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April 22, 2014

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

Subject: Letter of Transmittal for First Quarter 201 Groundwater Monitoring Report, Former McGrath Steel, 6655 Hollis Street, Emeryville, California 94608, ACEH Fuel Leak Case No. RO0000063, GeoTracker Global ID No. T0600102099

Dear Mr. Detterman:

As required in your letters of November 8, 2013 and November 8, 2012 and proposed in the AllWest Environmental, Inc. *Additional Site Characterization Workplan Addendum* dated July 31, 2012, we submit this transmittal letter and accompanying *First Quarter 2014 Groundwater Monitoring Report*.

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

Sincerely,

MCG Investments LLC, A California Limited Liability Company

Walter F. Merkle Authorized Agent



Specialists in Physical Due Diligence and Remedial Services

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#### FIRST QUARTER 2014 GROUNDWATER MONITORING REPORT

Former McGrath Steel 6655 Hollis Street and 1471 67<sup>th</sup> Street Emeryville, California

Alameda County Fuel Leak Case # RO0000063 GeoTracker Facility Global ID # T0600102099

PREPARED FOR:

Mr. Walter F. Merkle MCG Investments, LLC c/o Kay & Merkle 100 The Embarcadero – Penthouse San Francisco, California 94105

ALLWEST PROJECT 14011.28 April 22, 2014

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Former McGrath Steel 6655 Hollis Street and 1471 67<sup>th</sup> Street Emeryville, California

Alameda County Fuel Leak Case # RO0000063 GeoTracker Facility Global ID # T0600102099

#### I. INTRODUCTION

AllWest conducted quarterly groundwater monitoring on March 19, 2014 at the property referenced above ("the subject site", Figure 1). The monitoring was performed to evaluate potential free product and concentrations of petroleum hydrocarbons and volatile organic compounds (VOCs) in groundwater at the subject site.

#### II. PROJECT BACKGROUND

The subject property is located at the southwest corner of the intersection of Hollis and 67<sup>th</sup> Streets in a commercial and industrial district of the City of Emeryville, Alameda County, California. A site vicinity map is included as Figure 1.

The subject property consists of two parcels (Assessor's Parcel Numbers 049-1511-01 and 049-1511-014). Parcel 01, on the southwest corner of Hollis and 67<sup>th</sup> Streets at the 6655 Hollis Street address, is developed with an approximately 4,100 square foot two-story commercial office building constructed in 1947, and a smaller metal tool shed building. Parcel 14, to the west of Parcel 1 at the 1471 67<sup>th</sup> Street address, is developed with an approximately 15,246 square foot light industrial warehouse building constructed circa 1946 (Stellar, 2011).

The subject property was last occupied by CMC Rebar. The property currently appears to be vacant, although a neighboring painting contracting business, Giampolini & Co., appears to be using the Parcel 14 structure. Two USTs formerly present under the

sidewalk in front of the warehouse at 1471 67<sup>th</sup> Street were removed in 1996. A site plan with former UST locations and historical and current boring and monitoring well locations is included as Figure 2.

Site location and description, background information, and a summary of previous investigations, remedial actions and monitoring activities have been summarized in our *Additional Site Characterization and Interim Remedial Action Workplan* (AllWest, 2011), *Additional Site Characterization Workplan Addendum* (AllWest, 2012a), *Subsurface Investigation* (AllWest, 2013b), *Additional Site Characterization and Monitoring Well Installation Report* (AllWest, 2013e), and *Fourth Quarter 2013 Groundwater Monitoring* (AllWest, 2014).

On December 31, 2013, a Geotech PRC 1-liter capacity product recovery canister-type passive skimming device was placed in well MW-3 (AllWest, 2014).

#### III. PURPOSE AND SCOPE OF WORK

The purpose of this investigation was the monitoring and evaluation of the extent of LNAPL, adsorbed and dissolved-phase petroleum hydrocarbons in soil and groundwater in the vicinity of the former UST and dispenser source area at the subject property, and in the hydraulically down-gradient and cross-gradient directions. The scope of work, as proposed, consisted of the following tasks:

- 1. Monitored and emptied the passive skimming device in monitoring well MW-3 on a monthly basis;
- 2. Measured groundwater levels and potential free product (LNAPL) thickness, purged a minimum of three casing volumes and collected groundwater samples from groundwater monitoring wells AMW-1, AMW-2 and AMW-3, and MW-3;
- 3. Maintained groundwater samples under chain-of-custody and transported them to a Department of Health Services (DHS) certified analytical laboratory for chemical analyses. Analyzed one groundwater sample from each monitoring well for total petroleum hydrocarbons as gasoline (TPH-g) and total petroleum hydrocarbons as mineral spirits (TPH-ms) by analytical method SW8021B/8015Bm, for total petroleum hydrocarbons as diesel (TPH-d) by analytical method 8015 with silica gel cleanup, for VOCs by analytical method SW8260B (full scan) and for polynuclear aromatic hydrocarbons (PNAs/PAHs) by analytical method SW8270C-SIM;
- 4. Prepared a written report describing the sampling event, laboratory data, investigation findings, conclusions and recommendations.

#### IV. FIELD ACTIVITIES

On February 26, 2014, AllWest monitored the passive skimming device in monitoring well MW-3. After removing the skimmer from the well, an electric oil/water interface sounding probe was lowered into the well casing to measure the depth to water and thickness of any potential floating free product to the nearest 0.01 feet below top of casing (TOC). The depth to water in the well was measured at 8.92 feet below top of casing TOC. A sheen and droplets were observed in the skimmer. No free product layer was measured in the well casing.

On March 19, 2014, prior to well purging, an electric oil/water interface sounding probe was lowered into the well casings to measure the depth to the water and thickness of any potential floating free product to the nearest 0.01 feet below TOC. Depth to groundwater ranged from 7.25 feet below TOC in AMW-3 to 8.81 feet below TOC in MW-3. No product or sheen were detected or observed in any of the monitoring wells AMW-1, AMW-2 or AMW-3. No floating free product (LNAPL) was detected in monitoring well MW-3 by the electric oil/water interface probe; however, sheen and droplets were observed in the passive skimming device. Depth to groundwater and free product thickness data are included in Table 2.

A new, disposable polyethylene bailer was lowered into each well casing and partially submerged. Upon bailer retrieval, the surface water was retained and examined for any floating product or product sheen. After all initial measurements were completed and recorded, a minimum of three well casing volumes of groundwater were purged with a new, disposable polyethylene bailer. Groundwater characteristics, temperature, pH and conductivity were monitored at each well volume interval. Purging was continued until groundwater parameters stabilized to within 10%.

Groundwater sampling was conducted after water levels recovered to at least 80% of initial level, recorded prior to purging. Groundwater samples were collected from each well with new, disposable polyethylene bailers. Upon bailer retrieval, the water was transferred to appropriate sample bottles furnished by the analytical laboratory. 40-milliliter (ml) volatile organic analysis (VOA) glass vials preserved with hydrochloric acid (HCl) were used for TPH-g, TPH-ms, and VOC analysis. Samples for TPH-d analysis were collected in one 1-liter amber glass bottle preserved with HCl solution. Samples for PNAs/PAHs analysis were collected in one 1-liter unpreserved amber glass bottle. All sample bottles for VOA had Teflon lined septum/caps and were filled so that no headspace was present. The sample bottles were then labeled and placed in an iced cooler for transport under chain-of-custody control to the analytical laboratory.

To help prevent cross-contamination, all groundwater sampling equipment that came into contact with groundwater was decontaminated prior to sampling. To minimize the possibility of cross-contamination, a new disposable bailer was used to collect each groundwater sample. Well purge water was temporarily stored at the property in a 55-gallon drum, awaiting test results to determine the proper disposal method.

Standard groundwater sampling procedures are included in Appendix A. Groundwater purging and sampling field logs are included in Appendix B.

#### V. QUALITY ASSURANCE/QUALITY CONTROL PROGRAM

#### A. Sample Preservation, Storage and Handling

To prevent the loss of constituents of interest, all groundwater samples were preserved by storing in an ice chest cooled to 4°C with crushed ice immediately after their collection and during transportation to the laboratory. Samples were stored within the cooler in separate zip-lock plastic bags to avoid crosscontamination.

#### B. Chain-Of-Custody Program

All samples collected for this project were transported under chain-of-custody protocol. The chain-of-custody program allows for the tracing of possession and handling of individual samples from the time of field collection through laboratory analysis. The document includes the signature of the collector, date and time of collection, sample number, number and type of sample containers including preservatives, parameters requested for analysis, signatures of persons and inclusive dates involved in the chain of possession. Upon delivery to the laboratory the document also includes the name of the person receiving the samples, and date and time samples were received. Copies of chain-of-custody documentation are included in Appendix C.

#### VI. ANALYTICAL METHODS

Groundwater samples from the monitoring wells AMW-1, AMW-2, AMW-3 and MW-3 were analyzed for TPH-g and TPH-ms by analytical method SW8021B/8015Bm, for TPH-d by analytical method SW8015B with silica gel cleanup, for VOCs by analytical method 8260B, and for PNAs/PAHs by analytical method SW8270C-SIM.

All samples were analyzed by a State of California certified independent analytical laboratory, McCampbell Analytical, Inc., of Pittsburg, California. All samples were analyzed on standard five-day turn-around time. Chain of custody documents and laboratory analytical reports are included in Appendix C.

#### VII. ASSESSMENT FINDINGS

#### A. Groundwater Observations

No floating free product (LNAPL) was measured or observed in monitoring well MW-3 on the February 26, 2014 monitoring event; however, sheen and droplets were observed in the passive skimming device. Depth to water in well MW-3 after the removal of the product skimmer was 8.92 feet below TOC.

On March 19, 2014, depths to groundwater ranged from 7.25 feet below TOC in AMW-3 to 8.81 feet below TOC in MW-3. No LNAPL was measured or observed in monitoring well MW-3; sheen and droplets were observed in the passive skimming device. The well with the highest groundwater elevation was AMW-3 at 17.91 feet above NAVD 1988 datum; the well with the lowest groundwater elevation was AMW-1 at 14.36 feet above NAVD 1988 datum.

The wellhead elevation data along with depth to water measurements were used to calculate local groundwater flow direction and gradient. The direction of groundwater flow was to the southwest at a gradient of 0.02 feet per foot. A groundwater elevation contour map is included as Figure 3.

#### **B.** Groundwater Analytical Data

TPH-g was detected in groundwater samples from AMW-2, AMW-3 and MW-3 at a maximum concentration of 87,000 micrograms per liter ( $\mu$ g/L) in monitoring well MW-3. TPH-ms was detected in groundwater samples from AMW-2, AMW-3 and MW-3 at a maximum concentration of 40,000  $\mu$ g/L in the groundwater sample from monitoring well MW-3; however, this concentration probably represents TPH-g within the TPH-ms (C9-C12) range, since gasoline-range compounds were characterized as significant, and mineral spirits were not historically stored in the McGrath USTs.

TPH-d with gasoline range compounds characterized as significant was detected in groundwater samples from AMW-2, AMW-3 and MW-3 at a maximum concentration of 11,000  $\mu$ g/L in the groundwater sample from MW-3.

Benzene, ethylbenzene and total xylenes were detected in AMW-2 and MW-3 at maximum concentrations of 5,500  $\mu$ g/L, 2,000  $\mu$ g/L, and 11,000  $\mu$ g/L, all in the groundwater sample collected from monitoring well MW-3. Ethylbenzene was also detected in AMW-3 at a concentration of 9.3  $\mu$ g/L. Toluene was detected in MW-3 at a concentration of 7,200.

MTBE was detected in AMW-2 and MW-3 at a maximum concentration of 4,400  $\mu$ g/L in the groundwater sample from MW-3.

Other VOCs detected in groundwater samples from all wells during this investigation included tertiary butyl alcohol (TBA), naphthalene, n-propyl benzene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, 1,1-dichloroethene, and trichloroethene (TCE) at maximum respective concentrations of 1,500  $\mu$ g/L, 480  $\mu$ g/L, 340  $\mu$ g/L, 2,600  $\mu$ g/L, 780  $\mu$ g/L, 240  $\mu$ g/L, and 19  $\mu$ g/L. These COCs were all detected in MW-3 except for 1,1-dichloroethene and TCE in AMW-3. Groundwater analytical results for total petroleum hydrocarbons and VOCs are summarized in Table 3 and Figures 4, 5 and 6.

PNAs/PAHs were detected in groundwater samples collected from AMW-2, AMW-3 and MW-3 during this investigation were 1-methylnaphthalene, 2methylnaphthalene, and naphthalene at maximum respective concentrations of 80  $\mu$ g/L, 150  $\mu$ g/L, and 360  $\mu$ g/L in MW-3. PNA/PAH groundwater analytical results are summarized in Table 4. No other COCs were detected at or above laboratory reporting limits in any groundwater samples analyzed during this investigation. Laboratory analytical reports and chain of custody documents are included in Appendix C.

#### C. Laboratory QA/QC

A review of groundwater laboratory internal quality assurance/quality control (QA/QC) reports indicates the method blank and sample spike data for all analyses were within the laboratory recovery limits. The samples were also analyzed within the acceptable EPA holding times. The data from the McCampbell Laboratories are considered to be of good quality. Laboratory analytical reports and chain-of-custody records are included in this report as Appendix C.

#### VIII. DISCUSSION

Groundwater elevations increased by an average of approximately 1.56 feet between the fourth quarter 2013 and first quarter 2014 monitoring events (Table 2). Groundwater flow direction and gradient were consistent between the fourth quarter 2013 and first quarter 2014 monitoring events (Figure 3).

No free floating light non-aqueous phase liquid (LNAPL) hydrocarbons (free product) was measured or observed in monitoring well MW-3 in the former UST vicinity during the February 26 monitoring event or March 19 groundwater sampling event; sheen and droplets were observed in the passive product skimmer on both dates. The lateral extent of free product appears to be limited to monitoring well MW-3.

To assess if the identified constituents of concern (COCs) in soil and groundwater pose a risk to human health and the environment, concentrations were compared with ESLs for commercial/industrial land use where groundwater is not a potential drinking water

resource compiled by the SFRWQCB in *Screening for Environmental Concerns at Sites With Contaminated Soil and Groundwater*, Interim Final – December 2013. Although the SFRWQCB *Basin Plan* has designated groundwater in the site vicinity as a potential drinking water resource (SFRWQCB, June 2013), groundwater in the subject site vicinity is not currently used as a drinking water resource. According to the City of Emeryville Public Works Department, a City ordinance prohibits use of groundwater for drinking water purposes due to widespread regional contamination, and no plans exist for future beneficial use.

AllWest compared groundwater sample analytical results to the SFRWQCB ESLs from *Table F-1b, Groundwater Screening Levels, Groundwater is not a Current or Potential Source of Drinking Water;* and *Table E-1, Groundwater Screening Levels for Evaluation of Potential Vapor Intrusion, Commercial/Industrial Land Use* (RWQCB, Interim Final – December 2013).

TPH-g was detected in concentrations exceeding its non-drinking water ESL of 500  $\mu$ g/L in two groundwater samples collected during this monitoring event at a maximum concentration of 87,000  $\mu$ g/L in monitoring well MW-3. TPH-ms was detected in concentrations exceeding its non-drinking water ESL of 500  $\mu$ g/L in one groundwater sample collected during this investigation at a maximum concentration of 40,000  $\mu$ g/L in monitoring well MW-3; however, this probably represents TPH-g within the TPH-ms range. TPH-d was detected in concentrations exceeding its non-drinking water ESL of 640  $\mu$ g/L in one groundwater sample collected during this investigation at a concentration of 11,000  $\mu$ g/L in monitoring well MW-3. Groundwater vapor intrusion ESLs have not been established for TPH-g, TPH-ms or TPH-d.

Benzene was detected at concentrations exceeding its non-drinking water ESL of 27  $\mu$ g/L in two groundwater samples, and exceeding its vapor intrusion ESL of 270 µg/L in one sample at a concentration of 5,500 µg/L in MW-3. Toluene was detected at a concentration exceeding its non-drinking ESL of 130 µg/L in one groundwater sample, at a concentration of 7,200 µg/L in MW-3. The commercial/industrial vapor intrusion ESL has not been established for toluene; however, it was not detected at a concentration exceeding its residential vapor intrusion ESL of 95,000 µg/L. Ethylbenzene was detected at a concentration exceeding its non-drinking water ESL of 43 µg/L in one groundwater sample at a maximum concentration of 2,000 µg/L in monitoring well MW-3, but not exceeding its vapor intrusion ESL of 3,100 µg/L. Total xylenes were detected at concentrations exceeding its non-drinking water ESL of 100 µg/L in one groundwater sample, at a maximum concentration of 11,000 µg/L in monitoring well MW-3. The commercial/industrial vapor intrusion ESL has not been established for xylenes; however, it was not detected at a concentration exceeding its residential vapor intrusion ESL of 37,000 µg/L. MTBE was detected at a concentration exceeding its non-drinking ESL of 1,800 µg/L in one groundwater sample at a concentration of 4,400 in MW-3. MTBE did not exceed its vapor intrusion ESL of 100,000 µg/L in any of the groundwater samples collected.

2-methylnaphthalene was detected at concentrations exceeding its non-drinking water ESL of 2.1  $\mu$ g/L in three groundwater samples, at a maximum concentration of 150  $\mu$ g/L in MW-3. Vapor intrusion ESLs have not been established for 2-methylnaphthalene. Naphthalene was detected at concentrations exceeding its non-drinking water ESL of 24  $\mu$ g/L in one groundwater sample; naphthalene did not exceed its vapor intrusion ESL of 1,600  $\mu$ g/L in any of the groundwater samples collected. No other COCs were detected in groundwater samples analyzed in this investigation at concentrations exceeding established applicable ESLs. Groundwater analytical data and drinking water, non-drinking water and vapor intrusion ESLs are summarized in Tables 3 and 4. TPH-g, TPH-d and benzene isoconcentration maps are shown as Figures 4, 5 and 6, respectively.

#### IX. CONCLUSIONS AND RECOMMENDATIONS

AllWest conducted quarterly monitoring of four groundwater monitoring wells (AMW-1, AMW-2, AMW-3 and MW-3) at the subject site to further assess the extent of LNAPL, adsorbed and dissolved-phase petroleum hydrocarbons in groundwater in the vicinity of the former UST and dispenser source area at the subject property, and in the hydraulically down-gradient and cross-gradient directions.

TPH-g, TPH-ms, TPH-d, benzene, toluene, ethylbenzene and total xylenes (BTEX), MTBE, 2-methylnaphthalene and naphthalene were identified in groundwater samples at concentrations exceeding corresponding and applicable SFRWQCB commercial/industrial non-drinking water ESL values. Benzene was detected in groundwater sample MW-1 exceeding corresponding commercial/industrial vapor intrusion ESLs. Therefore, a potential soil vapor intrusion impact to indoor air quality may occur within the former McGrath Steel warehouse building at 1471 67<sup>th</sup> Street and the MetalCo building at 1475 67<sup>th</sup> Street, located adjacent to the areas of elevated COC concentrations.

The down-gradient extent of the adsorbed and dissolved phase petroleum hydrocarbon plume in soil and groundwater is largely defined and extends from the vicinity of the former McGrath Steel USTs to the west along 67<sup>th</sup> Street to the vicinity of monitoring well AMW-1 west of the former Clearprint Paper Company USTs. The highest COC concentrations occur in monitoring well MW-3 in the vicinity of the former McGrath Steel USTs. The cross-gradient extent of the adsorbed and dissolved phase hydrocarbon plume has not been fully defined, particularly south of 67<sup>th</sup> Street. Measurable free product thickness was not observed in well MW-3 during this quarter, although product droplets and sheen were observed in the passive skimming device.

AllWest recommends continuing quarterly groundwater monitoring at the subject site in the monitoring wells AMW-1, AMW-2, AMW-3, and MW-3. AllWest also recommends continuing interim remedial action of free product in monitoring well MW-3 following the installation of a passive product skimming device placed in the well on December 31, 2013. AllWest recommends inspecting the passive skimmer on a monthly basis, and

emptying it of product if necessary. Depending on product recovery rates, this may be reduced to a quarterly interval if warranted. Recovered product will be contained in a drum onsite pending profiling for transport to an off-site disposal facility.

#### X. LIMITATIONS

The work described in this report is performed in accordance with the Environmental Consulting Agreement between MCG Investments, LLC (Client) and AllWest Environmental, Inc, dated February 2014. AllWest has prepared this report for the exclusive use of the Client for this particular project and in accordance with generally accepted practices at the time of the work. No other warranties, certifications or representations, either expressed or implied are made as to the professional advice offered. The services provided for the Client were limited to their specific requirements; the limited scope allows for AllWest to form no more than an opinion of the actual site conditions. No matter how much research and sampling may be performed, the only way to know about the actual composition and condition of the subsurface of a site is through excavation.

The conclusions and recommendations contained in this report are made based on observed conditions existing at the site, laboratory test results of the submitted samples, and interpretation of a limited data set. It must be recognized that changes can occur in subsurface conditions due to site use or other reasons. Furthermore, the distribution of chemical concentrations in the subsurface can vary spatially and over time. The results of chemical analysis are valid as of the date and at the sampling location only. AllWest is not responsible for the accuracy of the test data from an independent laboratory, or for any analyte quantities falling below the recognized standard detection limits or for the method utilized by the independent laboratories.

Background information that AllWest has used in preparing this report, including but not limited to previous field measurements, analytical results, site plans, and other data, has been furnished to AllWest by the Client, its previous consultants, and/or third parties. AllWest has relied on this information as furnished. AllWest is not responsible for nor has it confirmed the accuracy of this information.

#### XI. REFERENCES

Alameda County Environmental Health Services, 2005. Fuel Leak Site Case Closure, Clearprint Paper Co. June 27.

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### TABLES

TABLE 1         Summary of Well Construction Details         Former McGrath Steel         6655 Hollis Street         Emeryville, California         AllWest Project No. 13019.23											
Well Number	Casing Diameter (inches)	Borehole Diameter (inches)	Total Depth of Well (feet bgs)	Top- Bottom of Screen (feet bgs)	Screen Length (feet)	Top- Bottom of Filter Pack (feet bgs)					
MW-3	2	8	29	9-29	20	7-29.5					
AMW-1	2	8	24	9-24	15	7-24					
AMW-2	2	8	24	9-24	15	7-24					
AMW-3	2	8	23	8-23	15	6-23					

#### Notes:

bgs below ground surface

# TABLE 2Summary of Groundwater Elevation DataFormer McGrath Steel6655 Hollis StreetEmeryville, CaliforniaAllWest Project No. 14011.28

Well Number	Date	TOC Elevation (feet msl)	Ground Surface Elevation (feet msl)	Depth to Groundwater (feet below TOC)	Product Thickness (feet)	Groundwater Surface Elevation (feet msl) <sup>a</sup>	
MW-3	10/17/1995	22.73	23.17	9.42	0.00	13.31	
MW-3	11/21/1995	22.73	23.17	9.85	0.00	12.88	
MW-3	12/23/1995	22.73	23.17	8.52	0.00	14.21	
MW-3	1/15/1996	22.73	23.17	8.72	0.00	14.01	
MW-3	2/16/1996	22.73	23.17 7.08		0.04	15.68	
MW-3	3/28/1996	22.73	23.17	6.78	0.03	15.97	
MW-3	8/22/2005	22.73	23.17	12.36	0.00	10.37	
MW-3	12/20/2005	22.73	23.17	10.82	0.00	11.91	
MW-3	9/14/2011*	22.73	23.17	11.05	3	13.93	
MW-3	7/30/2012	22.73	23.17	11.52	2.65	13.20	
MW-3	8/2/2012	22.73	23.17	9.22	1.12	14.35	
MW-3	12/18/2012	22.73	23.17	8.91	0.00	13.82	
MW-3	3/27/2013	22.73	23.17 8.57		0.20	14.31	
MW-3	6/27/2013	22.73	23.17	9.90	0.00	12.83	
MW-3	8/7/2013	25.55	26.00	9.09	0.41	16.77	
MW-3	11/6/2013	25.55	26.00	9.30	0.15	16.36	
MW-3	12/31/2013*	25.55	26.00	9.16	0.01	16.40	
MW-3	2/26/2014*	25.55	26.00	8.92	0.00	16.63	
MW-3	3/19/2014	25.55	26.00	8.81	0.00	16.74	
AMW-1	8/7/2013	22.09	22.54	9.54	0.00	12.55	
AMW-1	11/6/2013	22.09	22.54	9.62	0.00	12.47	
AMW-1	3/19/2014	22.09	22.54	7.73	0.00	14.36	
AMW-2	8/7/2013	23.43	23.73	9.96	0.00	13.47	
AMW-2 AMW-2	11/6/2013	23.43	23.73	10.36	0.00	13.07	
AMW-2 AMW-2	3/19/2013	23.43	23.73	8.50	0.00	14.93	
	3/17/2014	<b>43.4</b> 3	43,13	0.50	0.00	17.75	
AMW-3	8/7/2013	25.16	25.50	8.94	0.00	16.22	
AMW-3	11/6/2013	25.16	25.50	9.34	0.00	15.82	
AMW-3	3/19/2014	25.16	25.50	7.25	0.00	17.91	

# TABLE 2Summary of Groundwater Elevation DataFormer McGrath Steel6655 Hollis StreetEmeryville, CaliforniaAllWest Project No. 14011.28

Well Number	Date	TOC Elevation (feet msl)Ground Surface Elevation (feet msl)Depth to 		Product Thickness (feet)	Groundwater Surface Elevation (feet msl) <sup>a</sup>						
Notes:	Notes:										
*	Groundwater level measurement only, no sampling										
TOC	Top of Well C	asing									
feet msl	Well MW-3 ground surface and TOC elevations surveyed to feet above mean sea level (msl) per City of Emeryville Datum, BM#5 by Triad/Holmes Associates October 17, 1995. All ground surface and TOC elevations re-surveyed to NAD 1983 and NAVD 1988 datum by Morrow Surveying, Inc., August 13, 2013.										
a NM	Groundwater elevation corrected for free product thickness, assuming density of 0.75 for gasoline. Not Measured										

## TABLE 3 Summary of Groundwater Analytical Data Total Petroleum Hydrocarbons and VOCs Former McGrath Steel 6655 Hollis Street Emeryville, California AllWest Project No. 13166.28

Sample /	Date							Ethyl-	Total		
Field	Sampled	TPH-g	TPH-ms	TPH-d	TPH-mo	Benzene	Toluene	benzene	Xylenes	MTBE	Other VOCs
Point	_	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
MW-3	10/17/1995	8,600	ND <100	220	NA	730	2,100	270	1,400	NA	NA
MW-3 qualifiers	8/22/2005	39,000	NA	<b>2,500</b> L,Y	NA	3,100	3,800	1,100	4,700	7,200	Oxygenates - ND (varies)
MW-3 qualifiers	12/20/2005	54,000	NA	2,600 L,Y	NA	6,000	10,000	1,700	9,600	12,000	Oxygenates - ND (varies)
MW-3	8/2/2012	27,000	<b>14,000</b> d1	<b>33,000</b> e4, e2	680 e4, e2	1,300	3,800	400	4,500	630	400 (TBA), 110 (trans-1,3- dichloropropene), 250 (naphthalene), 1,100 (1,2,4- trimethylbenzene), 280 (1,3,5- trimethylbenzene), ND (others - varies)
MW-3 qualifiers	12/18/2012	21,000	<b>12,000</b> d1	<b>2,600</b> e4	ND <250 e4	830	1,400	450	2,600	840	140 (naphthalene), 630 (1,2,4- trimethylbenzene), 78 (n- propyl benzene), 190 (1,3,5- trimethylbenzene), ND (others - varies)
MW-3	6/27/2013	18,000	NA	<b>2,300</b> e4	NA	1,900	2,000	540	2,700	1,900	520 (TBA), 170 (naphthalene), 650 (1,2,4-trimethylbenzene), 84 (n-propyl benzene), 200 (1,3,5-trimethylbenzene), ND, reporting limits vary (others)
MW-3	8/7/2013	130,000	54,000	24,000	NA	9,800	16,000	4,200	24,000	6,300	1,100 (naphthalene), 5,200 (1,2,4-trimethylbenzene), 620 (n-propyl benzene), 1,500 (1,3,5-trimethylbenzene), others ND, reporting limits vary
qualifiers		d1, b6	d1, b6	e4, b6		b6, c8	b6, c8	b6, c8	b6, c8	b6, c8	b6, c8
MW-3	11/6/2013	49,000	<b>19,000</b>	6,400	NA	3,200	4,900	2,100	11,000	2,600	700 (TBA), 140 (n-butyl benzene), 130 (isopropylbenzene), 690 (naphthalene), 460 (n-propyl benzene), 3,200 (1,2,4- trimethylbenzene) 1,000 (1,3,5- trimethylbenzene), others ND, reporting limits vary
qualifiers		d1, b6	d1, b6	e4		c8	c8	c8	c8	c8	c8 1,500 (TBA), 480
MW-3 qualifiers	3/19/2014	<b>87,000</b> d1	<b>40,000</b> d1	<b>11,000</b> e4	NA	5,500	7,200	2,000	11,000	4,400	(naphthalen), 340 (n.propyl benzene), 2,600 (1,2,4- trimethylbenzene) 780 (1,3,5- trimethylbenzene), others ND, reporting limits vary
AMW-1	8/7/2013	ND <50	ND <50	110	NA	ND <1.2	ND <1.2	ND <1.2	ND <1.2	2.5	2.0 (1,1-dichloroethane), 39 (1,1-dichloroethane), 7.3 (TCE), ND (others, reporting limits varv)
qualifiers		b1	b1	e7, e1, b1		b1	b1	b1	b1	b1	b1

## TABLE 3 Summary of Groundwater Analytical Data Total Petroleum Hydrocarbons and VOCs Former McGrath Steel 6655 Hollis Street Emeryville, California AllWest Project No. 13166.28

Sample / Field	Date Sampled	TPH-g	TPH-ms	TPH-d	TPH-mo	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	Other VOCs
Point		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	$(\mu g/L)$	(µg/L)	(µg/L)	(µg/L)
AMW-1 qualifiers	11/6/2013	ND <50 c4	ND <50 c4	ND <50	NA	ND <1.0	ND <1.0	ND <1.0	ND <1.0	2.4	2.0 (1,1-dichloroethane), 50 (1,1-dichloroethene), 7.6 (TCE), ND (others, reporting limits varv)
AMW-1	3/19/2014	ND <50	ND <50	ND <50	NA	ND <5.0	ND <5.0	ND <5.0	ND <5.0	ND <5.0	83 (1,1-dichloroethene), 7.2 (TCE), ND (others, reporting limits vary)
qualifiers		c2, b1	c2, b1	b1		b1	b1	b1	b1	b1	b1
AMW-2	8/7/2013	1,300	550	210	NA	66	74	48	280	350	22 (naphthalene), 46 (1,2,4- trimethylbenzene), 6.4 (n- propyl benzene), 29 (1,3,5- trimethylbenzene, ND (others, renorting limits varv)
qualifiers		d1, b1	d1, b1	e4, e2, b1		b1	b1	b1	b1	b1	b1 7.2 (n-butyl benzene), 7.2
AMW-2	11/6/2013	<b>2,200</b> d1	<b>1,400</b> d1	<b>330</b> e4	NA	130	16	120	270	330	(isopropylbenzene), 54 (naphthalene), 23 (n-propyl benzene), 150 (1,2,4- trimethylbenzene), 49 (1,3,5- trimethylbenzene, ND (others, reporting limite vary)
quanners		aı	di	64							14 (naphthalene), 6.2 (n-propyl
AMW-2	3/19/2014	550	430	190	NA	30	ND <5.0	17	19	300	benzene), 38 (1,2,4- trimethylbenzene), 6.0 (1,3,5- trimethylbenzene, ND (others, reporting limits vary)
qualifiers		d1	d1	e4							
AMW-3	8/7/2013	<b>2,000</b> d1, b1	<b>1,000</b> d1, b1	<b>340</b> e4, e2, b1	NA	17	72	83	360	ND <5.0	7.4 (n-butyl benzene), 18 (naphthalene), 76 (1,2,4- trimethylbenzene), 5.2 (1,1- dichloroethane), 140 (1,1- dichloroethane), 18 (n-propyl benzene), 5.3 (1,1,1- trichloroethane), 20 (TCE), 39 (1,3,5-trimethylbenzene), ND (others, reporting limits vary)
											5.4 (1,1-dichloroethane), 180
AMW-3	11/6/2013	110	99	130	NA	ND <5.0	ND <5.0	ND <5.0	ND <5.0	ND <5.0	(1,1-dichloroethene), 6.1 (1,1,1- trichloroethane), 22 (TCE), ND (others, reporting limits varv)
qualifiers		d1, c4	d1, c4	e4		c8	c8	c8	c8	c8	c8 240 (1,1-dichloroethene), 9.0
AMW-3	3/19/2014	140	110	130	NA	ND <5.0	ND <5.0	9.3	ND <5.0	ND <5.0	(naphthalene), 19 (TCE), ND (others, reporting limits vary)
qualifiers		d1, c4	d1, c4	e4							c8 0.5 (1,2-DCA), 12 (TBA), 5.0
Commerci	QCB al/Industrial king water*	100	100	100	100	1.0	40	30	20	5.0	(TCE), 0.5 (1,3- dichloropropene) 6.1 (naphthalene) NE or varies (others)
Commerci ESLs, no	QCB al/Industrial n-drinking nter*	500	500	640	640	27	130	43	100	1,800	100 (1,2-DCA), 18,000 (TBA), 130 (TCE), 24 (1,3-dichloropropene) 24 (naphthalene) NE or vary (others)
Commerci	QCB al/Industrial or intrusion	NE	NE	NE	NE	270	NE (95,000**)	3,100	NE (37,000**)	100,000	1,000 (1,2-DCA), 1,300 (TCE), 260 (1,3-dichloropropene) 1,600 (naphthalene) NE or vary (others)

## TABLE 3 Summary of Groundwater Analytical Data Total Petroleum Hydrocarbons and VOCs Former McGrath Steel 6655 Hollis Street Emeryville, California AllWest Project No. 13166.28

Sample / Field	Date Sampled	TPH-g	TPH-ms	TPH-d	TPH-mo	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	Other VOCs
Point		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)

Notes:

All results are reported in micrograms per liter (µg/L) except where noted.

