-135	%REC	1	9/1/2015 07:04 PM
Surr: 4-Terphenyl-d14	52.0	0	14-129	%REC	1	9/1/2015 07:04 PM
Surr: Nitrobenzene-d5	51.0	0	25-135	%REC	1	9/1/2015 07:04 PM

PCBS BY GC/ECD

EPA 3550B

EPA 8082

RunID: GC8_150824B	QC Batch: 51258	PrepDate	8/24/2015	Analyst: MDM		
Aroclor 1016	ND	5.0	16	ug/Kg	1	8/25/2015 01:13 AM
Aroclor 1221	ND	5.4	33	ug/Kg	1	8/25/2015 01:13 AM
Aroclor 1232	ND	11	16	ug/Kg	1	8/25/2015 01:13 AM
Aroclor 1242	ND	8.1	16	ug/Kg	1	8/25/2015 01:13 AM
Aroclor 1248	ND	2.8	16	ug/Kg	1	8/25/2015 01:13 AM
Aroclor 1254	ND	4.9	16	ug/Kg	1	8/25/2015 01:13 AM
Aroclor 1260	ND	3.2	16	ug/Kg	1	8/25/2015 01:13 AM
Surr: Decachlorobiphenyl	68.3	0	26-125	%REC	1	8/25/2015 01:13 AM
Surr: Tetrachloro-m-xylene	60.5	0	48-121	%REC	1	8/25/2015 01:13 AM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
 H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit S Spike/Surrogate outside of limits due to matrix interference
 Results are wet unless otherwise specified DO Surrogate Diluted Out



ASSET LABORATORIES
 ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
 11060 Artesia Blvd., Ste C, Cerritos, CA 90703
 P: 562.219.7435 F: 562.219.7436

NEVADA
 3151 W. Post Rd., Las Vegas, NV 89118
 P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: 09-Sep-15

CLIENT: CH2MHill
Lab Order: N016679
Project: SFPP - Norwalk Site
Lab ID: N016679-007

Client Sample ID: SB-12-10'-082015
Collection Date: 8/20/2015 2:20:00 PM
Matrix: SOIL

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
----------	--------	-----	-----	------	-------	----	---------------

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM

EPA 3550B

EPA 8270CSIM

RunID: MS3_150901A	QC Batch: 51298			PrepDate	8/27/2015	Analyst: JAA
1-Methylnaphthalene	ND	1.0	5.0	ug/Kg	1	9/1/2015 07:32 PM
2-Methylnaphthalene	ND	1.7	5.0	ug/Kg	1	9/1/2015 07:32 PM
Acenaphthene	ND	0.51	5.0	ug/Kg	1	9/1/2015 07:32 PM
Acenaphthylene	ND	0.51	5.0	ug/Kg	1	9/1/2015 07:32 PM
Anthracene	ND	0.51	5.0	ug/Kg	1	9/1/2015 07:32 PM
Benzo(a)anthracene	ND	0.51	5.0	ug/Kg	1	9/1/2015 07:32 PM
Benzo(a)pyrene	ND	0.56	5.0	ug/Kg	1	9/1/2015 07:32 PM
Benzo(b)fluoranthene	ND	0.56	5.0	ug/Kg	1	9/1/2015 07:32 PM
Benzo(g,h,i)perylene	ND	0.51	5.0	ug/Kg	1	9/1/2015 07:32 PM
Benzo(k)fluoranthene	ND	0.72	5.0	ug/Kg	1	9/1/2015 07:32 PM
Chrysene	ND	0.51	5.0	ug/Kg	1	9/1/2015 07:32 PM
Dibenz(a,h)anthracene	ND	0.40	5.0	ug/Kg	1	9/1/2015 07:32 PM
Fluoranthene	ND	0.79	5.0	ug/Kg	1	9/1/2015 07:32 PM
Fluorene	ND	0.60	5.0	ug/Kg	1	9/1/2015 07:32 PM
Indeno(1,2,3-cd)pyrene	ND	0.60	5.0	ug/Kg	1	9/1/2015 07:32 PM
Naphthalene	ND	1.2	5.0	ug/Kg	1	9/1/2015 07:32 PM
Phenanthrene	ND	0.72	5.0	ug/Kg	1	9/1/2015 07:32 PM
Pyrene	ND	0.60	5.0	ug/Kg	1	9/1/2015 07:32 PM
Surr: 1,2-Dichlorobenzene-d4	39.0	0	25-110	%REC	1	9/1/2015 07:32 PM
Surr: 2-Fluorobiphenyl	41.0	0	34-135	%REC	1	9/1/2015 07:32 PM
Surr: 4-Terphenyl-d14	51.0	0	14-129	%REC	1	9/1/2015 07:32 PM
Surr: Nitrobenzene-d5	46.0	0	25-135	%REC	1	9/1/2015 07:32 PM

PCBS BY GC/ECD

EPA 3550B

EPA 8082

RunID: GC8_150824B	QC Batch: 51258			PrepDate	8/24/2015	Analyst: MDM
Aroclor 1016	ND	5.0	17	ug/Kg	1	8/25/2015 01:36 AM
Aroclor 1221	ND	5.4	33	ug/Kg	1	8/25/2015 01:36 AM
Aroclor 1232	ND	11	17	ug/Kg	1	8/25/2015 01:36 AM
Aroclor 1242	ND	8.1	17	ug/Kg	1	8/25/2015 01:36 AM
Aroclor 1248	ND	2.8	17	ug/Kg	1	8/25/2015 01:36 AM
Aroclor 1254	ND	4.9	17	ug/Kg	1	8/25/2015 01:36 AM
Aroclor 1260	ND	3.2	17	ug/Kg	1	8/25/2015 01:36 AM
Surr: Decachlorobiphenyl	66.7	0	26-125	%REC	1	8/25/2015 01:36 AM
Surr: Tetrachloro-m-xylene	65.1	0	48-121	%REC	1	8/25/2015 01:36 AM

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
Results are wet unless otherwise specified
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike/Surrogate outside of limits due to matrix interference
DO Surrogate Diluted Out



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11060 Artesia Blvd., Ste C, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: 09-Sep-15

CLIENT: CH2MHill	Client Sample ID: SB-12-10'N-082015
Lab Order: N016679	Collection Date: 8/20/2015 2:40:00 PM
Project: SFPP - Norwalk Site	Matrix: WATER
Lab ID: N016679-008	

