October 15, 2015

Mr. Keith Nowell
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

I, Dhruv Patel hereby authorize ERAS Environmental, Inc. to submit the Limited Phase II Subsurface Investigation report in Oakland, California, dated October 15, 2015 to the Alameda County Health Care Services Agency.

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.

Signature: _____

Printed Name: Dhruv Patel

Mr. Dhruv Patel
510.407.0308
dhruv.balaji@gmail.com

ERAS Environmental, Inc.

1533 B Street

Hayward, CA 94541

Phone (510) 247-9885 Facsimile: (510) 886-5399

info@eras.biz

LIMITED PHASE II SUBSURFACE INVESTIGATION

AT

106-110 Hegenberger Road
Oakland, California

ERAS PROJECT NUMBER: 14-003-05

Prepared for

Mr. Dhruv Patel
Balaji Hotels
66 Airport Access Road
Oakland, CA 94603

October 15, 2015

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CERTIFICATION

This **Limited Phase II Subsurface Investigation** at 106-110 Hegenberger Road in Oakland, California, has been prepared by ERAS Environmental, Inc. (ERAS) under the supervision of the Registered Professional Geologist whose signature appears hereon.

This work plan was prepared in general accordance with the accepted standard of practice that exists in Northern California at the time the investigation was performed. Judgments leading to conclusions and recommendations are generally made with an incomplete knowledge of the conditions present. More extensive studies, including additional environmental investigations, can tend to reduce the inherent uncertainties associated with such studies.

Our firm has prepared this work plan for the Client's exclusive use for this particular project and in accordance with generally accepted professional practices within the area at the time of our investigation. No other representations, expressed or implied, and no warranty or guarantee is included or intended.

This work plan may be used only by the client and only for the purposes stated within a reasonable time from its issuance. Land use, site conditions (both on-site and off-site) or other factors may change over time, and additional work may be required with the passage of time. Any party other than the client who wishes to use this report shall notify ERAS of such intended use. Based on the intended use of report, ERAS may require that additional work be performed and that an updated report be issued. Non-compliance with any of these requirements by the client or anyone else will release ERAS from any liability resulting from the use of this report by any unauthorized party.

Sincerely,
ERAS Environmental, Inc.

Andrew Savage
Project Geologist

Curtis Payton
California Registered Professional Geologist 5608

October 15, 2015

1.0 INTRODUCTION

The following are the results of an investigation performed by ERAS which included the collection of soil, groundwater, and soil gas samples to characterize the lateral and vertical extent of contamination at a commercial site located at 106-110 Hegenberger Road in Oakland, California (the "Property"). The Property is an active site cleanup case under the jurisdiction of the Alameda County Health Care Services Agency (ACHCSA). The latest directive letter is included in **Appendix A**. The location of the Property is shown on **Figure 1**. The current layout of the Property is shown on **Figure 2**.

Subsurface investigations previously conducted on the Property have identified contamination including elevated concentrations of petroleum hydrocarbons quantified as gasoline, diesel and oil range organics (TPH-gro[1], TPH-dro, and TPH-oro), benzene, toluene, ethylbenzene, and xylenes (BTEX).

A work plan was prepared by ERAS outlining the proposed scope of work dated October 30, 2014 along with an addendum dated July 29, 2015. The work plans were approved by the Alameda County Environmental Health Care Services Agency (ACHCSA) on April 16, 2015 and August 20, 2015.

The Property is located on the southeast side of Hegenberger Road near the intersection of Hegenberger Road and Airport Access Road in the southern portion of the City of Oakland. The Property consists of an approximately 1.17-acre rectangular shaped parcel of land that is improved with an approximately 1,300-square foot one story commercial building and associated paved areas.

The Property is currently used for a parking lot and is planned to be redeveloped with a hotel. A copy of the Sample Location Map, **Figure 2** shows the proposed hotel layout. Most of the ground level will be occupied by parking beneath the structure. A lobby entrance with an elevator and a pool will be on the ground floor as well and will penetrate approximately 5 feet below ground surface in those areas.

1.1 BACKGROUND

Previous Investigations

The Property was once improved with a car wash building, USTs and associated pump islands/canopy, and a clarifier sump.

Subsurface investigations were conducted at the Property by West Coast Environmental in 1991, Dugan Associates in 1994 and BSK & Associates in 1997 and by Environmental Risk Assessors (ERA) in 2014. Soil borings were drilled on many areas of the Property including some near former USTs,

[1] TPH-gro, TPH-dro, and TPH-oro are methods that compare analytical results to standards for gasoline, diesel and motor oil, respectively. Therefore analytical results are estimates of quantities based on what would be expected for the range of hydrocarbon results for the standard. Gasoline range organics (gro) are those hydrocarbon compounds that are in the range of C6 to C10, diesel range organics (dro) are those hydrocarbon compounds that are in the range of C10 to C23, and oil range organics (oro) are those hydrocarbon compounds that are in the range of C18 to C36. There can be overlap in reporting methods as well as identification of compounds that fall within the standard that may not necessarily be derived from gasoline, diesel, or oil.

pump islands, and piping and near the sump. Other borings appear to have been drilled randomly near the central portion of the Property. Four groundwater monitoring wells were eventually installed at widely spaced locations at the Property and monitored several times.

The results of investigations indicated elevated concentrations of petroleum hydrocarbons in soil and groundwater, mostly in the area of the former clarifier sump. After monitoring of the groundwater several times between 1994 and 2000, the Alameda County Health Care Services Agency (ACHCSA) closed the case in 2001. The case closure indicated that concentrations of petroleum hydrocarbons, BTEX, and metals (lead, zinc, cadmium, and chromium) remained in soil on the Property. Although the case was closed in 2001, because of the change in use, additional investigation was necessary to further assess the risk to future construction workers and occupants of the proposed hotel.

ERA drilled borings around the sump in 2014 to collect soil vapor samples, two of the samples contained petroleum hydrocarbons above the published concentrations that indicate a risk to indoor air.

ERAS drilled 7 soil borings in 2014 to the southeast and southwest of the former clarifier sump. Elevated concentrations of petroleum hydrocarbons in soil samples were reported in borings (SB-6 and SB-7) near the clarifier sump on the southeast side where these were reported from earlier investigations. Elevated concentrations of benzene were reported in soil gas samples collected in close proximity to the southwest side of the sump.

Locations of the soil borings and former monitoring wells at the Property are shown on the aerial photograph included as **Figure 2**. The analytical results for soil, groundwater and vapor samples analyzed are compiled on **Tables 1-3**.

2.0 REGIONAL GEOLOGY/HYDROLOGY

The Property is in the southern part of the City of Oakland in the San Francisco Bay area. The San Francisco Bay area occupies a broad alluvial valley that slopes gently northward and is flanked by alluvial fans deposited at the foot of the Diablo Range to the east and the Santa Cruz Mountains to the west. Surface topography in the immediate vicinity of the Property is gently sloping down to the northwest towards Airport Channel.

The Property is at an elevation of approximately 10 feet above Mean Sea Level according to the United States Geological Survey (USGS) Oakland East Quadrangle California 7.5 Minute Series topographic map.

Materials underlying the site are unconsolidated deposits of near shore and beach sediments, deposited in Oakland Bay at higher sea level stands. At shallow depths beneath these sediments are chert, greywacke, serpentine and shale bedrock that are a part of the Cretaceous to Jurassic-aged Franciscan Formation. Bedrock is exposed to the east-northeast on the upland surfaces.

The subject site is located on the San Francisco Bay Plain in the northernmost part of the Santa Clara Valley Groundwater Basin, (DWR, 1967), the surface of which slopes gently down toward west.

The regional groundwater flow follows the topography, moving from areas of higher elevation to areas of lower elevation. The regional groundwater flow direction in the area of the Property is estimated to be toward the northwest toward the Oakland Outer Harbor.

Based on the groundwater monitoring conducted on the Property the groundwater flow direction has been determined to be to the southwest (BSK, 2000).

Based on lithologic logs prepared from borings on the Property the subsurface lithology consists of approximately 3 feet of fill underlain by 13 to 15 feet of silts and clays, which is underlain by silty sand and sands. In some borings on the Property a clayey sand unit was also observed between 10 and 12 feet below ground surface (bgs) which appeared to be moist to wet. The main groundwater zone was indicated by the previous consultants to be the silty sand and sand unit starting at a depth of approximately 18 feet bgs (BSK, 1998).

A shallower zone of groundwater has been reported by previous consultants. During this investigation, the shallower zone was only encountered in the borings located at the northwestern most side of the Property.

3.0 SITE CONCEPTUAL MODEL

3.1 HYDROGEOLOGIC SETTING

Shallow groundwater is located at roughly 18 feet bgs however a groundwater producing zone ("perched zone") may be present between 10 and 12 feet bgs. Groundwater monitoring has been conducted on the Property and the groundwater flow direction was determined to be to the southwest at a very low gradient.

The shallow water-bearing zone appears to be located in thin clayey sand, sand, and silty sand units interbedded with clay. Groundwater is generally under water-table conditions, but may be locally confined by clay in the upper portion of the water-bearing zone. The base of the shallow water bearing zone has not been determined.

The distribution of contaminants in groundwater indicates low and potentially variable groundwater flow direction. Contamination under these circumstances tends to remain near its source and spreads out in a "bulls-eye" pattern.

A summary of the site conceptual model for the Property is included as **Table 4**.

3.2 PREVIOUSLY KNOWN EXTENT OF CONTAMINATION

Petroleum hydrocarbons are present in elevated concentrations in soil and groundwater to the southeast and southwest of the former clarifier sump (ERAS, 2014). Elevated concentrations of petroleum hydrocarbons were also found to be present in soil gas in this area (ERA, 2014).

Prior to this current investigation, the extent of petroleum hydrocarbons in soil was not known on the north and northwest sides of the clarifier sump. In addition the complete impact to groundwater was not known. Petroleum hydrocarbons in shallow soil near the former clarifier sump have caused elevated concentrations of soil vapor near the sump area.

Based on the known extent of contamination, data gaps that were identified for the Property included the following.

1) the gap in characterization of the extent of petroleum hydrocarbons in soil and groundwater to the northeast of the former sump

2) the presence of soil, groundwater and vapor contamination in two areas where the proposed hotel improvements will be beneath the ground surface (a proposed pool and an elevator shaft).

4.0 FIELD WORK PERFORMED

4.1 OBJECTIVES

The objectives of this investigation were to characterize the extent of hydrocarbon contamination in soil and groundwater in the area of the former clarifier sump. Two locations that will extend below the proposed building slab were also investigated for the presence of contaminants.

The results of the investigation were to be used to assess the degree of risk that exists in the subsurface environment and, if the risk is acceptable, to recommend no further action at the Property.

4.2 FIELD WORK

Five borings (B-1 through B-5) were advanced using a direct push sample rig by ESA from Aptos on May 5, 2015 and another four borings (B-6 through B-9) were drilled on May 6, 2015 to approximately 20 to 24 feet in the vicinity of the sump area in an attempt to vertically and horizontally characterize the extent of the contamination.

On September 3 and 4, 2015 nine additional borings were drilled that included 5 borings (B-10 through B-14) to the northeast of the former sump. Two borings (B-15 and SV-15) were drilled in the proposed elevator area and two borings (B-16 and SV-16) were drilled in the proposed pool area. The two borings drilled for collection of soil vapor samples were drilled to a depth of approximately 5 feet. When the vapor samples were collected, water was observed to have been introduced into the vapor sample containers and sampling equipment due to shallow groundwater which rendered the samples inadequate for analysis. On September 10, 2015, two soil gas samples were collected from a depth of approximately 3 feet to collect vapor samples. The samples were collected in Summa canisters supplied by K-Prime, a state certified laboratory in Santa Rosa, California.

Borings B-8, B-9, B-15, SV-15, B-16 and SV-16 were drilled near the north corner of the Property (see **Figure 3**). Borings B-1 through B-7 and B-10 through B-14 were drilled near the former sump near the middle of the Property (see **Figure 5**).

Soil was continuously cored for lithologic logging and monitored using an organic vapor meter (OVM) for indications of VOC contamination. The soil cores were logged by ERAS geologist Andrew Savage. The Standard Operating Procedures for soils and groundwater sampling with hydraulic push and soil vapor sampling are included in **Appendix C**. The soil and groundwater samples were kept chilled pending transport under chain-of-custody procedures to McCampbell Analytical, a California certified environmental analytical laboratory.

The subsurface vadose zone lithology encountered consisted of silty clay, clayey silt, and silty sand to the base of the boring. Groundwater was encountered in silt and silt stringers in borings B-1, B-2, and B-3, B-6 and B-7 between 13.0 and 14.5 feet bgs and at 17 to 20.0 feet bgs in borings B-4, B-5, B-8, B-9, B-10, B-11, B-12, B-13, B-14 and B-15. Details of subsurface conditions are provided on the soil boring logs in **Appendix D**.

The soil and groundwater samples were analyzed for the presence of TPH-gro, TPH-dro, TPH-oro,

BTEX, MTBE, and LUFT 5 metals (cadmium, chromium, nickel, lead, zinc). Test were conducted using EPA methods TPH-gro, BTEX, and MTBE by EPA method 8260, TPH-dro, and TPH-oro by EPA method 8015, and LUFT 5 by EPA method 6020.

The soil vapor samples SV-15 and SV-16 were analyzed for the presence of BTEX, and the leak detection compound 1,1-difluoroethane using EPA method TO-15.

4.3 ANALYTICAL RESULTS and EXTENT OF CONTAMINATION

Groundwater and soil samples were collected from each boring B-1 through B-16, soil vapor samples were collected from SV-15 and SV-16.

Soil

All soil samples collected by ERAS were analyzed by McCampbell Analytical of Pittsburg. Soil samples were collected and submitted from multiple depths based on OVM readings, odor, and discoloration. The results of the soil sample analyses are presented in a **Table 1** and the analytical laboratory report is included in **Appendix E**.

The lateral and vertical distribution of TPH-gro and benzene in soil near the northwestern side of the Property is shown on **Figures 3 and 4**. These contaminants are restricted to a small area at a depth of approximately 3-5 feet very close to the northern corner of the Property and Hegenberger Road. An isoconcentration contour for benzene above the Regional Water Quality Control Board Environmental Screening Level (ESL) at 3-5 feet indicates the estimated distribution of benzene in soil is minor and restricted to that depth interval as the deeper interval did not contain detectable contamination.

The distribution of TPH-gro and benzene in soil at various depths are shown on Drawings **5, 6 and 7**. Isoconcentration contours for benzene indicate the benzene in soil above the ESL is restricted to the top 10 feet except in a small area around B-3. The recent investigation has defined the vertical and lateral extent of TPH-gro and benzene in soil.

Groundwater

All groundwater samples collected by ERAS were analyzed by McCampbell Analytical of Pittsburg, California. Groundwater samples were collected from each boring B-1 through B-16. The results of the groundwater analysis are summarized in **Table 2**.

The distribution of TPH-gro, TPH-dro, TPH-oro and benzene in groundwater near the northwestern side of the Property is shown on **Figure 8** and indicate contamination is present in shallow groundwater in B-8 but not in deeper groundwater and not in shallow or deep groundwater in the other borings drilled in this area by ERAS. The recent investigation has indicated the extent of TPH-gro and benzene in groundwater is limited in this area.

For the sump area, the distribution of TPH-gro, TPH-dro, TPH-oro and benzene in groundwater is illustrated on **Figures 9, 10, 11 and 12**, respectively. The extent of these contaminants has been defined at the Property.

Soil Vapor

The soil vapor samples collected from borings SV-15, and SV-16 by ERAS were analyzed by K Prime of Santa Rosa. The results of the soil vapor analysis are presented in Table 3.

No detectable concentrations of contaminants were found in the samples collected by ERAS near the northwestern side of the Property. Elevated concentrations of contaminants in soil gas are found near the former sump that are likely associated with the contaminants in soil and groundwater in that area. Some of the contamination will be removed during construction activities as described below in Future Proposed Work.

5.0 SENSITIVE RECEPTOR SURVEY

ERAS requested the location of groundwater wells from the Alameda County Public Works and the California Department of Water Resources. A total of 3 groundwater production wells were identified and the locations of these wells are shown on **Figure 13**.

Two of the wells identified are located almost 2,000 feet away across San Leandro Creek. Another well is also about 2000 feet from the Property. All of these wells are located in a direction up-gradient from the Property. Based on the extent of contamination and groundwater gradient, there is not a threat to these wells by contamination from the Property.

6.0 LOW RISK CASE CLOSURE

The following criteria should be met for a site to qualify for closure per RWQCB's *Interim Guidance on Required Cleanup at Low-Risk Sites*.

- The leak has been stopped and ongoing sources including free product, have been removed or remediated;
- The site has been adequately characterized;
- The dissolved plume is not migrating;
- No groundwater impact currently exists, no contaminant are found at levels above the established MCLs or other water quality objectives;
- No water wells, deeper drinking water aquifers, surface water, or other sensitive receptors are likely to be impacted; and
- The site presents no significant risk to human health or the environment.

Leak Has Been Stopped and Ongoing Sources Have Been Removed

Investigations have identified soil, groundwater and soil vapor contamination mostly resulting from a former sump. Operations which were on the Property are closed and no new sources of petroleum hydrocarbons are present. During site redevelopment the majority of contaminated soil in the area to be developed that will result in excavation will be removed, further decreasing the source of contamination.

Site is Adequately Characterized

As discussed above, VOC's remain in the soil, groundwater and soil vapor beneath the Property and are adequately characterized. The vertical and lateral extent of the contamination has been characterized to the extent necessary to reasonably draw conclusions regarding the risks to human and ecological receptors.