- 1,2-DCA 1,2-dichloroethane, Analytical Method SW8260B
- TCE trichloroethene, Analytical Method SW8260B
- TPH-g Total petroleum hydrocarbons as gasoline, Analytical Method SW8260B, except samples collected on 10/17/95, 8/22/05 and 12/20/05 Analytical Method SW8015Bm

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

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

- TPH-mo Total petroleum hydrocarbons as motor oil, C18-C36, Analytical Method SW8015B with silica gel cleanup
- MTBE Methyl tertiary butyl ether, Analytical Method SW8260B
- TBA Tertiary butyl alcohol, Analytical Method SW8260B
- BTEX Benzene, Toluene, Ethylbenzene, Xylenes, Analytical Method SW8021B on 10/17/95 only; Analytical Method SW8260B on all other dates
- VOCs Volatile organic compounds, Analytical Method SW8260B
- ND <100 Not detected at or above listed reporting limit
- NE Not established
- NA Not analyzed

San Francisco Bay Regional Water Quality Control Board (SFRWQCB) Environmental Screening Levels (ESLs) for groundwater where groundwater is a potential drinking water resource from Table F-1a, *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater*. RWQCB, Interim Final - December 2013.

San Francisco Bay Regional Water Quality Control Board (SFRWQCB) Environmental Screening Levels (ESLs) for groundwater where groundwater is not a potential drinking water resource from Table F-1b, Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater . RWQCB, Interim Final - December 2013.

San Francisco Bay Regional Water Quality Control Board (SFRWQCB) Groundwater Screening Levels for Evaluation of Potential Vapor Intrusion (Volatile Chemicals Only), commercial/industrial land use, fine-coarse mix from Table E-1, Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater . RWQCB, Interim Final - December 2013.

\* The subject site lies within the City of Emeryville, where groundwater use as a drinking water resource is currently prohibited by City ordinance due to widespread regional contamination, and no plans exist for future benefical groundwater use.

\*\* Residential vapor intrusion ESL - commercial ESL for vapor intrusion not established, soil gas sampling recommended.

Laboratory Qualifiers:

L - lighter hydrocarbons contributed to the quantitation

- Y sample exhibits chromatographic pattern which does not resemble standard
- b1 aqueous sample that contains greater than ~1 vol. % sediment
- b6 lighter than water immiscible sheen/product is present
- c2 low surrogate recovery caused by matrix interference.
- c4 surrogate recovery outside of the control limits due to coelution with another peak(s)/cluttered chromatogram.
- c8 sample pH is greater than 2
- d1 weakly modified or unmodified gasoline is significant
- d2 heavier gasoline range compounds are significant (aged gasoline?)
- e2 diesel range compounds are significant; no recognizable pattern
- e4 gasoline-range compounds are significant
- e7 oil range compounds are significant

# TABLE 4Summary of Groundwater Analytical DataPNAs/PAHsFormer McGrath Steel6655 Hollis StreetEmeryville, CaliforniaAllWest Project No. 13166.28

Sample / Field Point Name	Date Sampled	Benzo (a) anthracene	Fluoranthene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Phenanthrene	Pyrene	Other PNAs/PAHs
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
MW-3	8/7/2013	ND <50	ND <50	390	710	890	ND <50	ND <50	ND <50
qualifiers	b6								
MW-3	11/6/2013	ND <25	ND <25	330	620	1,100	ND <25	ND <25	ND <25
qualifiers	c1								
MW-3	3/19/2014	ND <10	ND <10	80	150	360	ND <10	ND <10	ND <10
AMW-1 qualifiers	8/7/2013 b1	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <0.5
AMW-1	11/6/2013	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND < 0.50	ND <0.50
AMW-1	3/19/2014	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50
AMW-2 qualifiers	8/7/2013 b1	ND <0.5	ND <0.5	1.5	1.6	7.7	ND <0.5	ND <0.5	ND <0.5
AMW-2	11/6/2013	ND <0.50	ND <0.50	5.4	9.2	26	ND <0.50	ND <0.50	ND <0.50
AMW-2	3/19/2014	ND <0.50	ND <0.50	2.3	2.6	13	ND <0.50	ND <0.50	ND <0.50
AMW-3 qualifiers	8/7/2013 b1	ND <0.5	ND <0.5	3.2	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <0.5
AMW-3	11/6/2013	ND <0.50	ND <0.50	1.5	2.6	7.5	ND <0.50	ND <0.50	ND <0.50
AMW-3	3/19/2014	ND <0.50	ND <0.50	2.7	2.8	6.3	ND <0.50	ND <0.50	ND <0.50
Commercia ESLs, drin	QCB al/Industrial king water*	0.027	8.0	NE	2.1	6.1	4.6	2.0	Vary
RWQCB Commercial/Industrial ESLs, non-drinking water*		0.027	8.0	NE	2.1	24	4.6	2.0	Vary
Commercia	QCB al/Industrial or intrusion	NE	NE	NE	NE	1,600	NE	NE	Vary

Notes: All results are reported in micrograms per liter (µg/L) except where noted.

All samples analyzed by McCampbell Analytical, Inc., Pittsburg, California

PNAs/PAHs = Polynuclear Aromatic Hydrocarbons/Polycyclic Aromatic Hydrocarbons by analytical method SW8270C-SIM

ND <0.50 - Not detected at or above listed reporting limit

NE - Not established

San Francisco Bay Regional Water Quality Control Board (SFRWQCB) Environmental Screening Levels (ESLs) for groundwater where groundwater is a potential drinking water resource from Table F-1a, *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater*. RWQCB, Interim Final - December 2013.

San Francisco Bay Regional Water Quality Control Board (SFRWQCB) Environmental Screening Levels (ESLs) for groundwater where groundwater is not a potential drinking water resource from Table F-1b, *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater*. RWQCB, Interim Final - December 2013.

San Francisco Bay Regional Water Quality Control Board (SFRWQCB) Environmental Screening Levels (ESLs) for evaluation of potential vapor intrusion, commercial/industrial land use, fine-coarse mix from Table E-1, *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater*. RWQCB, Interim Final - December 2013.

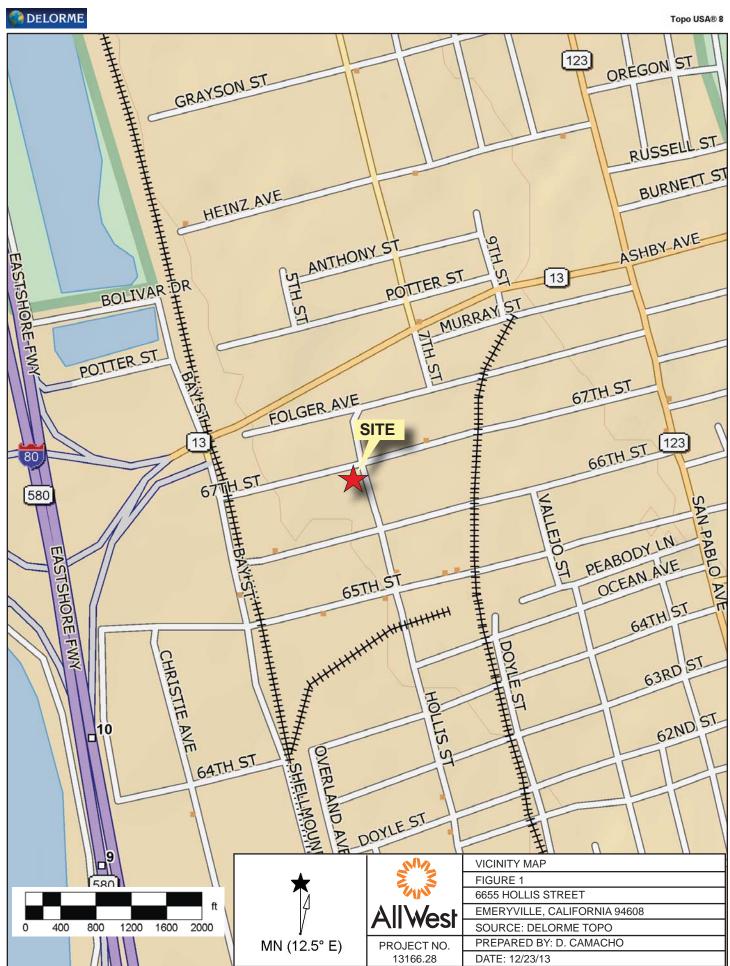
Laboratory Qualifiers:

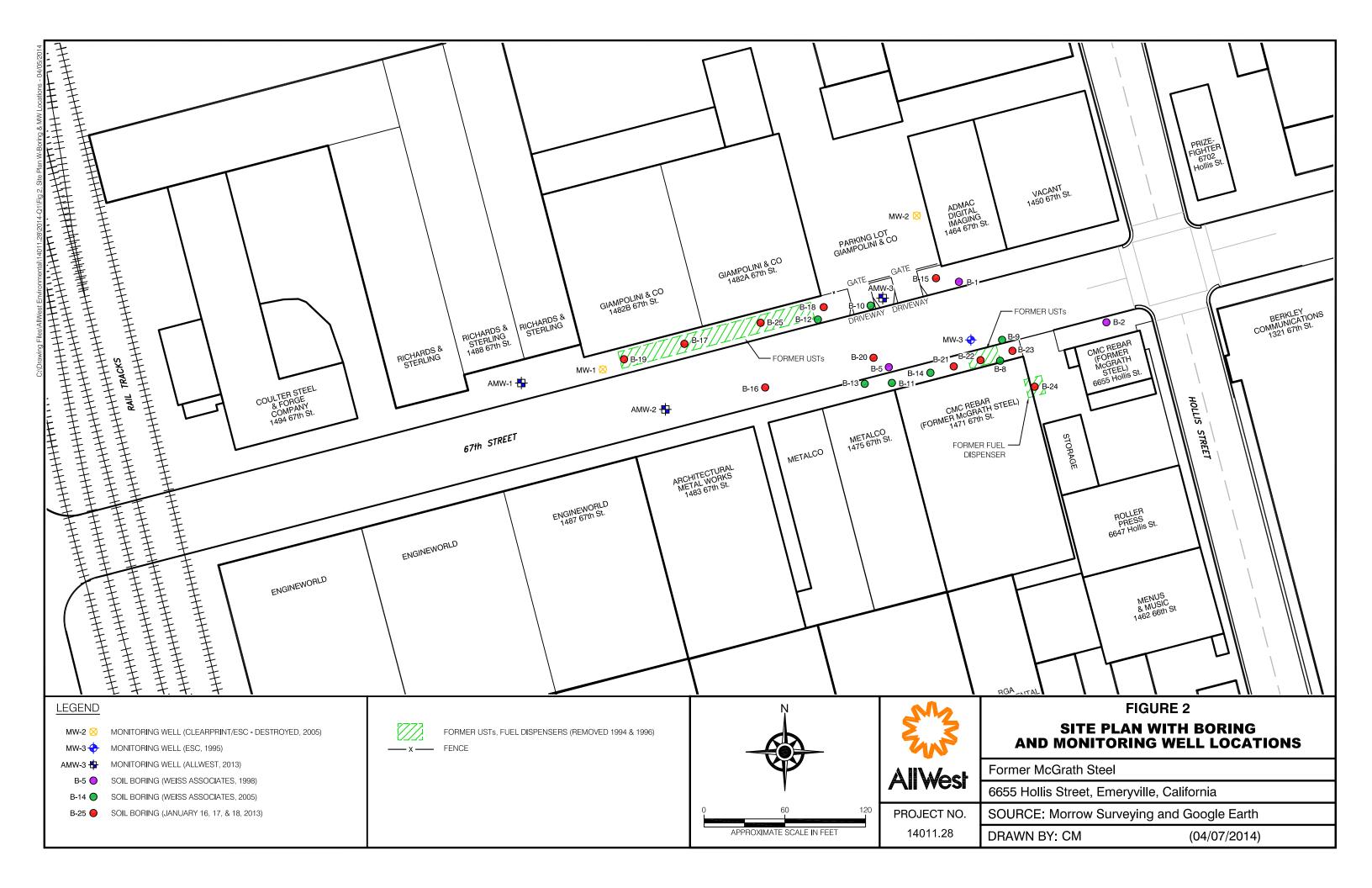
b1 - Aqueous sample that contains greater than ~1 vol. % sediment

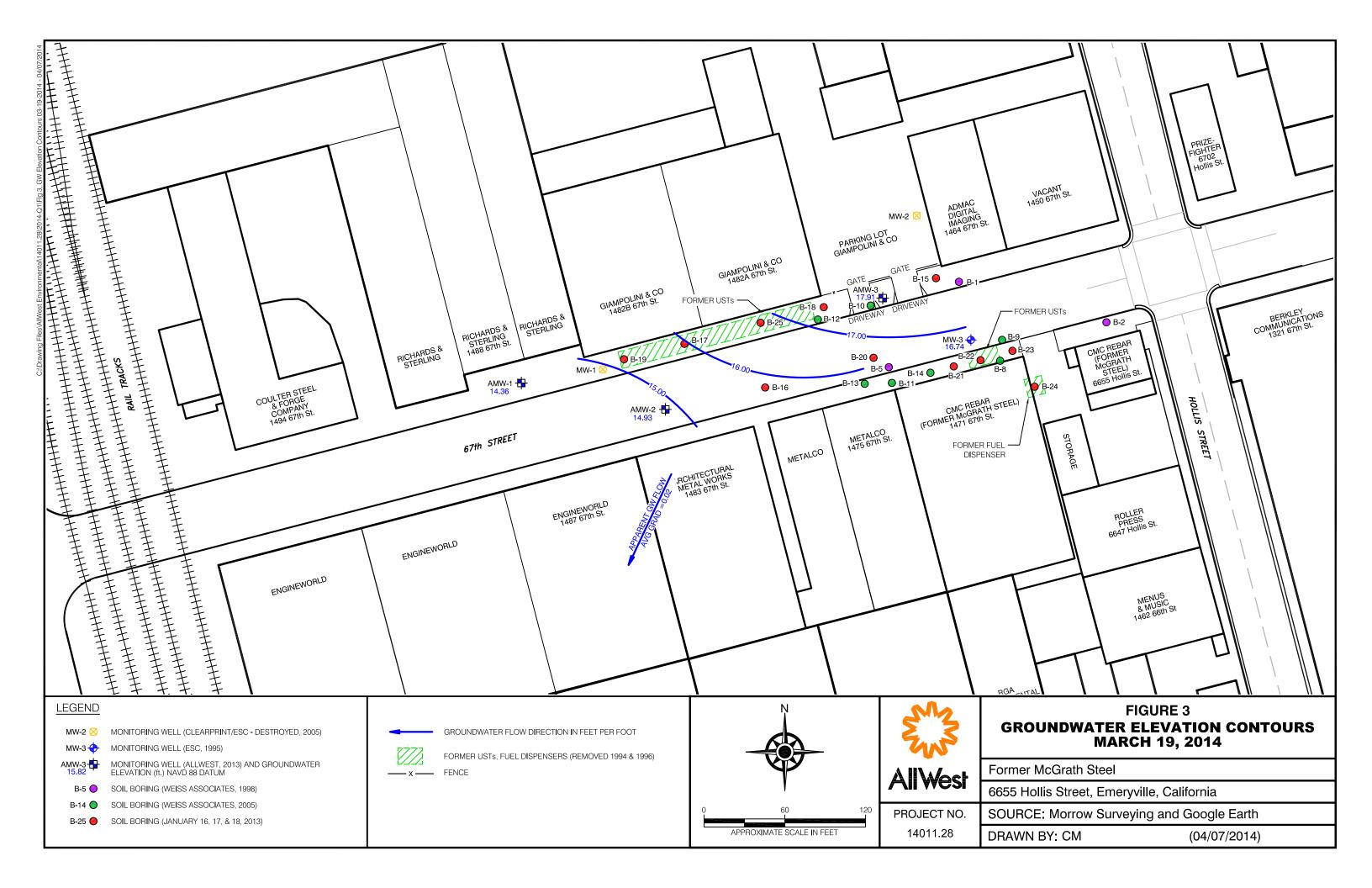
b6 - Lighter than water immiscible sheen/product is present.

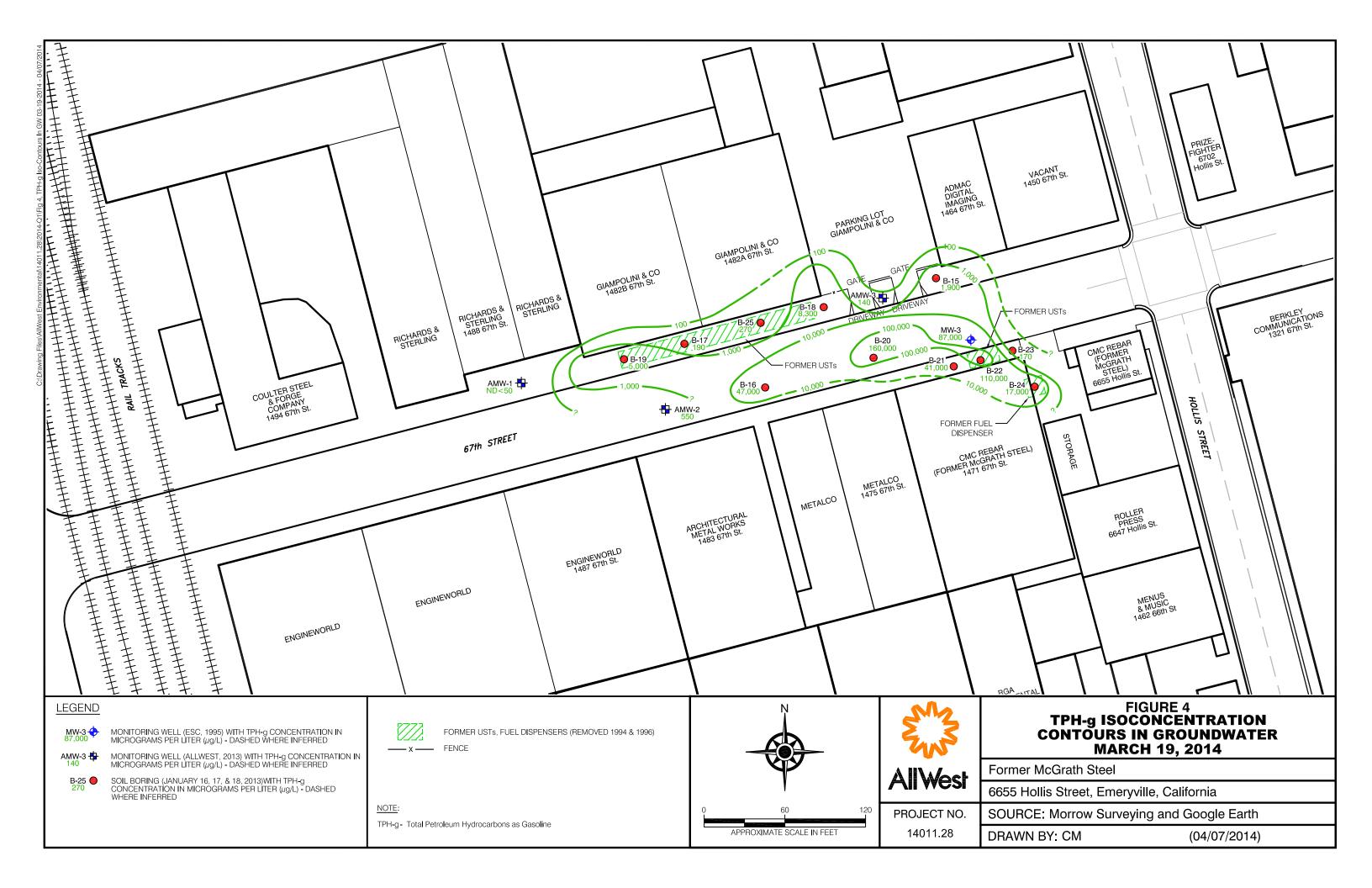
c1 - surrogate recovery outside of the control limits due to the dilution of the sample.

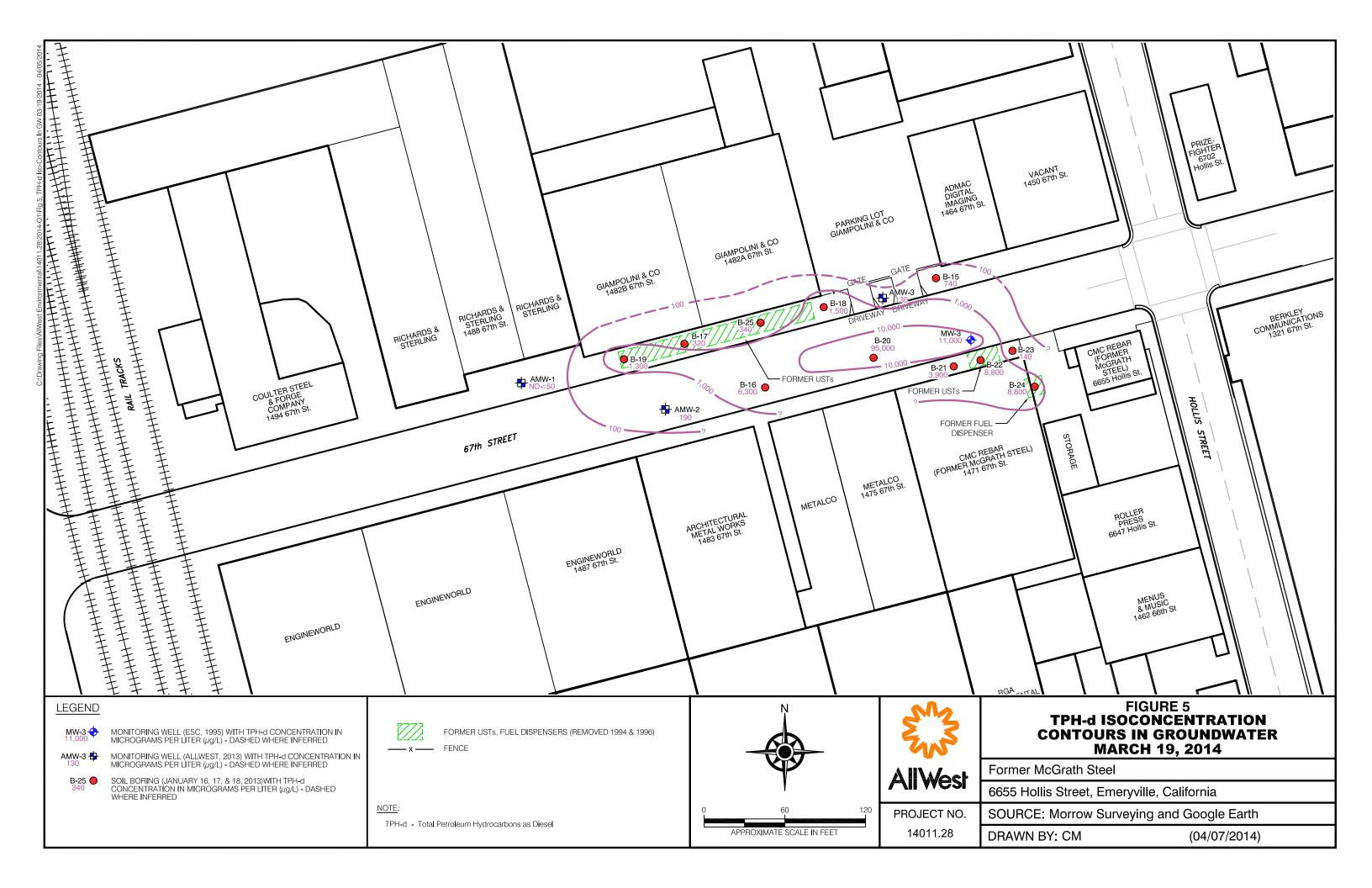
## FIGURES

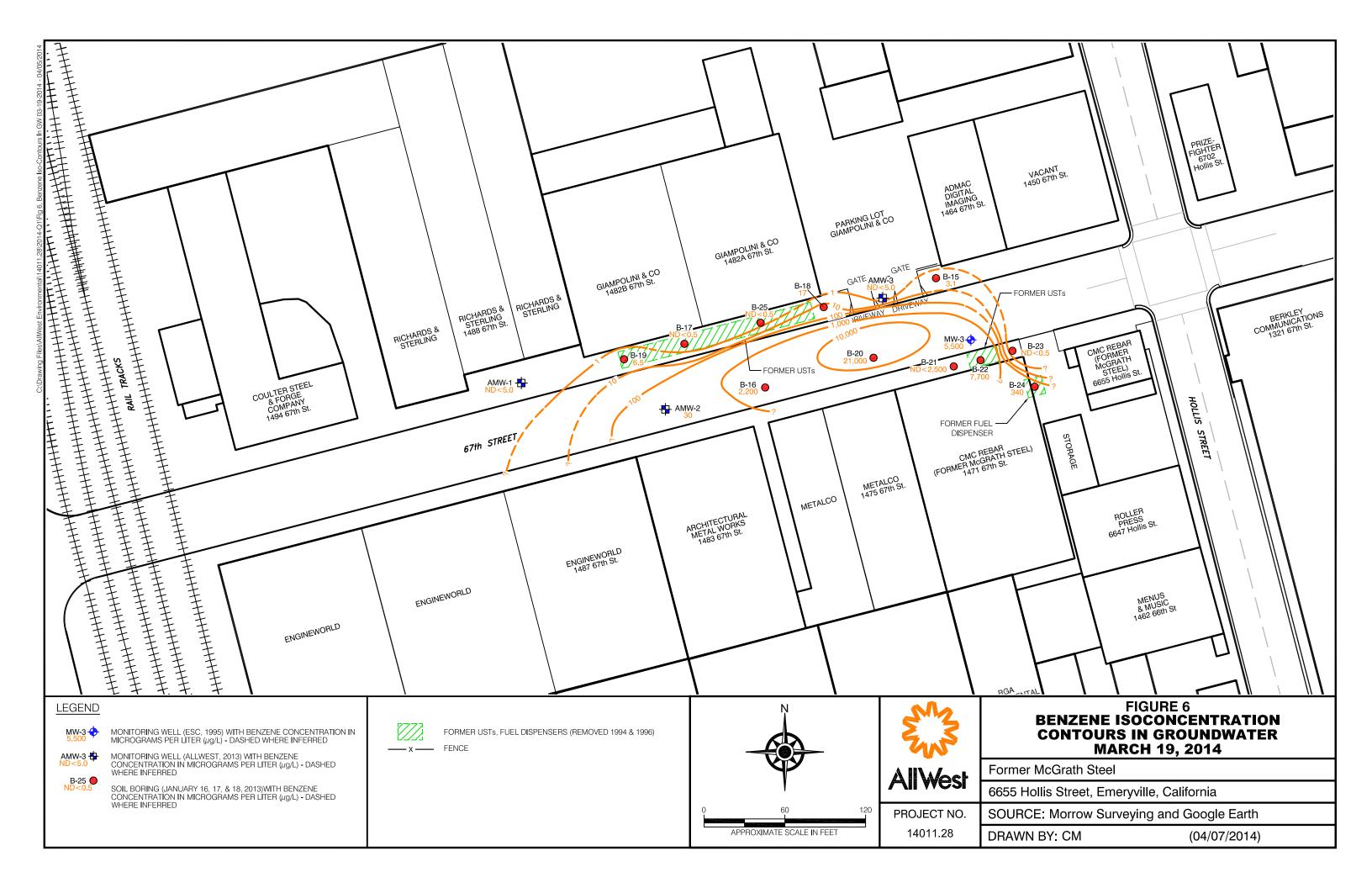












### APPENDIX A



#### **Groundwater Monitoring Well Development and Sampling**

Groundwater monitoring wells will be developed with the combination of surging and pumping actions. The wells will be alternately surged with a surging block for five minutes and pumped with a submersible pump for two minutes. The physical characteristics of the groundwater, such as water color and clarity, pH, temperature, and conductivity, will be monitored during well development. Well development will be considered complete when the groundwater is relatively sediment-free and groundwater characteristic indicators are stabilized (consecutive readings within 10% of each other).