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
----------	--------	-----	-----	------	-------	----	---------------

PCBS BY GC/ECD

	EPA 3510C	EPA 8082					
RunID: GC7_150827B	QC Batch: 51297			PrepDate	8/27/2015		Analyst: MDM
Aroclor 1016	ND	0.13	0.61		µg/L	1	8/27/2015 04:21 PM
Aroclor 1221	ND	0.22	1.2		µg/L	1	8/27/2015 04:21 PM
Aroclor 1232	ND	0.088	0.61		µg/L	1	8/27/2015 04:21 PM
Aroclor 1242	ND	0.079	0.61		µg/L	1	8/27/2015 04:21 PM
Aroclor 1248	ND	0.099	0.61		µg/L	1	8/27/2015 04:21 PM
Aroclor 1254	ND	0.19	0.61		µg/L	1	8/27/2015 04:21 PM
Aroclor 1260	ND	0.12	0.61		µg/L	1	8/27/2015 04:21 PM
Surr: Decachlorobiphenyl	81.5	0	29-133		%REC	1	8/27/2015 04:21 PM
Surr: Tetrachloro-m-xylene	71.7	0	50-120		%REC	1	8/27/2015 04:21 PM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	S Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO Surrogate Diluted Out



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11060 Artesia Blvd., Ste C, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
Work Order: N016679
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8082_S_PGE

Sample ID	LCS-51258_PCB	SampType:	LCS	TestCode:	8082_S_PGE	Units:	ug/Kg	Prep Date:	8/24/2015	RunNo:	101838		
Client ID:	LCSS	Batch ID:	51258	TestNo:	EPA 8082	EPA 3550B		Analysis Date:	8/24/2015	SeqNo:	2068227		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016		135.310		16	166.7	0	81.2	41	138				
Aroclor 1260		151.815		16	166.7	0	91.1	61	131				
Surr: Decachlorobiphenyl		16.370			16.67		98.2	26	125				
Surr: Tetrachloro-m-xylene		11.736			16.67		70.4	48	121				

Sample ID	MB-51258	SampType:	MBLK	TestCode:	8082_S_PGE	Units:	ug/Kg	Prep Date:	8/24/2015	RunNo:	101838		
Client ID:	PBS	Batch ID:	51258	TestNo:	EPA 8082	EPA 3550B		Analysis Date:	8/24/2015	SeqNo:	2068228		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016		ND		16									
Aroclor 1221		ND		33									
Aroclor 1232		ND		16									
Aroclor 1242		ND		16									
Aroclor 1248		ND		16									
Aroclor 1254		ND		16									
Aroclor 1260		ND		16									
Surr: Decachlorobiphenyl		14.888			16.67		89.3	26	125				
Surr: Tetrachloro-m-xylene		11.172			16.67		67.0	48	121				

Sample ID	N016679-001A-MS	SampType:	MS	TestCode:	8082_S_PGE	Units:	ug/Kg	Prep Date:	8/24/2015	RunNo:	101838		
Client ID:	ZZZZZ	Batch ID:	51258	TestNo:	EPA 8082	EPA 3550B		Analysis Date:	8/25/2015	SeqNo:	2068236		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016		103.762		17	167.1	0	62.1	41	138				
Aroclor 1260		99.299		17	167.1	0	59.4	61	131				S
Surr: Decachlorobiphenyl		8.725			16.71		52.2	26	125				
Surr: Tetrachloro-m-xylene		8.073			16.71		48.3	48	121				

Qualifiers:

- B Analyte detected in the associated Method Blank
- J Analyte detected below quantitation limits
- S Spike/Surrogate outside of limits due to matrix interference
- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- H Holding times for preparation or analysis exceeded
- R RPD outside accepted recovery limits
- Calculations are based on raw values



CALIFORNIA
 11060 Artesia Blvd., Ste C, Cerritos, CA 90703
 P: 562.219.7435 F: 562.219.7436

NEVADA
 3151 W. Post Rd., Las Vegas, NV 89118
 P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
Work Order: N016679
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8082_S_PGE

Sample ID	N016679-001A-MSD	SampType:	MSD	TestCode:	8082_S_PGE	Units:	ug/Kg	Prep Date:	8/24/2015	RunNo:	101838
Client ID:	ZZZZZZ	Batch ID:	51258	TestNo:	EPA 8082	EPA 3550B		Analysis Date:	8/25/2015	SeqNo:	2068237
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	61.200	17	166.8	0	36.7	41	138	103.8	51.6	20	SR
Aroclor 1260	61.700	17	166.8	0	37.0	61	131	99.30	46.7	20	SR
Surr: Decachlorobiphenyl	8.264		16.68		49.5	26	125		0		
Surr: Tetrachloro-m-xylene	6.616		16.68		39.7	48	121		0		S

Qualifiers:

- | | | |
|--|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits |
| S Spike/Surrogate outside of limits due to matrix interference | DO Surrogate Diluted Out | Calculations are based on raw values |



CALIFORNIA
 11060 Artesia Blvd., Ste C, Cerritos, CA 90703
 P: 562.219.7435 F: 562.219.7436

NEVADA
 3151 W. Post Rd., Las Vegas, NV 89118
 P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
Work Order: N016679
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8082_W_PGE

Sample ID: LCS-51297_PCB	SampType: LCS	TestCode: 8082_W_PGE	Units: µg/L	Prep Date: 8/27/2015	RunNo: 101892						
Client ID: LCSW	Batch ID: 51297	TestNo: EPA 8082 EPA 3510C		Analysis Date: 8/27/2015	SeqNo: 2071677						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	1.941	0.50	2.500	0	77.6	40	144				
Aroclor 1260	2.338	0.50	2.500	0	93.5	45	145				
Surr: Decachlorobiphenyl	0.233		0.2500		93.3	29	133				
Surr: Tetrachloro-m-xylene	0.159		0.2500		63.5	50	120				