Dissolved Plume is Not Migrating

The contaminants associated with the Property have been adequately chacterized, and have been determined to be limited in extent and confined to the Property, even after 24 years since initial characterization of releases from the sources began.

No Water Wells or Other Sensitive Receptors Are Threatened

The San Leandro Creek is located approximately 860 feet to the northeast of the Property. The area of the Property is one of the flatter topographic areas of the San Francisco Bay Area and there may not be a well-developed dominant flow direction. Contamination in groundwater under these conditions is not likely to flow long distances but rather remains near its source.

Alameda County Public Works (ACPW) performed a well survey as part of this investigation. ACPW identified three irrigation wells within 2,000 feet of the Property. However contamination associated with the Property is limited in extent, and does not pose a risk as the vertical and lateral extent of

the contamination has been determined. Based on this contamination beneath the Property is unlikely to affect any known sensitive receptors.

Site Presents No Significant Risk

The data for soil, groundwater, and soil gas at the Property is fairly comprehensive and was used to determine risk to commercial workers. The residual contamination will be properly handled, disposed and managed through the use of a Site Management Plan and Health and Safety Plan.

7.0 FUTURE PROPOSED WORK

The following are future anticipated tasks for the Property.

- Prepare a Site Management Plan detailing the proper handling and disposal of residual contaminated soil and groundwater. The SMP will include instructions for excavation of contaminated soil at the time of the hotel construction

- Prepare a Health and Safety Plan for the soil removal during initial stages of Property redevelopment

- Prepare Case Closure Documentation in association with the ACHCSA

- Prepare Land Use Covenant (LUC) or Deed Restriction in association with the ACHCSA

8.0 CONCLUSIONS

The Property consists of a rectangular vacant lot that is planned to be redeveloped with a three story hotel building. Except for a pool and elevator the ground floor will be constructed above ground and will be used for parking underneath the hotel building.

Subsurface investigation conducted by ERAS in 2015 have determined the vertical and lateral extent of petroleum hydrocarbons in soil, groundwater, and soil vapor in two areas at the Property. The vast majority of residual contamination is located in the immediate vicinity of a former sump near the middle of the Property. Residual contaminated soil to a depth of approximately 10 feet will be removed during the earliest stages of hotel construction following the instruction in a Site Management Plan and Health and Safety Plan.

The Property meets the criteria for Low Threat Case Closure based on RWQCB guidance. A Deed Restriction will be recorded to document the location and extent of residual contamination and to restrict the use to the proposed hotel use.

9.0 REFERENCES

Alameda County Environmental Health Department, Remedial Action Completion Certification, Diablo Cellular, 106-110 Hegenberger Road, Oakland, California, February 8, 2001.

BSK, Soil Vapor Survey and Tier 3 Risk Assessment, Former Clarifier Sump, 106-110 Hegenberger Road, Oakland, California, December 3, 1998.

BSK, Groundwater Sampling and Analysis, 106-110 Hegenberger Road, Oakland, California, July 5, 2000.

California Department of Water Resources, Evaluation of Ground Water Resources South Bay, Appendix A: Geology, Bulletin 118-1, August 1967.

California Regional Water Quality Control Board, Water Quality Control Plan, San Francisco Bay Basin Region (2), December 1986.

California Regional Water Quality Control Board, Screening of Environmental Concerns at Sites with Contaminated Soil and Groundwater, December 2013.

ERA/Basics, Limited Phase II Environmental Site Assessment, 106-110 Hegenberger Road, Oakland, California, August 27, 2014.

ERAS Environmental, Inc., Work Plan for Limited Phase II Subsurface Investigation, 106-110 Hegenberger Road, Oakland, California, October 30, 2014.

ERAS Environmental Inc., Addendum to Work Plan for Additional Soil and Groundwater Investigation and Remediation Planning, 110 Hegenberger Road, Oakland, California. July 29, 2015.

Goldman, Harold B., Geology of San Francisco Bay prepared for San Francisco Bay Conservation and Development Commission, February 1967.

Helley, E.J., La Joie, K.R., Spangle, W.E., and Blair, M.L., Flatland Deposits of the San Francisco Bay Region, California - their geology and engineering properties and their importance to comprehensive planning, U.S. Geological Survey Professional Paper 943, 1974.

FIGURES

Legend

— Site (boundaries approximate)

North

Site Location Map

LIMITED PHASE II ENVIRONMENTAL SITE ASSESSMENT

106 - 110 Hegenberger Road, Oakland, California

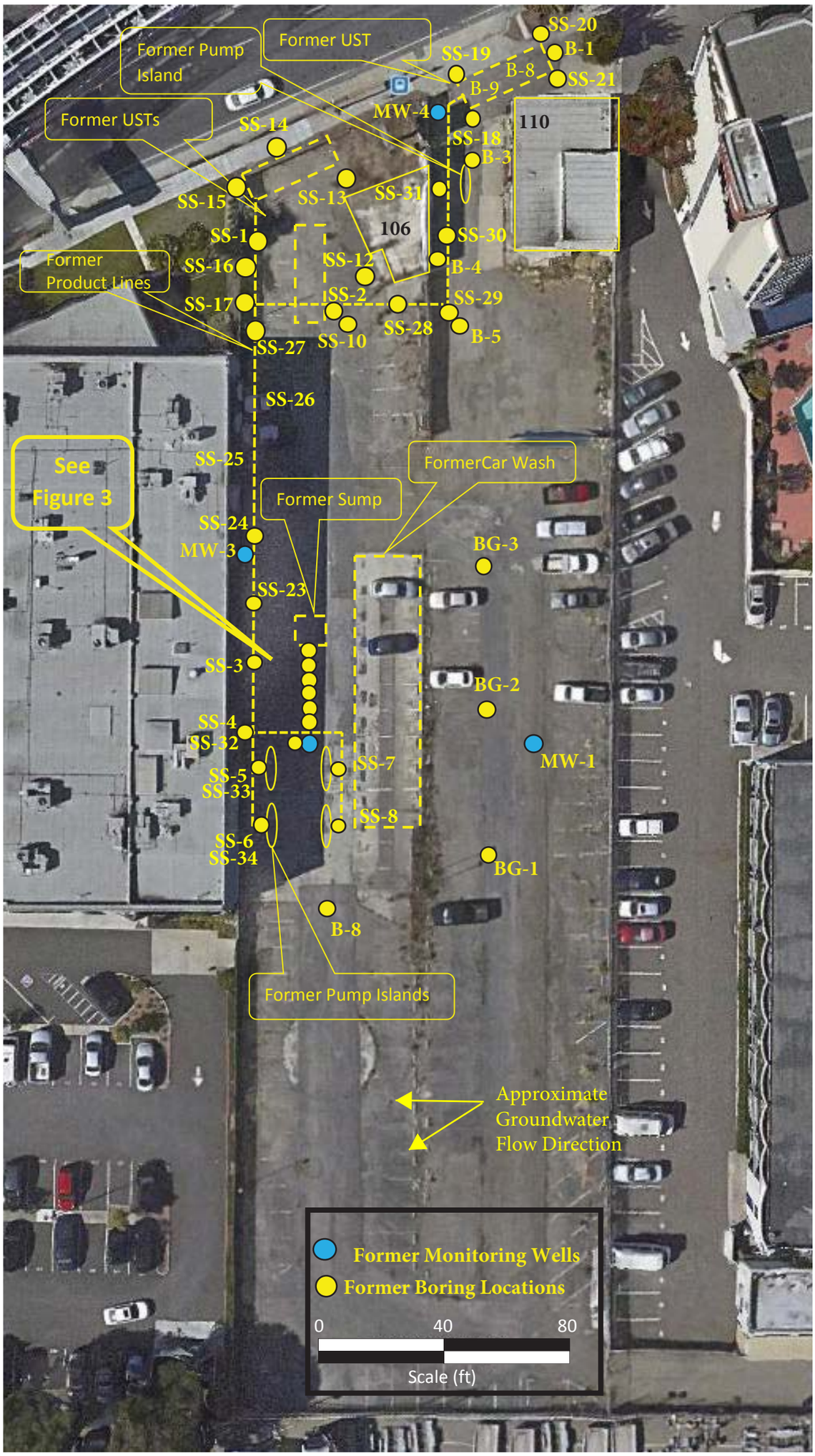
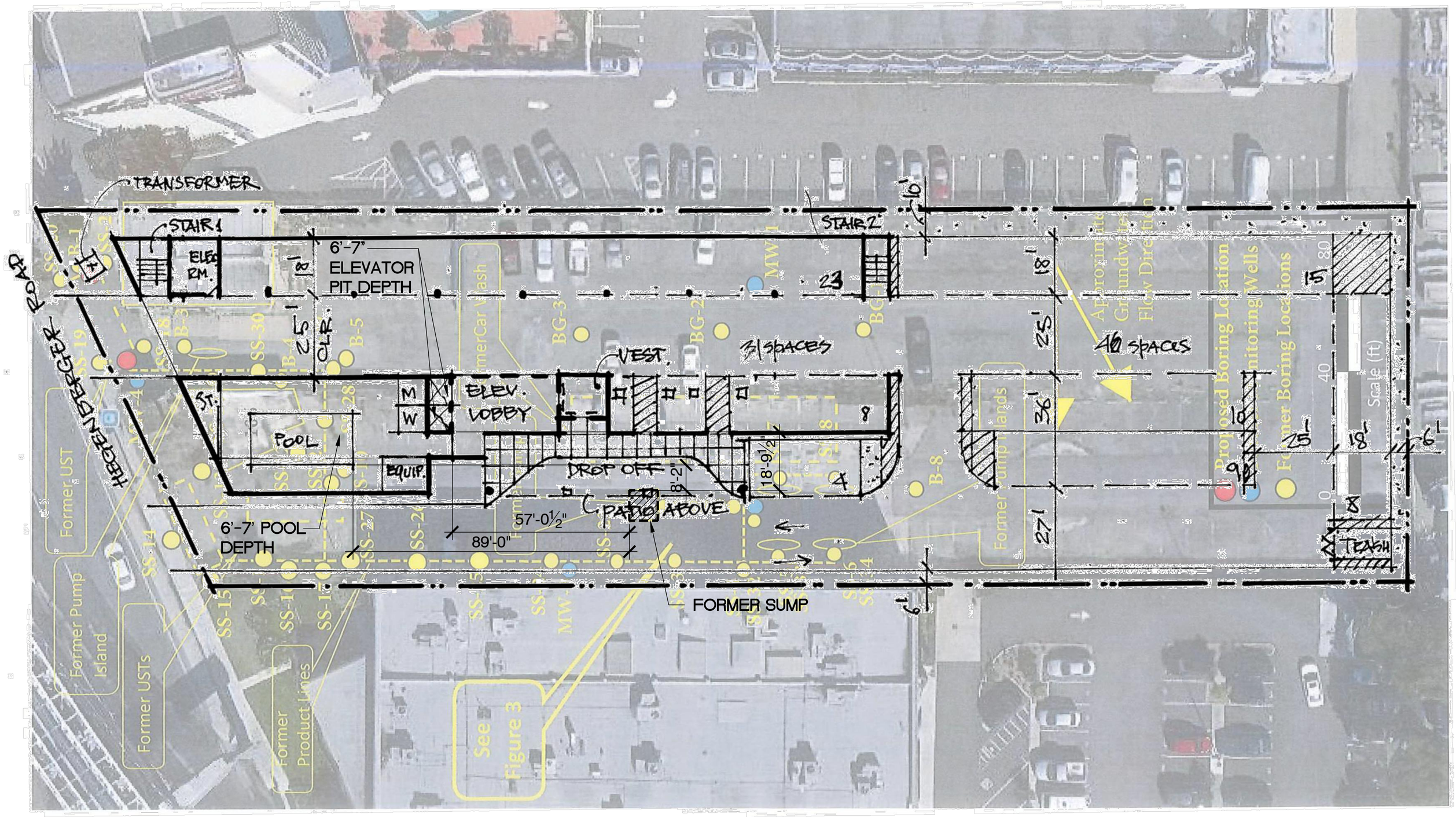


FIGURE 2 – SAMPLE LOCATION MAP

106-110 Hegenberger Road Oakland, CA
ERAS Project Number 14-003-02



0' 20' 40' 80'

FIGURE 2 – SAMPLE LOCATION MAP

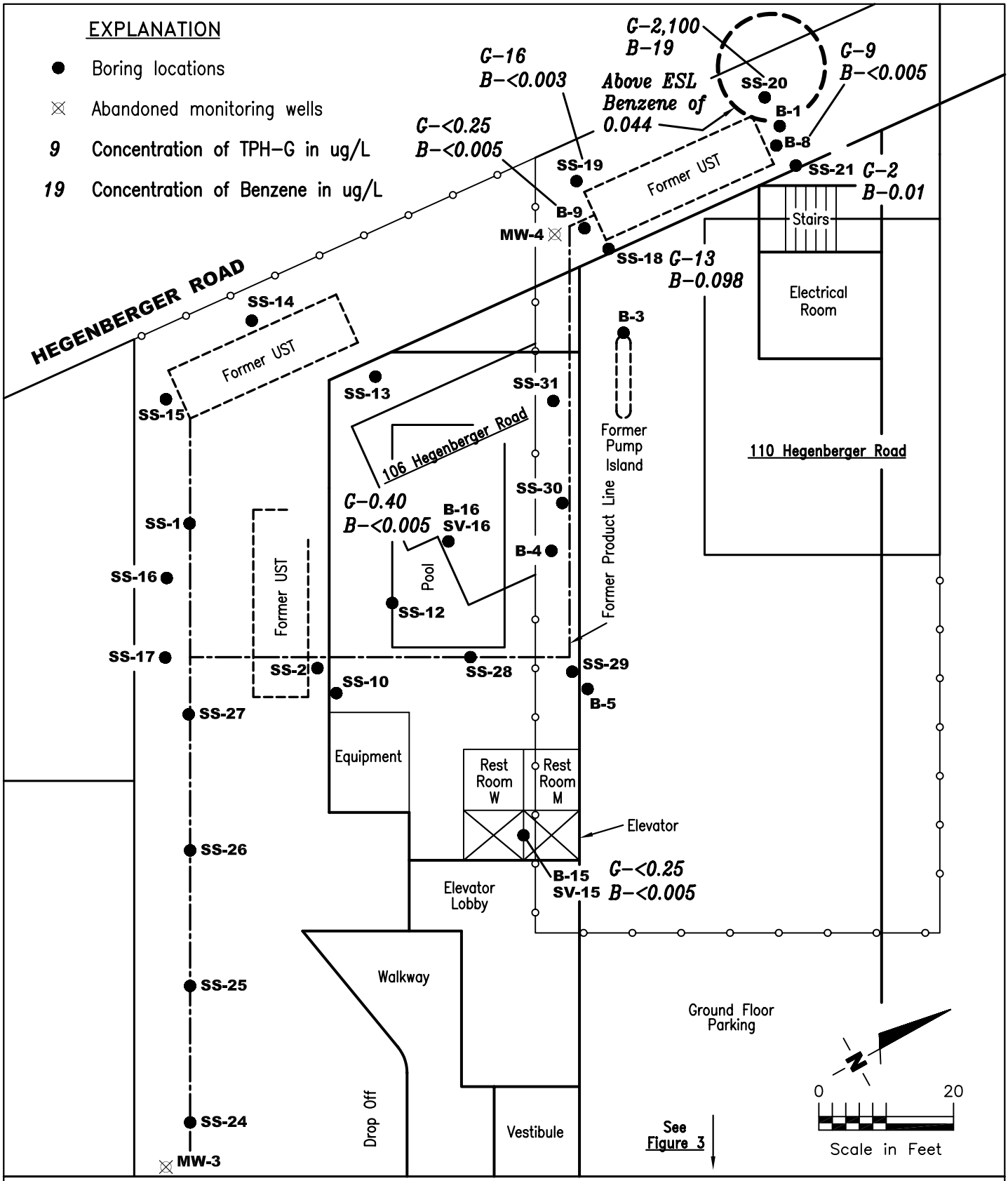
106-110 Hegenberger Road Oakland, CA
ERAS Project Number 14-003-02

ARCHITECTURAL DIMENSIONS
300 Frank H. Ogawa Plaza
Oakland, CA 94612
TEL. 510.463.8300 • FAX. 510.463.8395

PROJECT INFO.