Groundwater will be sampled from the developed wells no sooner than 48 hours after well development to allow stabilization of groundwater conditions. Prior to groundwater sampling, a proper purging process will be performed at each well. The purpose of well purging is to remove fine grained materials from the well casing and to allow fresh and more representative water to recharge the well. Prior to well purging, an electric water depth sounder will be lowered into the well casing to measure the depth to the water to the nearest 0.01 feet. A clear poly bailer will then be lowered into the well casing and partially submerged. Upon retrieval of the clear bailer, the surface of the water column retained in the bailer will be carefully examined for any floating product or product sheen.

After all initial measurements are completed and recorded, the well will be purged by an electrical submersible pump or a bailer. A minimum of 3 well volumes of groundwater will be purged and groundwater characteristics (temperature, pH, and conductivity) monitored at each well volume interval. Purging is considered complete when indicators are stabilized (consecutive readings within 10% of each other) and the purged water is relatively free of sediments.

Groundwater sampling will be conducted after the water level has recovered to at least 80% of the initial level, recorded prior to purging. The groundwater sample will be collected by a disposable bailer. Upon retrieval of the bailer, the retained water will be carefully transferred to appropriate sample bottle furnished by the analytical laboratory. All sample bottles will have a Teflon lined septum/cap and be filled such that no headspace is present. Then the sample bottles will be labeled and immediately placed on ice to preserve the chemical characteristics of its content.

To prevent cross contamination, all groundwater sampling equipment that comes in contact with the groundwater will be thoroughly decontaminated prior to sampling. A disposable bailer will be used to collect the groundwater samples. Sample handling, storage, and transport procedures described in the following sections will be employed. All well development and purging water will be temporarily stored on-site in 55-gallon drums awaiting test results to determine the proper disposal method.

## APPENDIX B

AllWest				PURGE TA	Page of					
SITE NAME:	141113	Gm	envi	ille.			menville	CA		
PROJECT NO	110111	8	0		DATE PURGED: 3/19/14					
PURGED/SAM		CMA			DATE SAMPLED: 2/19/14					
TIME SAMPL		Charles -	2				TOM'(feet): 2:			
DEPTH TO W CALCULATE	· /			9			MN HEIGHT (feet ME (gallons): 🤈			
ACTUAL PUR			• / • (		SING VOLU	WIL (gallolis).	.70			
DEVELOPME			ARTERI		BIANNU	AL	OTHER			
SAMPLE TYP	E: Ground	lwater		Su	urface Wa	ter	Other			
Casing Volume	CASING DIAMETER: $2"$ $4"$ Casing Volume $(0.16)$ $(0.38)$ $4"$ $(0.66)$ (gallons per foot):									
			I	FIELD MEAS	SUREME	ENTS				
VOLUME (gal)	TIME		MP ees C)	pН		UCTIVITY (µS)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)		
2	0911	19.	3	6.08	13		(-8-)	Moridu		
4	0920	IG	.2	6.11	121	4		Monda		
C	0930	ig	2	6.20	10	101	-	cloudy_		
8	5938	19	.2	6.22	10	1082 Clouddy				
			0					0		
<i>6</i>	· · ·				2					
		-								
						,				
SAMPLE DEF 80% RECHAR ODOR:// ص	GE: Y/N		SA	MPLE TURB	IDITY: (	loudys	, ms 8015, TPt 8260, PAtts 6, Amber, 1 un			
]	PURGING E	QUIP	MENT	1		SAMPL	ING EQUIPME	NT		
Centrifugal Submersible Peristalitic I Purge Pump Other:	Pump	Baile		) or disposable) ess Steel)	Centrifugal Pump      Bailer (Teflon)        Submersible Pump      Bailer (PVC or disposable)        Peristaltic Pump      Bailer (Stainless Steel)        Purge Pump					
Comments:	4	20								

AllWest	PURGE TABL	лЕ.	WELL ID: <u>AMN-</u> 1 Page <u></u> of <u>_</u> _							
	73 ): 7.54 ARTERLY BL	LOCATION: Energy, lle CA         DATE PURGED: 3/19/14         DATE SAMPLED: 3/19/14         DEPTH TO BOTTOM (feet): 23.43         WATER COLUMN HEIGHT (feet): 15.70         CASING VOLUME (gallons): 2.512         BIANNUAL OTHER         urface Water Other								
Casing Volume $(0.16)$ $(0.38)$ $(0.66)$ (gallons per foot): $0.16(15.70) = 2.512$ $\times 3 = 7.54$										
$\begin{array}{c c} (gal) & \PiME & (degr2 & 10.65 & 214 & 10.30 & 206 & 1100 & 26 \\ \end{array}$	FIELD MEASU         EMP       pH       C         rees C) $pH$ $C$ 1.1 $6.26$ $6.27$ 5.5 $6.27$ $6.25$ 0.2 $6.25$ $6.25$ 0.2 $6.25$ $6.25$	REMENTS CONDUCTIV (μS) 15-13 12.62 12.38 12.45	VITY DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU) Cloudy Cloudy Cloudy Sirty						
SAMPLE DEPTH TO WATER (f 80% RECHARGE: Y/N ODOR: Mone SAMPLE	SAMPLE INFO eet): <u>7.77</u> Analys SAMPLE TURBIDI BOTTLE/PRESERVATIV	TY: Silly	TPH-g, ms 8015, (s.g., VOCs 8260, , I Amber/HCL,	TPH-d PAHS8270 LAnber/nome						
Submersible Pump Bail Peristalitic Pump Bail Purge Pump Other:	er (Teflon) er (PVC or disposable) er (Stainless Steel)	SAMPLING EQUIPMENT        Centrifugal Pump      Bailer (Teflon)        Submersible Pump      Bailer (PVC or disposable)        Peristaltic Pump      Bailer (Stainless Steel)        Purge Pump      Other:								
Comments: <u>Sampling</u> <u>i Sterling</u>	sampered by tru	cks innle	sading at Kicha	vds						

NAL-JORNALISM TWO NUMBER OF STREET											
AllWest			PURGE TABLE		WELL ID: <u>MW-3</u> Page of						
SITE NAME: Hollis - Emerguille LOCATION: Emerguille											
PROJECT NO	: 14011.2	8	DATE P	DATE PURGED: 3/19/14							
PURGED/SAN		ma		DATE S.	DATE SAMPLED: 3/19/14						
TIME SAMPL	ED: 1437				DEPTH TO BOTTOM (feet): 29.50						
DEPTH TO W	ATER (feet):	8.81		WATER	WATER COLUMN HEIGHT (feet): 20.69						
CALCULATE			93		CASING VOLUME (gallons): 3,3						
ACTUAL PUR											
DEVELOPMENT QUARTERLY BIANNUAL OTHER         SAMPLE TYPE:       Groundwater Surface Water Other											
CASING DIAMETER: $2" - \sqrt{0.16} 3" - 4" - \sqrt{0.38} 4" - \sqrt{0.66}$ (gallons per foot): $0.16(20.69) = 3.3104$ $\times 3 = 9.93$											
				SUREMENTS		171-5					
VOLUME (gal)	TIME	TEMP (degrees C	nH	CONDUCTI (µS)	8.7	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)				
2	1325	174	6.03	1/2/2		(IIIG/L)	da				
4	1340	11.1	6.00	1024	,		Clear .				
1	1352	11.6	Q	1627			elear (cloudy				
8	1408	10.1	6.01	1660			Cloudy				
10		18.1	6.03	1,432			allar				
	1421	10.2	6.0)	1615			Cloudy				
							. 0				
SAMPLE INFORMATION TPH-9, MS 8015 SAMPLE DEPTH TO WATER (feet): 10.62 Analyses: TPH-d 8015 w/s.9, VOCs 8260, PAHS 80% RECHARGE: Y/N SAMPLE TURBIDITY: Silty 8270 ODOR: Diesel SAMPLE BOTTLE/PRESERVATIVE: 4 Vots, 4 Amber/Htcl 1 Amber/Innee											
PURGING EQUIPMENT SAMPLING EQUIPMENT											
Centrifugal Pump      Bailer (Teflon)      Centrifugal Pump      Bailer (Teflon)        Submersible Pump      Bailer (PVC or disposable)      Centrifugal Pump      Bailer (Teflon)        Peristalitic Pump      Bailer (Stainless Steel)      Peristaltic Pump      Bailer (Stainless Steel)        Purge Pump      Other:      Other:      Other:											
Comments: No free graduct detected by oil /water interface orable											
Sheen and droplets in product skimmer											

et all west	1	,	PURGE TAI		Page	ID: <u>AMW-2</u> of <u>1</u>					
SITE NAME: -	Hollis-L	menyvill		LOCATION: Guerry ville, CA							
PROJECT NO:	1401 4	5 0		DATE PURGED: 3/10/14							
PURGED/SAMPLED BY:					DATE SAMPLED: 3/19/14						
TIME SAMPLE		250	and the second se	DEPTH TO BOTTOM (feet): 73.93							
DEPTH TO WA	11		WATER COLUMN HEIGHT (feet): 15.43 CASING VOLUME (gallons): 2.47								
CALCULATED		$\frac{10 \text{ Ins}}{2}$	CASING	CASING VOLUME (ganons).							
ACTUALTUR	OL (galiolis)	<u>^</u>									
DEVELOPMEN	TI	QUARTERI	Y	BIANNUAL	·	OTHER					
SAMPLE TYPE: Groundwater Surface Water Other											
CASING DIAM Casing Volume (gallons per foo	t)·	(0.16) 3" _	(0.38) 4" _	(0.66)							
(guilons per ree	6.16/1	5.413) ×	3 = 2	47	×	3 = 7.41					
			TIELD MEAS	SUREMENTS	5						
VOLUME (gal)	TIME	TEMP (degrees C)	pН	CONDUCT (µS)	IVITY	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)				
2	1501	18.4	6.17	1135			Clear				
4	1515	18.6	6.16	1663			Cloudy				
6	1549	18.2	6.19	1667	7		cloudy				
8	1608	18.3	6.19	1642	-		cloudy				
							<u>_</u>				
			2 3 di		-						
		-	5								
80% RECHARO	GE: Y/N HC SAMI	SA. PLE BOTTLE	MPLE TURB	IDITY: Mon	As, 1A	g, ms 8015 VOCS 8260, mber /HCl,	Anber the				
Р			SAMPLING EQUIPMENT								
Centrifugal PumpBailer (Teflon)Submersible PumpBailer (PVC or disposable)Peristalitic PumpBailer (Stainless Steel)Purge PumpOther:				Submersit	Centrifugal Pump       Bailer (Teflon)         Submersible Pump       Bailer (PVC or disposable)         Peristaltic Pump       Bailer (Stainless Steel)         Purge Pump       Dther:						
Comments:			ng system second at two on the system and an and								
			· · · · · ·								

# APPENDIX C



McCampbell Analytical, Inc.

"When Quality Counts"

## **Analytical Report**

WorkOrder:	1403700	Amended:	03/28/2014
<b>Report Created for:</b>	All West Environmental 2141 Mission Street, Ste San Francisco, CA 9411	100	
Project Contact:	Christopher Houlihan		
Project P.O.: Project Name:	#14011.28; Hollis-Emer	yville	
<b>Project Received:</b>	03/20/2014		

Analytical Report reviewed & approved for release on 03/27/2014 by:

Question about your data? <u>Click here to email</u> McCampbell

Angela Rydelius, Laboratory Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.



1534 Willow Pass Rd. Pittsburg, CA 94565 ♦ TEL: (877) 252-9262 ♦ FAX: (925) 252-9269 ♦ www.mccampbell.com NELAP: 4033ORELAP ♦ ELAP: 1644 ♦ ISO/IEC: 17025:2005 ♦ WSDE: C972-11 ♦ ADEC: UST-098 ♦ UCMR3



### **Glossary of Terms & Qualifier Definitions**

Client:	All West Environmental, Inc
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**Project:** #14011.28; Hollis-Emeryville

1403700 WorkOrder:

#### Glossary **Abbreviation**

95% Interval	95% Confident Interval
DF	Dilution Factor
DUP	Duplicate
EDL	Estimated Detection Limit
Ι	For PCB congeners 107, 108, 109, 199, 200, 201. There are conflicting naming conventions. MAI used the names cited in EPA Method 1668C (Table 2)
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ND	Not detected at or above the indicated MDL or RL
NR	Matrix interferences, or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix; or sample diluted due to high matrix or analyte content.
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
TEQ	Toxicity Equivalence

#### Analytical Qualifier

S	spike recovery outside accepted recovery limits
b1	aqueous sample that contains greater than ~1 vol. % sediment
c2	low surrogate recovery caused by matrix interference.
c4	surrogate recovery outside of the control limits due to coelution with another peak(s) / cluttered chromatogram.
d1	weakly modified or unmodified gasoline is significant
e4	gasoline range compounds are significant.

### Quality Control Qualifiers

F1	MS/MSD recovery and/or RPD was out of acceptance criteria; LCS validated the prep batch.

F2 LCS recovery for this compound is outside of acceptance limits.



Client:	All West Environmental, Inc	WorkOrder:	1403700
Project:	#14011.28; Hollis-Emeryville	<b>Extraction Method</b>	SW5030B
Date Received:	3/20/14 20:00	Analytical Method:	SW8260B
Date Prepared:	3/26/14-3/27/14	Unit:	µg/L

Client ID	Lab ID	Matrix/ExtType	Date Collect	ed Instrument	Batch ID
AMW-1	1403700-001A	Water	03/19/2014 11	24 GC28	88609
Analytes	<u>Result</u>		<u>RL D</u>	Ξ	Date Analyzed
Acetone	ND		100 10	)	03/26/2014 13:47
tert-Amyl methyl ether (TAME)	ND		5.0 10	)	03/26/2014 13:47
Benzene	ND		5.0 10	)	03/26/2014 13:47
Bromobenzene	ND		5.0 10	)	03/26/2014 13:47
Bromochloromethane	ND		5.0 10	)	03/26/2014 13:47
Bromodichloromethane	ND		5.0 10	)	03/26/2014 13:47
Bromoform	ND		5.0 10	)	03/26/2014 13:47
Bromomethane	ND		5.0 10	)	03/26/2014 13:47
2-Butanone (MEK)	ND		20 10	)	03/26/2014 13:47
t-Butyl alcohol (TBA)	ND		20 10	)	03/26/2014 13:47
n-Butyl benzene	ND		5.0 10	)	03/26/2014 13:47
sec-Butyl benzene	ND		5.0 10	)	03/26/2014 13:47
tert-Butyl benzene	ND		5.0 10	)	03/26/2014 13:47
Carbon Disulfide	ND		5.0 10	)	03/26/2014 13:47
Carbon Tetrachloride	ND		5.0 10	)	03/26/2014 13:47
Chlorobenzene	ND		5.0 10	)	03/26/2014 13:47
Chloroethane	ND		5.0 10	)	03/26/2014 13:47
Chloroform	ND		5.0 10	)	03/26/2014 13:47
Chloromethane	ND		5.0 10	)	03/26/2014 13:47
2-Chlorotoluene	ND		5.0 10	)	03/26/2014 13:47
4-Chlorotoluene	ND		5.0 10	)	03/26/2014 13:47
Dibromochloromethane	ND		5.0 10	)	03/26/2014 13:47
1,2-Dibromo-3-chloropropane	ND		2.0 10	)	03/26/2014 13:47
1,2-Dibromoethane (EDB)	ND		5.0 10	)	03/26/2014 13:47
Dibromomethane	ND		5.0 10	)	03/26/2014 13:47
1,2-Dichlorobenzene	ND		5.0 10	)	03/26/2014 13:47
1,3-Dichlorobenzene	ND		5.0 10	)	03/26/2014 13:47
1,4-Dichlorobenzene	ND		5.0 10	)	03/26/2014 13:47
Dichlorodifluoromethane	ND		5.0 10	)	03/26/2014 13:47
1,1-Dichloroethane	ND		5.0 10	)	03/26/2014 13:47
1,2-Dichloroethane (1,2-DCA)	ND		5.0 10	)	03/26/2014 13:47
1,1-Dichloroethene	83		5.0 10	)	03/26/2014 13:47
cis-1,2-Dichloroethene	ND		5.0 10	)	03/26/2014 13:47
trans-1,2-Dichloroethene	ND		5.0 10	)	03/26/2014 13:47
1,2-Dichloropropane	ND		5.0 10	)	03/26/2014 13:47
1,3-Dichloropropane	ND		5.0 10	)	03/26/2014 13:47
2,2-Dichloropropane	ND		5.0 10	)	03/26/2014 13:47
1,1-Dichloropropene	ND		5.0 10	)	03/26/2014 13:47

(Cont.)





Client:	All West Environmental, Inc	WorkOrder:	1403700
Project:	#14011.28; Hollis-Emeryville	<b>Extraction Method</b>	SW5030B
Date Received:	3/20/14 20:00	Analytical Method:	SW8260B
Date Prepared:	3/26/14-3/27/14	Unit:	µg/L

Client ID	Lab ID	Matrix/ExtType	Date Coll	ected Instrumen	t Batch ID
AMW-1	1403700-001A	Water	03/19/2014	11:24 GC28	88609
Analytes	<u>Result</u>		<u>RL</u>	DF	Date Analyzed
cis-1,3-Dichloropropene	ND		5.0	10	03/26/2014 13:47
trans-1,3-Dichloropropene	ND		5.0	10	03/26/2014 13:47
Diisopropyl ether (DIPE)	ND		5.0	10	03/26/2014 13:47
Ethylbenzene	ND		5.0	10	03/26/2014 13:47
Ethyl tert-butyl ether (ETBE)	ND		5.0	10	03/26/2014 13:47
Freon 113	ND		5.0	10	03/26/2014 13:47
Hexachlorobutadiene	ND		5.0	10	03/26/2014 13:47
Hexachloroethane	ND		5.0	10	03/26/2014 13:47
2-Hexanone	ND		5.0	10	03/26/2014 13:47
Isopropylbenzene	ND		5.0	10	03/26/2014 13:47
4-Isopropyl toluene	ND		5.0	10	03/26/2014 13:47
Methyl-t-butyl ether (MTBE)	ND		5.0	10	03/26/2014 13:47
Methylene chloride	ND		5.0	10	03/26/2014 13:47
4-Methyl-2-pentanone (MIBK)	ND		5.0	10	03/26/2014 13:47
Naphthalene	ND		5.0	10	03/26/2014 13:47
n-Propyl benzene	ND		5.0	10	03/26/2014 13:47
Styrene	ND		5.0	10	03/26/2014 13:47
1,1,1,2-Tetrachloroethane	ND		5.0	10	03/26/2014 13:47
1,1,2,2-Tetrachloroethane	ND		5.0	10	03/26/2014 13:47
Tetrachloroethene	ND		5.0	10	03/26/2014 13:47
Toluene	ND		5.0	10	03/26/2014 13:47
1,2,3-Trichlorobenzene	ND		5.0	10	03/26/2014 13:47
1,2,4-Trichlorobenzene	ND		5.0	10	03/26/2014 13:47
1,1,1-Trichloroethane	ND		5.0	10	03/26/2014 13:47
1,1,2-Trichloroethane	ND		5.0	10	03/26/2014 13:47
Trichloroethene	7.2		5.0	10	03/26/2014 13:47
Trichlorofluoromethane	ND		5.0	10	03/26/2014 13:47
1,2,3-Trichloropropane	ND		5.0	10	03/26/2014 13:47
1,2,4-Trimethylbenzene	ND		5.0	10	03/26/2014 13:47
1,3,5-Trimethylbenzene	ND		5.0	10	03/26/2014 13:47
Vinyl Chloride	ND		5.0	10	03/26/2014 13:47
Xylenes, Total	ND		5.0	10	03/26/2014 13:47
Surrogates	<u>REC (%)</u>		<u>Limits</u>	Analytical Comme	nts: b1
Dibromofluoromethane	85		70-130		03/26/2014 13:47
Toluene-d8	89		70-130		03/26/2014 13:47
4-BFB	92		70-130		03/26/2014 13:47





Client:	All West Environmental, Inc	WorkOrder:	1403700
Project:	#14011.28; Hollis-Emeryville	<b>Extraction Method</b>	SW5030B
Date Received:	3/20/14 20:00	Analytical Method:	SW8260B
Date Prepared:	3/26/14-3/27/14	Unit:	µg/L