Sample ID: LCSD-51297_PCB	SampType: LCSD	TestCode: 8082_W_PGE	Units: µg/L	Prep Date: 8/27/2015	RunNo: 101892						
Client ID: LCSS02	Batch ID: 51297	TestNo: EPA 8082 EPA 3510C		Analysis Date: 8/27/2015	SeqNo: 2071678						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	1.932	0.50	2.500	0	77.3	40	144	1.941	0.475	30	
Aroclor 1260	2.350	0.50	2.500	0	94.0	45	145	2.338	0.479	30	
Surr: Decachlorobiphenyl	0.243		0.2500		97.0	29	133		0		
Surr: Tetrachloro-m-xylene	0.146		0.2500		58.6	50	120		0		

Sample ID: MB-51297	SampType: MBLK	TestCode: 8082_W_PGE	Units: µg/L	Prep Date: 8/27/2015	RunNo: 101892						
Client ID: PBW	Batch ID: 51297	TestNo: EPA 8082 EPA 3510C		Analysis Date: 8/27/2015	SeqNo: 2071679						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	ND	0.50									
Aroclor 1221	ND	1.0									
Aroclor 1232	ND	0.50									
Aroclor 1242	ND	0.50									
Aroclor 1248	ND	0.50									
Aroclor 1254	ND	0.50									
Aroclor 1260	ND	0.50									
Surr: Decachlorobiphenyl	0.241		0.2500		96.3	29	133				
Surr: Tetrachloro-m-xylene	0.144		0.2500		57.5	50	120				

Qualifiers:

- | | | |
|--|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits |
| S Spike/Surrogate outside of limits due to matrix interference | DO Surrogate Diluted Out | Calculations are based on raw values |



CALIFORNIA
 11060 Artesia Blvd., Ste C, Cerritos, CA 90703
 P: 562.219.7435 F: 562.219.7436

NEVADA
 3151 W. Post Rd., Las Vegas, NV 89118
 P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
Work Order: N016679
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_S_SIMPGE

Sample ID	SampType	TestCode	Units	Prep Date	RunNo						
LCS-51298	LCS	8270_S_SIM	ug/Kg	8/27/2015	101966						
Client ID: LCSS	Batch ID: 51298	TestNo: EPA 8270CSI EPA 3550B		Analysis Date: 9/1/2015	SeqNo: 2075960						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene	20.000	5.0	33.30	0	60.1	30	111				
2-Methylnaphthalene	21.667	5.0	33.30	0	65.1	30	111				
Acenaphthene	20.333	5.0	33.30	0	61.1	28	110				
Acenaphthylene	20.333	5.0	33.30	0	61.1	23	126				
Anthracene	18.667	5.0	33.30	0	56.1	28	136				
Benzo(a)anthracene	23.667	5.0	33.30	0	71.1	31	146				
Benzo(a)pyrene	20.000	5.0	33.30	0	60.1	28	128				
Benzo(b)fluoranthene	20.000	5.0	33.30	0	60.1	30	139				
Benzo(g,h,i)perylene	20.000	5.0	33.30	0	60.1	21	149				
Benzo(k)fluoranthene	22.333	5.0	33.30	0	67.1	42	129				
Chrysene	23.000	5.0	33.30	0	69.1	39	134				
Dibenz(a,h)anthracene	19.667	5.0	33.30	0	59.1	30	138				
Fluoranthene	22.667	5.0	33.30	0	68.1	30	142				
Fluorene	20.667	5.0	33.30	0	62.1	27	116				
Indeno(1,2,3-cd)pyrene	19.667	5.0	33.30	0	59.1	17	164				
Naphthalene	20.333	5.0	33.30	0	61.1	29	106				
Phenanthrene	21.000	5.0	33.30	0	63.1	32	127				
Pyrene	22.667	5.0	33.30	0	68.1	28	130				
Surr: 1,2-Dichlorobenzene-d4	17.000		33.30		51.1	25	110				
Surr: 2-Fluorobiphenyl	17.333		33.30		52.1	34	135				
Surr: 4-Terphenyl-d14	19.333		33.30		58.1	14	129				
Surr: Nitrobenzene-d5	18.000		33.30		54.1	25	135				

Sample ID	SampType	TestCode	Units	Prep Date	RunNo						
MB-51298	MLBK	8270_S_SIM	ug/Kg	8/27/2015	101966						
Client ID: PBS	Batch ID: 51298	TestNo: EPA 8270CSI EPA 3550B		Analysis Date: 9/1/2015	SeqNo: 2075961						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene	ND	5.0									
2-Methylnaphthalene	ND	5.0									
Acenaphthene	ND	5.0									

Qualifiers:

- | | | |
|--|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits |
| S Spike/Surrogate outside of limits due to matrix interference | DO Surrogate Diluted Out | Calculations are based on raw values |



CALIFORNIA
 11060 Artesia Blvd., Ste C, Cerritos, CA 90703
 P: 562.219.7435 F: 562.219.7436

NEVADA
 3151 W. Post Rd., Las Vegas, NV 89118
 P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
Work Order: N016679
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_S_SIMPGE

Sample ID	SampType	TestCode	Units	Prep Date	RunNo						
MB-51298	MBLK	8270_S_SIM	ug/Kg	8/27/2015	101966						
Client ID: PBS	Batch ID: 51298	TestNo: EPA 8270CSI EPA 3550B		Analysis Date: 9/1/2015	SeqNo: 2075961						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthylene	ND	5.0									
Anthracene	ND	5.0									
Benzo(a)anthracene	ND	5.0									
Benzo(a)pyrene	ND	5.0									
Benzo(b)fluoranthene	ND	5.0									
Benzo(g,h,i)perylene	ND	5.0									
Benzo(k)fluoranthene	ND	5.0									
Chrysene	ND	5.0									
Dibenz(a,h)anthracene	ND	5.0									
Fluoranthene	ND	5.0									
Fluorene	ND	5.0									
Indeno(1,2,3-cd)pyrene	ND	5.0									
Naphthalene	ND	5.0									
Phenanthrene	ND	5.0									
Pyrene	ND	5.0									
Surr: 1,2-Dichlorobenzene-d4	11.667		33.30		35.0	25	110				
Surr: 2-Fluorobiphenyl	12.333		33.30		37.0	34	135				
Surr: 4-Terphenyl-d14	21.333		33.30		64.1	14	129				
Surr: Nitrobenzene-d5	13.000		33.30		39.0	25	135				