Home 2 Suites by Hilton
110 HEGENBERGER ROAD, OAKLAND CA

JOB NO. RP004
DATE. 07/08/15
DRAWING NO. X-9

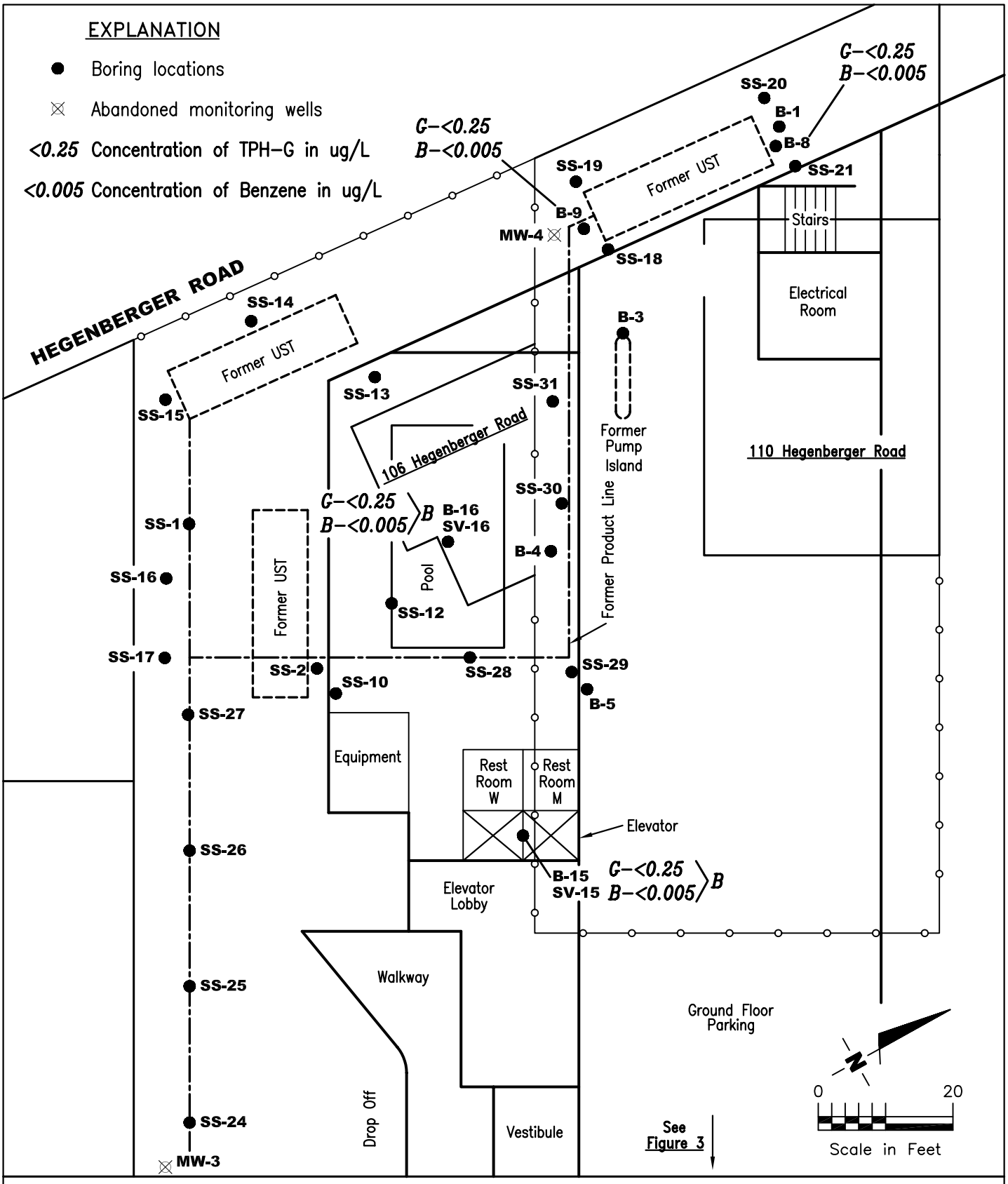


DISTRIBUTION of TPHgro & BENZENE in SOIL 3'-5'

DATE		JOB NUMBER
09-15	106-110 Hegenberger Road Oakland, California	14-003-05
REVIEWED BY AS		FIGURE 3

ERAS Environmental Inc.

ERAS 09-20-15 TPHgro-Ben 3'-5'.dwg

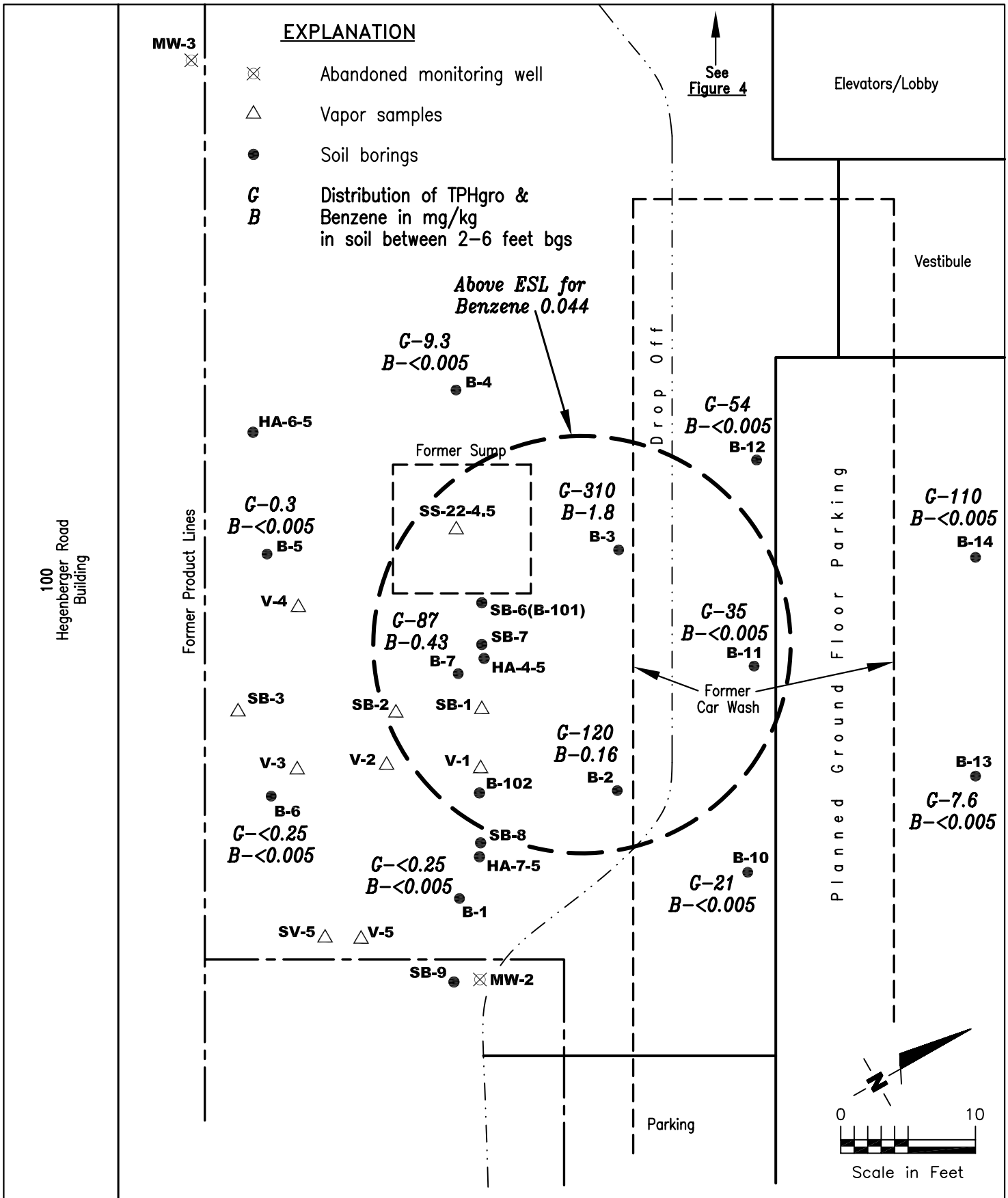


DISTRIBUTION of TPHgro & BENZENE in SOIL 7'-12'

DATE		JOB NUMBER
09-15	106-110 Hegenberger Road Oakland, California	14-003-05
REVIEWED BY		FIGURE
AS		4

ERAS Environmental Inc.

ERAS 09-20-15 TPHgro-Ben 7'-12'.dwg

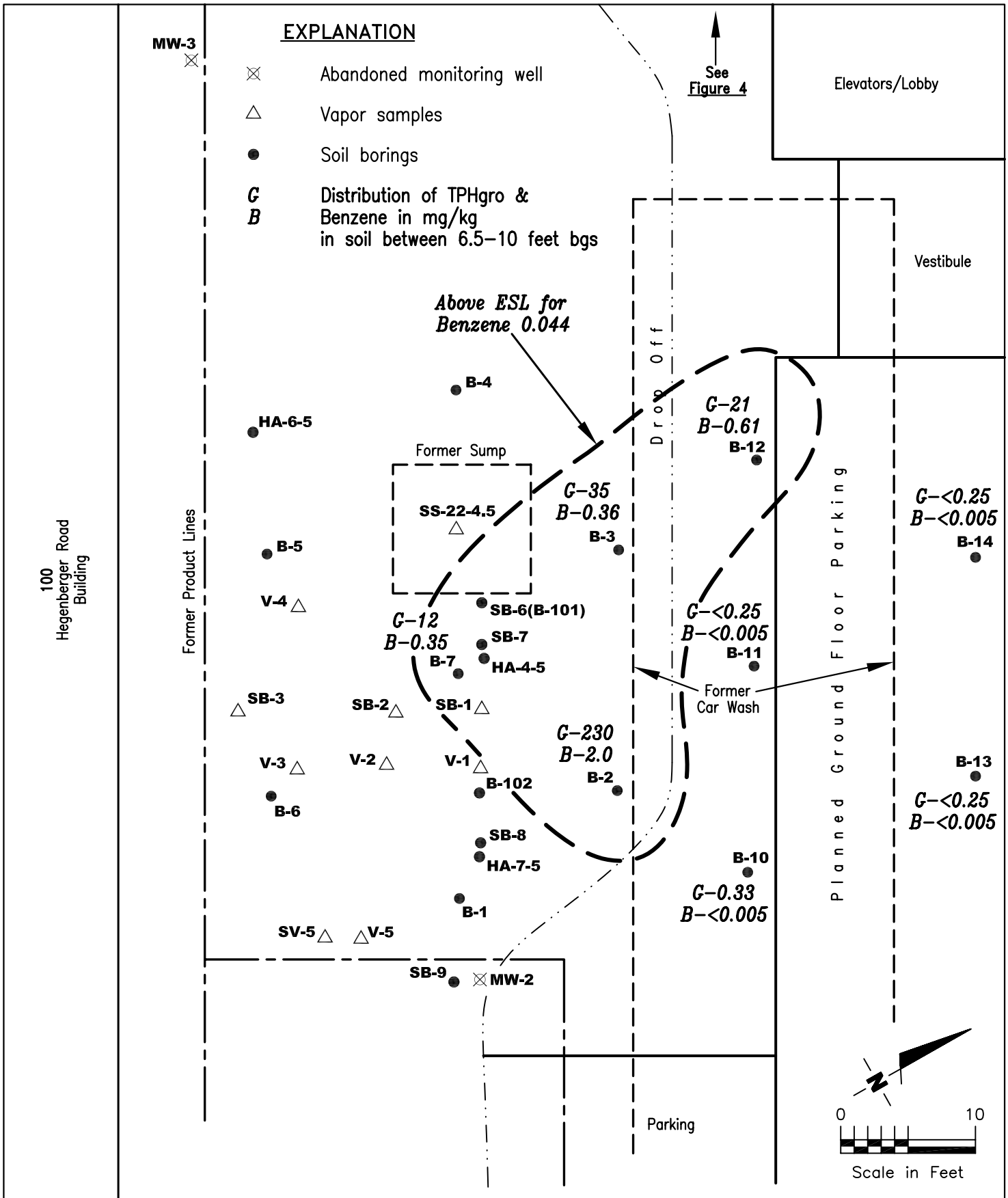


DISTRIBUTION of TPHgro & BENZENE in SOIL - 2'-6' bgs

DATE 09–15 REVIEWED BY AS	106–110 Hegenberger Road Oakland, California	JOB NUMBER 14–003–05 FIGURE 5

ERAS Environmental Inc.

ERAS 09-21-15 TPGg-B 2'-6'.dwg

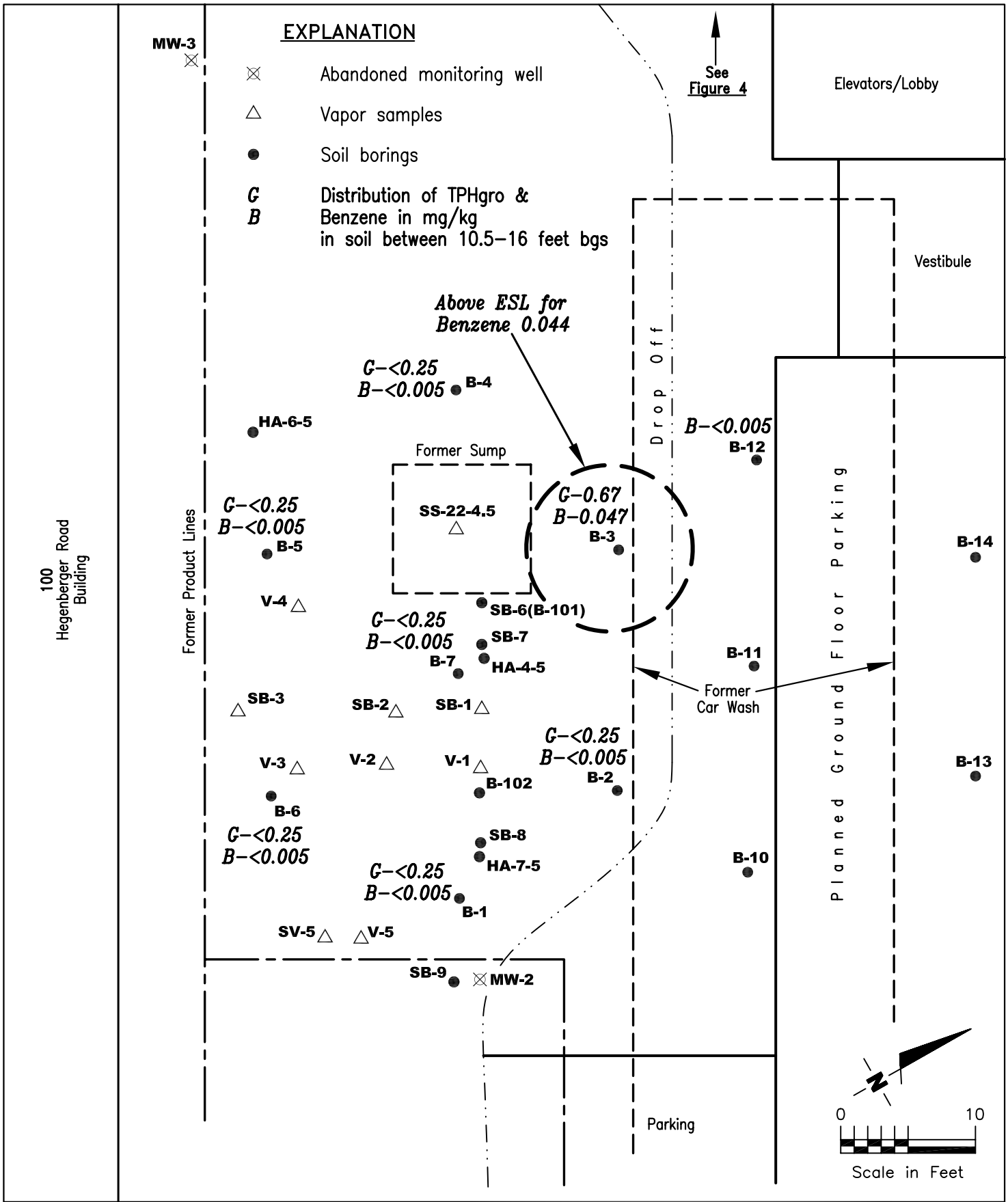


DISTRIBUTION of TPHgro & BENZENE in SOIL - 6.5'-10' bgs

DATE 09–15 REVIEWED BY AS	106–110 Hegenberger Road Oakland, California	JOB NUMBER 14–003–05 FIGURE 6

ERAS Environmental Inc.