cis-1,2-DichloroetheneND5.01003/26/2014 01:41trans-1,2-DichloroetheneND5.01003/26/2014 01:411,2-DichloropropaneND5.01003/26/2014 01:411,3-DichloropropaneND5.01003/26/2014 01:412,2-DichloropropaneND5.01003/26/2014 01:41	Client ID	Lab ID	Matrix/ExtType	Date Collected	I Instrument	Batch ID
Actione         ND         100         10         03/26/2014 01:41           tert-Anyl methyl ether (TAME)         ND         5.0         10         03/26/2014 01:41           Bromobenzene         ND         5.0         10         03/26/2014 01:41           Bromobenzene         ND         5.0         10         03/26/2014 01:41           Bromochloromethane         ND         5.0         10         03/26/2014 01:41           Bromochloromethane         ND         5.0         10         03/26/2014 01:41           Bromothrame         ND         5.0         10         03/26/2014 01:41           Bromothrame         ND         5.0         10         03/26/2014 01:41           Bromothrame         ND         20         10         03/26/2014 01:41           E-Butanone (MEK)         ND         20         10         03/26/2014 01:41           tert-Butyl benzene         ND         5.0         10         03/26/2014 01:41           tert-Butyl benzene         ND         5.0         10         03/26/2014 01:41           Carbon Tetrachloride         ND         5.0         10         03/26/2014 01:41           Carbon Tetrachloride         ND         5.0         10         03/26/201	AMW-2	1403700-002A	Water	03/19/2014 16:3	2 GC18	88571
tert-Amyl methyl ether (TAME)         ND         5.0         10         03262014 01:41           Berzene         30         5.0         10         03262014 01:41           Bromobenzene         ND         5.0         10         03262014 01:41           Bromochloromethane         ND         5.0         10         03262014 01:41           Bromochloromethane         ND         5.0         10         03262014 01:41           Bromodichloromethane         ND         5.0         10         03262014 01:41           Bromodichloromethane         ND         2.0         10         03262014 01:41           Pstury alcohloromethane         ND         5.0         10         03262014 01:41           result of the stury alcohloromethane         ND         5.0         10         03262014 01:41           Cattorn Disulfide         ND         5.0         10         03262014 01:41           Cattorn Tetrachloride         ND         5.0 </td <td><u>Analytes</u></td> <td><u>Result</u></td> <td></td> <td><u>RL</u><u>DF</u></td> <td></td> <td>Date Analyzed</td>	<u>Analytes</u>	<u>Result</u>		<u>RL</u> <u>DF</u>		Date Analyzed
Benzene         30         5.0         10         03/26/2014 01:41           Bromobenzene         ND         5.0         10         03/26/2014 01:41           Bromoblenzene         ND         5.0         10         03/26/2014 01:41           Bromodichloromethane         ND         20         10         03/26/2014 01:41           Fautanone (MEK)         ND         20         10         03/26/2014 01:41           -Butyl alcohol (TBA)         ND         20         10         03/26/2014 01:41           -Butyl benzene         ND         5.0         10         03/26/2014 01:41           Carbon Tetrachloride         ND         5.0         10         03/26/2014 01:41           Carbon Tetrachloride         ND         5.0         10         03/26/2014 01:41           Charotorm         ND         5.0         10         03/26/2014 01:41           Charotoreme         ND         5.0         10         03/26/2014	Acetone	ND		100 10		03/26/2014 01:41
Bromobenzene         ND         5.0         10         03/26/2014 01:41           Bromochloromethane         ND         5.0         10         03/26/2014 01:41           Bromochloromethane         ND         5.0         10         03/26/2014 01:41           Bromoterhane         ND         5.0         10         03/26/2014 01:41           Bromoterhane         ND         5.0         10         03/26/2014 01:41           2-Butanone (MEK)         ND         20         10         03/26/2014 01:41           2-Butanone (MEK)         ND         20         10         03/26/2014 01:41           1-Butyl benzene         ND         5.0         10         03/26/2014 01:41           re-Butyl benzene         ND         5.0         10         03/26/2014 01:41           Carbon Disulfide         ND         5.0         10         03/26/2014 01:41           Carbon Disulfide         ND         5.0         10         03/26/2014 01:41           Chlorobenzene         ND         5.0         10         03/26/2014 01:41           Chlorobenzene         ND         5.0         10         03/26/2014 01:41           Chlorobenzene         ND         5.0         10         03/26/2014 01:41	tert-Amyl methyl ether (TAME)	ND		5.0 10		03/26/2014 01:41
Bromochloromethane         ND         5.0         10         03/26/2014 01:41           Bromochloromethane         ND         20         10         03/26/2014 01:41           2-Butanone (MEK)         ND         20         10         03/26/2014 01:41           1-Butyl benzene         ND         5.0         10         03/26/2014 01:41           sec-Butyl benzene         ND         5.0         10         03/26/2014 01:41           Carbon Disulfide         ND         5.0         10         03/26/2014 01:41           Carbon Disulfide         ND         5.0         10         03/26/2014 01:41           Carbon Tetrachloride         ND         5.0         10         03/26/2014 01:41           Chlorothane         ND         5.0         10         03/26/2014 01:41           Chlorothane         ND         5.0         10         03/26/2014 01:41           Chlorothane         ND         5.0         10         03/26/2	Benzene	30		5.0 10		03/26/2014 01:41
Bromodichloromethane         ND         5.0         10         03/26/2014 01:41           Bromodorm         ND         5.0         10         03/26/2014 01:41           Bromonethane         ND         5.0         10         03/26/2014 01:41           Bromonethane         ND         20         10         03/26/2014 01:41           E-Butplone (MEK)         ND         20         10         03/26/2014 01:41           Heutyl berzene         ND         5.0         10         03/26/2014 01:41           ese-Butyl berzene         ND         5.0         10         03/26/2014 01:41           Carbon Disulfide         ND         5.0         10         03/26/2014 01:41           Carbon Disulfide         ND         5.0         10         03/26/2014 01:41           Carbon Tetrachloride         ND         5.0         10         03/26/2014 01:41           Chloroberzene         ND         5.0         10         03/26/2014 01:41           Chloroberzene         ND         5.0         10         03/26/2014 01:41           Chlorobertane         ND         5.0         10         03/26/2014 01:41           Chloroberzene         ND         5.0         10         03/26/2014 01:41	Bromobenzene	ND		5.0 10		03/26/2014 01:41
Bromoform         ND         5.0         10         03/26/2014 01:41           Bromomethane         ND         5.0         10         03/26/2014 01:41           2-Butanone (MEK)         ND         20         10         03/26/2014 01:41           1-Butyl lobol (TBA)         ND         20         10         03/26/2014 01:41           n-Butyl benzene         ND         5.0         10         03/26/2014 01:41           sec-Butyl benzene         ND         5.0         10         03/26/2014 01:41           carbon Disulfide         ND         5.0         10         03/26/2014 01:41           Carbon Tetrachloride         ND         5.0         10         03/26/2014 01:41           Charbon Tetrachloride         ND         5.0         10         03/26/2014 01:41           Chloroethane         ND         5.0         10         03/26/2014 01:41           Chloromethane         ND         5.0         10         03/26/2014 01:41           Chlorotofuene         ND         5.0         10         03/26/2014 01:41           Chlorotofuene         ND         5.0         10         03/26/2014 01:41           2-Chlorotoluene         ND         5.0         10         03/26/2014 01:41 <td>Bromochloromethane</td> <td>ND</td> <td></td> <td>5.0 10</td> <td></td> <td>03/26/2014 01:41</td>	Bromochloromethane	ND		5.0 10		03/26/2014 01:41
Bromomethane         ND         5.0         10         03/26/2014 01:41           2-Butanone (MEK)         ND         20         10         03/26/2014 01:41           t-Butyl alcohol (TBA)         ND         20         10         03/26/2014 01:41           n-Butyl benzene         ND         5.0         10         03/26/2014 01:41           sec-Butyl benzene         ND         5.0         10         03/26/2014 01:41           carbon Disulfide         ND         5.0         10         03/26/2014 01:41           Carbon Tetrachtoride         ND         5.0         10         03/26/2014 01:41           Chorobenzene         ND         5.0         10         03/26/2014 01:41           Chlorobenzene         ND         5.0         10         03/26/2014 01:41           Chloroform         ND         5.0         10         03/26/2014 01:41           Chloroform         ND         5.0         10         03/26/2014 01:41           Chlorotoluene         ND         5.0         10         03/26/2014 01:41           Chlorotoluene         ND         5.0         10         03/26/2014 01:41           Chlorotoluene         ND         5.0         10         03/26/2014 01:41 <td>Bromodichloromethane</td> <td>ND</td> <td></td> <td>5.0 10</td> <td></td> <td>03/26/2014 01:41</td>	Bromodichloromethane	ND		5.0 10		03/26/2014 01:41
2-Butanone (MEK)         ND         20         10         03/26/2014 01:41           1-Butyl alcohol (TEA)         ND         20         10         03/26/2014 01:41           n-Butyl benzene         ND         5.0         10         03/26/2014 01:41           scc-Butyl benzene         ND         5.0         10         03/26/2014 01:41           tersenetyl benzene         ND         5.0         10         03/26/2014 01:41           Carbon Disulfide         ND         5.0         10         03/26/2014 01:41           Carbon Disulfide         ND         5.0         10         03/26/2014 01:41           Chlorobenzene         ND         5.0         10         03/26/2014 01:41           12-Chlorobenzene         ND         5.0         10         03/26/2014 01:41<	Bromoform	ND		5.0 10		03/26/2014 01:41
t-Butyl alcohol (TBA)         ND         20         10         03/26/2014 01:41           n-Butyl benzene         ND         5.0         10         03/26/2014 01:41           sec-Butyl benzene         ND         5.0         10         03/26/2014 01:41           tert-Butyl benzene         ND         5.0         10         03/26/2014 01:41           Carbon Disulide         ND         5.0         10         03/26/2014 01:41           Carbon Tetrachloride         ND         5.0         10         03/26/2014 01:41           Chlorobenzene         ND         5.0         10         03/26/2014 01:41           Chloroform         ND         5.0         10         03/26/2014 01:41           Chloroform         ND         5.0         10         03/26/2014 01:41           Chlorotofuene         ND         5.0         10         03/26/2014 01:41           Chlorotofuene         ND         5.0         10         03/26/2014 01:41           Chlorotoluene         ND         5.0         10         03/26/2014 01:41           12-Chlorotoluene         ND         5.0         10         03/26/2014 01:41           12-Chlorotoluene         ND         5.0         10         03/26/2014 01:41 <td>Bromomethane</td> <td>ND</td> <td></td> <td>5.0 10</td> <td></td> <td>03/26/2014 01:41</td>	Bromomethane	ND		5.0 10		03/26/2014 01:41
n-Butyl benzene         ND         5.0         10         03/26/2014 01:41           sec-Butyl benzene         ND         5.0         10         03/26/2014 01:41           tert-Butyl benzene         ND         5.0         10         03/26/2014 01:41           Carbon Disuffide         ND         5.0         10         03/26/2014 01:41           Carbon Disuffide         ND         5.0         10         03/26/2014 01:41           Chorobenzene         ND         5.0         10         03/26/2014 01:41           Chlorobenzene         ND         5.0         10         03/26/2014 01:41           Chlorobenzene         ND         5.0         10         03/26/2014 01:41           Chlorobenzene         ND         5.0         10         03/26/2014 01:41           Chlorotoluene         ND         5.0         10         03/26/2014 01:41           2-Chlorotoluene         ND         5.0         10         03/26/2014 01:41           12-Chlorotoluene         ND         5.0         10         03/26/2014 01:41           12-Dibromoethane         ND         5.0         10         03/26/2014 01:41           12-Dibromoethane         ND         5.0         10         03/26/2014 01:41 <td>2-Butanone (MEK)</td> <td>ND</td> <td></td> <td>20 10</td> <td></td> <td>03/26/2014 01:41</td>	2-Butanone (MEK)	ND		20 10		03/26/2014 01:41
sec-Butyl benzene         ND         5.0         10         03/26/2014 01:41           tert-Butyl benzene         ND         5.0         10         03/26/2014 01:41           Carbon Disulfide         ND         5.0         10         03/26/2014 01:41           Carbon Disulfide         ND         5.0         10         03/26/2014 01:41           Chlorobenzene         ND         5.0         10         03/26/2014 01:41           Chlorobenzene         ND         5.0         10         03/26/2014 01:41           Chloroethane         ND         5.0         10         03/26/2014 01:41           Chloromethane         ND         5.0         10         03/26/2014 01:41           2-Chlorotoluene         ND         5.0         10         03/26/2014 01:41           4-Chlorotoluene         ND         5.0         10         03/26/2014 01:41           4-Chlorotoluene         ND         5.0         10         03/26/2014 01:41           1.2-Dibromochloromethane         ND         5.0         10         03/26/2014 01:41           1.2-Dibromochloromethane         ND         5.0         10         03/26/2014 01:41           1.2-Dibromochloromethane         ND         5.0         10	t-Butyl alcohol (TBA)	ND		20 10		03/26/2014 01:41
tert-Butyl benzene         ND         5.0         10         03/26/2014 01:41           Carbon Disulfide         ND         5.0         10         03/26/2014 01:41           Carbon Tetrachloride         ND         5.0         10         03/26/2014 01:41           Chlorobenzene         ND         5.0         10         03/26/2014 01:41           Chloroberzene         ND         5.0         10         03/26/2014 01:41           Chloroform         ND         5.0         10         03/26/2014 01:41           Chloroform         ND         5.0         10         03/26/2014 01:41           Chloroform         ND         5.0         10         03/26/2014 01:41           2-Chlorotoluene         ND         5.0         10         03/26/2014 01:41           2-Chlorotoluene         ND         5.0         10         03/26/2014 01:41           1,2-Dibromo-schloropopane         ND         5.0         10	n-Butyl benzene	ND		5.0 10		03/26/2014 01:41
Carbon Disulfide         ND         5.0         10         03/26/2014 01:41           Carbon Tetrachloride         ND         5.0         10         03/26/2014 01:41           Chlorobenzene         ND         5.0         10         03/26/2014 01:41           Chlorobenzene         ND         5.0         10         03/26/2014 01:41           Chlorobenzene         ND         5.0         10         03/26/2014 01:41           Chlorobram         ND         5.0         10         03/26/2014 01:41           Chlorobrame         ND         5.0         10         03/26/2014 01:41           2-Chlorotoluene         ND         5.0         10         03/26/2014 01:41           2-Chlorotoluene         ND         5.0         10         03/26/2014 01:41           1_2-Dibromo-3-chloropropane         ND         5.0         10         03/26/2014 01:41           1_2-Dibromo-dhane (EDB)         ND         5.0         10         03/26/2014 01:41           1_2-Dibromoethane         ND         5.0         10         03/26/2014 01:41           1_2-Dibromoethane         ND         5.0         10         03/26/2014 01:41           1_2-Dibromoethane         ND         5.0         10         0	sec-Butyl benzene	ND		5.0 10		03/26/2014 01:41
Carbon Tetrachloride         ND         5.0         10         03/26/2014 01:41           Chlorobenzene         ND         5.0         10         03/26/2014 01:41           Chlorobetnane         ND         5.0         10         03/26/2014 01:41           Chlorobetnane         ND         5.0         10         03/26/2014 01:41           Chloroothurne         ND         5.0         10         03/26/2014 01:41           Chloroothurne         ND         5.0         10         03/26/2014 01:41           2-Chlorotoluene         ND         5.0         10         03/26/2014 01:41           4-Chlorotoluene         ND         5.0         10         03/26/2014 01:41           1-2-Dibromo-3-chloropropane         ND         5.0         10         03/26/2014 01:41           1,2-Dibromo-3-chloropropane         ND         5.0         10         03/26/2014 01:41           1,2-Dibromoethane (EDB)         ND         5.0         10         03/26/2014 01:41           1,2-Dichlorobenzene         ND         5.0         10         03/26/2014 01:41           1,4-Dichlorobenzene         ND         5.0         10         03/26/2014 01:41           1,4-Dichlorobenzene         ND         5.0 <td< td=""><td>tert-Butyl benzene</td><td>ND</td><td></td><td>5.0 10</td><td></td><td>03/26/2014 01:41</td></td<>	tert-Butyl benzene	ND		5.0 10		03/26/2014 01:41
Chlorobenzene         ND         5.0         10         03/26/2014 01:41           Chlorobenzene         ND         5.0         10         03/26/2014 01:41           Chlorobram         ND         5.0         10         03/26/2014 01:41           Chlorobram         ND         5.0         10         03/26/2014 01:41           Chlorobluene         ND         5.0         10         03/26/2014 01:41           2-Chlorobluene         ND         5.0         10         03/26/2014 01:41           12-Chlorobluene         ND         5.0         10         03/26/2014 01:41           12-Dibromo-3-chloropropane         ND         5.0         10         03/26/2014 01:41           12-Dibromoethane (EDB)         ND         5.0         10         03/26/2014 01:41           12-Dibromoethane         ND         5.0         10         03/26/2014 01:41           12-Dibromoethane         ND         5.0         10         03/26/2014 01:41           13-Dichlorobenzene         ND         5.0         10         03/26/2014 01:41           14         1,4-Dichlorobenzene         ND         5.0         10         03/26/2014 01:41           1,4-Dichlorobenzene         ND         5.0         10 <td>Carbon Disulfide</td> <td>ND</td> <td></td> <td>5.0 10</td> <td></td> <td>03/26/2014 01:41</td>	Carbon Disulfide	ND		5.0 10		03/26/2014 01:41
Chloroethane         ND         5.0         10         03/26/2014 01:41           Chloroform         ND         5.0         10         03/26/2014 01:41           Chloroform         ND         5.0         10         03/26/2014 01:41           2-Chlorotoluene         ND         5.0         10         03/26/2014 01:41           2-Chlorotoluene         ND         5.0         10         03/26/2014 01:41           12-Chlorotoluene         ND         5.0         10         03/26/2014 01:41           12-Dibromochloromethane         ND         5.0         10         03/26/2014 01:41           12-Dibromo-3-chloropropane         ND         5.0         10         03/26/2014 01:41           12-Dibromoethane (EDB)         ND         5.0         10         03/26/2014 01:41           12-Dichlorobenzene         ND         5.0         10         03/26/2014 01:41           12-Dichlorobenzene         ND         5.0         10         03/26/2014 01:41           13-Dichlorobenzene         ND         5.0         10         03/26/2014 01:41           14-Dichlorobenzene         ND         5.0         10         03/26/2014 01:41           14-Dichloroethane         ND         5.0         10	Carbon Tetrachloride	ND		5.0 10		03/26/2014 01:41
Chloroform         ND         5.0         10         03/26/2014 01:41           Chloroform         ND         5.0         10         03/26/2014 01:41           2-Chlorotoluene         ND         5.0         10         03/26/2014 01:41           2-Chlorotoluene         ND         5.0         10         03/26/2014 01:41           4-Chlorotoluene         ND         5.0         10         03/26/2014 01:41           1,2-Dibromo-3-chloropropane         ND         5.0         10         03/26/2014 01:41           1,2-Dibromo-3-chloropropane         ND         2.0         10         03/26/2014 01:41           1,2-Dibromoethane (EDB)         ND         5.0         10         03/26/2014 01:41           1,2-Dichlorobenzene         ND         5.0         10         03/26/2014 01:41           1,3-Dichlorobenzene         ND         5.0         10         03/26/2014 01:41           1,4-Dichlorobenzene         ND         5.0         10         03/26/2014 01:41           1,4-Dichlorobenzene         ND         5.0         10         03/26/2014 01:41           1,4-Dichlorobenzene         ND         5.0         10         03/26/2014 01:41           1,4-Dichloroethane         ND         5.0	Chlorobenzene	ND		5.0 10		03/26/2014 01:41
Chloromethane         ND         5.0         10         03/26/2014 01:41           2-Chlorotoluene         ND         5.0         10         03/26/2014 01:41           4-Chlorotoluene         ND         5.0         10         03/26/2014 01:41           12-Chlorotoluene         ND         5.0         10         03/26/2014 01:41           1,2-Dibromo-3-chloropropane         ND         2.0         10         03/26/2014 01:41           1,2-Dibromo-3-chloropropane         ND         5.0         10         03/26/2014 01:41           1,2-Dibromo-s-chloropropane         ND         5.0         10         03/26/2014 01:41           1,2-Dibromoethane (EDB)         ND         5.0         10         03/26/2014 01:41           1,2-Dichlorobenzene         ND         5.0         10         03/26/2014 01:41           1,3-Dichlorobenzene         ND         5.0         10         03/26/2014 01:41           1,4-Dichlorobenzene         ND         5.0         10         03/26/2014 01:41           1,4-Dichlorobenzene         ND         5.0         10         03/26/2014 01:41           1,4-Dichlorobenzene         ND         5.0         10         03/26/2014 01:41           1,1-Dichloroethane         ND	Chloroethane	ND		5.0 10		03/26/2014 01:41
2-Chlorotoluene         ND         5.0         10         03/26/2014 01:41           4-Chlorotoluene         ND         5.0         10         03/26/2014 01:41           Dibromochloromethane         ND         5.0         10         03/26/2014 01:41           1,2-Dibromo-3-chloropropane         ND         2.0         10         03/26/2014 01:41           1,2-Dibromo-3-chloropropane         ND         5.0         10         03/26/2014 01:41           1,2-Dibromoethane (EDB)         ND         5.0         10         03/26/2014 01:41           1,2-Dichlorobenzene         ND         5.0         10         03/26/2014 01:41           1,3-Dichlorobenzene         ND         5.0         10         03/26/2014 01:41           1,4-Dichlorobenzene         ND         5.0         10         03/26/2014 01:41           1,4-Dichlorobenzene         ND         5.0         10         03/26/2014 01:41           1,4-Dichlorobenzene         ND         5.0         10         03/26/2014 01:41           1,4-Dichloroethane         ND         5.0         10         03/26/2014 01:41           1,1-Dichloroethane         ND         5.0         10         03/26/2014 01:41           1,2-Dichloroethene         ND	Chloroform	ND		5.0 10		03/26/2014 01:41
4-Chlorotoluene         ND         5.0         10         03/26/2014 01:41           Dibromochloromethane         ND         5.0         10         03/26/2014 01:41           1,2-Dibromo-3-chloropropane         ND         2.0         10         03/26/2014 01:41           1,2-Dibromo-3-chloropropane         ND         5.0         10         03/26/2014 01:41           1,2-Dibromoethane (EDB)         ND         5.0         10         03/26/2014 01:41           1,2-Dichlorobenzene         ND         5.0         10         03/26/2014 01:41           1,2-Dichlorobenzene         ND         5.0         10         03/26/2014 01:41           1,3-Dichlorobenzene         ND         5.0         10         03/26/2014 01:41           1,4-Dichlorobenzene         ND         5.0         10         03/26/2014 01:41           1,4-Dichlorobenzene         ND         5.0         10         03/26/2014 01:41           1,1-Dichloroethane         ND         5.0         10         03/26/2014 01:41           1,2-Dichloroethane         ND         5.0         10         03/26/2014 01:41           1,1-Dichloroethane         ND         5.0         10         03/26/2014 01:41           1,2-Dichloroethene         ND	Chloromethane	ND		5.0 10		03/26/2014 01:41
Dibromochloromethane         ND         5.0         10         03/26/2014 01:41           1,2-Dibromo-3-chloropropane         ND         2.0         10         03/26/2014 01:41           1,2-Dibromoethane (EDB)         ND         5.0         10         03/26/2014 01:41           Dibromoethane (EDB)         ND         5.0         10         03/26/2014 01:41           1,2-Dichlorobenzene         ND         5.0         10         03/26/2014 01:41           1,3-Dichlorobenzene         ND         5.0         10         03/26/2014 01:41           1,3-Dichlorobenzene         ND         5.0         10         03/26/2014 01:41           1,4-Dichlorobenzene         ND         5.0         10         03/26/2014 01:41           1,4-Dichlorobenzene         ND         5.0         10         03/26/2014 01:41           1,4-Dichlorotenzene         ND         5.0         10         03/26/2014 01:41           1,1-Dichlorotentane         ND         5.0         10         03/26/2014 01:41           1,2-Dichloroethane         ND         5.0         10         03/26/2014 01:41           1,2-Dichloroethene         ND         5.0         10         03/26/2014 01:41           1,1-Dichloroethene         ND	2-Chlorotoluene	ND		5.0 10		03/26/2014 01:41
1,2-Dibromo-3-chloropropaneND2.01003/26/2014 01:411,2-Dibromoethane (EDB)ND5.01003/26/2014 01:41DibromomethaneND5.01003/26/2014 01:411,2-DichlorobenzeneND5.01003/26/2014 01:411,3-DichlorobenzeneND5.01003/26/2014 01:411,4-DichlorobenzeneND5.01003/26/2014 01:411,4-DichlorobenzeneND5.01003/26/2014 01:411,4-DichlorobenzeneND5.01003/26/2014 01:411,1-DichloroethaneND5.01003/26/2014 01:411,2-DichloroethaneND5.01003/26/2014 01:411,2-DichloroethaneND5.01003/26/2014 01:411,2-DichloroetheneND5.01003/26/2014 01:411,2-DichloroetheneND5.01003/26/2014 01:411,1-DichloroetheneND5.01003/26/2014 01:411,2-DichloroetheneND5.01003/26/2014 01:411,2-DichloroetheneND5.01003/26/2014 01:411,2-DichloroetheneND5.01003/26/2014 01:411,2-DichloroetheneND5.01003/26/2014 01:411,2-DichloroetheneND5.01003/26/2014 01:411,2-DichloropropaneND5.01003/26/2014 01:411,3-DichloropropaneND5.01003/26/2014 01:412,2-Dichloropropan	4-Chlorotoluene	ND		5.0 10		03/26/2014 01:41
1,2-Dibromoethane (EDB)ND5.01003/26/2014 01:41DibromomethaneND5.01003/26/2014 01:411,2-DichlorobenzeneND5.01003/26/2014 01:411,3-DichlorobenzeneND5.01003/26/2014 01:411,4-DichlorobenzeneND5.01003/26/2014 01:411,4-DichlorobenzeneND5.01003/26/2014 01:411,4-DichlorobenzeneND5.01003/26/2014 01:411,4-DichlorobenzeneND5.01003/26/2014 01:411,1-DichloroethaneND5.01003/26/2014 01:411,2-Dichloroethane (1,2-DCA)ND5.01003/26/2014 01:411,1-DichloroetheneND5.01003/26/2014 01:411,2-DichloroetheneND5.01003/26/2014 01:411,2-DichloroetheneND5.01003/26/2014 01:411,2-DichloroetheneND5.01003/26/2014 01:411,2-DichloroetheneND5.01003/26/2014 01:411,2-DichloroetheneND5.01003/26/2014 01:411,2-DichloropropaneND5.01003/26/2014 01:411,3-DichloropropaneND5.01003/26/2014 01:412,2-DichloropropaneND5.01003/26/2014 01:412,2-DichloropropaneND5.01003/26/2014 01:41	Dibromochloromethane	ND		5.0 10		03/26/2014 01:41
DibromomethaneND5.01003/26/2014 01:411,2-DichlorobenzeneND5.01003/26/2014 01:411,3-DichlorobenzeneND5.01003/26/2014 01:411,4-DichlorobenzeneND5.01003/26/2014 01:411,4-DichlorobenzeneND5.01003/26/2014 01:411,4-DichlorobenzeneND5.01003/26/2014 01:411,1-DichloroethaneND5.01003/26/2014 01:411,2-DichloroethaneND5.01003/26/2014 01:411,2-DichloroethaneND5.01003/26/2014 01:411,1-DichloroetheneND5.01003/26/2014 01:411,2-DichloroetheneND5.01003/26/2014 01:411,2-DichloroetheneND5.01003/26/2014 01:411,2-DichloroetheneND5.01003/26/2014 01:411,2-DichloroetheneND5.01003/26/2014 01:411,2-DichloropropaneND5.01003/26/2014 01:411,2-DichloropropaneND5.01003/26/2014 01:412,2-DichloropropaneND5.01003/26/2014 01:412,2-DichloropropaneND5.01003/26/2014 01:412,2-DichloropropaneND5.01003/26/2014 01:412,2-DichloropropaneND5.01003/26/2014 01:41	1,2-Dibromo-3-chloropropane	ND		2.0 10		03/26/2014 01:41
1,2-Dichlorobenzene         ND         5.0         10         03/26/2014 01:41           1,3-Dichlorobenzene         ND         5.0         10         03/26/2014 01:41           1,4-Dichlorobenzene         ND         5.0         10         03/26/2014 01:41           1,4-Dichlorobenzene         ND         5.0         10         03/26/2014 01:41           Dichlorodifluoromethane         ND         5.0         10         03/26/2014 01:41           1,1-Dichloroethane         ND         5.0         10         03/26/2014 01:41           1,2-Dichloroethane         ND         5.0         10         03/26/2014 01:41           1,2-Dichloroethane         ND         5.0         10         03/26/2014 01:41           1,2-Dichloroethane         ND         5.0         10         03/26/2014 01:41           1,2-Dichloroethene         ND         5.0         10         03/26/2014 01:41           1,1-Dichloroethene         ND         5.0         10         03/26/2014 01:41           1,2-Dichloroethene         ND         5.0         10         03/26/2014 01:41           1,2-Dichloropropane         ND         5.0         10         03/26/2014 01:41           1,3-Dichloropropane         ND         5.0 <td>1,2-Dibromoethane (EDB)</td> <td>ND</td> <td></td> <td>5.0 10</td> <td></td> <td>03/26/2014 01:41</td>	1,2-Dibromoethane (EDB)	ND		5.0 10		03/26/2014 01:41
1,3-DichlorobenzeneND5.01003/26/2014 01:411,4-DichlorobenzeneND5.01003/26/2014 01:41DichlorodifluoromethaneND5.01003/26/2014 01:411,1-DichloroethaneND5.01003/26/2014 01:411,2-Dichloroethane (1,2-DCA)ND5.01003/26/2014 01:411,1-DichloroetheneND5.01003/26/2014 01:411,2-DichloroetheneND5.01003/26/2014 01:411,2-DichloroetheneND5.01003/26/2014 01:41trans-1,2-DichloroetheneND5.01003/26/2014 01:411,2-DichloropropaneND5.01003/26/2014 01:411,2-DichloropropaneND5.01003/26/2014 01:412,2-DichloropropaneND5.01003/26/2014 01:412,2-DichloropropaneND5.01003/26/2014 01:41	Dibromomethane	ND		5.0 10		03/26/2014 01:41
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DichlorodifluoromethaneND5.01003/26/2014 01:411,1-DichloroethaneND5.01003/26/2014 01:411,2-Dichloroethane (1,2-DCA)ND5.01003/26/2014 01:411,1-DichloroetheneND5.01003/26/2014 01:411,1-DichloroetheneND5.01003/26/2014 01:411,2-DichloroetheneND5.01003/26/2014 01:41trans-1,2-DichloroetheneND5.01003/26/2014 01:411,2-DichloropropaneND5.01003/26/2014 01:411,3-DichloropropaneND5.01003/26/2014 01:412,2-DichloropropaneND5.01003/26/2014 01:41	1,3-Dichlorobenzene	ND		5.0 10		03/26/2014 01:41
1,1-DichloroethaneND5.01003/26/2014 01:411,2-Dichloroethane (1,2-DCA)ND5.01003/26/2014 01:411,1-DichloroetheneND5.01003/26/2014 01:41cis-1,2-DichloroetheneND5.01003/26/2014 01:41trans-1,2-DichloroetheneND5.01003/26/2014 01:411,2-DichloroetheneND5.01003/26/2014 01:411,2-DichloropropaneND5.01003/26/2014 01:412,2-DichloropropaneND5.01003/26/2014 01:412,2-DichloropropaneND5.01003/26/2014 01:41	1,4-Dichlorobenzene	ND		5.0 10		03/26/2014 01:41
1,2-Dichloroethane (1,2-DCA)ND5.01003/26/2014 01:411,1-DichloroetheneND5.01003/26/2014 01:41cis-1,2-DichloroetheneND5.01003/26/2014 01:41trans-1,2-DichloroetheneND5.01003/26/2014 01:411,2-DichloroptopaneND5.01003/26/2014 01:411,3-DichloropropaneND5.01003/26/2014 01:412,2-DichloropropaneND5.01003/26/2014 01:41	Dichlorodifluoromethane	ND		5.0 10		03/26/2014 01:41
1,1-DichloroetheneND5.01003/26/2014 01:41cis-1,2-DichloroetheneND5.01003/26/2014 01:41trans-1,2-DichloroetheneND5.01003/26/2014 01:411,2-DichloropropaneND5.01003/26/2014 01:411,3-DichloropropaneND5.01003/26/2014 01:412,2-DichloropropaneND5.01003/26/2014 01:412,2-DichloropropaneND5.01003/26/2014 01:41	1,1-Dichloroethane	ND		5.0 10		03/26/2014 01:41
cis-1,2-DichloroetheneND5.01003/26/2014 01:41trans-1,2-DichloroetheneND5.01003/26/2014 01:411,2-DichloropropaneND5.01003/26/2014 01:411,3-DichloropropaneND5.01003/26/2014 01:412,2-DichloropropaneND5.01003/26/2014 01:412,2-DichloropropaneND5.01003/26/2014 01:41	1,2-Dichloroethane (1,2-DCA)	ND		5.0 10		03/26/2014 01:41
trans-1,2-DichloroetheneND5.01003/26/2014 01:411,2-DichloropropaneND5.01003/26/2014 01:411,3-DichloropropaneND5.01003/26/2014 01:412,2-DichloropropaneND5.01003/26/2014 01:41	1,1-Dichloroethene	ND		5.0 10		03/26/2014 01:41
1,2-DichloropropaneND5.01003/26/2014 01:411,3-DichloropropaneND5.01003/26/2014 01:412,2-DichloropropaneND5.01003/26/2014 01:41	cis-1,2-Dichloroethene	ND		5.0 10		03/26/2014 01:41
ND         5.0         10         03/26/2014 01:41           2,2-Dichloropropane         ND         5.0         10         03/26/2014 01:41	trans-1,2-Dichloroethene	ND		5.0 10		03/26/2014 01:41
2,2-Dichloropropane         ND         5.0         10         03/26/2014 01:41	1,2-Dichloropropane	ND		5.0 10		03/26/2014 01:41
	1,3-Dichloropropane	ND		5.0 10		03/26/2014 01:41
1,1-Dichloropropene ND 5.0 10 03/26/2014 01:41	2,2-Dichloropropane	ND		5.0 10		03/26/2014 01:41
	1,1-Dichloropropene	ND		5.0 10		03/26/2014 01:41





Client:	All West Environmental, Inc	WorkOrder:	1403700
Project:	#14011.28; Hollis-Emeryville	<b>Extraction Method</b>	SW5030B
Date Received:	3/20/14 20:00	Analytical Method:	SW8260B
Date Prepared:	3/26/14-3/27/14	Unit:	µg/L

Client ID	Lab ID	Matrix/ExtType	Date Collect	ed Instrument	Batch ID
AMW-2	1403700-002A	Water	03/19/2014 16:	32 GC18	88571
Analytes	<u>Result</u>		<u>rl</u> <u>D</u> F		Date Analyzed
cis-1,3-Dichloropropene	ND		5.0 10		03/26/2014 01:41
trans-1,3-Dichloropropene	ND		5.0 10		03/26/2014 01:41
Diisopropyl ether (DIPE)	ND		5.0 10		03/26/2014 01:41
Ethylbenzene	17		5.0 10		03/26/2014 01:41
Ethyl tert-butyl ether (ETBE)	ND		5.0 10		03/26/2014 01:41
Freon 113	ND		5.0 10		03/26/2014 01:41
Hexachlorobutadiene	ND		5.0 10		03/26/2014 01:41
Hexachloroethane	ND		5.0 10		03/26/2014 01:41
2-Hexanone	ND		5.0 10		03/26/2014 01:41
Isopropylbenzene	ND		5.0 10		03/26/2014 01:41
4-Isopropyl toluene	ND		5.0 10		03/26/2014 01:41
Methyl-t-butyl ether (MTBE)	300		5.0 10		03/26/2014 01:41
Methylene chloride	ND		5.0 10		03/26/2014 01:41
4-Methyl-2-pentanone (MIBK)	ND		5.0 10		03/26/2014 01:41
Naphthalene	14		5.0 10		03/26/2014 01:41
n-Propyl benzene	6.2		5.0 10		03/26/2014 01:41
Styrene	ND		5.0 10		03/26/2014 01:41
1,1,1,2-Tetrachloroethane	ND		5.0 10		03/26/2014 01:41
1,1,2,2-Tetrachloroethane	ND		5.0 10		03/26/2014 01:41
Tetrachloroethene	ND		5.0 10		03/26/2014 01:41
Toluene	ND		5.0 10		03/26/2014 01:41
1,2,3-Trichlorobenzene	ND		5.0 10		03/26/2014 01:41
1,2,4-Trichlorobenzene	ND		5.0 10		03/26/2014 01:41
1,1,1-Trichloroethane	ND		5.0 10		03/26/2014 01:41
1,1,2-Trichloroethane	ND		5.0 10		03/26/2014 01:41
Trichloroethene	ND		5.0 10		03/26/2014 01:41
Trichlorofluoromethane	ND		5.0 10		03/26/2014 01:41
1,2,3-Trichloropropane	ND		5.0 10		03/26/2014 01:41
1,2,4-Trimethylbenzene	38		5.0 10		03/26/2014 01:41
1,3,5-Trimethylbenzene	6.0		5.0 10		03/26/2014 01:41
Vinyl Chloride	ND		5.0 10		03/26/2014 01:41
Xylenes, Total	19		5.0 10		03/26/2014 01:41
Surrogates	<u>REC (%)</u>		<u>Limits</u>		
Dibromofluoromethane	99		70-130		03/26/2014 01:41
Toluene-d8	94		70-130		03/26/2014 01:41
4-BFB	89		70-130		03/26/2014 01:41





Client:	All West Environmental, Inc	WorkOrder:	1403700
Project:	#14011.28; Hollis-Emeryville	<b>Extraction Method</b>	SW5030B
Date Received:	3/20/14 20:00	Analytical Method:	SW8260B
Date Prepared:	3/26/14-3/27/14	Unit:	µg/L