Sample ID	SampType	TestCode	Units	Prep Date	RunNo						
N016679-002A-MS	MS	8270_S_SIM	ug/Kg	8/27/2015	101966						
Client ID: ZZZZZ	Batch ID: 51298	TestNo: EPA 8270CSI EPA 3550B		Analysis Date: 9/1/2015	SeqNo: 2075969						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoranthene	404.142	50	133.6	137.3	200	30	142				S
Pyrene	380.762	50	133.6	126.7	190	28	130				S

Qualifiers:

- | | | |
|--|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits |
| S Spike/Surrogate outside of limits due to matrix interference | DO Surrogate Diluted Out | Calculations are based on raw values |



CALIFORNIA
 11060 Artesia Blvd., Ste C, Cerritos, CA 90703
 P: 562.219.7435 F: 562.219.7436

NEVADA
 3151 W. Post Rd., Las Vegas, NV 89118
 P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
Work Order: N016679
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_S_SIMPGE

Sample ID	N016679-002A-MS	SampType: MS	TestCode: 8270_S_SIM	Units: ug/Kg	Prep Date: 8/27/2015	RunNo: 101969					
Client ID:	ZZZZZZ	Batch ID: 51298	TestNo: EPA 8270CSI EPA 3550B		Analysis Date: 9/2/2015	SeqNo: 2076002					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene	74.148	5.0	133.6	0	55.5	30	111				
2-Methylnaphthalene	81.162	5.0	133.6	0	60.8	30	111				
Acenaphthene	85.170	5.0	133.6	4.000	60.8	28	110				
Acenaphthylene	86.172	5.0	133.6	0	64.5	23	126				
Anthracene	117.234	5.0	133.6	19.00	73.5	28	136				
Benzo(a)anthracene	178.691	5.0	133.6	55.33	92.4	31	146				
Benzo(a)pyrene	119.906	5.0	133.6	27.00	69.6	28	128				
Benzo(b)fluoranthene	178.357	5.0	133.6	40.33	103	30	139				
Benzo(g,h,i)perylene	30.060	5.0	133.6	6.333	17.8	21	149				S
Benzo(k)fluoranthene	108.884	5.0	133.6	13.67	71.3	42	129				
Chrysene	162.659	5.0	133.6	49.00	85.1	39	134				
Dibenz(a,h)anthracene	35.738	5.0	133.6	0	26.8	30	138				S
Fluorene	88.176	5.0	133.6	2.333	64.3	27	116				
Indeno(1,2,3-cd)pyrene	39.412	5.0	133.6	5.667	25.3	17	164				
Naphthalene	72.478	5.0	133.6	0	54.3	29	106				
Phenanthrene	214.429	5.0	133.6	76.33	103	32	127				
Surr: 1,2-Dichlorobenzene-d4	12.024		33.37		36.0	25	110				
Surr: 2-Fluorobiphenyl	14.028		33.37		42.0	34	135				
Surr: 4-Terphenyl-d14	16.700		33.37		50.1	14	129				
Surr: Nitrobenzene-d5	15.698		33.37		47.0	25	135				

Sample ID	N016679-002A-MSD	SampType: MSD	TestCode: 8270_S_SIM	Units: ug/Kg	Prep Date: 8/27/2015	RunNo: 101969					
Client ID:	ZZZZZZ	Batch ID: 51298	TestNo: EPA 8270CSI EPA 3550B		Analysis Date: 9/2/2015	SeqNo: 2076003					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene	60.201	5.0	133.7	0	45.0	30	111	74.15	20.8	30	
2-Methylnaphthalene	66.221	5.0	133.7	0	49.5	30	111	81.16	20.3	30	
Acenaphthene	69.900	5.0	133.7	4.000	49.3	28	110	85.17	19.7	30	
Acenaphthylene	74.916	5.0	133.7	0	56.0	23	126	86.17	14.0	30	
Anthracene	79.599	5.0	133.7	19.00	45.3	28	136	117.2	38.2	30	R

Qualifiers:

- | | | |
|--|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits |
| S Spike/Surrogate outside of limits due to matrix interference | DO Surrogate Diluted Out | Calculations are based on raw values |



CALIFORNIA
 11060 Artesia Blvd., Ste C, Cerritos, CA 90703
 P: 562.219.7435 F: 562.219.7436

NEVADA
 3151 W. Post Rd., Las Vegas, NV 89118
 P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
Work Order: N016679
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_S_SIMPGE

Sample ID	SampType	TestCode	Units	Prep Date	RunNo						
N016679-002A-MSD	MSD	8270_S_SIM	ug/Kg	8/27/2015	101969						
Client ID: ZZZZZZ	Batch ID: 51298	TestNo: EPA 8270CSI EPA 3550B		Analysis Date: 9/2/2015	SeqNo: 2076003						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(a)anthracene	98.997	5.0	133.7	55.33	32.6	31	146	178.7	57.4	30	R
Benzo(a)pyrene	78.930	5.0	133.7	27.00	38.8	28	128	119.9	41.2	30	R
Benzo(b)fluoranthene	103.679	5.0	133.7	40.33	47.4	30	139	178.4	53.0	30	R
Benzo(g,h,i)perylene	22.074	5.0	133.7	6.333	11.8	21	149	30.06	30.6	30	SR
Benzo(k)fluoranthene	100.334	5.0	133.7	13.67	64.8	42	129	108.9	8.17	30	
Chrysene	91.639	5.0	133.7	49.00	31.9	39	134	162.7	55.9	30	SR
Dibenz(a,h)anthracene	29.097	5.0	133.7	0	21.8	30	138	35.74	20.5	30	S
Fluorene	76.254	5.0	133.7	2.333	55.3	27	116	88.18	14.5	30	
Indeno(1,2,3-cd)pyrene	28.428	5.0	133.7	5.667	17.0	17	164	39.41	32.4	30	R
Naphthalene	55.853	5.0	133.7	0	41.8	29	106	72.48	25.9	30	
Phenanthrene	97.993	5.0	133.7	76.33	16.2	32	127	214.4	74.5	30	SR
Surr: 1,2-Dichlorobenzene-d4	11.037		33.41		33.0	25	110		0		
Surr: 2-Fluorobiphenyl	15.050		33.41		45.0	34	135		0		
Surr: 4-Terphenyl-d14	19.398		33.41		58.1	14	129		0		
Surr: Nitrobenzene-d5	14.047		33.41		42.0	25	135		0		