ERAS 09-21-15 TPGg-B 6.5'-10'.dwg

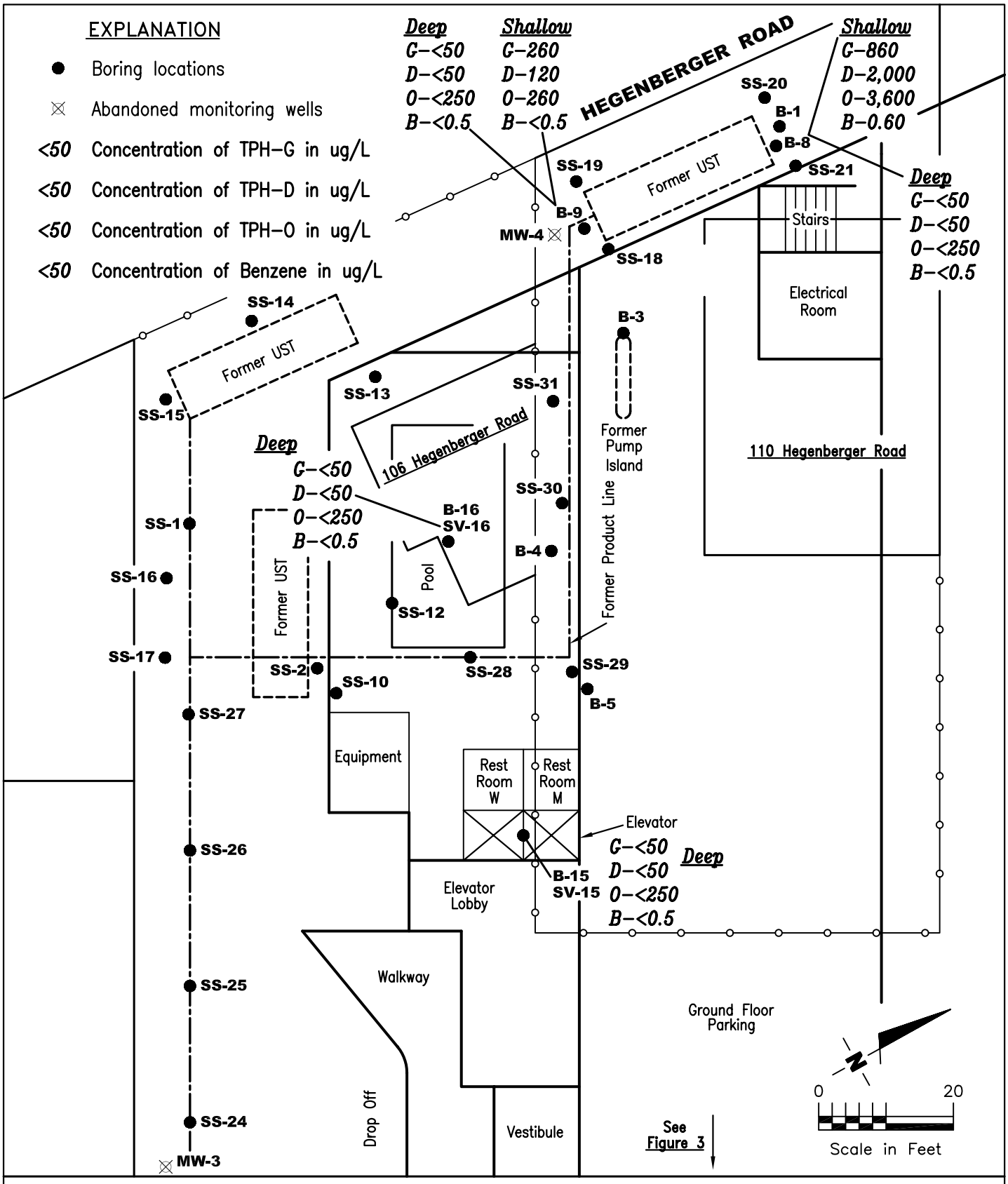


DISTRIBUTION of TPHgro & BENZENE in SOIL - 10.5'-16' bgs

DATE		JOB NUMBER
09–15	–	14–003–05
REVIEWED BY	106–110 Hegenberger Road Oakland, California	FIGURE
AS		7

ERAS Environmental Inc.

ERAS 09-21-15 TPGg-B 10.5'-16'.dwg

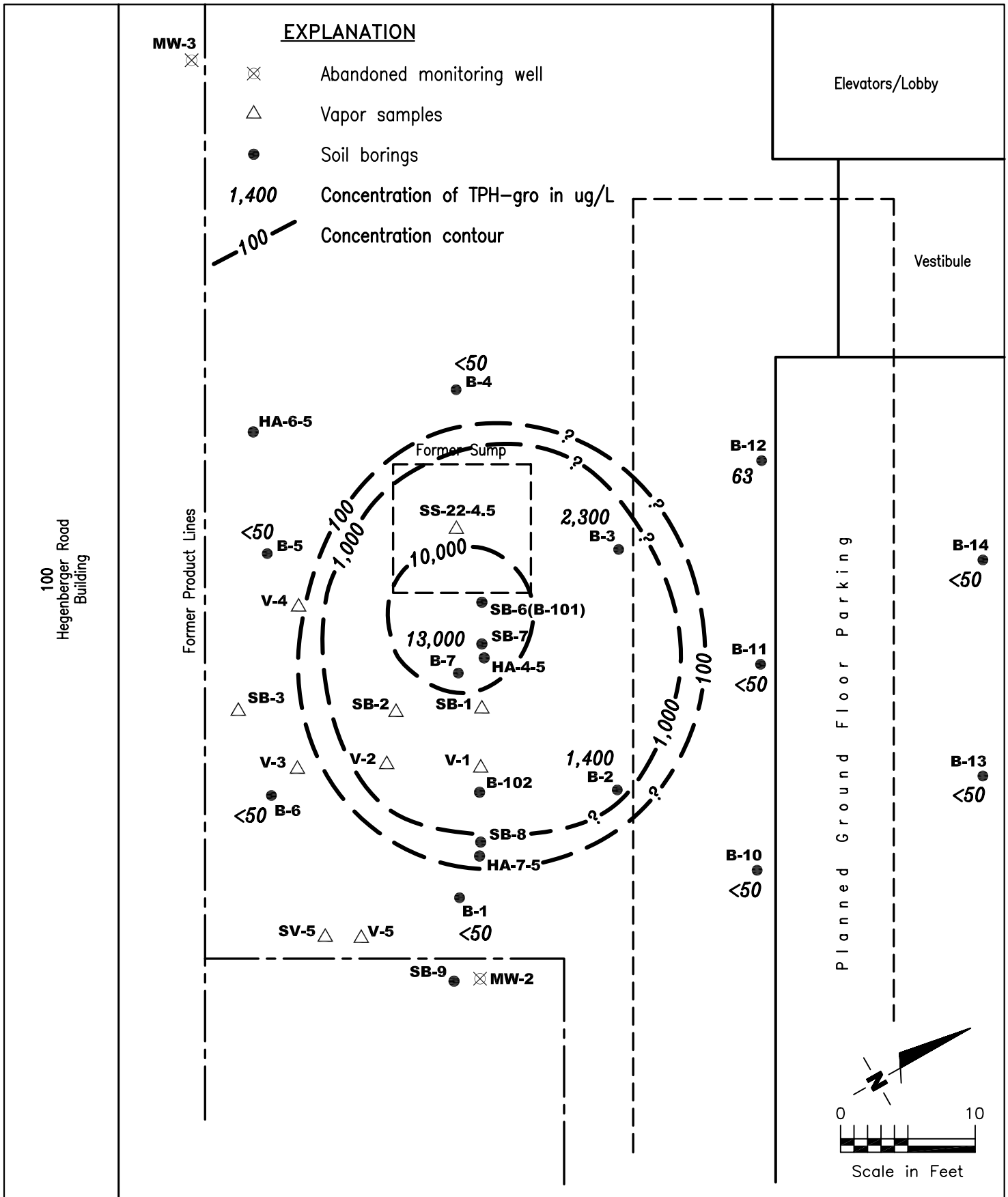


DISTRIBUTION of TPH-G, TPH-D, TPH-O & BENZENE in GROUNDWATER

DATE 09-15 REVIEWED BY AS	106-110 Hegenberger Road Oakland, California	JOB NUMBER 14-003-05 FIGURE 8

ERAS Environmental Inc.

ERAS 09-20-15 TPHG,D,O&Ben in GW.dwg

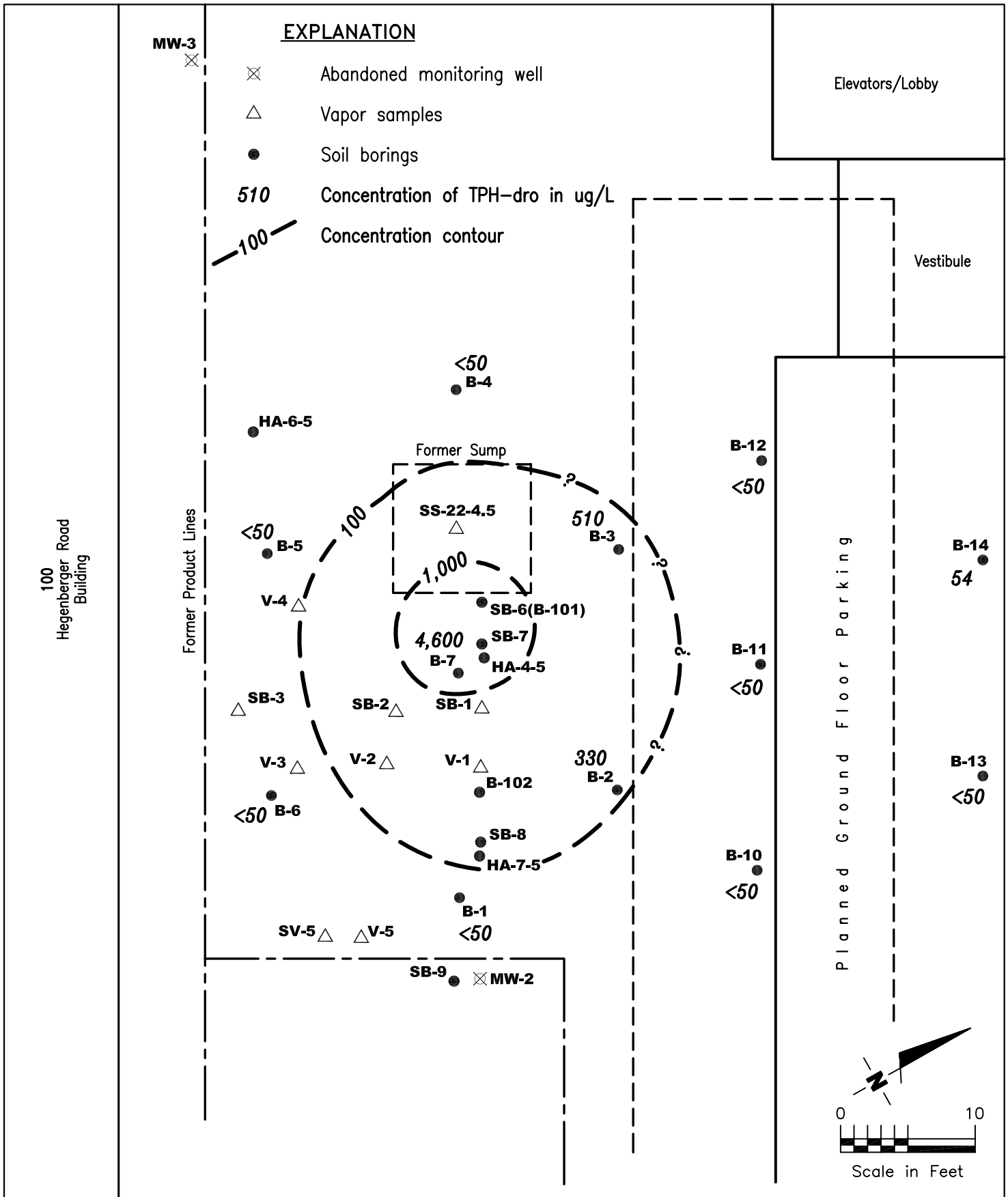


DISTRIBUTION of TPH-gro in GROUNDWATER

DATE 09-15 REVIEWED BY AS	106-110 Hegenberger Road Oakland, California	JOB NUMBER 14-003-05 FIGURE 9

ERAS Environmental Inc.

ERAS 09-21-15 TPHgro in GW.dwg



DISTRIBUTION of TPH-dro in GROUNDWATER

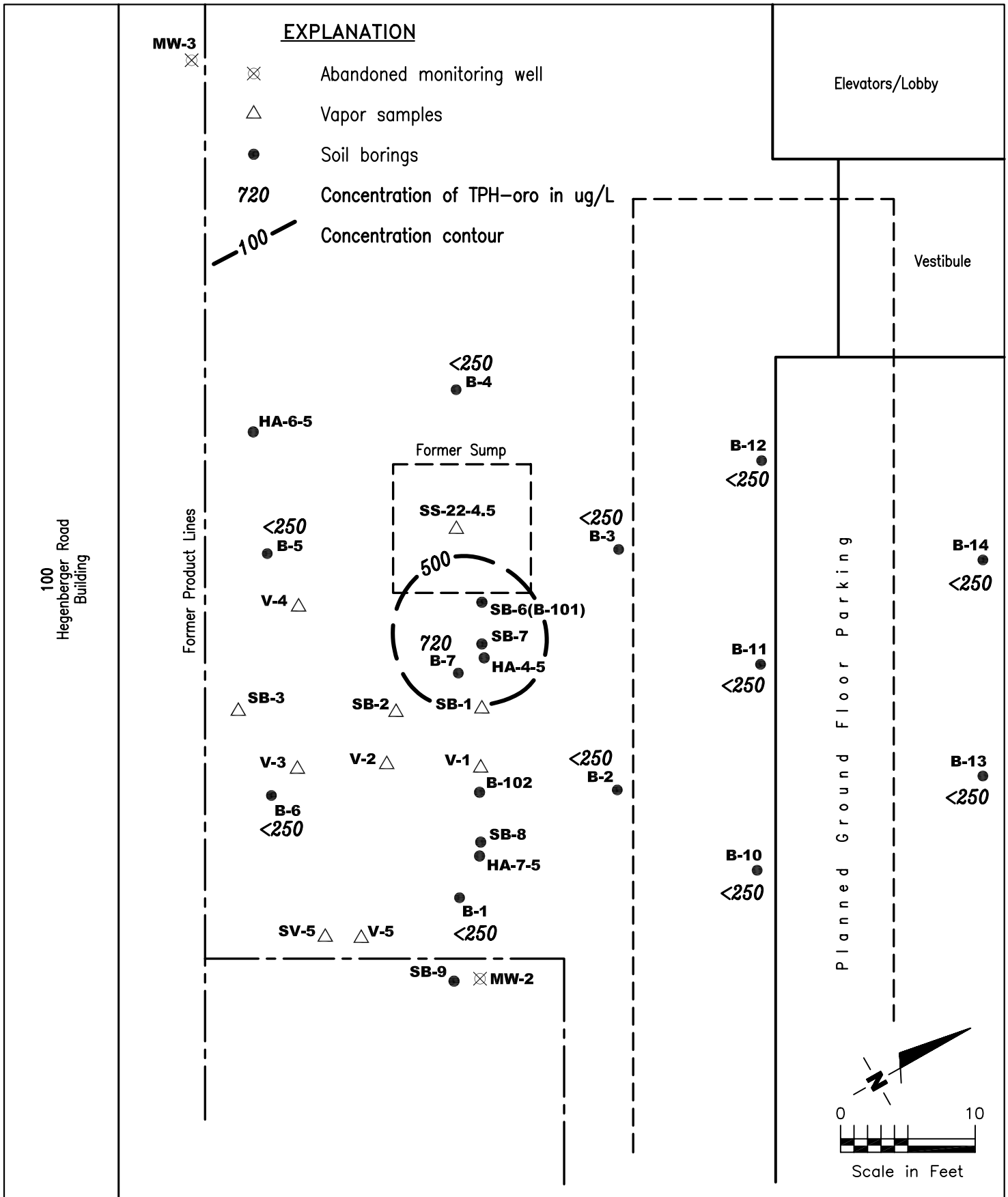
DATE
09–15
REVIEWED BY
AS

106–110 Hegenberger Road
Oakland, California

JOB NUMBER
14–003–05
FIGURE
10

ERAS Environmental Inc.

ERAS 09-21-15 TPHdro in GW.dwg



DISTRIBUTION of TPH-oro in GROUNDWATER

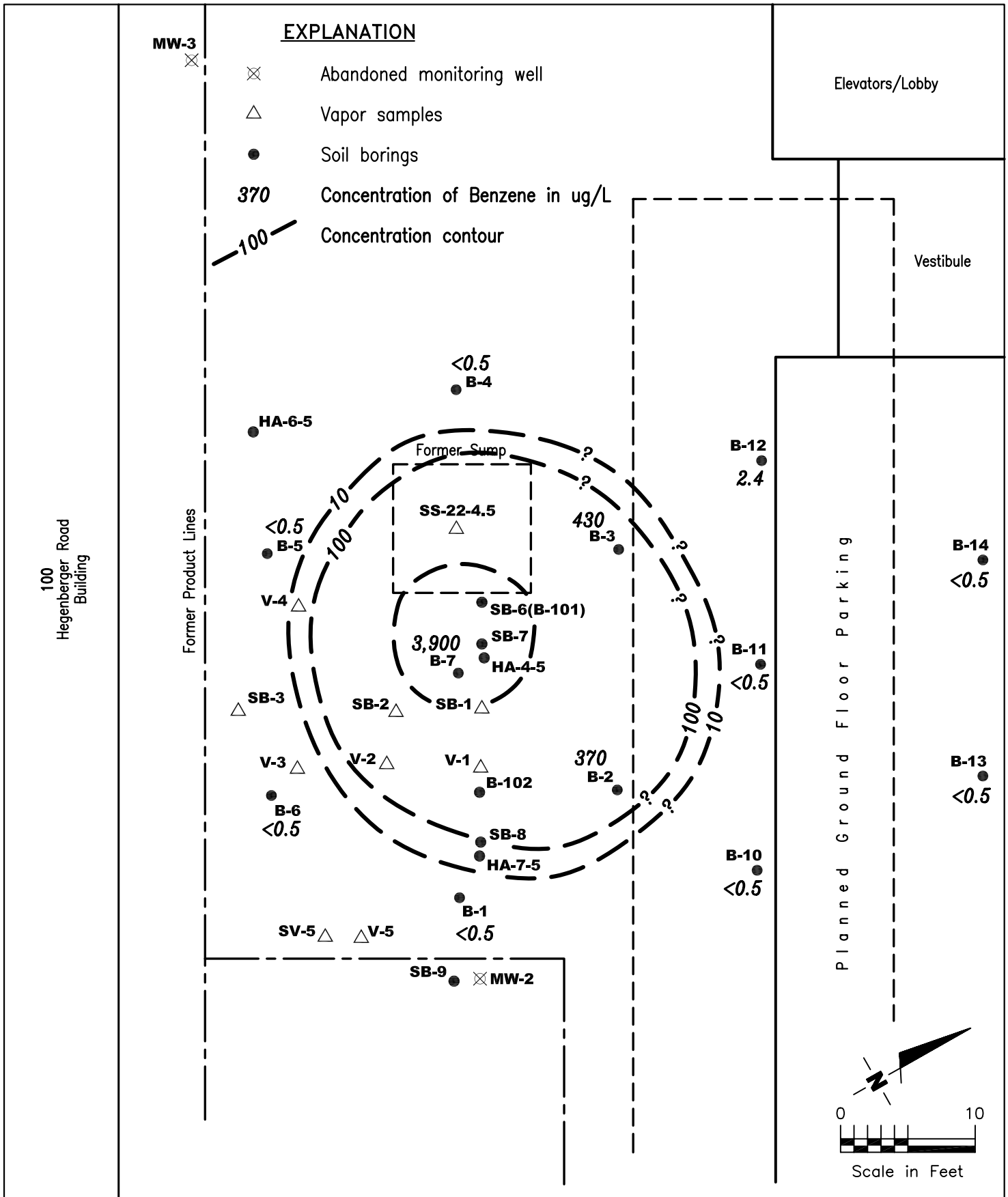
DATE
09-15
REVIEWED BY
AS

106-110 Hegenberger Road
Oakland, California

JOB NUMBER
14-003-05
FIGURE
11

ERAS Environmental Inc.