AMW-3         1403700-003A         Water         03/19/2014 09:40         OC18         88674           Analytes         Result         RL         DE         Date Analyzed           Acetone         ND         100         10         03/26/2014 22:43           Berzene         ND         5.0         10         03/26/2014 22:43           Bromochoromethane         ND         5.0         10         03/26/2014 22:43           Bromochinomethane         ND         5.0         10         03/26/2014 22:43           Bromorothane         ND         5.0         10         03/26/2014 22:43           Pauty lanzone (MEK)         ND         20         10         03/26/2014 22:43           Brot participare         ND         5.0         10         03/26/2014 22:43           Carbon Disulfide         ND         5.0         10         03/26/2014 22:43           Carbon Disulfide         ND         5.0         10         0	Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
Actione         ND         100         10         03/26/2014 22:43           tert-Anyl methyl ether (TAME)         ND         5.0         10         03/26/2014 22:43           Bornoberzene         ND         5.0         10         03/26/2014 22:43           Bromoberzene         ND         5.0         10         03/26/2014 22:43           Bromochloromethane         ND         5.0         10         03/26/2014 22:43           Bromochloromethane         ND         5.0         10         03/26/2014 22:43           Bromoterthane         ND         5.0         10         03/26/2014 22:43           Bromoterthane         ND         5.0         10         03/26/2014 22:43           Lebutance (MEK)         ND         20         10         03/26/2014 22:43           Lebutyl alcohol (TBA)         ND         20         10         03/26/2014 22:43           Lert-Butyl benzene         ND         5.0         10         03/26/2014 22:43           Lert-Butyl benzene         ND         5.0         10         03/26/2014 22:43           Carbon Tetrachiorie         ND         5.0         10         03/26/2014 22:43           Carbon Disulfide         ND         5.0         10         0	AMW-3	1403700-003A	Water	03/19/2014 09:40	GC18	88674
tert-Amyl methyl ether (TAME)         ND         5.0         10         03/26/2014 22:43           Berzene         ND         5.0         10         03/26/2014 22:43           Bromobenzene         ND         5.0         10         03/26/2014 22:43           Bromochloromethane         ND         5.0         10         03/26/2014 22:43           Bromodichloromethane         ND         5.0         10         03/26/2014 22:43           Bromodern         ND         5.0         10         03/26/2014 22:43           Bromodern         ND         2.0         10         03/26/2014 22:43           PBuryl benzene         ND         2.0         10         03/26/2014 22:43           r-Buryl benzene         ND         5.0         10         03/26/2014 22:43           tert-Buryl benzene         ND         5.0         10         03/26/2014 22:43           tert-Buryl benzene         ND         5.0         10         03/26/2014 22:43           Carbon Disulfide         ND         5.0         10         03/26/2014 22:43           Carbon Disulfide         ND         5.0         10         03/26/2014 22:43           Chlororethane         ND         5.0         10         03/26/2014 22:	<u>Analytes</u>	<u>Result</u>		<u>RL</u> <u>DF</u>		Date Analyzed
Berzene         ND         5.0         10         03/26/2014 22:43           Bromobenzene         ND         5.0         10         03/26/2014 22:43           Bromobionrenehane         ND         5.0         10         03/26/2014 22:43           Bromodichloromethane         ND         2.0         10         03/26/2014 22:43           Bromodichloromethane         ND         2.0         10         03/26/2014 22:43           Scabushol (TBA)         ND         2.0         10         03/26/2014 22:43           Scabushol (TBA)         ND         5.0         10         03/26/2014 22:43           Carbon Tetrachloride         ND         5.0         10         03/26/2014 22:43           Carbon Tetrachloride         ND         5.0         10         03/26/2014 22:43           Chlorobenzene         ND         5.0         10         03/26/2014 22:43           Chlorobenzene         ND         5.0         10	Acetone	ND		100 10		03/26/2014 22:43
Bromobenzene         ND         5.0         10         03/26/2014 22:43           Bromochloromethane         ND         5.0         10         03/26/2014 22:43           Bromochloromethane         ND         5.0         10         03/26/2014 22:43           Bromodinhoromethane         ND         5.0         10         03/26/2014 22:43           Bromomethane         ND         2.0         10         03/26/2014 22:43           2-Butanone (MEK)         ND         20         10         03/26/2014 22:43           1-Butyl benzene         ND         5.0         10         03/26/2014 22:43           sec-Butyl benzene         ND         5.0         10         03/26/2014 22:43           re-Butyl benzene         ND         5.0         10         03/26/2014 22:43           Carbon Disulfide         ND         5.0         10         03/26/2014 22:43           Carbon Disulfide         ND         5.0         10         03/26/2014 22:43           Chlorobenzene         ND         5.0         10         03/26/2014 22:43           Chlorobenzene         ND         5.0         10         03/26/2014 22:43           Chlorobenzene         ND         5.0         10         03/26/2014 22:4	tert-Amyl methyl ether (TAME)	ND		5.0 10		03/26/2014 22:43
Bromochloromethane         ND         5.0         10         03/26/2014 22:43           Bromodichloromethane         ND         5.0         10         03/26/2014 22:43           Bromodichloromethane         ND         5.0         10         03/26/2014 22:43           Bromoethane         ND         5.0         10         03/26/2014 22:43           Bromoethane         ND         20         10         03/26/2014 22:43           T-Butyl barzene         ND         5.0         10         03/26/2014 22:43           n-Butyl benzene         ND         5.0         10         03/26/2014 22:43           sec-Butyl benzene         ND         5.0         10         03/26/2014 22:43           Carbon Disulide         ND         5.0         10         03/26/2014 22:43           Carbon Disulide         ND         5.0         10         03/26/2014 22:43           Chlorothane         ND         5.0         10         03/26/2014 22:43 </td <td>Benzene</td> <td>ND</td> <td></td> <td>5.0 10</td> <td></td> <td>03/26/2014 22:43</td>	Benzene	ND		5.0 10		03/26/2014 22:43
Bromodichloromethane         ND         5.0         10         03/26/2014 22:43           Bromodrm         ND         5.0         10         03/26/2014 22:43           Bromomethane         ND         5.0         10         03/26/2014 22:43           Bromomethane         ND         2.0         10         03/26/2014 22:43           E-Butyl alcohol (TBA)         ND         20         10         03/26/2014 22:43           n-Butyl benzene         ND         5.0         10         03/26/2014 22:43           carbon Disulfide         ND         5.0         10         03/26/2014 22:43           Carbon Disulfide         ND         5.0         10         03/26/2014 22:43           Chlorobenzene         ND         5.0         10         03/26/2014 22:43           Chlorobenzene         ND         5.0         10         03/26/2014 22:43           Chloroberhane         ND         5.0         10         03/26/2014 22:43           Chloroberhane         ND         5.0         10         03/26/2014 22:43           Chloroberhane         ND         5.0         10         03/26/2014 22:43           2-Chlorotoluene         ND         5.0         10         03/26/2014 22:43 <td>Bromobenzene</td> <td>ND</td> <td></td> <td>5.0 10</td> <td></td> <td>03/26/2014 22:43</td>	Bromobenzene	ND		5.0 10		03/26/2014 22:43
Bromoform         ND         5.0         10         03/26/2014 22:43           Bromomethane         ND         5.0         10         03/26/2014 22:43           2-Butanone (MEK)         ND         20         10         03/26/2014 22:43           1-Butyl benzene         ND         5.0         10         03/26/2014 22:43           sec-Butyl benzene         ND         5.0         10         03/26/2014 22:43           Carbon Disulfide         ND         5.0         10         03/26/2014 22:43           Carbon Disulfide         ND         5.0         10         03/26/2014 22:43           Carbon Disulfide         ND         5.0         10         03/26/2014 22:43           Charbon Tetrachloride         ND         5.0         10         03/26/2014 22:43           Chlorobenzene         ND         5.0         10         03/26/2014 22:43           Chloroform         ND         5.0         10         03/26/2014 22:43 <t< td=""><td>Bromochloromethane</td><td>ND</td><td></td><td>5.0 10</td><td></td><td>03/26/2014 22:43</td></t<>	Bromochloromethane	ND		5.0 10		03/26/2014 22:43
Bromomethane         ND         5.0         10         03/26/2014 22:43           2-Butanone (MEK)         ND         20         10         03/26/2014 22:43           t-Butyl lacohol (TBA)         ND         20         10         03/26/2014 22:43           n-Butyl benzene         ND         5.0         10         03/26/2014 22:43           sec-Butyl benzene         ND         5.0         10         03/26/2014 22:43           Carbon Disulfide         ND         5.0         10         03/26/2014 22:43           Carbon Disulfide         ND         5.0         10         03/26/2014 22:43           Chorobenzene         ND         5.0         10         03/26/2014 22:43           Chlorobenzene         ND         5.0         10         03/26/2014 22:43           Chloroform         ND         5.0         10         03/26/2014 22:43	Bromodichloromethane	ND		5.0 10		03/26/2014 22:43
2-Butanone (MEK)         ND         20         10         03/26/2014 22:43           t-Butyl alcohol (TBA)         ND         20         10         03/26/2014 22:43           n-Butyl benzene         ND         5.0         10         03/26/2014 22:43           sec-Butyl benzene         ND         5.0         10         03/26/2014 22:43           carbon Disulfide         ND         5.0         10         03/26/2014 22:43           Carbon Disulfide         ND         5.0         10         03/26/2014 22:43           Chorobenzene         ND         5.0         10         03/26/2014 22:43           Chlorobenzene         ND         5.0         10         03/26/2014 22:43           1/2-Dichromochloromethane         ND         5.0         10         03/26/2014 22:	Bromoform	ND		5.0 10		03/26/2014 22:43
t-Butyl alcohol (TBA)         ND         20         10         03/26/2014 22:43           n-Butyl benzene         ND         5.0         10         03/26/2014 22:43           sec-Butyl benzene         ND         5.0         10         03/26/2014 22:43           carbon Disulfide         ND         5.0         10         03/26/2014 22:43           Carbon Disulfide         ND         5.0         10         03/26/2014 22:43           Carbon Disulfide         ND         5.0         10         03/26/2014 22:43           Chlorobenzene         ND         5.0         10         03/26/2014 22:43           1/2-Dibromo-3-chloropropane         ND         5.0         10         03/26/2014	Bromomethane	ND		5.0 10		03/26/2014 22:43
n-Butyl benzene         ND         5.0         10         03/26/2014 22:43           sec-Butyl benzene         ND         5.0         10         03/26/2014 22:43           tert-Butyl benzene         ND         5.0         10         03/26/2014 22:43           Carbon Disulfide         ND         5.0         10         03/26/2014 22:43           Carbon Disulfide         ND         5.0         10         03/26/2014 22:43           Chlorobenzene         ND         5.0         10         03/26/2014 22:43           Chlorobenzene         ND         5.0         10         03/26/2014 22:43           Chlorobenzene         ND         5.0         10         03/26/2014 22:43           Chlorotofurm         ND         5.0         10         03/26/2014 22:43           Chlorotoluene         ND         5.0         10         03/26/2014 22:43           2-Chlorotoluene         ND         5.0         10         03/26/2014 22:43           12-Dibromo-S-chloropropane         ND         5.0         10         03/26/2014 22:43           12-Dibromoethane (EDB)         ND         5.0         10         03/26/2014 22:43           12-Dibromoethane         ND         5.0         10         03/	2-Butanone (MEK)	ND		20 10		03/26/2014 22:43
sec-Butyl benzene         ND         5.0         10         03/26/2014 22:43           Carbon Disulfide         ND         5.0         10         03/26/2014 22:43           Carbon Disulfide         ND         5.0         10         03/26/2014 22:43           Carbon Disulfide         ND         5.0         10         03/26/2014 22:43           Chlorobenzene         ND         5.0         10         03/26/2014 22:43           Chlorobenzene         ND         5.0         10         03/26/2014 22:43           Chlorobenzene         ND         5.0         10         03/26/2014 22:43           Chloroform         ND         5.0         10         03/26/2014 22:43           Chlorotoluene         ND         5.0         10         03/26/2014 22:43           2-Chlorotoluene         ND         5.0         10         03/26/2014 22:43           4-Chlorotoluene         ND         5.0         10         03/26/2014 22:43           1,2-Dibromochloromethane         ND         5.0         10         03/26/2014 22:43           1,2-Dibromochloropropane         ND         5.0         10         03/26/2014 22:43           1,2-Dibromochloropethane         ND         5.0         10 <td< td=""><td>t-Butyl alcohol (TBA)</td><td>ND</td><td></td><td>20 10</td><td></td><td>03/26/2014 22:43</td></td<>	t-Butyl alcohol (TBA)	ND		20 10		03/26/2014 22:43
tert-Buty benzene         ND         5.0         10         03/26/2014 22:43           Carbon Disulfide         ND         5.0         10         03/26/2014 22:43           Carbon Tetrachloride         ND         5.0         10         03/26/2014 22:43           Chlorobenzene         ND         5.0         10         03/26/2014 22:43           2-Chlorobluene         ND         5.0         10         03/26/2014 22:43           12-Chlorobluene         ND         5.0         10         03/26/2014 22:43           12-Dibromo-3-chloropropane         ND         5.0         10         03/26/2014 22:43           12-Dibromoethane (EDB)         ND         5.0         10         03/26/2014 22:43           12-Dibromoethane (EDB)         ND         5.0         10         03/26/2014 22:43           12-Dibromoethane ND         5.0         10         03/26/2014 2	n-Butyl benzene	ND		5.0 10		03/26/2014 22:43
Carbon Disulfide         ND         5.0         10         03/26/2014 22:43           Carbon Tetrachloride         ND         5.0         10         03/26/2014 22:43           Chlorobenzene         ND         5.0         10         03/26/2014 22:43           Chlorobenzene         ND         5.0         10         03/26/2014 22:43           Chloroberne         ND         5.0         10         03/26/2014 22:43           Chloroform         ND         5.0         10         03/26/2014 22:43           Chloroform         ND         5.0         10         03/26/2014 22:43           Chlorotoluene         ND         5.0         10         03/26/2014 22:43           2-Chlorotoluene         ND         5.0         10         03/26/2014 22:43           12-Dibromochloromethane         ND         5.0         10         03/26/2014 22:43           12-Dibromochloropropane         ND         5.0         10         03/26/2014 22:43           12-Dibromochloropropane         ND         5.0         10         03/26/2014 22:43           12-Dibromochlaropropane         ND         5.0         10         03/26/2014 22:43           12-Dibromochlaropropane         ND         5.0         10	sec-Butyl benzene	ND		5.0 10		03/26/2014 22:43
Carbon Tetrachloride         ND         5.0         10         03/26/2014 22:43           Chlorobenzene         ND         5.0         10         03/26/2014 22:43           Chlorobetnane         ND         5.0         10         03/26/2014 22:43           Chlorobetnane         ND         5.0         10         03/26/2014 22:43           Chloromethane         ND         5.0         10         03/26/2014 22:43           Chloromethane         ND         5.0         10         03/26/2014 22:43           2-Chlorotoluene         ND         5.0         10         03/26/2014 22:43           4-Chlorotoluene         ND         5.0         10         03/26/2014 22:43           1/2-Dibromo-3-chloropropane         ND         5.0         10         03/26/2014 22:43           1,2-Dibromo-3-chloropropane         ND         5.0         10         03/26/2014 22:43           1,2-Dibromo-sthane (EDB)         ND         5.0         10         03/26/2014 22:43           1,2-Dichlorobenzene         ND         5.0         10         03/26/2014 22:43           1,4-Dichlorobenzene         ND         5.0         10         03/26/2014 22:43           1,4-Dichlorobenzene         ND         5.0 <t< td=""><td>tert-Butyl benzene</td><td>ND</td><td></td><td>5.0 10</td><td></td><td>03/26/2014 22:43</td></t<>	tert-Butyl benzene	ND		5.0 10		03/26/2014 22:43
Chlorobenzene         ND         5.0         10         03/26/2014 22:43           Chloroethane         ND         5.0         10         03/26/2014 22:43           Chloroform         ND         5.0         10         03/26/2014 22:43           Chloroform         ND         5.0         10         03/26/2014 22:43           Chlorofoluene         ND         5.0         10         03/26/2014 22:43           2-Chlorotoluene         ND         5.0         10         03/26/2014 22:43           4-Chlorotoluene         ND         5.0         10         03/26/2014 22:43           Dibromochloromethane         ND         5.0         10         03/26/2014 22:43           1,2-Dibromo-3-chloropropane         ND         5.0         10         03/26/2014 22:43           1,2-Dibromoethane (EDB)         ND         5.0         10         03/26/2014 22:43           1,2-Dichlorobenzene         ND         5.0         10         03/26/2014 22:43           1,3-Dichlorobenzene         ND         5.0         10         03/26/2014 22:43           1,4-Dichlorobenzene         ND         5.0         10         03/26/2014 22:43           1,4-Dichlorobenzene         ND         5.0         10	Carbon Disulfide	ND		5.0 10		03/26/2014 22:43
Chloroethane         ND         5.0         10         03/26/2014 22:43           Chloroform         ND         5.0         10         03/26/2014 22:43           Chloromethane         ND         5.0         10         03/26/2014 22:43           2-Chlorotoluene         ND         5.0         10         03/26/2014 22:43           4-Chlorotoluene         ND         5.0         10         03/26/2014 22:43           12-Dibromochloromethane         ND         5.0         10         03/26/2014 22:43           1,2-Dibromo-3-chloropropane         ND         5.0         10         03/26/2014 22:43           1,2-Dibromo-s-chloropropane         ND         5.0         10         03/26/2014 22:43           1,2-Dibromoethane (EDB)         ND         5.0         10         03/26/2014 22:43           1,2-Dichlorobenzene         ND         5.0         10         03/26/2014 22:43           1,3-Dichlorobenzene         ND         5.0         10         03/26/2014 22:43           1,4-Dichlorobenzene         ND         5.0         10         03/26/2014 22:43           1,4-Dichlorobenzene         ND         5.0         10         03/26/2014 22:43           1,4-Dichloroethane         ND         5.0	Carbon Tetrachloride	ND		5.0 10		03/26/2014 22:43
Chloroform         ND         5.0         10         03/26/2014 22:43           Chloromethane         ND         5.0         10         03/26/2014 22:43           2-Chlorotoluene         ND         5.0         10         03/26/2014 22:43           4-Chlorotoluene         ND         5.0         10         03/26/2014 22:43           4-Chlorotoluene         ND         5.0         10         03/26/2014 22:43           1,2-Dibromo-3-chloropropane         ND         5.0         10         03/26/2014 22:43           1,2-Dibromo-3-chloropropane         ND         2.0         10         03/26/2014 22:43           1,2-Dibromo-s-chloropropane         ND         5.0         10         03/26/2014 22:43           1,2-Dibromoethane (EDB)         ND         5.0         10         03/26/2014 22:43           1,2-Dichlorobenzene         ND         5.0         10         03/26/2014 22:43           1,3-Dichlorobenzene         ND         5.0         10         03/26/2014 22:43           1,4-Dichlorobenzene         ND         5.0         10         03/26/2014 22:43           1,4-Dichlorobenzene         ND         5.0         10         03/26/2014 22:43           1,4-Dichloroethane         ND         5.0	Chlorobenzene	ND		5.0 10		03/26/2014 22:43
Chloromethane         ND         5.0         10         03/26/2014 22:43           2-Chlorotoluene         ND         5.0         10         03/26/2014 22:43           4-Chlorotoluene         ND         5.0         10         03/26/2014 22:43           Dibromochloromethane         ND         5.0         10         03/26/2014 22:43           1,2-Dibromo-3-chloropropane         ND         2.0         10         03/26/2014 22:43           1,2-Dibromo-s-chloropropane         ND         5.0         10         03/26/2014 22:43           1,2-Dibromo-s-chloropropane         ND         5.0         10         03/26/2014 22:43           1,2-Dibromoethane (EDB)         ND         5.0         10         03/26/2014 22:43           1,2-Dichlorobenzene         ND         5.0         10         03/26/2014 22:43           1,3-Dichlorobenzene         ND         5.0         10         03/26/2014 22:43           1,4-Dichlorobenzene         ND         5.0         10         03/26/2014 22:43           1,4-Dichlorobenzene         ND         5.0         10         03/26/2014 22:43           1,1-Dichloroethane         ND         5.0         10         03/26/2014 22:43           1,2-Dichloroethane (1,2-DCA)	Chloroethane	ND		5.0 10		03/26/2014 22:43
2-Chlorotoluene         ND         5.0         10         03/26/2014 22:43           4-Chlorotoluene         ND         5.0         10         03/26/2014 22:43           Dibromochloromethane         ND         5.0         10         03/26/2014 22:43           1,2-Dibromo-3-chloropropane         ND         2.0         10         03/26/2014 22:43           1,2-Dibromo-3-chloropropane         ND         5.0         10         03/26/2014 22:43           1,2-Dibromoethane (EDB)         ND         5.0         10         03/26/2014 22:43           1,2-Dichlorobenzene         ND         5.0         10         03/26/2014 22:43           1,2-Dichlorobenzene         ND         5.0         10         03/26/2014 22:43           1,3-Dichlorobenzene         ND         5.0         10         03/26/2014 22:43           1,4-Dichlorobenzene         ND         5.0         10         03/26/2014 22:43           1,4-Dichlorobenzene         ND         5.0         10         03/26/2014 22:43           1,1-Dichloroethane         ND         5.0         10         03/26/2014 22:43           1,1-Dichloroethane         ND         5.0         10         03/26/2014 22:43           1,1-Dichloroethene         240	Chloroform	ND		5.0 10		03/26/2014 22:43
4-Chlorotoluene         ND         5.0         10         03/26/2014 22:43           Dibromochloromethane         ND         5.0         10         03/26/2014 22:43           1,2-Dibromo-3-chloropropane         ND         2.0         10         03/26/2014 22:43           1,2-Dibromo-3-chloropropane         ND         5.0         10         03/26/2014 22:43           1,2-Dibromoethane (EDB)         ND         5.0         10         03/26/2014 22:43           1,2-Dichlorobenzene         ND         5.0         10         03/26/2014 22:43           1,2-Dichlorobenzene         ND         5.0         10         03/26/2014 22:43           1,3-Dichlorobenzene         ND         5.0         10         03/26/2014 22:43           1,4-Dichlorobenzene         ND         5.0         10         03/26/2014 22:43           1,4-Dichlorobenzene         ND         5.0         10         03/26/2014 22:43           1,1-Dichloroethane         ND         5.0         10         03/26/2014 22:43           1,1-Dichloroethane         ND         5.0         10         03/26/2014 22:43           1,1-Dichloroethane         ND         5.0         10         03/26/2014 22:43           1,2-Dichloroethene         ND	Chloromethane	ND		5.0 10		03/26/2014 22:43
Dibromochloromethane         ND         5.0         10         03/26/2014 22:43           1,2-Dibromo-3-chloropropane         ND         2.0         10         03/26/2014 22:43           1,2-Dibromoethane (EDB)         ND         5.0         10         03/26/2014 22:43           Dibromoethane (EDB)         ND         5.0         10         03/26/2014 22:43           1,2-Dichlorobenzene         ND         5.0         10         03/26/2014 22:43           1,3-Dichlorobenzene         ND         5.0         10         03/26/2014 22:43           1,3-Dichlorobenzene         ND         5.0         10         03/26/2014 22:43           1,4-Dichlorobenzene         ND         5.0         10         03/26/2014 22:43           1,4-Dichlorobenzene         ND         5.0         10         03/26/2014 22:43           1,4-Dichlorotenzene         ND         5.0         10         03/26/2014 22:43           1,1-Dichloroethane         ND         5.0         10         03/26/2014 22:43           1,2-Dichloroethane         ND         5.0         10         03/26/2014 22:43           1,1-Dichloroethane         ND         5.0         10         03/26/2014 22:43           1,1-Dichloroethene         ND	2-Chlorotoluene	ND		5.0 10		03/26/2014 22:43
1,2-Dibromo-3-chloropropaneND2.01003/26/2014 22:431,2-Dibromoethane (EDB)ND5.01003/26/2014 22:43DibromomethaneND5.01003/26/2014 22:431,2-DichlorobenzeneND5.01003/26/2014 22:431,3-DichlorobenzeneND5.01003/26/2014 22:431,4-DichlorobenzeneND5.01003/26/2014 22:431,4-DichlorobenzeneND5.01003/26/2014 22:431,4-DichlorobenzeneND5.01003/26/2014 22:431,1-DichloroethaneND5.01003/26/2014 22:431,1-DichloroethaneND5.01003/26/2014 22:431,2-Dichloroethene2405.01003/26/2014 22:431,1-DichloroetheneND5.01003/26/2014 22:431,1-DichloroetheneND5.01003/26/2014 22:431,1-DichloroetheneND5.01003/26/2014 22:431,1-DichloroetheneND5.01003/26/2014 22:431,2-DichloroetheneND5.01003/26/2014 22:431,2-DichloroetheneND5.01003/26/2014 22:431,2-DichloroetheneND5.01003/26/2014 22:431,2-DichloroetheneND5.01003/26/2014 22:431,2-DichloropropaneND5.01003/26/2014 22:431,2-DichloropropaneND5.01003/26/2014 22:431,2-Dichloropropa	4-Chlorotoluene	ND		5.0 10		03/26/2014 22:43
1,2-Dibromoethane (EDB)ND5.01003/26/2014 22:43DibromomethaneND5.01003/26/2014 22:431,2-DichlorobenzeneND5.01003/26/2014 22:431,3-DichlorobenzeneND5.01003/26/2014 22:431,4-DichlorobenzeneND5.01003/26/2014 22:431,4-DichlorobenzeneND5.01003/26/2014 22:431,4-DichlorobenzeneND5.01003/26/2014 22:431,1-DichloroethaneND5.01003/26/2014 22:431,1-DichloroethaneND5.01003/26/2014 22:431,2-Dichloroethene2405.01003/26/2014 22:431,1-DichloroetheneND5.01003/26/2014 22:431,2-DichloroetheneND5.01003/26/2014 22:431,1-DichloroetheneND5.01003/26/2014 22:431,2-DichloroetheneND5.01003/26/2014 22:431,2-DichloroetheneND5.01003/26/2014 22:431,2-DichloroetheneND5.01003/26/2014 22:431,2-DichloropropaneND5.01003/26/2014 22:431,3-DichloropropaneND5.01003/26/2014 22:432,2-DichloropropaneND5.01003/26/2014 22:432,2-DichloropropaneND5.01003/26/2014 22:43	Dibromochloromethane	ND		5.0 10		03/26/2014 22:43
DibromomethaneND5.01003/26/2014 22:431,2-DichlorobenzeneND5.01003/26/2014 22:431,3-DichlorobenzeneND5.01003/26/2014 22:431,4-DichlorobenzeneND5.01003/26/2014 22:431,4-DichlorobenzeneND5.01003/26/2014 22:431,4-DichlorodifluoromethaneND5.01003/26/2014 22:431,1-DichloroethaneND5.01003/26/2014 22:431,2-Dichloroethane (1,2-DCA)ND5.01003/26/2014 22:431,1-Dichloroethene2405.01003/26/2014 22:43cis-1,2-DichloroetheneND5.01003/26/2014 22:431,2-DichloroetheneND5.01003/26/2014 22:431,2-DichloroetheneND5.01003/26/2014 22:431,2-DichloroetheneND5.01003/26/2014 22:431,2-DichloroetheneND5.01003/26/2014 22:431,2-DichloroetheneND5.01003/26/2014 22:431,2-DichloropropaneND5.01003/26/2014 22:431,3-DichloropropaneND5.01003/26/2014 22:432,2-DichloropropaneND5.01003/26/2014 22:432,2-DichloropropaneND5.01003/26/2014 22:432,2-DichloropropaneND5.01003/26/2014 22:43	1,2-Dibromo-3-chloropropane	ND		2.0 10		03/26/2014 22:43
1,2-DichlorobenzeneND5.01003/26/2014 22:431,3-DichlorobenzeneND5.01003/26/2014 22:431,4-DichlorobenzeneND5.01003/26/2014 22:43DichlorodifluoromethaneND5.01003/26/2014 22:431,1-DichloroethaneND5.01003/26/2014 22:431,2-DichloroethaneND5.01003/26/2014 22:431,2-DichloroethaneND5.01003/26/2014 22:431,2-Dichloroethane1,2-DCA)ND5.01003/26/2014 22:431,1-Dichloroethene2405.01003/26/2014 22:43cis-1,2-DichloroetheneND5.01003/26/2014 22:431,2-DichloroetheneND5.01003/26/2014 22:431,2-DichloroetheneND5.01003/26/2014 22:431,2-DichloroetheneND5.01003/26/2014 22:431,2-DichloroetheneND5.01003/26/2014 22:431,2-DichloroetheneND5.01003/26/2014 22:431,2-DichloropropaneND5.01003/26/2014 22:432,2-DichloropropaneND5.01003/26/2014 22:432,2-DichloropropaneND5.01003/26/2014 22:432,2-DichloropropaneND5.01003/26/2014 22:43	1,2-Dibromoethane (EDB)	ND		5.0 10		03/26/2014 22:43
1,3-DichlorobenzeneND5.01003/26/2014 22:431,4-DichlorobenzeneND5.01003/26/2014 22:43DichlorodifluoromethaneND5.01003/26/2014 22:431,1-DichloroethaneND5.01003/26/2014 22:431,2-Dichloroethane (1,2-DCA)ND5.01003/26/2014 22:431,1-Dichloroethene2405.01003/26/2014 22:431,1-DichloroetheneND5.01003/26/2014 22:431,2-DichloroetheneND5.01003/26/2014 22:43trans-1,2-DichloroetheneND5.01003/26/2014 22:431,2-DichloropropaneND5.01003/26/2014 22:431,2-DichloropropaneND5.01003/26/2014 22:432,2-DichloropropaneND5.01003/26/2014 22:432,2-DichloropropaneND5.01003/26/2014 22:432,2-DichloropropaneND5.01003/26/2014 22:43	Dibromomethane	ND		5.0 10		03/26/2014 22:43
1,4-DichlorobenzeneND5.01003/26/2014 22:43DichlorodifluoromethaneND5.01003/26/2014 22:431,1-DichloroethaneND5.01003/26/2014 22:431,2-Dichloroethane (1,2-DCA)ND5.01003/26/2014 22:431,1-Dichloroethene2405.01003/26/2014 22:43cis-1,2-DichloroetheneND5.01003/26/2014 22:43trans-1,2-DichloroetheneND5.01003/26/2014 22:431,2-DichloroetheneND5.01003/26/2014 22:431,2-DichloroetheneND5.01003/26/2014 22:431,2-DichloroetheneND5.01003/26/2014 22:431,2-DichloropropaneND5.01003/26/2014 22:432,2-DichloropropaneND5.01003/26/2014 22:432,2-DichloropropaneND5.01003/26/2014 22:432,2-DichloropropaneND5.01003/26/2014 22:43	1,2-Dichlorobenzene	ND		5.0 10		03/26/2014 22:43
DichlorodifluoromethaneND5.01003/26/2014 22:431,1-DichloroethaneND5.01003/26/2014 22:431,2-Dichloroethane (1,2-DCA)ND5.01003/26/2014 22:431,1-Dichloroethene2405.01003/26/2014 22:43cis-1,2-DichloroetheneND5.01003/26/2014 22:43trans-1,2-DichloroetheneND5.01003/26/2014 22:431,2-DichloroetheneND5.01003/26/2014 22:431,2-DichloropropaneND5.01003/26/2014 22:432,2-DichloropropaneND5.01003/26/2014 22:432,2-DichloropropaneND5.01003/26/2014 22:432,2-DichloropropaneND5.01003/26/2014 22:43	1,3-Dichlorobenzene	ND		5.0 10		03/26/2014 22:43
1,1-DichloroethaneND5.01003/26/2014 22:431,2-Dichloroethane (1,2-DCA)ND5.01003/26/2014 22:431,1-Dichloroethene2405.01003/26/2014 22:43cis-1,2-DichloroetheneND5.01003/26/2014 22:43trans-1,2-DichloroetheneND5.01003/26/2014 22:431,2-DichloroetheneND5.01003/26/2014 22:431,2-DichloropropaneND5.01003/26/2014 22:431,3-DichloropropaneND5.01003/26/2014 22:432,2-DichloropropaneND5.01003/26/2014 22:43	1,4-Dichlorobenzene	ND		5.0 10		03/26/2014 22:43
1,2-Dichloroethane (1,2-DCA)ND5.01003/26/2014 22:431,1-Dichloroethene2405.01003/26/2014 22:43cis-1,2-DichloroetheneND5.01003/26/2014 22:43trans-1,2-DichloroetheneND5.01003/26/2014 22:431,2-DichloroptopaneND5.01003/26/2014 22:431,3-DichloropropaneND5.01003/26/2014 22:432,2-DichloropropaneND5.01003/26/2014 22:43	Dichlorodifluoromethane	ND		5.0 10		03/26/2014 22:43
1,1-Dichloroethene2405.01003/26/2014 22:43cis-1,2-DichloroetheneND5.01003/26/2014 22:43trans-1,2-DichloroetheneND5.01003/26/2014 22:431,2-DichloropropaneND5.01003/26/2014 22:431,3-DichloropropaneND5.01003/26/2014 22:432,2-DichloropropaneND5.01003/26/2014 22:43	1,1-Dichloroethane	ND		5.0 10		03/26/2014 22:43
cis-1,2-DichloroetheneND5.01003/26/2014 22:43trans-1,2-DichloroetheneND5.01003/26/2014 22:431,2-DichloropropaneND5.01003/26/2014 22:431,3-DichloropropaneND5.01003/26/2014 22:432,2-DichloropropaneND5.01003/26/2014 22:432,2-DichloropropaneND5.01003/26/2014 22:43	1,2-Dichloroethane (1,2-DCA)	ND		5.0 10		03/26/2014 22:43
trans-1,2-DichloroetheneND5.01003/26/2014 22:431,2-DichloropropaneND5.01003/26/2014 22:431,3-DichloropropaneND5.01003/26/2014 22:432,2-DichloropropaneND5.01003/26/2014 22:43	1,1-Dichloroethene	240		5.0 10		03/26/2014 22:43
1,2-DichloropropaneND5.01003/26/2014 22:431,3-DichloropropaneND5.01003/26/2014 22:432,2-DichloropropaneND5.01003/26/2014 22:43	cis-1,2-Dichloroethene	ND		5.0 10		03/26/2014 22:43
1,3-Dichloropropane         ND         5.0         10         03/26/2014 22:43           2,2-Dichloropropane         ND         5.0         10         03/26/2014 22:43	trans-1,2-Dichloroethene	ND		5.0 10		03/26/2014 22:43
2,2-Dichloropropane         ND         5.0         10         03/26/2014 22:43	1,2-Dichloropropane	ND		5.0 10		03/26/2014 22:43
	1,3-Dichloropropane	ND		5.0 10		03/26/2014 22:43
1,1-Dichloropropene         ND         5.0         10         03/26/2014 22:43	2,2-Dichloropropane	ND		5.0 10		03/26/2014 22:43
	1,1-Dichloropropene	ND		5.0 10		03/26/2014 22:43

(Cont.)