Sample ID	SampType	TestCode	Units	Prep Date	RunNo						
N016679-002A-MSD	MSD	8270_S_SIM	ug/Kg	8/27/2015	101969						
Client ID: ZZZZZZ	Batch ID: 51298	TestNo: EPA 8270CSI EPA 3550B		Analysis Date: 9/2/2015	SeqNo: 2080765						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoranthene	123.746	5.0	133.7	137.3	-10.2	30	142	404.1	106	30	SR
Pyrene	123.077	5.0	133.7	126.7	-2.68	28	130	380.8	102	30	SR

Qualifiers:

- | | | |
|--|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits |
| S Spike/Surrogate outside of limits due to matrix interference | DO Surrogate Diluted Out | Calculations are based on raw values |



CALIFORNIA
 11060 Artesia Blvd., Ste C, Cerritos, CA 90703
 P: 562.219.7435 F: 562.219.7436

NEVADA
 3151 W. Post Rd., Las Vegas, NV 89118
 P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

Advanced Technology Laboratories
 3151 W. Post Road
 Las Vegas, NV 89118
 Tel: 702-307-2659 Fax: 702-307-2691
 Marlon Cartin (marlon@atl-labs.com)

CHAIN OF CUSTODY RECORD

DATE: 8/20/15

PAGE: 1 OF 1

LABORATORY CLIENT: Kinder Morgan Energy Partners, Attn: Steve Defibaugh			CLIENT PROJECT NAME / NUMBER: SFPP - Norwalk Site			P.O. NO.:		
ADDRESS: 1100 Town & Country Road			PROJECT CONTACT: James Dye			QUOTE NO.:		
CITY: Orange, CA 92868			SAMPLER(S): (SIGNATURE) 			LAB USE ONLY <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
TEL: 714-560-4802	FAX: 714-560-4601	E-MAIL james.dye@kindermorgan.com						

TURNAROUND TIME
 SAME DAY 24 HR 48HR 72 HR 5 DAYS Normal

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
 RWQCB REPORTING ARCHIVE SAMPLES UNTIL ___ / ___ / ___

SPECIAL INSTRUCTIONS
Report to D. Jablonski/CH2M HILL, cc: KMEP
Direct Bill KMEP/SFPP - Steve Defibaugh-ref. AFE# 81195
"J" flags required/Use lowest possible detection limit - all methods.

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING		MAT- RIX	NO. OF CONT.	PAH (8270 SIM)	PCB (8082)											Comments				
			DATE	TIME																			
	SB-10-5'-082015		8/20/2015	9:00	S	1	X	X															NO16679-01
	SB-10-5'D-082015		8/20/2015	9:05	S	1	X	X															-02
	SB-10-10'-082015		8/20/2015	10:20	S	1	X	X															-03
	SB-11-5'-082015		8/20/2015	11:55	S	1	X	X															-04
	SB-11-6'-082015		8/20/2015	12:10	S	1	X	X															-05
	SB-12-5'-082015		8/20/2015	13:30	S	1	X	X															-06
	SB-12-10'-082015		8/20/2015	14:20	S	1	X	X															-07
	SB-12-10'N-082015		8/20/2015	14:40	W	2	X	X															-08

2.7°C IR#2

Relinquished by: (Signature)	Received by: (Signature)	Date: <u>8-20-15</u>	Time: <u>3:00PM</u>
Relinquished by: (Signature)	Received by: (Signature)	Date: <u>8/21/15</u>	Time: <u>9:35</u>
Relinquished by: (Signature)	Received by: (Signature)	Date: /	Time: /

ASSET Laboratories

Please review the checklist below. Any NO signifies non-compliance. Any non-compliance will be noted and must be understood as having an impact on the quality of the data. All tests will be performed as requested regardless of any compliance issues.


If you have any questions or further instruction, please contact our Project Coordinator at (702) 307-2659.


Cooler Received/Opened On: 8/21/2015 Workorder: N016679
 Rep sample Temp (Deg C): 2.7 IR Gun ID: 2
 Temp Blank: Yes No
 Carrier name: Golden State Overnight
 Last 4 digits of Tracking No.: 6327 Packing Material Used: Bubble Wrap
 Cooling process: Ice Ice Pack Dry Ice Other None

Sample Receipt Checklist

- | | | | |
|---|---|-----------------------------|---|
| 1. Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| 2. Custody seals intact, signed, dated on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 3. Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 4. Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 5. Sampler's name present in COC? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 6. Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 7. Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 8. Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 9. Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 10. Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 11. All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 12. Temperature of rep sample or Temp Blank within acceptable limit? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 13. Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| 14. Water - pH acceptable upon receipt?
Example: pH > 12 for (CN,S); pH<2 for Metals | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| 15. Did the bottle labels indicate correct preservatives used? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| 16. Were there Non-Conformance issues at login? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| Was Client notified? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |

Comments

Checklist Completed B JPG  08/21/15

Reviewed By:  08/26/15

ASSET Laboratories

WORK ORDER Summary

21-Aug-15

WorkOrder: N016679

Client ID: CH2HI03

Project: SFPP - Norwalk Site

QC Level: RTNE

Date Received: 8/21/2015

Comments: Report to D. Jablonski/CH2M HILL, cc:KMEP

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N016679-001A	SB-10-5'-082015	8/20/2015 9:00:00 AM	8/28/2015	Soil	EPA 3550B	ULTRASONIC EXTRACTION: PESTICIDES/PCB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			8/28/2015		EPA 3550B	ULTRASONIC EXTRACTION: 8270C - SIM	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			8/28/2015		EPA 8082	PCBs BY GC/ECD	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			8/28/2015		EPA 8270CSIM	SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
N016679-002A	SB-10-5'D-082015	8/20/2015 9:05:00 AM	8/28/2015		EPA 3550B	ULTRASONIC EXTRACTION: PESTICIDES/PCB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			8/28/2015		EPA 3550B	ULTRASONIC EXTRACTION: 8270C - SIM	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			8/28/2015		EPA 8082	PCBs BY GC/ECD	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			8/28/2015		EPA 8270CSIM	SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
N016679-003A	SB-10-10'-082015	8/20/2015 10:20:00 AM	8/28/2015		EPA 3550B	ULTRASONIC EXTRACTION: PESTICIDES/PCB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			8/28/2015		EPA 3550B	ULTRASONIC EXTRACTION: 8270C - SIM	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			8/28/2015		EPA 8082	PCBs BY GC/ECD	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			8/28/2015		EPA 8270CSIM	SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
N016679-004A	SB-11-5'-082015	8/20/2015 11:55:00 AM	8/28/2015		EPA 3550B	ULTRASONIC EXTRACTION: PESTICIDES/PCB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			8/28/2015		EPA 3550B	ULTRASONIC EXTRACTION: 8270C - SIM	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			8/28/2015		EPA 8082	PCBs BY GC/ECD	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			8/28/2015		EPA 8270CSIM	SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
N016679-005A	SB-11-6'-082015	8/20/2015 12:10:00 PM	8/28/2015		EPA 3550B	ULTRASONIC EXTRACTION: PESTICIDES/PCB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS

ASSET Laboratories

WORK ORDER Summary

21-Aug-15

WorkOrder: N016679

Client ID: CH2HI03

Project: SFPP - Norwalk Site

QC Level: RTNE

Date Received: 8/21/2015

Comments: Report to D. Jablonski/CH2M HILL, cc:KMEP

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N016679-005A	SB-11-6'-082015	8/20/2015 12:10:00 PM	8/28/2015	Soil	EPA 3550B	ULTRASONIC EXTRACTION: 8270C - SIM	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			8/28/2015		EPA 8082	PCBs BY GC/ECD	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			8/28/2015		EPA 8270CSIM	SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
N016679-006A	SB-12-5'-082015	8/20/2015 1:30:00 PM	8/28/2015		EPA 3550B	ULTRASONIC EXTRACTION: PESTICIDES/PCB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			8/28/2015		EPA 3550B	ULTRASONIC EXTRACTION: 8270C - SIM	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			8/28/2015		EPA 8082	PCBs BY GC/ECD	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			8/28/2015		EPA 8270CSIM	SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
N016679-007A	SB-12-10'-082015	8/20/2015 2:20:00 PM	8/28/2015		EPA 3550B	ULTRASONIC EXTRACTION: PESTICIDES/PCB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			8/28/2015		EPA 3550B	ULTRASONIC EXTRACTION: 8270C - SIM	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			8/28/2015		EPA 8082	PCBs BY GC/ECD	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			8/28/2015		EPA 8270CSIM	SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
N016679-008A	SB-12-10'N-082015	8/20/2015 2:40:00 PM	8/28/2015	Water	EPA 3510C	SEPARATORY FUNNEL EXTRACTION: PESTICIDE/PCB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			8/28/2015		EPA 3510C	SEPARATORY FUNNEL EXTRACTION: 8270C - SIM	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			8/28/2015		EPA 8082	PCBs BY GC/ECD	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			8/28/2015		EPA 8270CSIM	SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
N016679-009A	FOLDER		8/28/2015		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB



800-322-5555 www.gso.com

Ship From

ASSET LABORATORIES
MOLKY BRAR
11060 ARTESIA BLVD., STE. C
CERRITOS, CA 90703

Tracking #: 529006327

CPS



Ship To

ATL INC
MARLON CARTIN
3151 W. POST RD.,
LAS VEGAS, NV 89118

LVS
LAS VEGAS

A

COD: \$0.00

Weight: 0 lb(s)

Reference:

C89102A

Delivery Instructions:

HOLD FOR PICK UP

Signature Type: REQUIRED



41491320

Print Date: 8/20/2015 4:13 PM

Package 1 of 2

LABEL INSTRUCTIONS:

Do not copy or reprint this label for additional shipments - each package must have a unique barcode.

Use the "Print Label" button on this page to print the shipping label on a laser or inkjet printer. Securely attach this label to your package, do not cover the barcode.

September 10, 2015

Dan Jablonski
CH2MHill
1000 Wilshire Blvd.
Los Angeles, CA 90017

CA-ELAP No.: 2676
NV Cert. No.: NV-00922

TEL:
FAX:

Workorder No.: N016679

RE: SFPP - Norwalk Site

Attention: Dan Jablonski

Enclosed are the results for sample(s) received on August 21, 2015 by ASSET Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

This is an addendum report. Please incorporate with documentation previously submitted.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (702) 307-2659 if I can be of further assistance to your company.

Sincerely,

Nancy Libucano for

Glen Gesmundo
QA Manager

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories - Las Vegas.



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11060 Artesia Blvd., Ste C, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: 10-Sep-15

CLIENT: CH2MHill
Lab Order: N016679
Project: SFPP - Norwalk Site
Lab ID: N016679-008

Client Sample ID: SB-12-10'N-082015
Collection Date: 8/20/2015 2:40:00 PM
Matrix: WATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
----------	--------	-----	-----	------	-------	----	---------------

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM

EPA 3510C

EPA 8270CSIM

RunID: MS3_150909B	QC Batch: 51283	PrepDate	8/26/2015	Analyst: MDM		
1-Methylnaphthalene	ND	0.026	0.24	ug/L	1	9/10/2015 02:36 AM
2-Methylnaphthalene	ND	0.049	0.24	ug/L	1	9/10/2015 02:36 AM
Acenaphthene	ND	0.026	0.24	ug/L	1	9/10/2015 02:36 AM
Acenaphthylene	ND	0.018	0.24	ug/L	1	9/10/2015 02:36 AM
Anthracene	ND	0.028	0.24	ug/L	1	9/10/2015 02:36 AM
Benzo(a)anthracene	ND	0.018	0.24	ug/L	1	9/10/2015 02:36 AM
Benzo(a)pyrene	ND	0.026	0.24	ug/L	1	9/10/2015 02:36 AM
Benzo(b)fluoranthene	ND	0.020	0.24	ug/L	1	9/10/2015 02:36 AM
Benzo(g,h,i)perylene	ND	0.018	0.24	ug/L	1	9/10/2015 02:36 AM
Benzo(k)fluoranthene	ND	0.031	0.24	ug/L	1	9/10/2015 02:36 AM
Chrysene	ND	0.020	0.24	ug/L	1	9/10/2015 02:36 AM
Dibenz(a,h)anthracene	ND	0.028	0.24	ug/L	1	9/10/2015 02:36 AM
Fluoranthene	ND	0.026	0.24	ug/L	1	9/10/2015 02:36 AM
Fluorene	ND	0.018	0.24	ug/L	1	9/10/2015 02:36 AM
Indeno(1,2,3-cd)pyrene	ND	0.018	0.24	ug/L	1	9/10/2015 02:36 AM
Naphthalene	ND	0.029	0.24	ug/L	1	9/10/2015 02:36 AM
Phenanthrene	ND	0.028	0.24	ug/L	1	9/10/2015 02:36 AM
Pyrene	ND	0.028	0.24	ug/L	1	9/10/2015 02:36 AM
Surr: 1,2-Dichlorobenzene-d4	54.0	0	27-100	%REC	1	9/10/2015 02:36 AM
Surr: 2-Fluorobiphenyl	58.0	0	34-135	%REC	1	9/10/2015 02:36 AM
Surr: 4-Terphenyl-d14	59.0	0	34-167	%REC	1	9/10/2015 02:36 AM
Surr: Nitrobenzene-d5	67.0	0	25-135	%REC	1	9/10/2015 02:36 AM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	S Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO Surrogate Diluted Out