ERAS 09-21-15 TPHoro in GW.dwg



DISTRIBUTION of BENZENE in GROUNDWATER

DATE 09–15	–	JOB NUMBER 14–003–05
REVIEWED BY AS	106–110 Hegenberger Road Oakland, California	FIGURE 12

ERAS Environmental Inc.

ERAS 09-20-15 BEN in GW.dwg

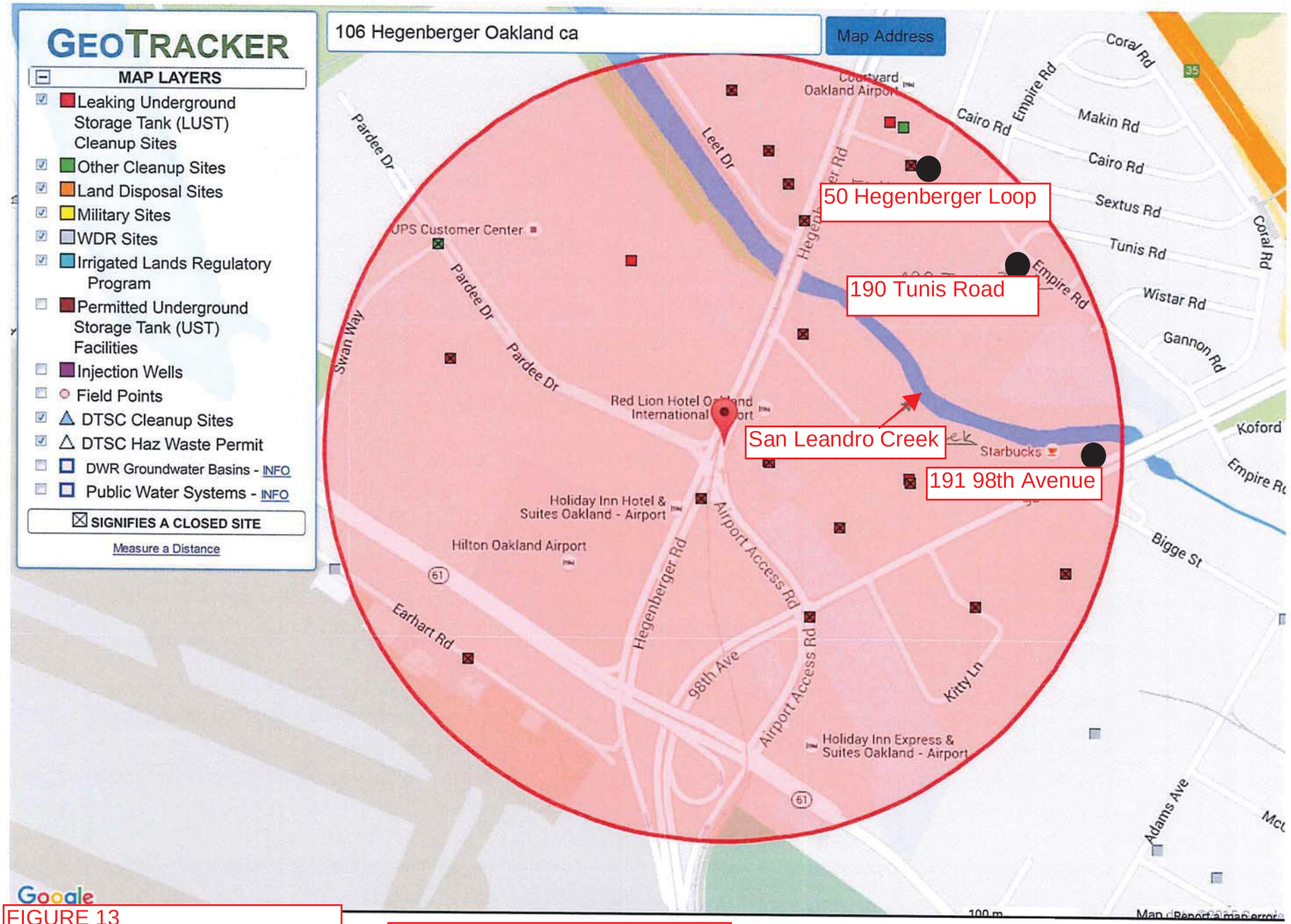


FIGURE 13
2000 Foot Radius
ERAS/14-003-05/9-24-15

● PRODUCTION WELL LOCATIONS

TABLES

TABLE 1. ANALYTICAL RESULTS - SOIL
106-110 Hegenberger Road, Oakland, CA

Sample ID	Date	Depth	TPH-gro	TPH-dro	TPH-oro	TOG - 503A	TOG -5520B(503D)	TRPH	Benzene	Toluene	Ethyl-Benzene	Xylenes	HVOC's	Naphthalene	MTBE	2-methyl-naphthalene	n-butyl benzene	sec-butyl benzene	isopropyl-benzene	n-propyl benzene	Total Cadmium	Total Chromium	Total Lead	Nickel	Total Zinc
		ft-bgs	mg/Kg																						
UST/Pumps/Lines																									
SS-1	22-Aug-90	5.0	7	NA	NA	NA	NA	NA	**0.081**	0.013	0.7	0.18	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS-2	22-Aug-90	5.0	2	NA	NA	NA	NA	NA	0.024	0.025	0.062	0.25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS-3	22-Aug-90	2.5	<1	NA	NA	NA	NA	NA	<3	<3	<3	<3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS-4	22-Aug-90	2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS-5	22-Aug-90	2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS-6	22-Aug-90	2.5	<1	NA	NA	NA	NA	NA	<3	<3	<3	<3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS-7	22-Aug-90	4.0	1	NA	NA	NA	NA	NA	**0.170**	0.008	0.039	0.057	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS-8	22-Aug-90	4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS-9	22-Aug-90	2.5	35	NA	NA	NA	NA	NA	**0.019**	0.051	0.47	0.93	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS-10	27-Aug-90	5.0	190	NA	NA	NA	NA	NA	**2.10**	0.530	2.7	**4.4**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS-11	27-Aug-90	5.0	1	NA	NA	NA	NA	NA	**0.18**	0.008	0.003	0.046	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS-12	27-Aug-90	5.0	<1	NA	NA	NA	NA	NA	**0.044**	<0.003	<0.003	<0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS-13	27-Aug-90	5.0	3	NA	NA	NA	NA	NA	**0.23**	0.018	0.005	0.092	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS-14	27-Aug-90	3.0	3	NA	NA	NA	NA	NA	<0.003	0.010	0.008	0.013	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS-15	27-Aug-90	5.0	1	NA	NA	NA	NA	NA	<0.003	<0.003	0.005	0.011	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS-16	27-Aug-90	5.0	<1	NA	NA	NA	NA	NA	<0.003	<0.003	<0.003	<0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS-17	27-Aug-90	5.0	<1	NA	NA	NA	NA	NA	<0.003	<0.003	<0.003	<0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS-18	5-Sep-90	5.0	13	NA	NA	NA	NA	NA	**0.098**	0.037	0.044	0.012	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS-18	5-Sep-90	8.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS-19	5-Sep-90	4.0	NA	NA	NA	NA	**2,900**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS-19	5-Sep-90	5.0	16	NA	NA	NA	NA	NA	<0.003	0.055	0.041	0.041	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS-20	5-Sep-90	5.0	**2,100**	**110**	NA	NA	**13,000**	NA	**19**	**21**	**26**	**12**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS-21	5-Sep-90	5.0	1	NA	NA	NA	NA	NA	0.010	0.004	0.006	<0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS-22	7-Sep-90	4.5	**570**	**420**	NA	**780**	**2,400**	NA	**0.15**	0.062	1.7	**13**	<0.005	**6**	7.9	7.9	NA	NA	NA	NA	1	62	80	NA	69
SS-23	7-Sep-90	2.5	<1	NA	NA	NA	NA	NA	<0.003	<0.003	<0.003	<0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS-24	7-Sep-90	2.5	<1	NA	NA	NA	NA	NA	<0.003	<0.003	<0.003	<0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS-25	7-Sep-90	2.5	<1	NA	NA	NA	NA	NA	<0.003	0.004	<0.003	<0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS-26	7-Sep-90	1.5	<1	NA	NA	NA	NA	NA	0.041	<0.003	0.005	0.006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS-27	7-Sep-90	2.5	<1	NA	NA	NA	NA	NA	<0.003	<0.003	<0.003	<0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS-28	7-Sep-90	2.5	<1	NA	NA	NA	NA	NA	<0.003	<0.003	<0.003	<0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS-29	7-Sep-90	2.5	**980**	NA	NA	NA	NA	NA	<0.150	**4.0**	2.1	**60**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS-30	7-Sep-90	3.0	65	NA	NA	NA	NA	NA	<0.005	0.121	0.37	0.37	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS-31	7-Sep-90	3.0	**790**	NA	NA	NA	NA	NA	<0.030	2.3	**20**	**4.0**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS-32	7-Sep-90	2.5	4	NA	NA	NA	NA	NA	<0.003	<0.003	0.016	0.007	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS-33	7-Sep-90	2.5	<1	NA	NA	NA	NA	NA	<0.003	<0.003	<0.003	<0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS-34	7-Sep-90	2.5	<1	NA	NA	NA	NA	NA	<0.003	<0.003	<0.003	<0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sump																									
HA-4-5	3-Apr-91	5.0	**3,340**	<10	NA	NA	NA	**4,000**	**39.9**	**177**	**93.3**	**281**	NA	NA	NA	NA	NA	NA	NA	NA	10	41.1	59.3	NA	60.8
HA-6-5	3-Apr-91	5.0	<1.0	<10	NA	NA	NA	160	<0.05	<0.07	<0.07	<0.14	NA	NA	NA	NA	NA	NA	NA	NA	0.8	45.6	46.2	NA	52.3
HA-7-5	3-Apr-91	5.0	**1,160**	<10	NA	NA	NA	**1,700**	**16.1**	**29.2**	**41**	**115**	NA	NA	NA	NA	NA	NA	NA	NA	0.9	52.3	109	NA	38.1
Background																									
BG-1-3	3-Apr-91	3.0	NA	NA	NA	NA	NA	56	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.8	41.5	10	NA	19.9
BG-2-3	3-Apr-91	3.0	NA	NA	NA	NA	NA	114	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.9	47.9	47.8	NA	43
BG-3-3	3-Apr-91	3.0	NA	NA	NA	NA	NA	82	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.74	49.8	30.5	NA	39.4

TABLE 1. ANALYTICAL RESULTS - SOIL
106-110 Hegenberger Road, Oakland, CA

Sample ID	Date	Depth	TPH-gro	TPH-dro	TPH-oro	TOG - 503A	TOG -5520B(503D)	TRPH	Benzene	Toluene	Ethyl-Benzene	Xylenes	HVOC's	Naphthalene	MTBE	2-methyl-naphthalene	n-butyl benzene	sec-butyl benzene	isopropyl-benzene	n-propyl benzene	Total Cadmium	Total Chromium	Total Lead	Nickel	Total Zinc
		ft-bgs	mg/Kg																						
UST/Pumps/Lines																									
MW1	11-Feb-94	9.0	<1.0	NA	NA	NA	<50	NA	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<4.0	NA	NA
MW1	11-Feb-94	16.5	<1.0	NA	NA	NA	<50	NA	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.1	NA	NA
MW1	11-Feb-94	21	<1.0	NA	NA	NA	<50	NA	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<4.0	NA	NA
MW2	11-Feb-94	10.5	<1.0	NA	NA	NA	<50	NA	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW2	11-Feb-94	15.5	<1.0	NA	NA	NA	<50	NA	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW2	11-Feb-94	17.0	<1.0	NA	NA	NA	<50	NA	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.3	NA	NA
B8	11-Feb-94	10.5	<1.0	NA	NA	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B8	11-Feb-94	15.5	<1.0	NA	NA	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW3	15-Feb-94	5.5	<1.0	<10	NA	NA	<50	NA	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW3	15-Feb-94	10.5	<1.0	<10	NA	NA	<50	NA	<0.005	<0.005	<0.005	<0.005	NA	<0.05	NA	<0.05	(<varies)	(<varies)	(<varies)	NA	<1.0	36	4.1	36	28
MW3	15-Feb-94	15.5	<1.0	<10	NA	NA	<50	NA	<0.005	<0.005	<0.005	<0.005	NA	<0.05	NA	<0.05	(<varies)	(<varies)	(<varies)	NA	<1.0	53	4.7	56	53
B3	28-Feb-94	6.0	30	NA	NA	NA	NA	NA	0.76	0.07	0.17	0.97	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B3	28-Feb-94	10.0	<1.0	NA	NA	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B3	28-Feb-94	11.0	<1.0	NA	NA	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B3	28-Feb-94	16.0	<1.0	NA	NA	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B3	28-Feb-94	18.5	<1.0	NA	NA	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B4	28-Feb-94	5.5	<1.0	NA	NA	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B4	28-Feb-94	10.5	<1.0	NA	NA	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B4	28-Feb-94	15.5	<1.0	NA	NA	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B4	28-Feb-94	18.0	<1.0	NA	NA	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B5	28-Feb-94	5.5	<1.0	NA	NA	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B5	28-Feb-94	10.5	<1.0	NA	NA	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B5	28-Feb-94	15.5	<1.0	NA	NA	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sump																									
B-101	8-Sep-97	5.0	**900**	NA	NA	NA	NA	NA	**1.1**	**5.6**	**19**	**39**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	41	NA	NA
B-101	8-Sep-97	10.0	<1.0	NA	NA	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B-102	8-Sep-97	5.0	**2,000**	NA	NA	NA	NA	NA	**16**	**3.2**	**120**	**57**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B-102	8-Sep-97	10.0	<1.0	NA	NA	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-6 (B-101)	11-Aug-14	5.0	**1,200**	**400**	NA	**910**	NA	NA	**8.6**	NA	**7.5**	1.2	NA	**19**	NA	NA	6.8	2.5	8.0	26	<0.25	56	64	53	76
SB-7 (HA-4-5)	11-Aug-14	5.0	**1,200**	**180**	NA	**530**	NA	NA	**3.5**	NA	2.6	<1.0	NA	**7.7**	NA	NA	3.0	1.1	3.0	10	<0.25	110	120	84	95
SB-8 (HA-7-5)	11-Aug-14	5.0	40	8.6	NA	160	NA	NA	<0.05	NA	<0.05	<0.05	NA	<0.05	NA	NA	<0.05	<0.05	0.21	0.6	<0.25	88	190	88	100
SB-9	11-Aug-14	5.0	1.5	6.2	NA	53	NA	NA	<0.005	NA	<0.005	<0.005	NA	<0.005	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.25	89	30	82	65
B-1	5-May-15	2.0	<0.25	2.7	20	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	NA	NA	NA	NA	NA	0.39	49	19	49	69
B-1	5-May-15	12.0	<0.25	1.3	<5	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	NA	NA	NA	NA	NA	<0.25	57	9.9	66	55
B-2	5-May-15	4.0	120	40	78	NA	NA	NA	**0.16**	<0.05	<0.05	<0.05	NA	<0.05	<0.05	NA	NA	NA	NA	NA	<0.25	77	17	81	40
B-2	5-May-15	6.5	230	44	13	NA	NA	NA	**2.0**	<0.5	**9.4**	<0.5	NA	**2.1**	<0.5	NA	NA	NA	NA	NA	<0.25	64	41	79	55
B-2	5-May-15	10.5	<0.25	<1	<5	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	NA	NA	NA	NA	NA	<0.25	63	8.8	69	63
B-3	5-May-15	4.0	310	**290**	**800**	NA	NA	NA	**1.8**	<0.1	0.97	0.14	NA	**1.8**	<0.1	NA	NA	NA	NA	NA	<0.25	74	240	75	130
B-3	5-May-15	8.0	35	8.3	<5	NA	NA	NA	**0.36**	<0.25	0.36	0.045	NA	0.61	<0.025	NA	NA	NA	NA	NA	<0.25	43	6.8	47	41
B-3	5-May-15	11.0	0.67	<1	<5	NA	NA	NA	**0.047**	<0.005	0.032	0.064	NA	<0.005	<0.005	NA	NA	NA	NA	NA	0.35	45	6.5	46	41
B-4	5-May-15	6.0	9.3	2.5	<5	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	NA	NA	NA	NA	NA	<0.25	55	11	58	53
B-4	5-May-15	12.0	<0.25	1.7	5.7	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	NA	NA	NA	NA	NA	<0.25	34	5.2	43	36
B-5	5-May-15	3.5	0.30	12	47	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	NA	NA	NA	NA	NA	0.27	52	130	49	83
B-5	5-May-15	11.0	<0.25	<1	<5	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	NA	NA	NA	NA	NA	<0.25	40	5.4	44	37