Client:	All West Environmental, Inc	WorkOrder:	1403700
Project:	#14011.28; Hollis-Emeryville	<b>Extraction Method</b>	SW5030B
Date Received:	3/20/14 20:00	Analytical Method:	SW8260B
Date Prepared:	3/26/14-3/27/14	Unit:	µg/L

Client ID	Lab ID	Matrix/ExtType	Date Colle	cted Instrument	Batch ID
AMW-3	1403700-003A	Water	03/19/2014 0	9:40 GC18	88674
Analytes	<u>Result</u>		<u>RL  </u>	<u>DF</u>	Date Analyzed
cis-1,3-Dichloropropene	ND		5.0	10	03/26/2014 22:43
trans-1,3-Dichloropropene	ND		5.0	10	03/26/2014 22:43
Diisopropyl ether (DIPE)	ND		5.0	10	03/26/2014 22:43
Ethylbenzene	9.3		5.0	10	03/26/2014 22:43
Ethyl tert-butyl ether (ETBE)	ND		5.0	10	03/26/2014 22:43
Freon 113	ND		5.0	10	03/26/2014 22:43
Hexachlorobutadiene	ND		5.0	10	03/26/2014 22:43
Hexachloroethane	ND		5.0	10	03/26/2014 22:43
2-Hexanone	ND		5.0	10	03/26/2014 22:43
Isopropylbenzene	ND		5.0	10	03/26/2014 22:43
4-Isopropyl toluene	ND		5.0	10	03/26/2014 22:43
Methyl-t-butyl ether (MTBE)	ND		5.0	10	03/26/2014 22:43
Methylene chloride	ND		5.0	10	03/26/2014 22:43
4-Methyl-2-pentanone (MIBK)	ND		5.0	10	03/26/2014 22:43
Naphthalene	9.0		5.0	10	03/26/2014 22:43
n-Propyl benzene	ND		5.0	10	03/26/2014 22:43
Styrene	ND		5.0	10	03/26/2014 22:43
1,1,1,2-Tetrachloroethane	ND		5.0	10	03/26/2014 22:43
1,1,2,2-Tetrachloroethane	ND		5.0	10	03/26/2014 22:43
Tetrachloroethene	ND		5.0	10	03/26/2014 22:43
Toluene	ND		5.0	10	03/26/2014 22:43
1,2,3-Trichlorobenzene	ND		5.0	10	03/26/2014 22:43
1,2,4-Trichlorobenzene	ND		5.0	10	03/26/2014 22:43
1,1,1-Trichloroethane	ND		5.0	10	03/26/2014 22:43
1,1,2-Trichloroethane	ND		5.0	10	03/26/2014 22:43
Trichloroethene	19		5.0	10	03/26/2014 22:43
Trichlorofluoromethane	ND		5.0	10	03/26/2014 22:43
1,2,3-Trichloropropane	ND		5.0	10	03/26/2014 22:43
1,2,4-Trimethylbenzene	ND		5.0	10	03/26/2014 22:43
1,3,5-Trimethylbenzene	ND		5.0	10	03/26/2014 22:43
Vinyl Chloride	ND		5.0	10	03/26/2014 22:43
Xylenes, Total	ND		5.0	10	03/26/2014 22:43
Surrogates	<u>REC (%)</u>		<u>Limits</u>		
Dibromofluoromethane	99		70-130		03/26/2014 22:43
Toluene-d8	95		70-130		03/26/2014 22:43
4-BFB	88		70-130		03/26/2014 22:43





Client:	All West Environmental, Inc	WorkOrder:	1403700
Project:	#14011.28; Hollis-Emeryville	<b>Extraction Method</b>	SW5030B
Date Received:	3/20/14 20:00	Analytical Method:	SW8260B
Date Prepared:	3/26/14-3/27/14	Unit:	µg/L

Client ID	Lab ID	Matrix/ExtType	Date Coll	ected	Instrument	Batch ID
MW-3	1403700-004A	Water	03/19/2014	14:32	GC28	88571
Analytes	<u>Result</u>		<u>RL</u>	DF		Date Analyzed
Acetone	ND		2500	250		03/27/2014 03:15
tert-Amyl methyl ether (TAME)	ND		120	250		03/27/2014 03:15
Benzene	5500		120	250		03/27/2014 03:15
Bromobenzene	ND		120	250		03/27/2014 03:15
Bromochloromethane	ND		120	250		03/27/2014 03:15
Bromodichloromethane	ND		120	250		03/27/2014 03:15
Bromoform	ND		120	250		03/27/2014 03:15
Bromomethane	ND		120	250		03/27/2014 03:15
2-Butanone (MEK)	ND		500	250		03/27/2014 03:15
t-Butyl alcohol (TBA)	1500		500	250		03/27/2014 03:15
n-Butyl benzene	ND		120	250		03/27/2014 03:15
sec-Butyl benzene	ND		120	250		03/27/2014 03:15
tert-Butyl benzene	ND		120	250		03/27/2014 03:15
Carbon Disulfide	ND		120	250		03/27/2014 03:15
Carbon Tetrachloride	ND		120	250		03/27/2014 03:15
Chlorobenzene	ND		120	250		03/27/2014 03:15
Chloroethane	ND		120	250		03/27/2014 03:15
Chloroform	ND		120	250		03/27/2014 03:15
Chloromethane	ND		120	250		03/27/2014 03:15
2-Chlorotoluene	ND		120	250		03/27/2014 03:15
4-Chlorotoluene	ND		120	250		03/27/2014 03:15
Dibromochloromethane	ND		120	250		03/27/2014 03:15
1,2-Dibromo-3-chloropropane	ND		50	250		03/27/2014 03:15
1,2-Dibromoethane (EDB)	ND		120	250		03/27/2014 03:15
Dibromomethane	ND		120	250		03/27/2014 03:15
1,2-Dichlorobenzene	ND		120	250		03/27/2014 03:15
1,3-Dichlorobenzene	ND		120	250		03/27/2014 03:15
1,4-Dichlorobenzene	ND		120	250		03/27/2014 03:15
Dichlorodifluoromethane	ND		120	250		03/27/2014 03:15
1,1-Dichloroethane	ND		120	250		03/27/2014 03:15
1,2-Dichloroethane (1,2-DCA)	ND		120	250		03/27/2014 03:15
1,1-Dichloroethene	ND		120	250		03/27/2014 03:15
cis-1,2-Dichloroethene	ND		120	250		03/27/2014 03:15
trans-1,2-Dichloroethene	ND		120	250		03/27/2014 03:15
1,2-Dichloropropane	ND		120	250		03/27/2014 03:15
1,3-Dichloropropane	ND		120	250		03/27/2014 03:15
2,2-Dichloropropane	ND		120	250		03/27/2014 03:15
1,1-Dichloropropene	ND		120	250		03/27/2014 03:15

(Cont.)





Client:	All West Environmental, Inc	WorkOrder:	1403700
Project:	#14011.28; Hollis-Emeryville	<b>Extraction Method</b>	SW5030B
Date Received:	3/20/14 20:00	Analytical Method:	SW8260B
Date Prepared:	3/26/14-3/27/14	Unit:	µg/L

Client ID	Lab ID	Matrix/ExtType	Date Collect	ted Instrument	Batch ID
MW-3	1403700-004A	Water	03/19/2014 14	:32 GC28	88571
Analytes	<u>Result</u>		<u>RL</u> D	E	Date Analyzed
cis-1,3-Dichloropropene	ND		120 2	50	03/27/2014 03:15
trans-1,3-Dichloropropene	ND		120 2	50	03/27/2014 03:15
Diisopropyl ether (DIPE)	ND		120 2	50	03/27/2014 03:15
Ethylbenzene	2000		120 2	50	03/27/2014 03:15
Ethyl tert-butyl ether (ETBE)	ND		120 2	50	03/27/2014 03:15
Freon 113	ND		120 2	50	03/27/2014 03:15
Hexachlorobutadiene	ND		120 2	50	03/27/2014 03:15
Hexachloroethane	ND		120 2	50	03/27/2014 03:15
2-Hexanone	ND		120 2	50	03/27/2014 03:15
Isopropylbenzene	ND		120 2	50	03/27/2014 03:15
4-Isopropyl toluene	ND		120 2	50	03/27/2014 03:15
Methyl-t-butyl ether (MTBE)	4400		120 2	50	03/27/2014 03:15
Methylene chloride	ND		120 2	50	03/27/2014 03:15
4-Methyl-2-pentanone (MIBK)	ND		120 2	50	03/27/2014 03:15
Naphthalene	480		120 2	50	03/27/2014 03:15
n-Propyl benzene	340		120 2	50	03/27/2014 03:15
Styrene	ND		120 2	50	03/27/2014 03:15
1,1,1,2-Tetrachloroethane	ND		120 2	50	03/27/2014 03:15
1,1,2,2-Tetrachloroethane	ND		120 2	50	03/27/2014 03:15
Tetrachloroethene	ND		120 2	50	03/27/2014 03:15
Toluene	7200		120 2	50	03/27/2014 03:15
1,2,3-Trichlorobenzene	ND		120 2	50	03/27/2014 03:15
1,2,4-Trichlorobenzene	ND		120 2	50	03/27/2014 03:15
1,1,1-Trichloroethane	ND		120 2	50	03/27/2014 03:15
1,1,2-Trichloroethane	ND		120 2	50	03/27/2014 03:15
Trichloroethene	ND		120 2	50	03/27/2014 03:15
Trichlorofluoromethane	ND		120 2	50	03/27/2014 03:15
1,2,3-Trichloropropane	ND		120 2	50	03/27/2014 03:15
1,2,4-Trimethylbenzene	2600		120 2	50	03/27/2014 03:15
1,3,5-Trimethylbenzene	780		120 2	50	03/27/2014 03:15
Vinyl Chloride	ND		120 2	50	03/27/2014 03:15
Xylenes, Total	11,000		120 2	50	03/27/2014 03:15
Surrogates	<u>REC (%)</u>		<u>Limits</u>		
Dibromofluoromethane	88		70-130		03/27/2014 03:15
Toluene-d8	90		70-130		03/27/2014 03:15
4-BFB	95		70-130		03/27/2014 03:15





Client:	All West Environmental, Inc	WorkOrder:	1403700
Project:	#14011.28; Hollis-Emeryville	Extraction Method	SW3510C
Date Received:	3/20/14 20:00	Analytical Method:	SW8270C-SIM
Date Prepared:	3/24/14	Unit:	µg/L

Client ID	Lab ID	Matrix/ExtType	Date Colle	cted Instrument	Batch ID
AMW-1	1403700-001C	Water	03/19/2014 1	1:24 GC35	88526
Analytes	<u>Result</u>		<u>RL</u>	<u>DF</u>	Date Analyzed
Acenaphthene	ND		0.50	1	03/24/2014 17:29
Acenaphthylene	ND		0.50	1	03/24/2014 17:29
Anthracene	ND		0.50	1	03/24/2014 17:29
Benzo (a) anthracene	ND		0.50	1	03/24/2014 17:29
Benzo (b) fluoranthene	ND		0.50	1	03/24/2014 17:29
Benzo (k) fluoranthene	ND		0.50	1	03/24/2014 17:29
Benzo (g,h,i) perylene	ND		0.50	1	03/24/2014 17:29
Benzo (a) pyrene	ND		0.50	1	03/24/2014 17:29
Chrysene	ND		0.50	1	03/24/2014 17:29
Dibenzo (a,h) anthracene	ND		0.50	1	03/24/2014 17:29
Fluoranthene	ND		0.50	1	03/24/2014 17:29
Fluorene	ND		0.50	1	03/24/2014 17:29
Indeno (1,2,3-cd) pyrene	ND		0.50	1	03/24/2014 17:29
1-Methylnaphthalene	ND		0.50	1	03/24/2014 17:29
2-Methylnaphthalene	ND		0.50	1	03/24/2014 17:29
Naphthalene	ND		0.50	1	03/24/2014 17:29
Phenanthrene	ND		0.50	1	03/24/2014 17:29
Pyrene	ND		0.50	1	03/24/2014 17:29
Surrogates	<u>REC (%)</u>		<u>Limits</u>	Analytical Comments: b1	
1-Fluoronapthalene	105		30-130		03/24/2014 17:29
2-fluorobiphenyl	101		30-130		03/24/2014 17:29





Client:	All West Environmental, Inc	WorkOrder:	1403700
Project:	#14011.28; Hollis-Emeryville	<b>Extraction Method</b>	SW3510C
Date Received:	3/20/14 20:00	Analytical Method:	SW8270C-SIM
Date Prepared:	3/24/14	Unit:	μg/L

Client ID	Lab ID	Matrix/ExtType	Date Coll	ected	Instrument	Batch ID
AMW-2	1403700-002C	Water	03/19/2014	16:32	GC35	88526
Analytes	Result		<u>RL</u>	DF		Date Analyzed
Acenaphthene	ND		0.50	1		03/24/2014 17:55
Acenaphthylene	ND		0.50	1		03/24/2014 17:55
Anthracene	ND		0.50	1		03/24/2014 17:55
Benzo (a) anthracene	ND		0.50	1		03/24/2014 17:55
Benzo (b) fluoranthene	ND		0.50	1		03/24/2014 17:55
Benzo (k) fluoranthene	ND		0.50	1		03/24/2014 17:55
Benzo (g,h,i) perylene	ND		0.50	1		03/24/2014 17:55
Benzo (a) pyrene	ND		0.50	1		03/24/2014 17:55
Chrysene	ND		0.50	1		03/24/2014 17:55
Dibenzo (a,h) anthracene	ND		0.50	1		03/24/2014 17:55
Fluoranthene	ND		0.50	1		03/24/2014 17:55
Fluorene	ND		0.50	1		03/24/2014 17:55
Indeno (1,2,3-cd) pyrene	ND		0.50	1		03/24/2014 17:55
1-Methylnaphthalene	2.3		0.50	1		03/24/2014 17:55
2-Methylnaphthalene	2.6		0.50	1		03/24/2014 17:55
Naphthalene	13		0.50	1		03/24/2014 17:55
Phenanthrene	ND		0.50	1		03/24/2014 17:55
Pyrene	ND		0.50	1		03/24/2014 17:55
Surrogates	<u>REC (%)</u>		<u>Limits</u>			
1-Fluoronapthalene	89		30-130			03/24/2014 17:55
2-fluorobiphenyl	82		30-130			03/24/2014 17:55





Client:	All West Environmental, Inc	WorkOrder:	1403700
Project:	#14011.28; Hollis-Emeryville	<b>Extraction Method</b>	SW3510C
Date Received:	3/20/14 20:00	Analytical Method:	SW8270C-SIM
Date Prepared:	3/24/14	Unit:	μg/L

Client ID	Lab ID	Matrix/ExtType	Date Co	llected	Instrument	Batch ID
AMW-3	1403700-003C	Water	03/19/201	4 09:40	GC35	88526
<u>Analytes</u>	Result		<u>RL</u>	<u>DF</u>		Date Analyzed
Acenaphthene	ND		0.50	1		03/24/2014 18:20
Acenaphthylene	ND		0.50	1		03/24/2014 18:20
Anthracene	ND		0.50	1		03/24/2014 18:20
Benzo (a) anthracene	ND		0.50	1		03/24/2014 18:20
Benzo (b) fluoranthene	ND		0.50	1		03/24/2014 18:20
Benzo (k) fluoranthene	ND		0.50	1		03/24/2014 18:20
Benzo (g,h,i) perylene	ND		0.50	1		03/24/2014 18:20
Benzo (a) pyrene	ND		0.50	1		03/24/2014 18:20
Chrysene	ND		0.50	1		03/24/2014 18:20
Dibenzo (a,h) anthracene	ND		0.50	1		03/24/2014 18:20
Fluoranthene	ND		0.50	1		03/24/2014 18:20
Fluorene	ND		0.50	1		03/24/2014 18:20
Indeno (1,2,3-cd) pyrene	ND		0.50	1		03/24/2014 18:20
1-Methylnaphthalene	2.7		0.50	1		03/24/2014 18:20
2-Methylnaphthalene	2.8		0.50	1		03/24/2014 18:20
Naphthalene	6.3		0.50	1		03/24/2014 18:20
Phenanthrene	ND		0.50	1		03/24/2014 18:20
Pyrene	ND		0.50	1		03/24/2014 18:20
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>			
1-Fluoronapthalene	116		30-130			03/24/2014 18:20
2-fluorobiphenyl	105		30-130			03/24/2014 18:20



Client:	All West Environmental, Inc	WorkOrder:	1403700
Project:	#14011.28; Hollis-Emeryville	Extraction Method	SW3510C
Date Received:	3/20/14 20:00	Analytical Method:	SW8270C-SIM
Date Prepared:	3/24/14	Unit:	μg/L

Client ID	Lab ID	Matrix/ExtType	Date Coll	lected	Instrument	Batch ID
MW-3	1403700-004C	Water	03/19/2014	4 14:32	GC35	88526
Analytes	<u>Result</u>		<u>RL</u>	DF		Date Analyzed
Acenaphthene	ND		10	20		03/25/2014 15:23
Acenaphthylene	ND		10	20		03/25/2014 15:23
Anthracene	ND		10	20		03/25/2014 15:23
Benzo (a) anthracene	ND		10	20		03/25/2014 15:23
Benzo (b) fluoranthene	ND		10	20		03/25/2014 15:23
Benzo (k) fluoranthene	ND		10	20		03/25/2014 15:23
Benzo (g,h,i) perylene	ND		10	20		03/25/2014 15:23
Benzo (a) pyrene	ND		10	20		03/25/2014 15:23
Chrysene	ND		10	20		03/25/2014 15:23
Dibenzo (a,h) anthracene	ND		10	20		03/25/2014 15:23
Fluoranthene	ND		10	20		03/25/2014 15:23
Fluorene	ND		10	20		03/25/2014 15:23
Indeno (1,2,3-cd) pyrene	ND		10	20		03/25/2014 15:23
1-Methylnaphthalene	80		10	20		03/25/2014 15:23
2-Methylnaphthalene	150		10	20		03/25/2014 15:23
Naphthalene	360		10	20		03/25/2014 15:23
Phenanthrene	ND		10	20		03/25/2014 15:23
Pyrene	ND		10	20		03/25/2014 15:23
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>			
1-Fluoronapthalene	113		30-130			03/25/2014 15:23
2-fluorobiphenyl	94		30-130			03/25/2014 15:23



Client:	All West Environmental, Inc	WorkOrder:	1403700
Project:	#14011.28; Hollis-Emeryville	<b>Extraction Method:</b>	SW5030B
Date Received:	3/20/14 20:00	Analytical Method:	SW8021B/8015Bm
Date Prepared:	3/22/14-3/26/14	Unit:	µg/L

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

Client ID	Lab ID	Matrix/ExtType	Date Co	llected Instrument	Batch ID
AMW-1	1403700-001B	Water	03/19/201	4 11:24 GC3	88488
Analytes	Result		<u>RL</u>	DF	Date Analyzed
TPH(g)	ND		50	1	03/23/2014 00:02
TPH(mineral spirits)	ND		50	1	03/23/2014 00:02
МТВЕ			5.0	1	03/23/2014 00:02
Benzene			0.50	1	03/23/2014 00:02
Toluene			0.50	1	03/23/2014 00:02
Ethylbenzene			0.50	1	03/23/2014 00:02
Xylenes			0.50	1	03/23/2014 00:02
Surrogates	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>	Analytical Comments: c2,b1	
aaa-TFT	152	S	70-130		03/23/2014 00:02

AMW-2	1403700-002B Water	03/19/2014 16:32 GC3	88552
Analytes	Result	<u>RL</u> <u>DF</u>	Date Analyzed
TPH(g)	550	50 1	03/24/2014 15:12
TPH(mineral spirits)	430	50 1	03/24/2014 15:12
MTBE		50 10	03/25/2014 22:05
Benzene		0.50 1	03/24/2014 15:12
Toluene		0.50 1	03/24/2014 15:12
Ethylbenzene		0.50 1	03/24/2014 15:12
Xylenes		0.50 1	03/24/2014 15:12
Surrogates	<u>REC (%)</u>	Limits Analytical Comments:	d1
aaa-TFT	107	70-130	03/24/2014 15:12

AMW-3	1403700-003B	Water	03/19/201	4 09:40 GC3	88488
Analytes	<u>Result</u>		<u>RL</u>	DF	Date Analyzed
TPH(g)	140		50	1	03/22/2014 11:24
TPH(mineral spirits)	110		50	1	03/22/2014 11:24
MTBE			5.0	1	03/22/2014 11:24
Benzene			0.50	1	03/22/2014 11:24
Toluene			0.50	1	03/22/2014 11:24
Ethylbenzene			0.50	1	03/22/2014 11:24
Xylenes			0.50	1	03/22/2014 11:24
Surrogates	<u>REC (%)</u>	Qualifiers	<u>Limits</u>	Analytical Comments: d1,c4	
aaa-TFT	242	S	70-130		03/22/2014 11:24

(Cont.)

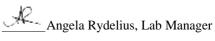




Client:	All West Environmental, Inc	WorkOrder:	1403700
Project:	#14011.28; Hollis-Emeryville	<b>Extraction Method:</b>	SW5030B
Date Received:	3/20/14 20:00	Analytical Method:	SW8021B/8015Bm
Date Prepared:	3/22/14-3/26/14	Unit:	µg/L

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

Client ID	Lab ID	Matrix/ExtType	Date Co	ollected Instrument	Batch ID
MW-3	1403700-004B	Water	03/19/201	14 14:32 GC7	88594
Analytes	<u>Result</u>		<u>RL</u>	DF	Date Analyzed
TPH(g)	87,000		5000	100	03/26/2014 20:14
TPH(mineral spirits)	40,000		5000	100	03/26/2014 20:14
MTBE			500	100	03/26/2014 20:14
Benzene			50	100	03/26/2014 20:14
Toluene			50	100	03/26/2014 20:14
Ethylbenzene			50	100	03/26/2014 20:14
Xylenes			50	100	03/26/2014 20:14
Surrogates	<u>REC (%)</u>		<u>Limits</u>	Analytical Comments: d1	
aaa-TFT	98		70-130		03/26/2014 20:14





Client:	All West Environmental, Inc	WorkOrder:	1403700
Project:	#14011.28; Hollis-Emeryville	<b>Extraction Method:</b>	SW3510C/3630C
Date Received:	3/20/14 20:00	Analytical Method:	SW8015B
Date Prepared:	3/20/14	Unit:	μg/L

### Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up

Client ID	Lab ID	Matrix/ExtType	Date Co	llected Instrument	Batch ID
AMW-1	1403700-001B	Water	03/19/201	4 11:24 GC6B	88412
<u>Analytes</u>	Result		<u>RL</u>	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND		50	1	03/21/2014 19:21
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>	Analytical Comments: b1	
C9	109		70-130		03/21/2014 19:21
AMW-2	1403700-002B	Water	03/19/201	4 16:32 GC6B	88412
Analytes	Result		<u>RL</u>	DF	Date Analyzed
TPH-Diesel (C10-C23)	190		50	1	03/22/2014 06:07
Surrogates	<u>REC (%)</u>		<u>Limits</u>	Analytical Comments: e4	
C9	110		70-130		03/22/2014 06:07
AMW-3	1403700-003B	Water	03/19/201	4 09:40 GC6B	88412
Analytes	<u>Result</u>		<u>RL</u>	DF	Date Analyzed
TPH-Diesel (C10-C23)	130		50	1	03/22/2014 07:18
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>	Analytical Comments: e4	
C9	110		70-130		03/22/2014 07:18
MW-3	1403700-004B	Water	03/19/201	4 14:32 GC6B	88412
Analytes	Result		<u>RL</u>	DF	Date Analyzed
TPH-Diesel (C10-C23)	11,000		50	1	03/22/2014 00:11
Surrogates	<u>REC (%)</u>		<u>Limits</u>	Analytical Comments: e4	
C9	114		70-130		03/22/2014 00:11





### **Quality Control Report**

Client:	All West Environmental, Inc	WorkOrder:	1403700
Date Prepared:	3/25/14	BatchID:	88571
Date Analyzed:	3/25/14	<b>Extraction Method:</b>	SW5030B
Instrument:	GC18	Analytical Method:	SW8260B
Matrix:	Water	Unit:	μg/L
Project:	#14011.28; Hollis-Emeryville	Sample ID:	MB/LCS-88571 1403665-015AMS/MSD

QC Summary Report for SW8260B							
Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	-	10	-	-	-	-
tert-Amyl methyl ether (TAME)	ND	16.99	0.50	20	-	85	70-130
Benzene	ND	16.44	0.50	20	-	82.2	70-130
Bromobenzene	ND	-	0.50	-	-	-	-
Bromochloromethane	ND	-	0.50	-	-	-	-
Bromodichloromethane	ND	-	0.50	-	-	-	-
Bromoform	ND	-	0.50	-	-	-	-
Bromomethane	ND	-	0.50	-	-	-	-
2-Butanone (MEK)	ND	-	2.0	-	-	-	-
t-Butyl alcohol (TBA)	ND	69.69	2.0	80	-	87.1	70-130
n-Butyl benzene	ND	-	0.50	-	-	-	-
sec-Butyl benzene	ND	-	0.50	-	-	-	-
tert-Butyl benzene	ND	-	0.50	-	-	-	-
Carbon Disulfide	ND	-	0.50	-	-	-	-
Carbon Tetrachloride	ND	-	0.50	-	-	-	-
Chlorobenzene	ND	18.22	0.50	20	_	91.1	70-130
Chloroethane	ND	-	0.50	-	_	-	-
Chloroform	ND	-	0.50	-	-	-	-
Chloromethane	ND	-	0.50	-	-	-	-
2-Chlorotoluene	ND	-	0.50	-	-	-	-
4-Chlorotoluene	ND	-	0.50	-	-	-	-
Dibromochloromethane	ND	-	0.50	-	_	-	-
1,2-Dibromo-3-chloropropane	ND	-	0.20	-	_	-	-
1,2-Dibromoethane (EDB)	ND	20.37	0.50	20	-	102	70-130
Dibromomethane	ND	-	0.50	-	-	-	-
1.2-Dichlorobenzene	ND	-	0.50		-	-	-
1,3-Dichlorobenzene	ND	-	0.50		-	-	-
1,4-Dichlorobenzene	ND	-	0.50		-	-	-
Dichlorodifluoromethane	ND	-	0.50		-	-	-
1,1-Dichloroethane	ND	-	0.50	-	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	16.99	0.50	20	-	85	70-130
1,1-Dichloroethene	ND	17.21	0.50	20	-	86.1	70-130
cis-1,2-Dichloroethene	ND	-	0.50		-	-	-
trans-1,2-Dichloroethene	ND	-	0.50	-	-	-	-
1,2-Dichloropropane	ND	-	0.50	-	_	-	-
1,3-Dichloropropane	ND	-	0.50	-	-	-	-
2,2-Dichloropropane	ND	-	0.50	-	_	-	-
1,1-Dichloropropene	ND	-	0.50	-	-	-	-
cis-1,3-Dichloropropene	ND	-	0.50	-	_	-	-
trans-1,3-Dichloropropene	ND	-	0.50	_	-	-	-

(Cont.)