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
 11060 Artesia Blvd., Ste C, Cerritos, CA 90703
 P: 562.219.7435 F: 562.219.7436

NEVADA
 3151 W. Post Rd., Las Vegas, NV 89118
 P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
Work Order: N016679
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_W_SIMPGE

Sample ID	LCS-51283	SampType: LCS	TestCode: 8270_W_SIM	Units: ug/L	Prep Date: 8/26/2015	RunNo: 102068					
Client ID:	LCSW	Batch ID: 51283	TestNo: EPA 8270CSI EPA 3510C	Analysis Date: 9/10/2015	SeqNo: 2081109						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.550	0.20	1.000	0	55.0	35	131				
2-Methylnaphthalene	0.620	0.20	1.000	0	62.0	36	121				
Acenaphthene	0.590	0.20	1.000	0	59.0	39	125				
Acenaphthylene	0.590	0.20	1.000	0	59.0	43	140				
Anthracene	0.630	0.20	1.000	0	63.0	41	132				
Benzo(a)anthracene	0.670	0.20	1.000	0	67.0	58	141				
Benzo(a)pyrene	0.630	0.20	1.000	0	63.0	31	142				
Benzo(b)fluoranthene	0.640	0.20	1.000	0	64.0	42	156				
Benzo(g,h,i)perylene	0.670	0.20	1.000	0	67.0	12	171				
Benzo(k)fluoranthene	0.740	0.20	1.000	0	74.0	49	165				
Chrysene	0.650	0.20	1.000	0	65.0	51	155				
Dibenz(a,h)anthracene	0.710	0.20	1.000	0	71.0	28	153				
Fluoranthene	0.650	0.20	1.000	0	65.0	47	158				
Fluorene	0.620	0.20	1.000	0	62.0	40	140				
Indeno(1,2,3-cd)pyrene	0.700	0.20	1.000	0	70.0	20	167				
Naphthalene	0.580	0.20	1.000	0	58.0	39	125				
Phenanthrene	0.640	0.20	1.000	0	64.0	46	144				
Pyrene	0.650	0.20	1.000	0	65.0	39	158				
Surr: 1,2-Dichlorobenzene-d4	0.460		1.000		46.0	27	100				
Surr: 2-Fluorobiphenyl	0.490		1.000		49.0	34	135				
Surr: 4-Terphenyl-d14	0.540		1.000		54.0	34	167				
Surr: Nitrobenzene-d5	0.580		1.000		58.0	25	135				

Sample ID	LCS-51283	SampType: LCS	TestCode: 8270_W_SIM	Units: ug/L	Prep Date: 8/26/2015	RunNo: 102068					
Client ID:	LCSW	Batch ID: 51283	TestNo: EPA 8270CSI EPA 3510C	Analysis Date: 9/10/2015	SeqNo: 2081109						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.490	0.20	1.000	0	49.0	35	131	0.5500	11.5	30	

Qualifiers:

- B Analyte detected in the associated Method Blank
 - J Analyte detected below quantitation limits
 - S Spike/Surrogate outside of limits due to matrix interference
 - E Value above quantitation range
 - ND Not Detected at the Reporting Limit
 - DO Surrogate Diluted Out
 - H Holding times for preparation or analysis exceeded
 - R RPD outside accepted recovery limits
- Calculations are based on raw values



CALIFORNIA
 11060 Artesia Blvd., Ste C, Cerritos, CA 90703
 P: 562.219.7435 F: 562.219.7436

NEVADA
 3151 W. Post Rd., Las Vegas, NV 89118
 P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
Work Order: N016679
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_W_SIMPGE

Sample ID	LCSD-51283	SampType:	LCSD	TestCode:	8270_W_SIM	Units:	ug/L	Prep Date:	8/26/2015	RunNo:	102068
Client ID:	LCSS02	Batch ID:	51283	TestNo:	EPA 8270CSI EPA 3510C	Analysis Date:	9/10/2015	SeqNo:	2081110		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Methylnaphthalene	0.550	0.20	1.000	0	55.0	36	121	0.6200	12.0	30	
Acenaphthene	0.520	0.20	1.000	0	52.0	39	125	0.5900	12.6	30	
Acenaphthylene	0.510	0.20	1.000	0	51.0	43	140	0.5900	14.5	30	
Anthracene	0.540	0.20	1.000	0	54.0	41	132	0.6300	15.4	30	
Benzo(a)anthracene	0.600	0.20	1.000	0	60.0	58	141	0.6700	11.0	30	
Benzo(a)pyrene	0.570	0.20	1.000	0	57.0	31	142	0.6300	10.0	30	
Benzo(b)fluoranthene	0.630	0.20	1.000	0	63.0	42	156	0.6400	1.57	30	
Benzo(g,h,i)perylene	0.590	0.20	1.000	0	59.0	12	171	0.6700	12.7	30	
Benzo(k)fluoranthene	0.590	0.20	1.000	0	59.0	49	165	0.7400	22.6	30	
Chrysene	0.580	0.20	1.000	0	58.0	51	155	0.6500	11.4	30	
Dibenz(a,h)anthracene	0.630	0.20	1.000	0	63.0	28	153	0.7100	11.9	30	
Fluoranthene	0.570	0.20	1.000	0	57.0	47	158	0.6500	13.1	30	
Fluorene	0.550	0.20	1.000	0	55.0	40	140	0.6200	12.0	30	
Indeno(1,2,3-cd)pyrene	0.620	0.20	1.000	0	62.0	20	167	0.7000	12.1	30	
Naphthalene	0.510	0.20	1.000	0	51.0	39	125	0.5800	12.8	30	
Phenanthrene	0.560	0.20	1.000	0	56.0	46	144	0.6400	13.3	30	
Pyrene	0.570	0.20	1.000	0	57.0	39	158	0.6500	13.1	30	
Surr: 1,2-Dichlorobenzene-d4	0.400		1.000		40.0	27	100		0		
Surr: 2-Fluorobiphenyl	0.430		1.000		43.0	34	135		0		
Surr: 4-Terphenyl-d14	0.490		1.000		49.0	34	167		0		
Surr: Nitrobenzene-d5	0.490		1.000		49.0	25	135		0		