TABLE 1. ANALYTICAL RESULTS - SOIL
106-110 Hegenberger Road, Oakland, CA

Sample ID	Date	Depth	TPH-gro	TPH-dro	TPH-oro	TOG - 503A	TOG -5520B(503D)	TRPH	Benzene	Toluene	Ethyl-Benzene	Xylenes	HVOC's	Naphthalene	MTBE	2-methyl-naphthalene	n-butyl benzene	sec-butyl benzene	isopropyl-benzene	n-propyl benzene	Total Cadmium	Total Chromium	Total Lead	Nickel	Total Zinc
		ft-bgs	mg/Kg																						
B-6	5-May-15	4.0	<0.25	2.5	11	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	NA	NA	NA	NA	NA	<0.25	62	6.4	68	34
B-6	5-May-15	12.0	<0.25	<1	<5	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	NA	NA	NA	NA	NA	<0.25	40	5.3	42	35
B-7	6-May-15	4.0	87	5.5	21	NA	NA	NA	**0.43**	<0.05	0.30	<0.50	NA	0.76	<0.05	NA	NA	NA	NA	NA	<0.25	74	25	66	38
B-7	6-May-15	7.0	12	7.5	<5	NA	NA	NA	**0.35**	<0.033	0.63	0.42	NA	0.20	<0.033	NA	NA	NA	NA	NA	<0.25	53	7.7	60	49
B-7	6-May-15	11.5	<0.25	1.9	<5	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	NA	NA	NA	NA	NA	<0.25	42	5.6	47	37
B-10	3-Sep-15	4.0	21	2.3	12	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B-10	3-Sep-15	6.5	0.33	<1	<5	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B-11	3-Sep-15	6.0	35	29.0	7	NA	NA	NA	0.47	1.10	0.87	2.10	NA	0.33	<0.005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B-11	3-Sep-15	9.5	<0.25	<1	<5	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B-12	3-Sep-15	4.0	54	4.4	21	NA	NA	NA	<0.005	0.0074	0.014	0.021	NA	0.012	<0.005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B-12	3-Sep-15	7.5	21	3.4	<5	NA	NA	NA	0.61	0.14	1.1	1.0	NA	0.38	<0.005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B-12	3-Sep-15	16.0	NA	NA	NA	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
B-13	3-Sep-15	4.0	7.6	3.1	16	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B-13	3-Sep-15	7.0	<0.25	<1	<5	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B-14	3-Sep-15	4.0	110	32.0	24	NA	NA	NA	<0.005	<0.005	0.032	<0.005	NA	<0.005	<0.005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B-14	3-Sep-15	7.0	<0.25	<1	5	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tank																									
B-8	6-May-15	4.0	9.0	**110**	**1,500**	NA	NA	NA	<0.005	<0.005	0.061	0.18	NA	0.035	<0.005	NA	NA	NA	NA	NA	0.33	36	53	58	84
B-8	6-May-15	12.0	<0.25	<1	<5	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	NA	NA	NA	NA	NA	<0.25	67	7.5	63	55
B-9	6-May-15	3.0	<0.25	7.7	88	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	NA	NA	NA	NA	NA	0.3	40	19	31	110
B-9	6-May-15	12.0	<0.25	<1	<5	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	NA	NA	NA	NA	NA	<0.25	60	7.4	56	49
B-15	3-Sep-15	4.0	<0.25	1.3	12	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B-15	3-Sep-15	7.5	<0.25	2.9	33	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B-16	3-Sep-15	4.0	0.40	14	80	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B-16	3-Sep-15	7	<0.25	1.4	21	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ESL- Soil			500	110	500	500	500	500	0.044	2.9	3.3	2.3	-	1.2	0.023	0.25	-	-	-	-	12	2,500	320	150	600

NOTES
ESL = Environmental Screening Level (potential drinking water,SFRWQCB, December 2013)
Reported concentrations above the ESLs are in bold type
NA = Not Analyzed
ft-bgs = feet below ground surface
mg/kg = milligrams per kilogram
ND = concentration below detection limit presented in parentheses
TOG = total oil and grease
TPH-gro = total petroleum hydrocarbons as gasoline range organics
TPH-dro = total petroleum hydrocarbons as deisel range organics
TRPH = total recoverable petroleum hydrcarbons
VOCs = volatile organic compounds
HVOC = halogenated volitile organic compounds
not found on a map

TABLE 2. ANALYTICAL RESULTS - GROUNDWATER
106-110 Hegenberger Road, Oakland CA

Sample ID	Date	TPH-gro	TPH-dro	TPH-oro	Benzene	Toluene	Ethylbenzene	Xylenes	Cadmium	Chromium	Lead	Nickel	Zinc	MTBE	Naphthalene	2-methyl-naphthalane	VOCs	TOG
		µg/L																
MW-1	21-Feb-94	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5000
	24-Mar-94	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	3-Jul-94	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	15-Dec-94	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	6-Mar-95	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	29-Jun-95	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	13-Jun-00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA
MW-2	21-Feb-94	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5000
	24-Mar-94	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	3-Jul-94	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	15-Dec-94	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	6-Mar-95	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	29-Jun-95	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	24-Feb-00	NA	NA	NA	NA	NA	NA	NA	<0.02	<0.1	<0.05	<0.1	<0.1	NA	NA	NA	NA	NA
	13-Jun-00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA
MW-3	21-Feb-94	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5000
	24-Mar-94	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	3-Jul-94	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	15-Dec-94	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	6-Mar-95	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	29-Jun-95	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	24-Feb-00	NA	NA	NA	NA	NA	NA	NA	<0.02	<0.1	<0.05	<0.1	<0.1	NA	NA	NA	NA	NA
	13-Jun-00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA
MW-4	9-Mar-94	81	65	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	ND (<varies)	NA
	21-Feb-94	<50	<0.5	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	<2.0	<2.0	NA	NA
	24-Mar-94	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	3-Jul-94	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	15-Dec-94	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	6-Mar-95	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	29-Jun-95	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B-1	5-May-15	<50	<50	<250	<0.5	<0.5	<0.5	<0.5	<0.25	<0.5	<0.5	3.9	<15	0.5	<0.5	NA	NA	NA
B-2	5-May-15	**1,400**	**330**	<250	**370**	<10	**73**	**22**	<0.25	<0.5	<0.50	5.2	<15	<10	**13**	NA	NA	NA
B-3	5-May-15	**2,300**	**510**	<250	**430**	<12	**210**	**150**	<0.25	0.70	0.53	**30**	<15	<12	**29**	NA	NA	NA
B-4 Shallow	5-May-15	<50	**200**	**1,200**	<0.5	<0.5	<0.5	<0.5	<0.25	0.83	1.5	1.3	<15	<0.5	<0.5	NA	NA	NA
B-4	5-May-15	<50	<50	<250	<0.5	<0.5	<0.5	<0.5	<0.25	<0.5	<0.5	2.3	<15	<0.5	<0.5	NA	NA	NA
B-5	5-May-15	<50	<50	<250	<0.5	<0.5	<0.5	<0.5	<0.25	<0.5	<0.5	1.8	<15	<0.5	<0.5	NA	NA	NA
B-6	5-May-15	<50	<50	<250	<0.5	<0.5	<0.5	<0.5	<0.25	<0.5	<0.5	5.3	<15	<0.5	<0.5	NA	NA	NA
B-7	6-May-15	**13,000**	**4,600**	**720**	**3,900**	**69**	**2,000**	<50	<2.5	<5.0	**12**	**21**	**210**	<50	**240**	NA	NA	NA
B-8 Shallow	6-May-15	**860**	**2,000**	**3,600**	0.60	<0.5	<0.5	0.91	<0.25	<0.5	1.3	3.9	<15	<0.5	<0.5	NA	NA	NA
B-8	6-May-15	<50	<50	<250	<0.5	<0.5	<0.5	<0.5	**0.42**	<0.5	<0.5	**88**	<15	<0.5	<0.5	NA	NA	NA
B-9 Shallow	6-May-15	**260**	**120**	**260**	<0.5	<0.5	<0.5	<0.5	<0.25	<0.5	<0.5	2.5	<15	<0.5	<0.5	NA	NA	NA
B-9	6-May-15	<50	<50	<250	<0.5	<0.5	<0.5	<0.5	**0.32**	1.2	<0.50	**100**	<15	<0.5	<0.5	NA	NA	NA
B-10	3-Sep-15	<50	<50	<250	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	<0.5	<0.5	NA	NA	NA
B-11	3-Sep-15	<50	<50	<250	<0.5	<0.5	1.0	0.84	NA	NA	NA	NA	NA	<0.5	<0.5	NA	NA	NA
B-12	3-Sep-15	53	<50	<250	2.4	<0.5	5.7	1.7	NA	NA	NA	NA	NA	<0.5	0.79	NA	NA	NA
B-13	3-Sep-15	<50	<50	<250	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	<0.5	<0.5	NA	NA	NA
B-14	3-Sep-15	<50	54	<250	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	<0.5	<0.5	NA	NA	NA
B-15	3-Sep-15	<50	<50	<250	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	<0.5	<0.5	NA	NA	NA
B-16	3-Sep-15	<50	<50	<250	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	<0.5	<0.5	NA	NA	NA
ESL		100	100	100	1.0	40	30	20	0.25	50	2.5	8.2	81	5.0	6.1	2.1	-	100

NOTES
ESL = Environmental Screening Level (potential drinking water,SFRWQCB, December 2013)
Reported concentrations above the ESLs are in bold type
NA = Not Analyzed
ft-bgs = feet below ground surface
µg/L = micrograms per liter
ND = concentration below detection limit presented in parentheses
TOG = total oil and grease
TPH-gro = total petroleum hydrocarbons quantified as gasoline range organics
TPH-dro = total petroleum hydrocarbons quantified as deisel range organics
MTBE = methyl tert butyl ether
VOCs = volatile organic compounds

TABLE 3. ANALYTICAL RESULTS - SOIL GAS

106-110 Hegenberger Road, Oakland CA

Sample ID	Date	Depth	Benzene	Toluene	Ethylbenzene	Xylenes	1,1-DFA (Leak Detection)	Acetone	1,3-Butadlene	Carbon Disulfide	Chloro-methane	Cyclo-hexane	Heptane	Hexane	2-Hexanone	MIBK	PCE	4-Ethyltoluene	1,2,4-TMB	1,3,5-TMB
		ft-bgs	µg/m³																	
V-1	26-Oct-98	3.0	**2010**	33.1	303	92.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
V-2	26-Oct-98	2.5	306	41.4	1260	104	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
V-3	26-Oct-98	2.0	4.46	13.5	<0.68	<0.68	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
V-4	26-Oct-98	2.0	28.1	18.8	299	41.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
V-5	26-Oct-98	2.0	10.2	20.3	24.7	19.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-1	11-Aug-14	3.0	**50,000**	5,200	<3,300	<3,300	28,000	<6.7x10^4	NA	<3,300	<3,300	NA	NA	NA	<3,300	<3,300	<3,300	NA	<3,300	<3,300
SB-2	11-Aug-14	3.0	**3,200**	25	47	27	38	<60	<1.1	25	<1.0	6,900	140	1,300	<2.1	45	18	<2.5	<2.5	<2.5
SB-3	11-Aug-14	3.0	120	21	18	<26	<110	330	42	29	<4.2	490	270	400	12	<8.4	<14	<10	<10	<10
SB-4	11-Aug-14	3.0	25	75	6.6	28	430	83	11	8.5	1.8	28	<21	62	<2.1	2.6	<3.4	2.6	8.8	2.8
SB-5	11-Aug-14	3.0	<10,000	<10,000	<10,000	NA	<10,000	<2.0 x10^5	NA	<10,000	<10,000	NA	NA	NA	<10,000	<10,000	<10,000	NA	<10,000	<10,000
SV-15	10-Sep-15	3.0	7.6	11	<8.68	19.1	49.5	NA	NA	NA	NA	NA	NA	<17.6	NA	NA	NA	NA	NA	NA
SV-16	10-Sep-15	3.0	3.8	7.61	<4.34	6.77	171	NA	NA	NA	NA	NA	NA	<17.6	NA	NA	NA	NA	NA	NA
ESL			420	1,300,000	4,900	440,000	-	1.4x10^8	-	-	-	-	-	-	-	-	2,100	-	-	-

NOTES

µg/m³ = micro grams per cubic meter

ft-bgs = feet below ground surface

NA = Not Analyzed

ESL = Environmental Screening Level (commercial property,SFRWQCB, December 2013)

Bold = Above the ESL

MIBK = 4-Methyl-2-Pentanone

PCE = tetrachloroethene

TCE = Trichloroethene

1,2,4-TMB = 1,2,4-Trimethylbenzene

1,3,5-TMB = 1,2,5-Trimethymbenzene

1,1-DFA = 1,1-Difluoroethane

failed leak detection

TABLE 4. SITE CONCEPTUAL MODEL
106-110 Hegenberger Road, Oakland

CSM Element	CSM Sub-Element	Description	Potential Data Gap(s)
Geology and Hydrogeology	Regional	The Property is in the southern part of the City of Oakland in the San Francisco Bay area. The San Francisco Bay area occupies a broad alluvial valley that slopes gently northward and is flanked by alluvial fans deposited at the foot of the Diablo Range to the east and the Santa Cruz Mountains to the west. Surface topography in the immediate vicinity of the Property is gently sloping down to the northwest towards Airport Channel. The Property is at an elevation of approximately 10 feet above Mean Sea Level according to the United States Geological Survey (USGS) Oakland East Quadrangle California 7.5 Minute Series topographic map. Materials underlying the site are unconsolidated deposits of near shore and beach sediments, deposited in Oakland Bay at higher sea level stands. At shallow depths beneath these sediments are chert, greywacke, serpentine and shale bedrock that are a part of the Cretaceous to Jurassic-aged Franciscan Formation. Bedrock is exposed to the east-northeast on the upland surfaces. The subject site is located on the San Francisco Bay Plain in the northernmost part of the Santa Clara Valley Groundwater Basin, (DWR, 1967), the surface of which slopes gently down toward west. The regional groundwater flow follows the topography, moving from areas of higher elevation to areas of lower elevation. The regional groundwater flow direction in the area of the Property is estimated to be toward the northwest toward the Oakland Outer Harbor.	None
	Site	***Geology:*** Based on lithologic logs prepared from borings on the Property the subsurface lithology consists of approximately 3-6 feet of fill underlain by 13 to 15 feet of silts and clays, which is underlain by silt, silty sand and sands. In some borings on the Property a clayey sand unit was also observed between 10 and 12 feet below ground surface (bgs) which appeared to be moist to wet (BSK, 1998) (ERAS 2015).	None
		Hydrogeology: The main groundwater zone was indicated by the previous consultants to be the silty sand and sand unit starting at a depth of approximately 13-20 feet bgs (BSK, 1998)(ERAS, 2015). Based on the groundwater monitoring conducted on the Property the groundwater flow direction has been determined to be to the southwest (BSK, 2000). This is consistent with what is likely to be the regional groundwater gradient, based on topography.	None
Surface Water Bodies	--	The closest surface water bodies are San Leandro Creek which was located approximately 1/4 of a mile to the northeast of the Property and the Airport Channel which was located approximately 1/2 of a mile to the west.	None
Nearby Wells	--	A well survey has been performed	None
CSM Element	**CSM Sub-Element**	**Description**	**Potential Data Gap(s)**
Constituents of Concern	--	Constituents of concern have been identified by comparing analytical results to ESLs for commercial land use and for groundwater that is considered a current or potential drinking water source.3 Constituents of concern that have been identified include petroleum hydrocarbons quantified as gasoline, diesel and oil range organics (TPH-gro, TPH-dro, and TPH-oro), benzene, toluene, ethylbenzene, and xylenes (BTEX), along with lead, zinc, cadmium, and chromium. The results of investigations completed indicate elevated concentrations of petroleum hydrocarbons in soil and groundwater, mostly in the area of the former clarifier sump. After monitoring of the groundwater several times between 1994 and 2000 along with numerous subsurface investigations, the Alameda County Health Care Services Agency (ACHCSA) closed the case in 2001. The case closure indicated that concentrations of petroleum hydrocarbons, BTEX, and metals (lead, zinc, cadmium, and chromium) remained in soil on the Property.	None
Potential Sources	On-site	The Property formerly contained three USTs and a pump island along the northwestern Property boundary, a sump and four pump islands along the southwestern Property boundary, a car wash centrally located on the Property, and product lines connecting the fuel USTs with the pump islands.	None
		In 1990 the USTs, pump islands, product lines, and sump were removed from the Property.	None
CSM Element	**CSM Sub-Element**	**Description**	**Potential Data Gap(s)**
Nature and Extent of Environmental Impacts	Extent in Soil, TPH-gro	Concentrations of TPH-gro above the commercial ESL for areas where groundwater is considered a potential source of drinking water have been detected in soil samples collected from borings SS-20 (5 feet bgs), SS-22 (4.5 feet bgs), SS-29 (2.5 feet bgs), SS-31 (3.0 feet bgs), HA-4-5 (5.0 feet bgs), HA-7-5 (5.0 feet bgs), B-101 (5.0 feet bgs), B-102 (5.0 feet bgs), SB-6 (5 feet bgs), and SB-7 (5 feet bgs). These concentrations ranged from 570 mg/Kg to 3,340 mg/Kg. These elevated concentrations were determined to be limited to a small area near the northernmost former UST and the former sump.	None
	Extent in Soil, TPH-dro	Concentrations of TPH-dro above the commercial ESL for areas where groundwater is considered a potential source of drinking water have been detected in soil samples collected from borings SS-20 (5 feet bgs), SS-22 (4.5 feet bgs), B-3 (4 feet bgs), B-8 (4 feet bgs), SB-6 (5 feet bgs), and SB-7 (5 feet bgs). These concentrations ranged from 110 mg/Kg to 420 mg/Kg. These elevated concentrations were determined to be limited to a small area near the northernmost former UST (closed case) and the former sump.	None
	Extent in Soil, TOG/TRPH	Concentrations of TPH-oro/TOG/TRPH above the commercial ESL for areas where groundwater is considered a potential source of drinking water have been detected in soil samples collected from borings SS-19 (4.0 feet bgs), SS-20 (5 feet bgs), SS-22 (4.5 feet bgs), B-3 (4.0 feet bgs), B-8 (4 feet bgs), HA-4-5 (5 feet bgs), HA-7-5 (5 feet bgs), SB-6 (5 feet bgs), and SB-7 (5 feet bgs). These concentrations ranged from 530 mg/Kg to 13,000 mg/Kg. These elevated concentrations were determined to be limited to small areas near the USTs and product lines on the northwestern portion of the Property (closed case) and the former sump.	None
	Extent in Soil, VOCs	VOCs detected on the Property have included benzene, toluene, ethylbenzene, xylenes, and napthalene. Concentrations were determined to be limited to small areas near the USTs and product lines on the northwestern portion of the Property (closed case) and the former sump.	None
	Extent in Soil, SVOCs	Concentrations of naphthalene above the commercial ESL for areas where groundwater is considered a potential source of drinking water have been detected in soil samples collected from borings SS-22 (4.5 feet bgs), B-2 (6.5 feet bgs, B-3 (4.0 feet bgs), SB-6 (5feet bgs), and SB-7 (5 feet bgs). These concentrations ranged from 1.8 mg/Kg to 19 mg/Kg. These elevated concentrations were determined to be limited to the area of the former sump.	None