Client:	All West Environmental, Inc	WorkOrder:	1403700
Date Prepared:	3/25/14	BatchID:	88571
Date Analyzed:	3/25/14	<b>Extraction Method:</b>	SW5030B
Instrument:	GC18	Analytical Method:	SW8260B
Matrix:	Water	Unit:	μg/L
Project:	#14011.28; Hollis-Emeryville	Sample ID:	MB/LCS-88571 1403665-015AMS/MSD

	QC Sum	mary Report	for SW8260	В			
Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Diisopropyl ether (DIPE)	ND	16.13	0.50	20	-	80.6	70-130
Ethylbenzene	ND	-	0.50	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	16.78	0.50	20	-	83.9	70-130
Freon 113	ND	-	0.50	-	-	-	-
Hexachlorobutadiene	ND	-	0.50	-	-	-	-
Hexachloroethane	ND	-	0.50	-	-	-	-
2-Hexanone	ND	-	0.50	-	-	-	-
Isopropylbenzene	ND	-	0.50	-	-	-	-
4-Isopropyl toluene	ND	-	0.50	-	-	-	-
Methyl-t-butyl ether (MTBE)	ND	17.23	0.50	20	-	86.1	70-130
Methylene chloride	ND	-	0.50	-	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	-	0.50	-	-	-	-
Naphthalene	ND	-	0.50	-	-	-	-
n-Propyl benzene	ND	-	0.50	-	-	-	-
Styrene	ND	-	0.50	-	-	-	-
1,1,1,2-Tetrachloroethane	ND	-	0.50	-	-	-	-
1,1,2,2-Tetrachloroethane	ND	-	0.50	-	-	-	-
Tetrachloroethene	ND	-	0.50	-	-	-	-
Toluene	ND	16.06	0.50	20	-	80.3	70-130
1,2,3-Trichlorobenzene	ND	-	0.50	-	-	-	-
1,2,4-Trichlorobenzene	ND	-	0.50	-	-	-	-
1,1,1-Trichloroethane	ND	-	0.50	-	-	-	-
1,1,2-Trichloroethane	ND	-	0.50	-	-	-	-
Trichloroethene	ND	17.22	0.50	20	-	86.1	70-130
Trichlorofluoromethane	ND	-	0.50	-	-	-	-
1,2,3-Trichloropropane	ND	-	0.50	-	-	-	-
1,2,4-Trimethylbenzene	ND	-	0.50	-	-	-	-
1,3,5-Trimethylbenzene	ND	-	0.50	-	-	-	-
Vinyl Chloride	ND	-	0.50	-	-	-	-
Xylenes, Total	ND	-	0.50	-	-	-	-
Surrogate Recovery							
Dibromofluoromethane	24.56	42.39		45	98	94	70-130
Toluene-d8	23.72	42.97		45	95	95	70-130
4-BFB	2.324	4.146		4.5	93	92	70-130



Client:	All West Environmental, Inc	WorkOrder:	1403700
Date Prepared:	3/25/14	BatchID:	88571
Date Analyzed:	3/25/14	<b>Extraction Method:</b>	SW5030B
Instrument:	GC18	Analytical Method:	SW8260B
Matrix:	Water	Unit:	μg/L
Project:	#14011.28; Hollis-Emeryville	Sample ID:	MB/LCS-88571 1403665-015AMS/MSD

QC Summary Report for SW8260B									
Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
tert-Amyl methyl ether (TAME)	15.61	17.01	20	ND	78.1	85.1	70-130	8.60	20
Benzene	17.81	17.76	20	ND	89.1	88.8	70-130	0.314	20
t-Butyl alcohol (TBA)	33.25	37.98	80	ND	41.6,F1	47.5,F1	70-130	13.3	20
Chlorobenzene	18.66	18.47	20	ND	93.3	92.4	70-130	1.03	20
1,2-Dibromoethane (EDB)	18.53	19.25	20	ND	92.6	96.3	70-130	3.84	20
1,2-Dichloroethane (1,2-DCA)	16.65	18.15	20	ND	83.2	90.8	70-130	8.67	20
1,1-Dichloroethene	18.54	19.3	20	ND	92.7	96.5	70-130	3.97	20
Diisopropyl ether (DIPE)	15.45	16.31	20	ND	77.2	81.5	70-130	5.41	20
Ethyl tert-butyl ether (ETBE)	15.45	16.73	20	ND	77.3	83.6	70-130	7.92	20
Methyl-t-butyl ether (MTBE)	15.58	16.72	20	ND	77.9	83.6	70-130	7.10	20
Toluene	16.81	16.4	20	ND	84.1	82	70-130	2.49	20
Trichloroethene	20.03	20.14	20	1.226	94	94.6	70-130	0.555	20
Surrogate Recovery									
Dibromofluoromethane	42.7	45.34	45		95	101	70-130	6.00	20
Toluene-d8	43.49	42.42	45		97	94	70-130	2.51	20
4-BFB	4.139	4.058	4.5		92	90	70-130	1.98	20



Client:	All West Environmental, Inc	WorkOrder:	1403700
Date Prepared:	3/26/14	BatchID:	88609
Date Analyzed:	3/25/14	<b>Extraction Method:</b>	SW5030B
Instrument:	GC28	Analytical Method:	SW8260B
Matrix:	Water	Unit:	μg/L
Project:	#14011.28; Hollis-Emeryville	Sample ID:	MB/LCS-88609 1403780-009BMS/MSD

QC Summary Report for SW8260B							
Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	-	10	-	-	-	-
tert-Amyl methyl ether (TAME)	ND	15.99	0.50	20	-	79.9	70-130
Benzene	ND	16.97	0.50	20	-	84.9	70-130
Bromobenzene	ND	-	0.50	-	-	-	-
Bromochloromethane	ND	-	0.50	-	-	-	-
Bromodichloromethane	ND	-	0.50	-	-	-	-
Bromoform	ND	-	0.50	-	-	-	-
Bromomethane	ND	-	0.50	-	-	-	-
2-Butanone (MEK)	ND	-	2.0	-	-	-	-
t-Butyl alcohol (TBA)	ND	54.65	2.0	80	-	68.3, F2	70-130
n-Butyl benzene	ND	-	0.50	-	-	-	-
sec-Butyl benzene	ND	-	0.50	-	-	-	-
tert-Butyl benzene	ND	-	0.50	-	-	-	-
Carbon Disulfide	ND	-	0.50	-	-	-	-
Carbon Tetrachloride	ND	-	0.50	-	-	-	-
Chlorobenzene	ND	17.86	0.50	20	-	89.3	70-130
Chloroethane	ND	-	0.50	-	-	-	-
Chloroform	ND	-	0.50	-	-	-	-
Chloromethane	ND	-	0.50	-	-	-	-
2-Chlorotoluene	ND	-	0.50	-	-	-	-
4-Chlorotoluene	ND	-	0.50	-	-	-	-
Dibromochloromethane	ND	-	0.50	-	-	-	-
1,2-Dibromo-3-chloropropane	ND	-	0.20	-	-	-	-
1,2-Dibromoethane (EDB)	ND	16.6	0.50	20	-	83	70-130
Dibromomethane	ND	-	0.50	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.50	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.50	-	-	-	-
1,4-Dichlorobenzene	ND	-	0.50	-	_	-	-
Dichlorodifluoromethane	ND	-	0.50	-	_	-	-
1,1-Dichloroethane	ND	-	0.50		-	_	-
1,2-Dichloroethane (1,2-DCA)	ND	16.12	0.50	20	-	80.6	70-130
1,1-Dichloroethene	ND	19.31	0.50	20	-	96.5	70-130
cis-1,2-Dichloroethene	ND	-	0.50		-	-	-
trans-1,2-Dichloroethene	ND	-	0.50	-	-	-	-
1,2-Dichloropropane	ND	-	0.50	-	-	-	-
1,3-Dichloropropane	ND	-	0.50	-	-	-	-
2,2-Dichloropropane	ND	_	0.50	-	_	-	-
1,1-Dichloropropene	ND	-	0.50	-	_	-	-
cis-1,3-Dichloropropene	ND	_	0.50	-	_	-	-
trans-1,3-Dichloropropene	ND	-	0.50	-	-	-	-
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Client:	All West Environmental, Inc	WorkOrder:	1403700
Date Prepared:	3/26/14	BatchID:	88609
Date Analyzed:	3/25/14	<b>Extraction Method:</b>	SW5030B
Instrument:	GC28	Analytical Method:	SW8260B
Matrix:	Water	Unit:	μg/L
Project:	#14011.28; Hollis-Emeryville	Sample ID:	MB/LCS-88609 1403780-009BMS/MSD

	QC Sum	mary Report	for SW8260	B			
Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Diisopropyl ether (DIPE)	ND	17.14	0.50	20	-	85.7	70-130
Ethylbenzene	ND	-	0.50	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	16.91	0.50	20	-	84.5	70-130
Freon 113	ND	-	0.50	-	-	-	-
Hexachlorobutadiene	ND	-	0.50	-	-	-	-
Hexachloroethane	ND	-	0.50	-	-	-	-
2-Hexanone	ND	-	0.50	-	-	-	-
Isopropylbenzene	ND	-	0.50	-	-	-	-
4-Isopropyl toluene	ND	-	0.50	-	-	-	-
Methyl-t-butyl ether (MTBE)	ND	16.35	0.50	20	-	81.7	70-130
Methylene chloride	ND	-	0.50	-	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	-	0.50	-	-	-	-
Naphthalene	ND	-	0.50	-	-	-	-
n-Propyl benzene	ND	-	0.50	-	-	-	-
Styrene	ND	-	0.50	-	-	-	-
1,1,1,2-Tetrachloroethane	ND	-	0.50	-	-	-	-
1,1,2,2-Tetrachloroethane	ND	-	0.50	-	-	-	-
Tetrachloroethene	ND	-	0.50	-	-	-	-
Toluene	ND	18.12	0.50	20	-	90.6	70-130
1,2,3-Trichlorobenzene	ND	-	0.50	-	-	-	-
1,2,4-Trichlorobenzene	ND	-	0.50	-	-	-	-
1,1,1-Trichloroethane	ND	-	0.50	-	-	-	-
1,1,2-Trichloroethane	ND	-	0.50	-	-	-	-
Trichloroethene	ND	16.86	0.50	20	-	84.3	70-130
Trichlorofluoromethane	ND	-	0.50	-	-	-	-
1,2,3-Trichloropropane	ND	-	0.50	-	-	-	-
1,2,4-Trimethylbenzene	ND	-	0.50	-	-	-	-
1,3,5-Trimethylbenzene	ND	-	0.50	-	-	-	-
Vinyl Chloride	ND	-	0.50	-	-	-	-
Xylenes, Total	ND	-	0.50	-	-	-	-
Surrogate Recovery							
Dibromofluoromethane	21.64	36.69		45	87	82	70-130
Toluene-d8	22.24	38.62		45	89	86	70-130
4-BFB	2.396	4.158		4.5	96	92	70-130





Client:	All West Environmental, Inc	WorkOrder:	1403700
Date Prepared:	3/26/14	BatchID:	88609
Date Analyzed:	3/25/14	<b>Extraction Method:</b>	SW5030B
Instrument:	GC28	Analytical Method:	SW8260B
Matrix:	Water	Unit:	μg/L
Project:	#14011.28; Hollis-Emeryville	Sample ID:	MB/LCS-88609 1403780-009BMS/MSD

QC Summary Report for SW8260B									
Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
tert-Amyl methyl ether (TAME)	18.57	18.78	20	ND	92.9	93.9	70-130	1.12	20
Benzene	18.23	18	20	ND	91.2	90	70-130	1.28	20
t-Butyl alcohol (TBA)	73.57	76.77	80	ND	92	96	70-130	4.25	20
Chlorobenzene	18.75	18.46	20	ND	93.8	92.3	70-130	1.59	20
1,2-Dibromoethane (EDB)	19.16	19.25	20	ND	95.8	96.3	70-130	0.487	20
1,2-Dichloroethane (1,2-DCA)	18.74	18.83	20	ND	93.7	94.1	70-130	0.497	20
1,1-Dichloroethene	19.94	19.54	20	ND	99.7	97.7	70-130	2.07	20
Diisopropyl ether (DIPE)	18.58	18.76	20	ND	92.9	93.8	70-130	0.976	20
Ethyl tert-butyl ether (ETBE)	18.68	19.2	20	ND	93.4	96	70-130	2.75	20
Methyl-t-butyl ether (MTBE)	19.88	19.97	20	ND	99.4	99.8	70-130	0.439	20
Toluene	18.53	18.51	20	ND	92.7	92.5	70-130	0.152	20
Trichloroethene	18.14	18.15	20	ND	90.7	90.7	70-130	0	20
Surrogate Recovery									
Dibromofluoromethane	39.59	39.99	45		88	89	70-130	1.01	20
Toluene-d8	39.01	39.25	45		87	87	70-130	0	20
4-BFB	4.25	4.307	4.5		94	96	70-130	1.33	20





### **Quality Control Report**

Client:	All West Environmental, Inc	WorkOrder:	1403700
Date Prepared:	3/27/14	BatchID:	88674
Date Analyzed:	3/26/14	<b>Extraction Method:</b>	SW5030B
Instrument:	GC18	Analytical Method:	SW8260B
Matrix:	Water	Unit:	μg/L
Project:	#14011.28; Hollis-Emeryville	Sample ID:	MB/LCS-88674 1403789-001AMS/MSD

	QC Sum	mary Report	for SW8260	B			
Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	-	10	-	-	-	-
tert-Amyl methyl ether (TAME)	ND	14.98	0.50	20	-	74.9	70-130
Benzene	ND	16.17	0.50	20	-	80.9	70-130
Bromobenzene	ND	-	0.50	-	-	-	-
Bromochloromethane	ND	-	0.50	-	-	-	-
Bromodichloromethane	ND	-	0.50	-	-	-	-
Bromoform	ND	-	0.50	-	-	-	-
Bromomethane	ND	-	0.50	-	-	-	-
2-Butanone (MEK)	ND	-	2.0	-	-	-	-
t-Butyl alcohol (TBA)	ND	59.97	2.0	80	-	75	70-130
n-Butyl benzene	ND	-	0.50	-	-	-	-
sec-Butyl benzene	ND	-	0.50	-	-	-	-
tert-Butyl benzene	ND	-	0.50	-	-	-	-
Carbon Disulfide	ND	-	0.50	-	-	-	-
Carbon Tetrachloride	ND	-	0.50	-	-	-	-
Chlorobenzene	ND	17.76	0.50	20	-	88.8	70-130
Chloroethane	ND	-	0.50	-	-	-	-
Chloroform	ND	-	0.50	-	-	-	-
Chloromethane	ND	-	0.50	-	-	-	-
2-Chlorotoluene	ND	-	0.50	-	-	-	-
4-Chlorotoluene	ND	-	0.50	-	-	-	-
Dibromochloromethane	ND	-	0.50	-	-	-	-
1,2-Dibromo-3-chloropropane	ND	-	0.20	-	_	-	-
1,2-Dibromoethane (EDB)	ND	17.46	0.50	20	-	87.3	70-130
Dibromomethane	ND	-	0.50		-	-	-
1.2-Dichlorobenzene	ND	-	0.50	-	-	-	_
1,3-Dichlorobenzene	ND	-	0.50	-	-	-	-
1,4-Dichlorobenzene	ND	-	0.50	-	-	-	-
Dichlorodifluoromethane	ND	-	0.50	-		-	-
1,1-Dichloroethane	ND		0.50	-		_	_
1,2-Dichloroethane (1,2-DCA)	ND	15.31	0.50	20	-	76.5	70-130
1,1-Dichloroethene	ND	17.58	0.50	20		87.9	70-130
cis-1,2-Dichloroethene	ND	-	0.50	-	-	-	-
trans-1,2-Dichloroethene	ND	-	0.50	-	-	_	-
1,2-Dichloropropane	ND	_	0.50	-	-	-	-
1,3-Dichloropropane	ND	_	0.50	-	-	-	-
2,2-Dichloropropane	ND	-	0.50	-	-	-	_
1,1-Dichloropropene	ND	-	0.50	-	-	-	-
cis-1,3-Dichloropropene	ND	-	0.50	-	-	-	-
trans-1,3-Dichloropropene	ND	-	0.50	-	-	-	-
папа-т,а-рисписирторене	UN	-	0.50	-	-	-	-

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Client:	All West Environmental, Inc	WorkOrder:	1403700
Date Prepared:	3/27/14	BatchID:	88674
Date Analyzed:	3/26/14	<b>Extraction Method:</b>	SW5030B
Instrument:	GC18	Analytical Method:	SW8260B
Matrix:	Water	Unit:	μg/L
Project:	#14011.28; Hollis-Emeryville	Sample ID:	MB/LCS-88674 1403789-001AMS/MSD

QC Summary Report for SW8260B									
Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits		
Diisopropyl ether (DIPE)	ND	14.73	0.50	20	-	73.7	70-130		
Ethylbenzene	ND	-	0.50	-	-	-	-		
Ethyl tert-butyl ether (ETBE)	ND	15.08	0.50	20	-	75.4	70-130		
Freon 113	ND	-	0.50	-	-	-	-		
Hexachlorobutadiene	ND	-	0.50	-	-	-	-		
Hexachloroethane	ND	-	0.50	-	-	-	-		
2-Hexanone	ND	-	0.50	-	-	-	-		
Isopropylbenzene	ND	-	0.50	-	-	-	-		
4-Isopropyl toluene	ND	-	0.50	-	-	-	-		
Methyl-t-butyl ether (MTBE)	ND	15.02	0.50	20	-	75.1	70-130		
Methylene chloride	ND	-	0.50	-	-	-	-		
4-Methyl-2-pentanone (MIBK)	ND	-	0.50	-	-	-	-		
Naphthalene	ND	-	0.50	-	-	-	-		
n-Propyl benzene	ND	-	0.50	-	-	-	-		
Styrene	ND	-	0.50	-	-	-	-		
1,1,1,2-Tetrachloroethane	ND	-	0.50	-	-	-	-		
1,1,2,2-Tetrachloroethane	ND	-	0.50	-	-	-	-		
Tetrachloroethene	ND	-	0.50	-	-	-	-		
Toluene	ND	16.17	0.50	20	-	80.9	70-130		
1,2,3-Trichlorobenzene	ND	-	0.50	-	-	-	-		
1,2,4-Trichlorobenzene	ND	-	0.50	-	-	-	-		
1,1,1-Trichloroethane	ND	-	0.50	-	-	-	-		
1,1,2-Trichloroethane	ND	-	0.50	-	-	-	-		
Trichloroethene	ND	17.24	0.50	20	-	86.2	70-130		
Trichlorofluoromethane	ND	-	0.50	-	-	-	-		
1,2,3-Trichloropropane	ND	-	0.50	-	-	-	-		
1,2,4-Trimethylbenzene	ND	-	0.50	-	-	-	-		
1,3,5-Trimethylbenzene	ND	-	0.50	-	-	-	-		
Vinyl Chloride	ND	-	0.50	-	-	-	-		
Xylenes, Total	ND	-	0.50	-	-	-	-		
Surrogate Recovery									
Dibromofluoromethane	23.77	41.51		45	95	92	70-130		
Toluene-d8	23.93	43.88		45	96	98	70-130		
4-BFB	2.282	4.044		4.5	91	90	70-130		





Client:	All West Environmental, Inc	WorkOrder:	1403700
Date Prepared:	3/27/14	BatchID:	88674
Date Analyzed:	3/26/14	<b>Extraction Method:</b>	SW5030B
Instrument:	GC18	Analytical Method:	SW8260B
Matrix:	Water	Unit:	μg/L
Project:	#14011.28; Hollis-Emeryville	Sample ID:	MB/LCS-88674 1403789-001AMS/MSD

QC Summary Report for SW8260B									
MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit	
14.71	14.72	20	ND	73.5	73.6	70-130	0.0938	20	
16.12	15.71	20	ND	80.6	78.6	70-130	2.54	20	
31.03	42.04	80	ND	38.8,F1	52.5,F1	70-130	30.1,F1	20	
17.76	17.48	20	ND	88.8	87.4	70-130	1.62	20	
18.03	17.93	20	ND	90.1	89.6	70-130	0.547	20	
15.53	15.27	20	ND	77.6	76.4	70-130	1.66	20	
17	16.19	20	ND	85	80.9	70-130	4.92	20	
14.6	14.62	20	ND	73	73.1	70-130	0.146	20	
14.86	14.83	20	ND	74.3	74.2	70-130	0.189	20	
14.74	14.89	20	ND	73.7	74.5	70-130	1.06	20	
15.66	15.36	20	ND	78.3	76.8	70-130	1.92	20	
17.04	16.93	20	ND	85.2	84.7	70-130	0.649	20	
41.76	41.42	45		93	92	70-130	0.801	20	
42.79	42.41	45		95	94	70-130	0.880	20	
3.943	3.954	4.5		88	88	70-130	0	20	
	MS Result           14.71           16.12           31.03           17.76           18.03           15.53           17           14.6           14.86           14.74           15.66           17.04           41.76           42.79	MS Result         MSD Result           14.71         14.72           16.12         15.71           31.03         42.04           17.76         17.48           18.03         17.93           15.53         15.27           17         16.19           14.6         14.62           14.86         14.83           14.74         14.89           15.66         15.36           17.04         16.93           41.76         41.42           42.79         42.41	MS Result         MSD Result         SPK Val           14.71         14.72         20           16.12         15.71         20           31.03         42.04         80           17.76         17.48         20           18.03         17.93         20           15.53         15.27         20           14.6         14.62         20           14.86         14.83         20           14.66         15.36         20           15.66         15.36         20           17.04         16.93         20           14.76         41.42         45           42.79         42.41         45	MS Result         MSD Result         SPK Val         SPKRef Val           14.71         14.72         20         ND           16.12         15.71         20         ND           31.03         42.04         80         ND           17.76         17.48         20         ND           15.53         15.27         20         ND           17         16.19         20         ND           14.6         14.62         20         ND           14.86         14.83         20         ND           14.74         14.89         20         ND           14.74         14.89         20         ND           14.76         15.36         20         ND           14.76         41.42         45           41.76         41.42         45	MS Result         MSD Result         SPK Val         SPKRef Val         MS %REC           14.71         14.72         20         ND         73.5           16.12         15.71         20         ND         80.6           31.03         42.04         80         ND         38.8,F1           17.76         17.48         20         ND         80.8           18.03         17.93         20         ND         90.1           15.53         15.27         20         ND         73.6           17         16.19         20         ND         85           14.6         14.62         20         ND         73.3           14.86         14.83         20         ND         73.7           15.66         15.36         20         ND         73.7           15.66         15.36         20         ND         78.3           17.04         16.93         20         ND         85.2           41.76         41.42         45         93           42.79         42.41         45         95	MS Result         MSD Result         SPK Val         SPKRef Val         MS %REC         MSD %REC           14.71         14.72         20         ND         73.5         73.6           16.12         15.71         20         ND         80.6         78.6           31.03         42.04         80         ND         38.8,F1         52.5,F1           17.76         17.48         20         ND         80.8         87.4           18.03         17.93         20         ND         90.1         89.6           15.53         15.27         20         ND         73.7         76.4           17         16.19         20         ND         85         80.9           14.6         14.62         20         ND         73.7         74.5           14.86         14.83         20         ND         73.7         74.5           15.66         15.36         20         ND         78.3         76.8           17.04         16.93         20         ND         85.2         84.7           41.76         41.42         45         93         92           42.79         42.41         45         95	MS Result         MSD Result         SPK Val         SPKRef Val         MS Val         MS %REC         MSD %REC         MSD Limits           14.71         14.72         20         ND         73.5         73.6         70-130           16.12         15.71         20         ND         80.6         78.6         70-130           31.03         42.04         80         ND         38.8,F1         52.5,F1         70-130           17.76         17.48         20         ND         88.8         87.4         70-130           18.03         17.93         20         ND         90.1         89.6         70-130           15.53         15.27         20         ND         73.7         76.4         70-130           17         16.19         20         ND         85         80.9         70-130           14.6         14.62         20         ND         73.7         74.5         70-130           14.86         14.83         20         ND         73.7         74.5         70-130           14.74         14.89         20         ND         73.3         76.8         70-130           15.66         15.36         20         <	MS Result         MSD Result         SPK Val         SPKRef Val         MS %REC         MSD %REC         MSD Limits         RPD           14.71         14.72         20         ND         73.5         73.6         70-130         0.0938           16.12         15.71         20         ND         80.6         78.6         70-130         2.54           31.03         42.04         80         ND         38.8,F1         52.5,F1         70-130         30.1,F1           17.76         17.48         20         ND         88.8         87.4         70-130         0.547           15.53         15.27         20         ND         73.5         73.1         70-130         0.547           14.6         14.62         20         ND         77.6         76.4         70-130         1.66           17         16.19         20         ND         73         73.1         70-130         0.146           14.86         14.82         20         ND         73.7         74.5         70-130         0.146           14.86         14.83         20         ND         73.7         74.5         70-130         1.92           14.74         14.89	





1403700 88526 SW3510C SW8270C-SIM

µg/L

MB/LCS-88526

Client:	All West Environmental, Inc	WorkOrder:
Date Prepared:	3/24/14	BatchID:
Date Analyzed:	3/24/14	<b>Extraction Method</b>
Instrument:	GC35	Analytical Method:
Matrix:	Water	Unit:
Project:	#14011.28; Hollis-Emeryville	Sample ID:

QC Summary Report for SW8270C										
Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits			
Acenaphthene	ND	-	0.50	-	-	-	-			
Acenaphthylene	ND	-	0.50	-	-	-	-			
Anthracene	ND	-	0.50	-	-	-	-			
Benzo (a) anthracene	ND	-	0.50	-	-	-	-			
Benzo (b) fluoranthene	ND	-	0.50	-	-	-	-			
Benzo (k) fluoranthene	ND	-	0.50	-	-	-	-			
Benzo (g,h,i) perylene	ND	-	0.50	-	-	-	-			
Benzo (a) pyrene	ND	8.662	0.50	10	-	86.6	30-130			
Chrysene	ND	9.568	0.50	10	-	95.7	30-130			
Dibenzo (a,h) anthracene	ND	-	0.50	-	-	-	-			
Fluoranthene	ND	-	0.50	-	-	-	-			
Fluorene	ND	-	0.50	-	-	-	-			
Indeno (1,2,3-cd) pyrene	ND	-	0.50	-	-	-	-			
1-Methylnaphthalene	ND	11.42	0.50	10	-	114	30-130			
2-Methylnaphthalene	ND	9.549	0.50	10	-	95.5	30-130			
Naphthalene	ND	-	0.50	-	-	-	-			
Phenanthrene	ND	9.739	0.50	10	-	97.4	30-130			
Pyrene	ND	9.799	0.50	10	-	98	30-130			
Surrogate Recovery										
1-Fluoronapthalene	24.62	25.07		25	98	100	30-130			
2-fluorobiphenyl	24.13	22.69		25	97	91	30-130			

QA/QC Officer Page 27 of 37



Client:	All West Environmental, Inc	WorkOrder:	1403700
Date Prepared:	3/22/14	BatchID:	88488
Date Analyzed:	3/21/14	<b>Extraction Method:</b>	SW5030B
Instrument:	GC3	Analytical Method:	SW8021B/8015Bm
Matrix:	Water	Unit:	μg/L
Project:	#14011.28; Hollis-Emeryville	Sample ID:	MB/LCS-88488 1403688-001AMS/MSD

	QC Summary	_							
Analyte	MB Result	LCS Result		RL	SPK Val	MB SS		CS BREC	LCS Limits
TPH(btex)	ND	61.33		40	60	-	1	02	70-130
MTBE	ND	10.39		5.0	10	-	1	04	70-130
Benzene	ND	9.871		0.50	10	-	9	8.7	70-130
Toluene	ND	9.76		0.50	10	-	9	7.6	70-130
Ethylbenzene	ND	9.707		0.50	10	-	9	7.1	70-130
Xylenes	ND	29.43		0.50	30	-	9	8.1	70-130
Surrogate Recovery									
aaa-TFT	9.736	9.659			10	97	9	7	70-130
Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSI Limits	D RF	PD RPD Limit
Analyte TPH(btex)		-	-			-		<b>D RF</b> 2.8	Limit
	Result	Result	Val	Val	%REC	%REC	Limits		Limit 33 20
TPH(btex)	Result 57.59	<b>Result</b> 55.99	<b>Val</b> 60	Val ND	<b>%REC</b> 96	%REC 93.3	Limits 70-130	2.8	Limit 33 20 93 20
TPH(btex) MTBE	<b>Result</b> 57.59 10.57	<b>Result</b> 55.99 9.957	<b>Val</b> 60 10	Val ND ND	%REC 96 106	%REC 93.3 99.6	Limits 70-130 70-130	2.8 5.9	Limit 33 20 33 20 24 20
TPH(btex) MTBE Benzene	Result 57.59 10.57 10.34	<b>Result</b> 55.99 9.957 9.523	Val 60 10 10	Val ND ND ND	%REC 96 106 103	%REC 93.3 99.6 95.2	Limits 70-130 70-130 70-130	2.8 5.9 8.2	Limit 33 20 33 20 24 20 51 20
TPH(btex) MTBE Benzene Toluene	Result           57.59           10.57           10.34           10.15	Result           55.99           9.957           9.523           9.507	Val 60 10 10 10	Val ND ND ND ND	%REC 96 106 103 101	%REC 93.3 99.6 95.2 95.1	Limits 70-130 70-130 70-130 70-130	2.8 5.9 8.2 6.5	Limit 33 20 33 20 24 20 51 20 2 20
TPH(btex) MTBE Benzene Toluene Ethylbenzene	Result           57.59           10.57           10.34           10.15           10.19	Result           55.99           9.957           9.523           9.507           9.491	Val           60           10           10           10           10           10	Val ND ND ND ND ND	%REC           96           106           103           101           102	%REC           93.3           99.6           95.2           95.1           94.9	Limits 70-130 70-130 70-130 70-130 70-130	2.8 5.9 8.2 6.5 7.1	Limit 33 20 33 20 24 20 51 20 2 20



Client:	All West Environmental, Inc	WorkOrder:	1403700
Date Prepared:	3/24/14	BatchID:	88552
Date Analyzed:	3/24/14	<b>Extraction Method:</b>	SW5030B
Instrument:	GC3	Analytical Method:	SW8021B/8015Bm
Matrix:	Water	Unit:	μg/L
Project:	#14011.28; Hollis-Emeryville	Sample ID:	MB/LCS-88552 1403808-001BMS/MSD