Sample ID	MB-51283	SampType:	MBLK	TestCode:	8270_W_SIM	Units:	ug/L	Prep Date:	8/26/2015	RunNo:	102068
Client ID:	PBW	Batch ID:	51283	TestNo:	EPA 8270CSI EPA 3510C	Analysis Date:	9/10/2015	SeqNo:	2081111		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene	ND	0.20									
2-Methylnaphthalene	ND	0.20									
Acenaphthene	ND	0.20									
Acenaphthylene	ND	0.20									

Qualifiers:

- | | | |
|--|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits |
| S Spike/Surrogate outside of limits due to matrix interference | DO Surrogate Diluted Out | Calculations are based on raw values |



CALIFORNIA
 11060 Artesia Blvd., Ste C, Cerritos, CA 90703
 P: 562.219.7435 F: 562.219.7436

NEVADA
 3151 W. Post Rd., Las Vegas, NV 89118
 P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
Work Order: N016679
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_W_SIMPGE

Sample ID	MB-51283	SampType: MBLK	TestCode: 8270_W_SIM	Units: ug/L	Prep Date: 8/26/2015	RunNo: 102068					
Client ID:	PBW	Batch ID:	51283	TestNo:	EPA 8270CSI EPA 3510C	Analysis Date:	9/10/2015	SeqNo:	2081111		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Anthracene	ND	0.20									
Benzo(a)anthracene	ND	0.20									
Benzo(a)pyrene	ND	0.20									
Benzo(b)fluoranthene	ND	0.20									
Benzo(g,h,i)perylene	ND	0.20									
Benzo(k)fluoranthene	ND	0.20									
Chrysene	ND	0.20									
Dibenz(a,h)anthracene	ND	0.20									
Fluoranthene	ND	0.20									
Fluorene	ND	0.20									
Indeno(1,2,3-cd)pyrene	ND	0.20									
Naphthalene	ND	0.20									
Phenanthrene	ND	0.20									
Pyrene	ND	0.20									
Surr: 1,2-Dichlorobenzene-d4	0.400		1.000		40.0	27	100				
Surr: 2-Fluorobiphenyl	0.470		1.000		47.0	34	135				
Surr: 4-Terphenyl-d14	0.570		1.000		57.0	34	167				
Surr: Nitrobenzene-d5	0.580		1.000		58.0	25	135				

Qualifiers:

- | | | |
|--|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits |
| S Spike/Surrogate outside of limits due to matrix interference | DO Surrogate Diluted Out | Calculations are based on raw values |



CALIFORNIA
 11060 Artesia Blvd., Ste C, Cerritos, CA 90703
 P: 562.219.7435 F: 562.219.7436

NEVADA
 3151 W. Post Rd., Las Vegas, NV 89118
 P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

Attachment D Nonhazardous Waste Manifest

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: **C A T 0 8 0 0 3 3 9 6 2** 2. Page 1 of **1** 3. Emergency Response Phone: **800-424-9300** 4. Waste Tracking Number: **NH-192445**

5. Generator's Name and Mailing Address: **SFPP, LP
1100 Town & Country Rd
Orange CA 92888**
Generator's Phone: **714-560-4873**
Generator's Site Address (if different than mailing address): **SFPP, L.P. Norwalk Station
15306 Norwalk Blvd
Norwalk CA 90851**
Att: **Karina Hankins**

6. Transporter 1 Company Name: **Environmental Logistics, Inc.** U.S. EPA ID Number: **C A P 0 0 0 1 7 2 4 6 0**

7. Transporter 2 Company Name: _____ U.S. EPA ID Number: _____

8. Designated Facility Name and Site Address: **Filter Recycling Services, Inc.
180 W. Monte Avenue
Bloomington CA 92316**
Facility's Phone: **909-421-2012**
U.S. EPA ID Number: **C A D 0 8 2 4 4 4 4 8 1**

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	
	No.	Type			
1. Non-Hazardous Waste Solid (Fuel Filters - Non-Haz)	2	DM	400	P	
2. Non-Hazardous Waste Solid (TPH Contaminated Solids - Non-Haz)	1	DM	150	P	
3. Non-Hazardous Waste Solid (TPH Contaminated Soil - Non-Haz)	1	DM	200	P	
4.					

13. Special Handling Instructions and Additional Information:
1) Groundwater Treatment System downstream bag Filters - 12031526 2) Rags/Gloves from Treatment System Maintenance - 12031525 3) Soil from site investigation borings - 12031521 Invoice #182445
**2X55
2X55
1X55**

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offor's Printed/Typed Name: **Patrick Lynn** Signature: _____ Month: **10** Day: **2** Year: **15**

15. International Shipments: Import to U.S. Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: **Enrique Lopez** Signature: _____ Month: **10** Day: **2** Year: **15**

Transporter 2 Printed/Typed Name: _____ Signature: _____ Month: _____ Day: _____ Year: _____

17. Discrepancy

17a. Discrepancy Indication Space: Quantity Type Residue Partial Rejection Full Rejection

Manifest Reference Number: _____ U.S. EPA ID Number: _____

17b. Alternate Facility (or Generator): _____ U.S. EPA ID Number: _____

Facility's Phone: _____

17c. Signature of Alternate Facility (or Generator): _____ Month: _____ Day: _____ Year: _____

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: **Sarah Amick** Signature: _____ Month: **10** Day: **5** Year: **15**

GENERATOR
INTL
TRANSPORTER
DESIGNATED FACILITY