TABLE 4. SITE CONCEPTUAL MODEL
106-110 Hegenberger Road, Oakland

	Extent in Soil, Metals	Metals detected to be present on the Property have included cadmium, chromium, lead, nickel, and zinc. None of the concentrations detected were found to be above the ESL for commercial areas where groundwater is considered a potential source of drinking water	None
Nature and Extent of Environmental Impacts	Extent in Groundwater, TPH-gro	Groundwater samples have been collected from four groundwater monitoring wells formerly located on the Property along with nine borings advanced by ERAS in 2015. No concentrations of TPH-gro were detected in the groundwater samples collected from the monitoring wells above the method detection limit with the exception of one sample collected from MW-4 in 1994. The detected concentration was below the ESL for a commercial site where groundwater is considered a potential source of drinking water. TPH-gro was detected in the groundwater above the ESL in borings B-2, B-3, B-7, B-8 Shallow, and B-9 Shallow at concentrations ranging from 260 to 13,000 µg/L. These concentrations appear to be limited to the are of th former sump and the northern most UST.	None
	Extent in Groundwater, TPH-dro	Groundwater samples have been collected from four groundwater monitoring wells formerly located on the Property along with nine borings advanced by ERAS in 2015. No concentrations of TPH-dro were detected in the groundwater samples collected from the monitoring wells above the method detection limit with the exception of one sample collected from MW-4 in 1994. The detected concentration was below the ESL for a commercial site where groundwater is considered a potential source of drinking water. TPH-dro was detected in the groundwater above the ESL in borings B-2, B-3, B-4 Shallow, B-7, B-8 Shallow, and B-9 Shallow at concentrations ranging from 120 to 4,600 µg/L. These concentrations appear to be limited to the are of th former sump and the northern most UST.	None
	Extent in Groundwater, TOG/TRPH	Groundwater samples have been collected from four groundwater monitoring wells formerly located on the Property along with nine borings advanced by ERAS in 2015. No concentrations of TOG/TRPH were detected in the groundwater samples above the method detection limit. Concentrations of TPH-oro were detected above the ESL in borings B-4 Shallow, B-7, B-8 Shallow, and B-9 Shallow. These concentrations ranged from 260 to 3,600µg/L.	None
	Extent in Groundwater, VOCs	Groundwater samples have been collected from four groundwater monitoring wells formerly located on the Property along with nine borings advanced by ERAS in 2015. No concentrations of VOCs were detected in the groundwater samples above their method detection limit in the samples collected from the monitoring wells. VOCs detected in the borings included concentrations of benzene up to 3,900 µg/L, toluene up to 69 µg/L, ethylbenze up to 2,000 µg/L, xylenes up to 150 µg/L, and napthalene up to 240 µg/L. These VOCs were detected in borings B-2, B-3, B-7, and B-8.	None
	Extent in Groundwater, SVOCs	Groundwater samples have been collected from four groundwater monitoring wells formerly located on the Property. No concentrations of SVOCs were detected in the groundwater samples above their method detection limit.	None
	Extent in Groundwater, Metals	Groundwater samples have been collected from four groundwater monitoring wells formerly located on the Property along with nine borings advanced by ERAS in 2015. No concentrations of cadmium, chromium, lead, nickel, or zinc were detected in the groundwater samples above their method detection limits in the samples collected from the monitoring wells. Concentrations of nickel were detected above the ESL in boring B-3, B-7, B-8, and B-9 ranging from 21 to 100 µg/L. Boring B-7 also contained a concentration of Lead above the ESL at a conentration of 12 µg/L and zinc at 210 µg/L.	None
Nature and Extent of Environmental Impacts	Extent in Soil Vapor, VOCs	The only soil gas concentrations detected above the ESL for a commercial building was benzene which was detected in samples V-1, SB-1, and SB-2. The concentrations ranged from 2,010 to 50,000 µg/m³. The samples from SB-1 and SB-2 also contained the leak detection compound utilized to determine the integrity of the sampling system.	None
Migration Pathways	Potential Conduits	The locations of on-site utilities, including sanitary sewer laterals, water, gas, and electrical lines are unknown. All monitoring wells formerly located on the Property have been properly abandoned	None
Potential Receptors/Risk	On-site	Potable water at the site currently is provided via municipal supply and will continue to be in the foreseeable future. As such, direct contact to groundwater is not contemplated. Receptors at the site could include the following: • Current worker via vapor intrusion to indoor air, • Future construction worker via soil, groundwater, and soil vapor, • Future resident via vapor intrusion to indoor air, and/or • Future maintenance worker via soil and soil vapor.	Based on evaluation of the data relative to ESLs, it is likely that some risk for longer- term site occupants and construction workers exists.
Potential Receptors/Risk	Off-site	A well survey has been performed	

Notes
1. Harding Lawson Associates, Soil Sample Locations and Analytical Results, Remedial Activities, 106-110 Hegenberger Road, Oakland, California, October 9, 1990.
2. West Coast Environmental, Preliminary Assessment of a Former Sump Location, Larry David Property, 106/110 Hegenberger Road, Oakland, California, April 25, 1991.
3. Dugan Associates, Subsurface Assessment of Soil and Groundwater, 106 & 110 Hegenberger Road, Oakland, California, June 14, 1994.
4. Dugan Associates, Third Quarter 1994 Groundwater Monitoring and Sampling, 106 and 110 Hegenberger Road, Oakland, California, October 21, 1994.
5. Dugan Technical Well Services, Second Quarter 1995 Groundwater Monitoring and Sampling Report, 106-110 Hegenberger Road, Oakland, California, July 31, 1995.
6. BSK, Former Clarifier Sump Health Risk Assessment Report, 106-110 Hegenberger Road, Oakland, California, November 21, 1996.
7. BSK, Report Supplemental Investigation and Health Risk Assessment, Former Clarifier Sump, 106-110 Hegenberger Road, Oakland, California, October 30, 1997.
8. BSK, Report Soil Vapor Survey and Tier 3 Risk Assessment, Former Clarifier Sump, 106-110 Hegenberger Road, Oakland, California, December 3, 1998.
9, BSK & Associates, Report Groundwater Sampling and Analysis, 106-110 Hegenberger Road, Oakland, California, July 5, 2000.
10. BSK & Associates, Report Groundwater Monitoring Wells Abandonment, 106-110 Hegenberger Road, Oakland, California.
11. Alameda County Environmental Health Services, Remedial Action Completion Certification, 106-110 Hegenberger Road, Oakland, California, February 8, 2001.
12.Basics Environmental, Limited Phase II Environmental Sampling Report, 106-110 Hegenberger Road, Oakland, California, August 27, 2014.

Abbreviations
bgs = below ground surface
VOCs = volatile organic compounds
SVOCs = semi volatile organic compounds
TPH-gro = total petroleum hydrocarbons quantified as gasoline range organics
TPH-dro = total petroleum hydrocarbons quantified as diesel range organics
TPH-oro = total petroleum hydrocarbons quantified as oil range organics
TOG = total oil and grease
TRPH = total residual petroleum hydrocarbons
µg/kg = micrograms per kilogram
µg/L = micrograms per liter
µg/m3 = micrograms per cubic meter

APPENDIX A

ACHCSA Letter

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
ALEX BRISCOE, Agency Director

ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

August 20, 2015

Dhruv Patel
110 Hegenberger LLC
66 Airport Access Road
Oakland, CA 94603
(Sent via E-mail to dhruv.balaji@gmail.com)

Subject: Conditional Work Plan Approval, Site Cleanup Program Case No. RO0003147 and GeoTracker Global ID T10000006308, 110 Hegenberger LLC, 106-110 Hegenberger Road, Oakland, CA 94621

Dear Mr. Patel:

Thank you for the recently submitted document entitled, *Addendum to Work Plan for Additional Soil and Groundwater Investigation and Remediation Planning*, (Addendum) dated July 29, 2015, which was prepared by ERAS Environmental, Inc. (Eras), consultants for the subject site. Alameda County Environmental Health (ACEH) staff has reviewed the case file including the above-mentioned work plan for the above-referenced site. The Addendum was prepared following a meeting held with ACEH on June 30, 2015 which discussed the findings of a preliminary assessment entitled *Site Conceptual Model Update,* dated June 4, 2015, prepared by Eras, and submitted to ACEH as an email attachment.

The Addendum proposes to:

A. Drill a minimum of 3 and a maximum of 5 soil borings in the area of a former underground sump near the middle of the subject site for the collection of soil and groundwater samples.

B. Drill soil borings in the location of the proposed pool and elevator for the collection of soil, groundwater and soil vapor samples.

C. Conduct a Sensitive Receptor Survey that will identify the locations of groundwater production wells within 2,000 feet of the subject site; and

D. Use the findings of the investigation to determine the extent of remediation of soil required near the former sump.

E. Provide additional excavation near the former underground storage tanks near the north corner of the Property.

The proposed scope of work may be implemented provided that the modifications requested in the technical comments below are addressed and incorporated during the field implementation. Submittal of a revised Work Plan is not required unless an alternate scope of work outside that described in the Work Plan and technical comments below is proposed.

TECHNICAL COMMENTS

1. **Additional Soil Excavation – Former Underground Storage Tank Area**– The Addendum states "Additional soil will be excavated near former underground storage tanks near the north corner of the Property as described below." ACEH is unable to locate the description of the excavation activities for the former underground storage tank area in the Addendum report. Please provide a description of these activities, including a determination of the excavation limits, confirmation sampling, and disposal of the excavated material in the final report for this soil, groundwater, and soil gas investigation.

2. **Sensitive Receptor Survey** – The Addendum states that ERAS will request the locations of groundwater wells within 2,000 feet of the subject site from the Alameda County Department of Public Works. Also as part of the sensitive receptor survey, the location of surface water bodies, schools, hospitals and other sensitive use areas will be identified. ACEH requests, in addition to Alameda County Department of Public Works (ACPW), the Department of Water Resources (DWR) should be contacted for well data in their database.

NOTIFICATION OF FIELDWORK ACTIVITIES

Please schedule and complete the fieldwork activities by the date specified below and provide ACEH with at least three (3) business days notification prior to conducting the fieldwork.

TECHNICAL REPORT REQUEST

Please upload technical reports to the ACEH ftp site (Attention: Keith Nowell), and to the State Water Resources Control Board's Geotracker website, in accordance with the following specified file naming convention and schedule:

- **October 19, 2015** – Sensitive Receptor Survey (file name: RO0003147_WELL_COND_R_yyyy-mm-dd)
- **December 18, 2015** – Soil, Water, and Soil Gas Investigation Report (file name: RO0003147_SWI_R_yyyy-mm-dd)

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

Thank you for your cooperation. ACEH looks forward to working with you and your consultants to advance the case toward closure. Should you have any questions regarding this correspondence or your case, please call me at (510) 567-6764 or send an electronic mail message at keith.nowell@acgov.org

Sincerely,

Keith Nowell

Digitally signed by Keith Nowell
DN: cn=Keith Nowell, o=Alameda County, ou=Department of Environmental Health, email=keith.nowell@acgov.org, c=US
Date: 2015.08.20 14:41:46 -07'00'

Keith Nowell
Hazardous Materials Specialist

APPENDIX B

Permit

Alameda County Public Works Agency - Water Resources Well Permit

Public Works Agency
Alameda County

399 Elmhurst Street
Hayward, CA 94544-1395
Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 08/27/2015 By jamesy

Permit Numbers: W2015-0812
Permits Valid from 09/03/2015 to 09/04/2015

Application Id:	1440529554150	**City of Project Site:**	Oakland
Site Location:	106-110 Hegenberger Road, Oakland		
	two borings to 5 feet and seven to 20 feet		
Project Start Date:	09/03/2015	**Completion Date:**	09/04/2015
Assigned Inspector:	Contact Balance Hydrologics, Inc at (510) 473-5663 or acwells@balancehydro.com		
Applicant:	ERAS Environmental, Inc. - Andrew Savage 1533 B Street, Hayward, CA 94541	**Phone:**	510-247-9885 x302
Property Owner:	Dhruv Patel 66 Airport Access Road, Oakland, CA 94603	**Phone:**	--
Client:	Dhruv Patel 66 Airport Access Road, Oakland, CA 94603	**Phone:**	--
Contact:	Andrew Savage	**Phone:** **Cell:**	510-247-9885 x302 925-330-8926

	Total Due:	$265.00
Receipt Number: WR2015-0428	**Total Amount Paid:**	$265.00
Payer Name : Andrew Savage	Paid By: MC	**PAID IN FULL**

Works Requesting Permits:

Borehole(s) for Investigation-Environmental/Monitorinig Study - 9 Boreholes
Driller: Environmental Control Associates (ECA) - Lic #: 695970 - Method: DP **Work Total: $265.00**

Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2015-0812	08/27/2015	12/02/2015	9	2.75 in.	20.00 ft

Specific Work Permit Conditions

1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site. The containers shall be clearly labeled to the ownership of the container and labeled hazardous or non-hazardous.

2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.

3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.

4. Applicant shall contact assigned inspector listed on the top of the permit at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

5. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of $500.00.

6. Electronic Reporting Regulations (Chapter 30, Division 3 of Title 23 & Division 3 of Title 27, CCR) require electronic submission of any report or data required by a regulatory agency from a cleanup site. Submission dates are set by a Regional Water Board or by a regulatory agency. Once a report/data is successfully uploaded, as required, you have met the reporting requirement (i.e. the compliance measure for electronic submittals is the actual upload itself). The upload date should be on or prior to the regulatory due date.

7. NOTE:
Under California laws, the owner/operator are responsible for reporting the contamination to the governmental regulatory agencies under Section 25295(a). The owner/operator is liable for civil penalties under Section 25299(a)(4) and criminal penalties under Section 25299(d) for failure to report a leak. The owner/operator is liable for civil penalties under Section 25299(b)(4) for knowing failure to ensure compliance with the law by the operator. These penalty provisions do not apply to a potential buyer.

8. Prior to any drilling activities onto any public right-of-ways, it shall be the applicants responsibilities to contact and coordinate a Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits required for that City or to the County and follow all City or County Ordinances. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County a Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

9. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.

Alameda County Public Works Agency - Water Resources Well Permit

Public Works Agency
Alameda County

399 Elmhurst Street
Hayward, CA 94544-1395
Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 04/28/2015 By jamesy

Permit Numbers: W2015-0349
Permits Valid from 05/05/2015 to 05/06/2015

Application Id:	1429549792661	**City of Project Site:**	Oakland
Site Location:	110 Hegenberger Road, Oakland		
	Drill nine borings to 20 feet for the collection of soil and groundwater		
Project Start Date:	05/05/2015	**Completion Date:**	05/06/2015
Assigned Inspector:	Contact Steve Miller at (510) 670-5517 or stevem@acpwa.org		
Applicant:	ERAS Environmental, Inc. - Andrew Savage 1533 B Street, Hayward, CA 94541	**Phone:**	510-247-9885 x302
Property Owner:	Larry David 11400 West Olympics Blvd, Ste. 500, Los Angeles, CA 90064	**Phone:**	--
Client:	Larry David 11400 West Olympics Blvd, Ste. 500, Los Angeles, CA 90064	**Phone:**	--
Contact:	Andew Savage	**Phone:** **Cell:**	510-247-9885 x302 925-330-8926

	Total Due:	$265.00
Receipt Number: WR2015-0197	**Total Amount Paid:**	$265.00
Payer Name : Andrew Savage	Paid By: MC	**PAID IN FULL**

Works Requesting Permits:

Borehole(s) for Investigation-Environmental/Monitorinig Study - 9 Boreholes
Driller: Environmental Control Associates (ECA) - Lic #: 695970 - Method: DP **Work Total: $265.00**

Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2015-0349	04/28/2015	08/03/2015	9	2.75 in.	20.00 ft

Specific Work Permit Conditions

1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site. The containers shall be clearly labeled to the ownership of the container and labeled hazardous or non-hazardous.