Amelida	MD	1.00			0.01/			20	1.00
Analyte	MB Result	LCS Result		RL	SPK Val	MB SS		CS REC	LCS Limits
TPH(btex)	ND	69.59		40	60	-	11	16	70-130
МТВЕ	ND	10.1		5.0	10	-	1(	)1	70-130
Benzene	ND	9.493		0.50	10	-	94	1.9	70-130
Toluene	ND	9.399		0.50	10	-	94	1	70-130
Ethylbenzene	ND	9.374		0.50	10	-	93	3.7	70-130
Xylenes	ND	28.4		0.50	30	-	94	1.7	70-130
Surrogate Recovery									
aaa-TFT	9.748	9.502			10	97	95	5	70-130
Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	) RPI	
Analyte TPH(btex)	-	-	-			-		) RPI	Limit
	Result	Result	Val	Val	%REC	%REC	Limits		<b>Limit</b> 5 20
TPH(btex)	Result 59.44	<b>Result</b> 60.12	<b>Val</b> 60	Val ND	%REC 99.1	%REC 100	Limits 70-130	1.1	Limit 5 20 9 20
TPH(btex) MTBE	Result 59.44 10.23	Result 60.12 11.41	<b>Val</b> 60 10	Val ND ND	%REC 99.1 102	%REC 100 114	Limits 70-130 70-130	1.15 10.5	Limit 5 20 9 20 9 20
TPH(btex) MTBE Benzene	Result 59.44 10.23 9.784	Result 60.12 11.41 10.51	Val 60 10 10	Val ND ND ND	%REC 99.1 102 97.8	%REC 100 114 105	Limits 70-130 70-130 70-130	1.18 10.9 7.19	Limit 5 20 9 20 9 20 2 20
TPH(btex) MTBE Benzene Toluene	Result           59.44           10.23           9.784           9.665	Result           60.12           11.41           10.51           10.47	Val 60 10 10 10	Val ND ND ND ND	%REC 99.1 102 97.8 96.6	%REC 100 114 105 105	Limits 70-130 70-130 70-130 70-130	1.15 10.5 7.15 8.02	Limit 5 20 9 20 9 20 2 20 0 20
TPH(btex) MTBE Benzene Toluene Ethylbenzene	Result 59.44 10.23 9.784 9.665 9.943	Result           60.12           11.41           10.51           10.47           10.64	Val           60           10           10           10           10	Val ND ND ND ND ND	%REC           99.1           102           97.8           96.6           99.4	%REC 100 114 105 105 106	Limits 70-130 70-130 70-130 70-130 70-130	1.15 10.5 7.15 8.02 6.80	Limit 5 20 9 20 9 20 2 20 0 20



Client:	All West Environmental, Inc	WorkOrder:	1403700
Date Prepared:	3/25/14	BatchID:	88594
Date Analyzed:	3/25/14	<b>Extraction Method:</b>	SW5030B
Instrument:	GC3	Analytical Method:	SW8021B/8015Bm
Matrix:	Water	Unit:	μg/L
Project:	#14011.28; Hollis-Emeryville	Sample ID:	MB/LCS-88594 1403788-001AMS/MSD

	QC Summary	y Report	for SW	8021B/80	15Bm					
Analyte	MB Result	LCS Result		RL	SPK Val	MB SS		LCS %REC		LCS Limits
TPH(btex)	ND	54.3		40	60	-		90.5		70-130
МТВЕ	ND	9.999		5.0	10	-		100		70-130
Benzene	ND	10.37		0.50	10	-		104		70-130
Toluene	ND	10.38		0.50	10	-		104		70-130
Ethylbenzene	ND	10.31		0.50	10	-		103		70-130
Xylenes	ND	31.06		0.50	30	-		104		70-130
Surrogate Recovery										
aaa-TFT	10.43	10.11			10	104		101		70-130
Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/M Limits	-	RPD	
Analyte TPH(btex)	-	-	-		-			5	<b>RPD</b>	Limit
	Result	Result	Val	Val	%REC	%REC	Limits	)		Limit
TPH(btex)	<b>Result</b> 67.08	<b>Result</b> 67.47	<b>Val</b> 60	<b>Val</b> ND	%REC	%REC 112	<b>Limits</b> 70-130	5 D D	0	Limit 20 20
TPH(btex) MTBE	Result 67.08 10.68	Result 67.47 10.88	<b>Val</b> 60 10	Val ND ND	%REC 112 107	%REC 112 109	<b>Limits</b> 70-130 70-130	<b>5</b> ) ) )	0 1.83	Limit 20 20 20
TPH(btex) MTBE Benzene	Result 67.08 10.68 10.15	Result 67.47 10.88 10.11	Val 60 10 10	Val ND ND ND	%REC 112 107 102	%REC 112 109 101	Limits 70-130 70-130 70-130	5 0 0 0 0	0 1.83 0.441	Limit 20 20 20 20
TPH(btex) MTBE Benzene Toluene	Result           67.08           10.68           10.15           11.7	Result           67.47           10.88           10.11           11.78	Val 60 10 10 10	Val ND ND ND 0.9807	%REC 112 107 102 107	%REC 112 109 101 108	Limits 70-130 70-130 70-130 70-130	5 0 0 0 0 0	0 1.83 0.441 0.656	Limit 20 20 20 20 20 20
TPH(btex) MTBE Benzene Toluene Ethylbenzene	Result           67.08           10.68           10.15           11.7           10.35	Result           67.47           10.88           10.11           11.78           10.26	Val 60 10 10 10 10	Val ND ND 0.9807 ND	%REC 112 107 102 107 104	%REC 112 109 101 108 103	Limits 70-130 70-130 70-130 70-130 70-130	5 0 0 0 0 0	0 1.83 0.441 0.656 0.896	

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Client:	All West Environmental, Inc	WorkOrder:	1403700
Date Prepared:	3/20/14	BatchID:	88412
Date Analyzed:	3/22/14	<b>Extraction Method</b>	SW3510C/3630C
Instrument:	GC11A	Analytical Method:	SW8015B
Matrix:	Water	Unit:	μg/L
Project:	#14011.28; Hollis-Emeryville	Sample ID:	MB/LCS-88412
Instrument: Matrix:	GC11A Water	Analytical Method: Unit:	SW8015B μg/L

QC Summary Report for SW8015B							
Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	706	50	1000	-	70.6	70-130
Surrogate Recovery							
С9	728.9	693.5		625	117	111	70-130



### McCampbell Analytical, Inc.

FAX: (415) 391-2008



Report to:

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

Christopher Houlihan

(415) 391-2510

All West Environmental, Inc

2141 Mission Street, Ste 100

San Francisco, CA 94110

### **CHAIN-OF-CUSTODY RECORD**

	WorkOr	rder: 1403700	Client	Code: AWE		
WaterTraxWriteOnEDF	Excel	EQuIS	✓ Email	HardCopy	ThirdParty	J-flag
	Bil	I to:		Req	uested TAT:	5 days
Email: choulihan@allwest1.com cc/3rd Party: PO:		Darlene Torio All West Envir 2141 Mission	onmental, Inc Street, Ste 100	Date	e Received:	03/20/2014
ProjectNo: #14011.28; Hollis-Emeryville		San Francisco darlene@allwe	,	Date	e Printed:	03/20/2014

				[				Re	quested	Tests (	See leg	end belo	w)			
Lab ID	Client ID	Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12
1403700-001	AMW-1	Water	3/19/2014 11:24		А	С	В	Α	В							
1403700-002	AMW-2	Water	3/19/2014 16:32		Α	С	В		В							
1403700-003	AMW-3	Water	3/19/2014 9:40		А	С	В		В							
1403700-004	MW-3	Water	3/19/2014 14:32		А	С	В		В							

#### Test Legend:

1	8260B_W
6	
11	

2	8270D-PNA_W
7	
12	

G-MBTEX_W	_

4	PREDF REPORT
9	

5	TPH(D)WSG_W
10	

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#### Prepared by: Zoraida Cortez

#### **Comments:**

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

3 8



**Comments:** 

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

### WORK ORDER SUMMARY

Client Name:	ALL WEST ENVIRONMENTAL, INC
Project:	#14011.28: Hollis-Emervville

QC Level: LEVEL 2 Client Contact: Christopher Houlihan Contact's Email: choulihan@allwest1.com **Work Order:** 1403700 **Date Received:** 3/20/2014

		WaterTrax	WriteOn FEDF	Excel	]Fax <b>√</b> Email	HardC	opy ThirdPart	ty 🗌 🗸	-flag	
Lab ID	Client ID	Matrix	Test Name	Number of Containers	Bottle & Preservative	De- chlorinated	Collection Date & Time	TAT	Sediment Content	Hold SubOut
1403700-001A	AMW-1	Water	SW8260B (VOCs)	1	VOA w/ HCl		3/19/2014 11:24	5 days	1%+	
1403700-001B	AMW-1	Water	SW8015B (Diesel w/ S.G. Clean-Up)	3	VOA w/ HCl		3/19/2014 11:24	5 days	1%+	
			SW8021B/8015Bm (G/MBTEX) <benzene_2, ethylbenzene_2,<br="">MTBE_2, Toluene_2, TPH(g)_1, TPH(mineral spirits)_1, Xylenes_2&gt;</benzene_2,>					5 days	1%+	
				1	1LA w/ HCl				1% +	
1403700-001C	AMW-1	Water	SW8270C (PAHs/PNAs)	1	1LA		3/19/2014 11:24	5 days	1%+	
1403700-002A	AMW-2	Water	SW8260B (VOCs)	1	VOA w/ HCl		3/19/2014 16:32	5 days	Present	
1403700-002B	AMW-2	Water	SW8015B (Diesel w/ S.G. Clean-Up)	3	VOA w/ HCl		3/19/2014 16:32	5 days	Present	
			SW8021B/8015Bm (G/MBTEX) <benzene_2, ethylbenzene_2,<br="">MTBE_2, Toluene_2, TPH(g)_1, TPH(mineral spirits)_1, Xylenes_2&gt;</benzene_2,>					5 days	Present	
1403700-002C	AMW-2	Water	SW8270C (PAHs/PNAs)	1	1LA		3/19/2014 16:32	5 days	Present	
1403700-003A	AMW-3	Water	SW8260B (VOCs)	1	VOA w/ HCl		3/19/2014 9:40	5 days	Present	
1403700-003B	AMW-3	Water	SW8015B (Diesel w/ S.G. Clean-Up)	3	VOA w/ HCl		3/19/2014 9:40	5 days	Present	
			SW8021B/8015Bm (G/MBTEX) <benzene_2, ethylbenzene_2,<br="">MTBE_2, Toluene_2, TPH(g)_1, TPH(mineral spirits)_1, Xylenes_2&gt;</benzene_2,>					5 days	Present	

\* NOTE: STLC and TCLP extractions require 48 hrs to complete; therefore, all TATs begin after the extraction is completed (i.e., 24hr TAT yields results in 72 hrs from sample submission).

- **Bottle Legend:**
- 1LA = 1L Amber Glass Jar, Unpreserved
- 1LA w/ HCI = 1L Amber Glass Jar w/ Hydrochloric acid

VOA w/ HCI = 43mL VOA w/ HCI



### WORK ORDER SUMMARY

Client Name Project: Comments:		ENVIRONMENTAL Hollis-Emeryville	(		LEVEL 2 Christopher Houlihan Choulihan@allwest1.com				k Order: Received:	1403700 3/20/2014
		WaterTrax	WriteOn  ✓EDF	Excel	Fax Fax	HardC	opy ThirdPar	ty 🗌	J-flag	
Lab ID	Client ID	Matrix	Test Name	Number of Container		De- chlorinated	Collection Date & Time	ТАТ	Sediment Content	Hold SubOut
1403700-003C	AMW-3	Water	SW8270C (PAHs/PNAs)	1	1LA		3/19/2014 9:40	5 days	Present	
1403700-004A	MW-3	Water	SW8260B (VOCs)	1	VOA w/ HCl		3/19/2014 14:32	5 days	Present	
1403700-004B	MW-3	Water	SW8015B (Diesel w/ S.G. Clean-	-Up) 3	VOA w/ HCl		3/19/2014 14:32	5 days	Present	
			SW8021B/8015Bm (G/MBTEX) <benzene_2, ethylbenzene_2,<br="">MTBE_2, Toluene_2, TPH(g)_1, TPH(mineral spirits)_1, Xylenes_</benzene_2,>					5 days	Present	
1403700-004C	MW-3	Water	SW8270C (PAHs/PNAs)	1	1LA		3/19/2014 14:32	5 days	Present	

\* NOTE: STLC and TCLP extractions require 48 hrs to complete; therefore, all TATs begin after the extraction is completed (i.e., 24hr TAT yields results in 72 hrs from sample submission).

- **Bottle Legend:**
- 1LA = 1L Amber Glass Jar, Unpreserved
- 1LA w/ HCI = 1L Amber Glass Jar w/ Hydrochloric acid
- VOA w/ HCI = 43mL VOA w/ HCI

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### Sample Receipt Checklist

Client Name:	All West Environme	ntal, Inc			Date and	Time Received:	3/20/2014 8	:00:55 PM
Project Name:	#14011.28; Hollis-E	meryville			LogIn Re	viewed by:		Zoraida Cortez
WorkOrder N°:	1403700	Matrix: Water			Carrier:	<u>Rob Pringle (M</u>	IAI Courier)	
		<u>Cha</u>	<u>in of Cւ</u>	<u>istody (C</u>	OC) Information	n		
Chain of custody	present?		Yes	✓	No			
Chain of custody	signed when relinquis	shed and received?	Yes	✓	No			
Chain of custody	agrees with sample la	abels?	Yes	✓	No 🗌			
Sample IDs note	d by Client on COC?		Yes	✓	No			
Date and Time of	f collection noted by C	Client on COC?	Yes	✓	No			
Sampler's name	noted on COC?		Yes	✓	No			
			<u>Sample</u>	Receipt	Information			
Custody seals int	tact on shipping conta	iner/cooler?	Yes		No 🗌		NA 🖌	
Shipping contain	er/cooler in good cond	lition?	Yes	✓	No 🗌			
Samples in prope	er containers/bottles?		Yes	✓	No 🗌			
Sample containe	rs intact?		Yes	✓	No 🗌			
Sufficient sample	e volume for indicated	test?	Yes	✓	No			
		Sample Pres	ervatio	n and Ho	ld Time (HT) Inf	ormation		
All samples recei	ived within holding tim	e?	Yes	✓	No			
Container/Temp	Blank temperature		Coole	er Temp:	2.4°C			
Water - VOA vial	s have zero headspac	ce / no bubbles?	Yes	✓	No 🗌			
Sample labels ch	necked for correct pres	servation?	Yes	✓	No			
Metal - pH accep	table upon receipt (p⊦	1<2)?	Yes		No 🗌		NA 🗹	
Samples Receive	ed on Ice?		Yes	✓	No			
		(Ісе Тур	e: WE	TICE )				

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

Comments:

\_\_\_\_\_

\_\_\_\_\_

# APPENDIX D



### **APPLICATION FOR AUTHORIZATION TO USE**

REPORT TITLE:	FIRST QUARTER 2014 GROUNDWATER MONITORING REPORT
	Former McGrath Steel 6655 Hollis Street and 1471 67th Street Emeryville, California
PROJECT NUMBER:	14011.28
To:	AllWest Environmental, Inc. 2141 Mission Street, Suite 100 San Francisco, CA 94110
From (Applicant):	
	(Please clearly identify name and address of person/entity applying for permission to use or copy this document)
Ladies and Gentlemen:	

Applicant states they have thoroughly reviewed the report and had the opportunity to discuss with AllWest the report's methodology, findings and conclusion(s).

Applicant hereby applies for permission to rely upon AllWest's work product, as described above, for the purpose of (state here the purpose for which you wish to rely upon the work product):

Applicant only can accept and rely upon AllWest work product under the strict understanding that Applicant is bound by all provisions in the Terms and Conditions attached to the report. Every report, recommendation, finding, or conclusion issued by AllWest shall be subject to the limitations stated in the Agreement and subject report(s). If this is agreeable, please sign below and return one copy of this letter to us along with the applicable fees. Upon receipt and if acceptable, our signed letter will be returned. AllWest may withhold permission at its sole discretion or require additional re-use fees or terms.

**FEES:** A \$1,500 coordination and reliance fee, payable in advance, will apply. If desired, for an additional \$150 report reproduction fee, we will reissue the report in the name of the Applicant; the report date, however, will remain the same. All checks will be returned if your request for reliance is not approved.

REQUESTED BY
--------------

Applicant Company

Print Name and Title

Print Name and Title

APPROVED BY

AllWest Environmental, Inc.

Signature and Date

Signature and Date

Page 1 of 4

#### GENERAL CONDITIONS TO THE WORK AUTHORIZATION AGREEMENT

It is hereby agreed that the Client retains AllWest to provide services as set forth in the Work Authorization attached hereto (the "Work"). This contract shall be controlled by the following terms and conditions, and these terms and conditions shall also control any further assignments performed pursuant to this Work Authorization. Client's signature on this Work Authorization constitutes Client's agreement to the all terms to this contract, including these General Conditions.

#### FEES AND COSTS

1. AllWest shall charge for work performed by its personnel at the rates identified in the Work Authorization. These rates are subject to reasonable increases by AllWest upon giving Client 30 days advance notice. Reimbursable Costs will be charged to the Client in addition to the fees for the basic services under this Agreement and all Additional Services (defined below) under the Agreement. Reimbursable Costs include, but are not limited to, expenses for travel, including transportation, meals, lodging, long distance telephone and other related expenses, as well as the costs of reproduction of all drawings for the Client's use, costs for specifications and type-written reports, permit and approval fees, automobile travel reimbursement, costs and fees of subcontractors, and soil and other materials testing. No overtime is accrued for time spent in travel. All costs incurred which relate to the services or materials provided by a contractor or subcontractor to AllWest shall be invoiced by AllWest on the basis of cost plus twenty percent (20%). Automobile travel reimbursement shall be at the rate of fifty- eight cents (\$0.58) per mile. All other reimbursable costs shall be invoiced and billed by AllWest at the rate of 1.1 times the direct cost to AllWest. Reimbursable costs will be charged to the client only as outlined in the Work Authorization if the scope of work is for Phase I Environmental Site Assessment, Property Condition Assessment, Seismic Assessment or ALTA survey. Invoices for work performed shall be submitted monthly. Payment will be due upon receipt of invoice. Client shall pay interest on the balance of unpaid invoices which are overdue by more than 30 days, at a rate of 18% per annum as well as all attorney fees and costs incurred by AllWest to secure payment of unpaid invoices. AllWest may waive such fees at its sole discretion.

#### STANDARD OF CARE

2. AllWest will perform its work in accordance with the standard of care of its industry, as it is at the time of the work being performed, and applicable in the locale of the work being performed. AllWest makes no other warranties, express or implied regarding its work.

#### LIMITATION OF REMEDIES

3. Client expressly agrees that to the fullest extent permitted by law, Client's remedies for any liability incurred by AllWest, and/or its employees or agents, for any and all claims arising from AllWest's services, shall be \$50,000 or its fees, whichever is greater.

Client may request a higher limitation of remedies, but must do so in writing. Upon such written request, AllWest may agree to increase this limit in exchange for a mutually negotiated higher fee commensurate with the increased risk to AllWest. Any such agreed increase in fee and limitation of remedies amount must be memorialized by written agreement which expressly amends the terms of this clause.

As used in this section, the term "limitation of remedies" shall apply to claims of any kind, including, but not limited to, claims brought in contract, tort, strict liability, or otherwise, for any and all injuries, claims, losses, expenses, or damages whatsoever arising out of or in any way related to AllWest's services or the services of AllWest's subcontractors, consultants, agents, officers, directors, and employees from any cause(s). AllWest shall not be liable for any claims of loss of profits or any other indirect, incidental, or consequential damages of any nature whatsoever. Client & AllWest have specifically negotiated this limitation.

#### **INDEMNIFICATION**

4. Notwithstanding any other provision of this Agreement, Client agrees, to the fullest extent permitted by law, to waive any claim against, release from any liability or responsibility for, and , indemnify and hold harmless AllWest, its employees, agents and sub-consultants (collectively, Consultant) from and against any and all damages, liabilities, claims, actions or costs of any kind, including reasonable attorney's fees and defense costs, arising or alleged to arise out of or to be in any way connected with the Project or the performance or non-performance of Consultant of any services under this Agreement, excepting only any such liabilities determined by a court or other forum of competent jurisdiction to have been caused by the negligence or willful misconduct of Consultant. This provision shall be in addition to any rights of indemnity that Consultant may have under the law and shall survive and remain in effect following the termination of this Agreement for any reason. Should any part of this provision be determined to be unenforceable, AllWest and Client agree that the rest of the provision shall apply to the maximum extent permitted by law. The Client's duty to defend AllWest shall arise immediately upon tender of any matter potentially covered by the above obligations to indemnify and hold harmless.

#### **MEDIATION & JUDICIAL REFERENCE**

5. In an effort to resolve any conflicts or disputes that arise regarding the performance of this agreement, the Client & AllWest agree that all such disputes shall be submitted to non-binding mediation, using a mutually agreed upon mediation service experienced in the resolution of construction disputes. Unless the parties mutually agree otherwise, such mediation shall be a condition precedent to the initiation of any other adjudicative proceedings. It is further agreed that any dispute that is not settled pursuant to such mediation shall be adjudicated by a court appointed referee in accordance with the Judicial Reference procedures as set forth in California Code of Civil Procedure Section 638 et seq. The parties hereby mutually agree to waive any right to a trial by jury regarding any dispute arising out of this agreement.

The parties further agree to include a similar mediation, Judicial Reference & waiver of jury trial provision in their agreements with other independent contractors & consultants retained for the project and require them to similarly agree to these dispute resolution procedures. The cost of said Mediation shall be split equally between the parties. This agreement to mediate shall be specifically enforceable under the prevailing law of the jurisdiction in which this agreement was signed.

#### HAZARDOUS WASTE

6. Client acknowledges that AllWest and its sub-contractors have played no part in the creation of any hazardous waste, pollution sources, nuisance, or chemical or industrial disposal problem, which may exist, and that AllWest has been retained for the sole purpose of performing the services set out in the scope of work within this Agreement, which may include, but is not necessarily limited to such services as assisting the Client in assessing any problem which may exist and in assisting the

Client in formulating a remedial program. Client acknowledges that while necessary for investigations, commonly used exploration methods employed by AllWest may penetrate through contaminated materials and serve as a connecting passageway between the contaminated material and an uncontaminated aquifer or groundwater, possibly inducing cross contamination. While back-filling with grout or other means, according to a state of practice design is intended to provide a seal against such passageway, it is recognized that such a seal may be imperfect and that there is an inherent risk in drilling borings of performing other exploration methods in a hazardous waste site.

AllWest will not sign or execute hazardous waste manifests or other waste tracking documents on behalf of Client unless Client specifically establishes AllWest as an express agent of Client under a written agency agreement approved by AllWest. In addition, Client agrees that AllWest shall not be required to sign any documents, no matter requested by whom, that would have the effect of AllWest providing any form of certification, guarantee, or warranty as to any matter or to opine on conditions for which the existence AllWest cannot ascertain. Client also agrees that it shall never seek or otherwise attempt to have AllWest provide any form of such certification, guarantee or warranty in exchange for resolution of any disputes between Client and AllWest, or as a condition precedent to making payment to AllWest for fees and costs owing under this Agreement.

Client understands and agrees that AllWest is not, and has no responsibility as, a generator, operator, treater, storer, transporter, arranger or disposer of hazardous or toxic substances found or identified at the site, including investigation-derived waste. The Client shall undertake and arrange for the removal, treatment, storage, disposal and/or treatment of hazardous material and investigation derived waste (such as drill cuttings) and further, assumes full responsibility for such wastes to the complete exclusion of any responsibility, duty or obligation upon AllWest. AllWest's responsibilities shall be limited to recommendations regarding such matters and assistance with appropriate arrangements if authorized by Client.

#### FORCE MAJUERE

7. Neither party shall be responsible for damages or delays in performance under this Agreement caused by acts of God, strikes, lockouts, accidents or other events or condition (other than financial inability ) beyond the other Party's reasonable control.

#### TERMINATION

8. This Agreement may be terminated by either party upon ten (10) days' written notice should the other party substantially fail to perform in accordance with its duties and responsibilities as set forth in this Agreement and such failure to perform is through no fault of the party initiating the termination. Client agrees that if it chooses to terminate AllWest for convenience, and AllWest has otherwise satisfactorily performed its obligations under this Agreement to that point, AllWest shall be paid no less than eighty percent (80%) of the contract price, provided, however, that if AllWest shall have completed more than eighty percent of the Work at the time of said termination, AllWest shall be compensated as provided in the Work Authorization for all services performed prior to the termination date which fall within the scope of work described in the Work Authorization and may as well, at its sole discretion and in accordance with said Schedule of Fees, charge Client, and Client agrees to pay AllWest's reasonable costs and labor in winding up its files and removing equipment and other materials from the Project.

Upon notice of termination by Client to AllWest, AllWest may issue notice of such termination to other consultants, contractors, subcontractors and to governing agencies having jurisdiction over the Project, and take such other actions as are reasonably necessary in order to give notice that AllWest is no longer associated with the Project and to protect AllWest from claims of liability from the work of others.

#### DOCUMENTS

9. Any documents prepared by AllWest, including, but not limited to proposals, project specifications, drawings, calculations, plans and maps, and any ideas and designs incorporated therein, as well as any reproduction of the above are instruments of service and shall remain the property of AllWest and AllWest retains copyrights to these instruments of service. AllWest grants to Client a non-exclusive license to use these instruments of service for the purpose of completing and maintaining the Project. The Client shall be permitted to retain a copy of any instruments of service, but Client expressly agrees and acknowledges that the instruments of service may not be used by the Client on other projects, or for any other purpose, except the project for which they were prepared, unless Client first obtains a written agreement expanding the license to such use from AllWest, and with appropriate compensation to AllWest. Client further agrees that such instruments of service shall not be provided to any third parties without the express written permission of AllWest.

Client shall furnish, or cause to be furnished to AllWest all documents and information known to Client that relate to the identity, location, quantity, nature, or characteristics of any asbestos, PCBs, or any other hazardous materials or waste at, on or under the site. In addition, Client will furnish or cause to be furnished such reports, data, studies, plans, specifications, documents and other information on surface or subsurface site conditions, e.g., underground tanks, pipelines and buried utilities, required by AllWest for proper performance of its services. IF Client fails to provide AllWest with all hazardous material subject matter reports including geotechnical assessments in its possession during the period that AllWest is actively providing its services (including up to 30 days after its final invoice), Client shall release AllWest for may and all liability for risks and damages the Client incurs resulting from its reliance on AllWest's professional opinion. AllWest shall be entitled to rely upon Client - provided documents and information in performing the services required in this Agreement; however, AllWest assumes no responsibility or liability for the accuracy or completeness of Client-provided documents. Client-provided documents will remain the property of the Client.

#### ACCESS TO PROJECT

10. Client grants to AllWest the right of access and entry to the Project at all times necessary for AllWest to perform the Work. If Client is not the owner of the Project, then Client represents that Client has full authority to grant access and right of entry to AllWest for the purpose of AllWest's performance of the Work. This right of access and entry extends fully to any agents, employees, contractors or subcontractors of AllWest upon reasonable proof of association with AllWest. Client's failure to provide such timely access and permission shall constitute a material breach of this Agreement excusing AllWest from performance of its duties under this Agreement.

#### CONFIDENTIAL INFORMATION

11. Both Client and AllWest understand that in conjunction with AllWest's performance of the Work on the project, both Client and AllWest may receive or be exposed to Proprietary Information of the other. As used herein, the term "Proprietary Information" refers to any and all information of a confidential, proprietary or secret nature which may be either applicable to, or relate in any way to: (a) the personal, financial or other affairs of the business of each of the Parties, or (b) the

research and development or investigations of each of the Parties. Proprietary Information includes, for example and without limitation, trade secrets, processes, formulas, data, know-how, improvements, inventions, techniques, software technical data, developments, research projects, plans for future development, marketing plans and strategies. Each of the Parties agrees that all Proprietary Information of the other party is and shall remain exclusively the property of that other party. The parties further acknowledge that the Proprietary Information of the other party is a special, valuable and unique asset of that party, and each of the Parties agrees that at all times during the terms of this Agreement and thereafter to keep in confidence and trust all Proprietary Information of the other party before, during or after the term of this Agreement. Each of the Parties agrees not to sell, distribute, disclose or use in any other unauthorized manner the Proprietary Information of the other party. AllWest further agrees that it will not sell, distribute or disclose information or local statute, ordinance or regulation.

#### INDEPENDENT CONTRACTOR

12. Both Client and AllWest agree that AllWest is an independent contractor in the performance of the Work under this Agreement. All persons or parties employed by AllWest in connection with the Work are the agents, employees or subcontractors of AllWest and not of Client. Accordingly, AllWest shall be responsible for payment of all taxes arising out of AllWest's activities in performing the Work under this Agreement.

#### **ENTIRE AGREEMENT**

13. This Agreement contains the entire agreement between the Parties pertaining to the subject matter contained in it and supersedes and replaces in its entirety all prior and contemporaneous proposals, agreements, representations and understandings of the Parties. The Parties have carefully read and understand the contents of this Agreement and sign their names to the same as their own free act.

#### **INTEGRATION**

14. This is a fully integrated Agreement. The terms of this Agreement may be modified only by a writing signed by both Parties. The terms of this Agreement were fully negotiated by the Parties and shall not be construed for or against the Client or AllWest but shall be interpreted in accordance with the general meaning of the language in an effort to reach the intended result.

#### MODIFICATION / WAIVER / PARTIAL INVALIDITY

15. Failure on the part of either party to complain of any act or omission of the other, or to declare the other party in default, shall not constitute a waiver by such party of its rights hereunder. If any provision of this Agreement or its application be unenforceable to any extent, the Parties agree that the remainder of this Agreement shall not be affected and shall be enforced to the greatest extent permitted by law.

#### **INUREMENT / TITLES**

16. Subject to any restrictions on transfers, assignments and encumbrances set forth herein, this Agreement shall inure to the benefit of and be binding upon the undersigned Parties and their respective heirs, executors, legal representatives, successors and assigns. Paragraph titles or captions contained in this Agreement are inserted only as a matter of convenience, and for reference only, and in no way limit, define or extend the provisions of any paragraph. , et al., incurred in that action or proceeding, in addition to any other relief to which it or they may be entitled.

#### **AUTHORITY**

17. Each of the persons executing this Agreement on behalf of a corporation does hereby covenant and warrant that the corporation is duly authorized and existing under the laws of its respective state of incorporation, that the corporation has and is qualified to do business in its respective state of incorporation, that the corporation has the full right and authority to enter into this Agreement, and that each person signing on behalf of the corporation is authorized to do so. If the Client is a joint venture, limited liability company or a partnership, the signatories below warrant that said entity is properly and duly organized and existing under the laws of the state of its formation and pursuant to the organizational and operating document of the entity, and the laws of the state of its formation, said signatory has authority act on behalf of and commit the entity to this Agreement.

#### COUNTERPARTS

18. This Agreement may be signed in counterparts by each of the Parties hereto and, taken together, the signed counterparts shall constitute a single document.

#### THIRD PARTY BENEFICIARIES / CONTROLLING LAW

19. There are no intended third party beneficiaries of this Agreement. The services, data & opinions expressed by AllWest are for the sole use of the client, are for a particular project and may not be relied upon by anyone other than the client. This Agreement shall be controlled by the laws of the State of California and any action by either party to enforce this Agreement shall be brought in San Francisco County, California.

#### TIME BAR TO LEGAL ACTION

20. Any legal actions by either party against the other related to this Agreement, shall be barred after one year has passed from the time the claimant knew or should have known of its claim, and under no circumstances shall be initiated after two years have passed from the date by which AllWest completes its services.