2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.

3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.

4. Applicant shall contact assigned inspector listed on the top of the permit at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

5. NOTE:
Under California laws, the owner/operator are responsible for reporting the contamination to the governmental regulatory

agencies under Section 25295(a). The owner/operator is liable for civil penalties under Section 25299(a)(4) and criminal penalties under Section 25299(d) for failure to report a leak. The owner/operator is liable for civil penalties under Section 25299(b)(4) for knowing failure to ensure compliance with the law by the operator. These penalty provisions do not apply to a potential buyer.

6. Prior to any drilling activities onto any public right-of-ways, it shall be the applicants responsibilities to contact and coordinate a Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits required for that City or to the County and follow all City or County Ordinances. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County a Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

7. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.

APPENDIX C

Standard Operating Procedure

STANDARD OPERATING PROCEDURE – DIRECT PUSH BORINGS

SOIL CORING AND SAMPLING PROCEDURES

Prior to drilling, all boreholes will be hand dug to a depth of 4-5 feet below ground surface (bgs) to check for underground utilities.

Soil and groundwater samples are collected for lithologic and chemical analyses using a direct driven soil coring system. A hydraulic hammer drives sampling rods into the ground to collect continuous soil cores. As the rods are advanced, soil is driven into an approximately 2.5-inch-diamter sample barrel that is attached to the end of the rods. Soil samples are collected in sleeves inside the sample barrel as the rods are advanced. After being driven 4 to 5 feet into the ground, the rods are removed from the borehole. The sleeve containing the soil core is removed from the sample barrel, and can then be preserved for chemical analyses, or used for lithologic description. This process is repeated until the desired depth or instrument refusal is reached.

A soil core interval selected for analyses is cut from the sleeve using a pre-cleaned hacksaw. The ends of the tube are covered with aluminum foil or Teflon liner and sealed with plastic caps. The soil-filled liner is labeled with the bore number, sample depth, site location, date, and time. The samples are placed in bags and stored in a cooler containing ice. Soil from the core adjacent to the interval selected for analyses is placed in a plastic zip-top bag. The soil is allowed to volatilize for a period of time, depending on the ambient temperature. The soil is scanned with a flame-ionization detector (FID) or photo-ionization detector (PID).

All sample barrels, rods, and tools (e.g. hacksaw) are cleaned with Alconox or equivalent detergent and de-ionized water. All rinsate from the cleaning is contained in 55-gallon drums at the project site.

GROUNDWATER SAMPLING FROM DIRECT PUSH BORINGS

After the targeted water-bearing zone has been penetrated, the soil-sample barrel is removed from the borehole. Small-diameter well casing with 0.010-inch slotted well screen may be installed in the borehole to facilitate the collection of groundwater samples. Threaded sections of PVC are lowered into the borehole. Groundwater samples may then be collected with a bailer, peristaltic pump, submersible or other appropriate pump until adequate sample volume is obtained. Perstaltic pumps are not used in applications requiring a lift of greater than 1 foot of net head.

Groundwater samples are preserved, stored in an ice-filled cooler, and are delivered, under chain-of-custody, to a laboratory certified by the California Department of Health Services (DHS) for hazardous materials analysis.

BOREHOLE GROUTING FOR DIRECT PUSH BORINGS

Upon completion of soil and water sampling, boreholes will be abandoned with neat cement grout to the surface. If the borehole was advanced into groundwater, the grout is pumped through a grouting tube positioned at the bottom of the borehole.

STANDARD OPERATING PROCEDURE
–SOIL-GAS SAMPLING

The collection of soil gas samples will not be conducted in the event of precipitation or heavy irrigation. 5-days of dry weather and the lack or heavy irrigation is required prior to the collection of the vapor samples.

The installation of the sample probes and the sampling procedures follows the Department of Toxic Substances Control, California Environmental Protection Agency, Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air Vapor Intrusion Guidance document dated October 2011. Along with the California Environmental Protection Agency, Department of Toxic Substances Control, Los Angeles Regional Water Quality Control Board, San Francisco Regional Water Quality Control Board, Advisory for Active Soil Gas Investigations dated April 2012.

Sample rods are driven to the desired depth. A soil-gas sampling tubing system is inserted into the rods and connected to an expandable point. The rods are retracted a desired 6-inch interval and the expandable drive point on the bottom of the rods is opened. Hydrated bentonite is placed around where the drill rod exits the ground and where the tubing enters the rods to prevent surface air migrating down the inner and outer portion of the rods. The bentonite will be allowed to hydrate and expand for at least 30 minutes prior to purging the sample line.

The soil gas sample is collected into a Summa canister. A summa canister is a stainless steel vessel which has had the internal surfaces specially passivated using a “Summa” process. The Summa canister arrives pre-cleaned from the laboratory and with an internal vacuum between 25” Hg and 30” Hg. Prior to use, the pressure in the summa canister is checked with a pressure gauge to ensure a vacuum of at least 25” Hg for quality control purposes.

A sampling manifold is connected to the sample tubing which originated from the target depth for the sample collection. The sample manifold is connected to a purge Suma canister and a sample Suma canister. The sample manifold contains a gauge to display the vacuum remaining in the canister, valves to isolate the sample train, a particulate filter, and a flow controller to maintain a low purge rate.

A leak test is performed on the sampling manifold prior to sample collection. A vacuum is applied and required to stabilize and remain at the same pressure for a time period of 30 minutes. Once the leak test has been performed a vacuum is applied to the tubing to purge at least three volumes of air from the sample tubing at a purge rate from 100 to 200 ml/min.

The valve on the summa canister is opened, and the soil-gas sample is drawn into the canister. The sample tubing will be checked for water. If observed, the sample will be discarded. The sample collection will be stopped with about 5-inches Hg remaining in the Summa canister. The soil-gas samples will be transferred under chain-of-custody procedures to a state certified laboratory for analyses.

As a leak detector aerosol dust removal containing 1,1-Difluoroethane will be used in a shroud during sample collection. Analysis of the sample for 1,1-Difluoroethane will indicate if ambient air entered the sample.

Appendix D

Lithologic Logs

ERAS Environmental	**Log of Boring B-1**
PROJECT: *14-003-01*	ADDRESS: *106-110 Hegenberger Road*
JOB NUMBER: *14-003-01*	LOCATION: *Near MW-2*
DATE STARTED: *05-05-15*	First Water (ft. bgs.): *13.5* DATE: *05-05-15*
DATE FINISHED: *05-05-15*	TOTAL DEPTH: *20 feet*
DRILLING METHOD: *Hydraulic Push*	GEOLOGIST: *Andrew Savage*
DRILLING COMPANY: *ECA*	Reviewed By: ---

DEPTH ft.	PID (ppm)	BLOWS/ 1/2'	SAMPLE NO.	RECOVERY	GRAPHIC LOG	WATER LEVEL	GEOLOGIC DESCRIPTION	WELL DIAGRAM
							Asphalt + 3/4 inch base rock	
	2' 0			NR			Silty Clay (CL), very dark gray (10YR 3/1), damp, medium stiff, medium plasticity, no hydrocarbons (HC) odor	
				NR				
				NR				
				NR				
5							Same	
	8' 1.6							
10							Same	
	12' 1.4							
						▽		
							Silt (ML), dark gray (10YR 4/1), wet, medium stiff, low plasticity, ~10% fine to course well graded sand, very slight HC odor	
15								
	16' 1.4							
							Silty Clay (CL), dark gray (10YR 4/1), damp, medium stiff, low plasticity, no HC odor	
20	20' 1.5						Bottom of Boring 20 feet bgs 05-05-15	

ERAS Environmental	**Log of Boring B-2**
PROJECT: *14-003-01*	ADDRESS: *106-110 Hegenberger Road*
JOB NUMBER: *14-003-01*	LOCATION: *Eastern most Boring*
DATE STARTED: *05-05-15*	First Water (ft. bgs.): *13* DATE: *05-05-15*
DATE FINISHED: *05-05-15*	TOTAL DEPTH: *20 feet*
DRILLING METHOD: *Hydraulic Push*	GEOLOGIST: *Andrew Savage*
DRILLING COMPANY: *ECA*	Reviewed By: ---

DEPTH ft.	PID (ppm)	BLOWS/ 1/2'	SAMPLE NO.	RECOVERY	GRAPHIC LOG	WATER LEVEL	GEOLOGIC DESCRIPTION	WELL DIAGRAM
							Asphalt + 3/4 inch base rock	
							Silty Clay (CL), very dark gray (10YR 3/1), damp, medium stiff, medium plasticity, HC odor present	
	4' 46							
5							Same	
	6.5' 65.3			NR				
				NR				
				NR				
							at 9 feet, very slight HC odor present	
10								
	10.5' 13.9			NR				
				NR				
				NR				
							Silt (ML), very dark gray (10YR 3/1), wet, medium stiff, low plasticity, HC odor strong	
15							Silty Clay (CL), very dark gray (10YR 3/1), damp, medium stiff, medium plasticity, HC odor present	
	16' 7.7						Silt (ML), very dark gray (10YR 3/1), wet, medium stiff, low plasticity, HC odor present	
							Silty Clay (CL), very dark gray (10YR 3/1), damp, medium stiff, medium plasticity, very slight HC odor	
20	20' 9.9						Bottom of Boring 20 feet bgs 05-05-15	

ERAS Environmental	Log of Boring B-3
PROJECT: *14-003-01*	ADDRESS: *106-110 Hegenberger Road*
JOB NUMBER: *14-003-01*	LOCATION: *Northern most Boring*
DATE STARTED: *05-05-15*	First Water (ft. bgs.): *14.5* DATE: *05-05-15*
DATE FINISHED: *05-05-15*	TOTAL DEPTH: *20 feet*
DRILLING METHOD: *Hydraulic Push*	GEOLOGIST: *Andrew Savage*
DRILLING COMPANY: *ECA*	Reviewed By: ---

DEPTH ft.	PID (ppm)	BLOWS/ 1/2'	SAMPLE NO.	RECOVERY	GRAPHIC LOG	WATER LEVEL	GEOLOGIC DESCRIPTION	WELL DIAGRAM
							Asphalt + 3/4 inch base rock	
							Silty Clay (CL), very dark gray (10YR 3/1), damp, medium stiff, medium plasticity, HC odor present	
	4' 172							
5							Same Silty Clay (CL) at 5 feet, very strong HC odor	
	8' 143						Same	
10							at 10 feet, color change to black (10YR 2.5/1), very strong HC odor	
	11' 11.8			NR NR				
15	15' 8.3			NR NR			Silty Sand (SM), dark gray (10YR 4/1), wet, medium dense, ~20% fines, ~80% fine to course well graded sand, HC odor present	
							Silty Clay (CL), dark gray (10YR 4/1), damp, medium stiff, medium plasticity, very slight HC odor	
20	20' 7.2						Bottom of Boring 20 feet bgs 05-05-15	

ERAS Environmental	Log of Boring B-4
PROJECT: *14-003-01*	ADDRESS: *106-110 Hegenberger Road*
JOB NUMBER: *14-003-01*	LOCATION: *Western most Boring*
DATE STARTED: *05-05-15*	First Water (ft. bgs.): *20* DATE: *05-05-15*
DATE FINISHED: *05-05-15*	TOTAL DEPTH: *24 feet*
DRILLING METHOD: *Hydraulic Push*	GEOLOGIST: *Andrew Savage*
DRILLING COMPANY: *ECA*	Reviewed By: ---

DEPTH ft.	PID (ppm)	BLOWS/ 1/2'	SAMPLE NO.	RECOVERY	GRAPHIC LOG	WATER LEVEL	GEOLOGIC DESCRIPTION	WELL DIAGRAM
							Asphalt + 3/4 inch base rock	
	3' 6.6			NR NR			Gravely Sand (SW), dark yellowish brown (10YR 4/6), wet, ~60% fine to course well graded sand, ~40% 1/8 to 1/2 inch gravel, no HC odor (perched water)	
5	6' 18.4			NR NR NR NR			Silty Clay (CL), black (10YR 2/1), damp, medium stiff, medium plasticity, strong HC odor	
10	12' 6.3						at 10 feet, Silty Clay (CL), color change to dark brown (10YR 3/3)	
15	16' 18.2						at 16 feet, Silty Clay (CL), gray (10YR 5/1), damp, stiff, medium plasticity, HC odor present	
20	20' 8.5					▽		

ERAS Environmental	Log of Boring B-4
PROJECT: *14-003-01*	ADDRESS: *106-110 Hegenberger Road*
JOB NUMBER: *14-003-01*	LOCATION: *Western most Boring*
DATE STARTED: *05-05-15*	First Water (ft. bgs.): *20* DATE: *05-05-15*
DATE FINISHED: *05-05-15*	TOTAL DEPTH: *24 feet*
DRILLING METHOD: *Hydraulic Push*	GEOLOGIST: *Andrew Savage*
DRILLING COMPANY: *ECA*	Reviewed By: ---

DEPTH ft.	PID (ppm)	BLOWS/ 1/2'	SAMPLE NO.	RECOVERY	GRAPHIC LOG	WATER LEVEL	GEOLOGIC DESCRIPTION	WELL DIAGRAM
							Silt (ML), gray (10YR 5/1), wet, stiff, low plasticity, very slight HC odor	
							Silty Clay (CL), grayish brown (10YR 4/2), damp, medium stiff, medium plasticity, very slight HC odor	
							Silty Sand (SM), dark grayish brown (10YR 4/2), wet, medium dense, ~40% fines, ~60% fine to course well graded sand, very slight HC odor	
	24' 10.4						Bottom of Boring 24 feet bgs 05-05-15	
25								
30								
35								
40								

ERAS Environmental	Log of Boring B-5
PROJECT: *14-003-01*	ADDRESS: *106-110 Hegenberger Road*
JOB NUMBER: *14-003-01*	LOCATION: *SW Boring*
DATE STARTED: *05-05-15*	First Water (ft. bgs.): *20* DATE: *05-05-15*
DATE FINISHED: *05-05-15*	TOTAL DEPTH: *24 feet*
DRILLING METHOD: *Hydraulic Push*	GEOLOGIST: *Andrew Savage*
DRILLING COMPANY: *ECA*	Reviewed By: ---

DEPTH ft.	PID (ppm)	BLOWS/ 1/2'	SAMPLE NO.	RECOVERY	GRAPHIC LOG	WATER LEVEL	GEOLOGIC DESCRIPTION	WELL DIAGRAM
							Asphalt + 3/4 inch base rock	
							Silty Clay (CL), dark brown (10YR 3/3), damp, medium stiff, medium plasticity, no HC odor	
							Gravely Sand (SW), dark brown (10YR 3/3), damp, medium dense, ~60% fine to course well graded sand, ~40% 1/4 to 1/2 inch gravel, no HC odor	
	3.5' 4.2			NR			Silty Clay (CL), dark brown (10YR 3/3), damp, medium stiff, medium plasticity, no HC odor	
5							Gravely Sand (SW), dark brown (10YR 3/3), damp, medium dense, ~60% fine to course well graded sand, ~40% 1/8 to 3/4 inch gravel, no HC odor	
	7.5' 6.8			NR			Silty Clay (CL), dark brown (10YR 3/3), damp, medium stiff, medium plasticity, no HC odor	
10								
	11' 3.8			NR NR			at 12 feet, color change to black (10YR 2/1), no HC odor	
15								
	16' 19.0						at 17 feet, color change to gray (10YR 5/1), no HC odor	
20	20' 10.5					▽		

ERAS Environmental	Log of Boring B-5
PROJECT: *14-003-01*	ADDRESS: *106-110 Hegenberger Road*
JOB NUMBER: *14-003-01*	LOCATION: *SW Boring*
DATE STARTED: *05-05-15*	First Water (ft. bgs.): *20* DATE: *05-05-15*
DATE FINISHED: *05-05-15*	TOTAL DEPTH: *24 feet*
DRILLING METHOD: *Hydraulic Push*	GEOLOGIST: *Andrew Savage*
DRILLING COMPANY: *ECA*	Reviewed By: ---

DEPTH ft.	PID (ppm)	BLOWS/ 1/2'	SAMPLE NO.	RECOVERY	GRAPHIC LOG	WATER LEVEL	GEOLOGIC DESCRIPTION	WELL DIAGRAM
							Silt (ML), gray (10YR 5/1), wet, medium stiff, low plasticity, no HC odor	
	24' 7.2						Bottom of Boring 24 feet bgs 05-05-15	
25								
30								
35								
40								

ERAS Environmental	Log of Boring B-6
PROJECT: *14-003-01*	ADDRESS: *106-110 Hegenberger Road*
JOB NUMBER: *14-003-01*	LOCATION: *Southern most Boring*
DATE STARTED: *05-06-15*	First Water (ft. bgs.): *14* DATE: *05-06-15*
DATE FINISHED: *05-06-15*	TOTAL DEPTH: *20 feet*
DRILLING METHOD: *Hydraulic Push*	GEOLOGIST: *Andrew Savage*
DRILLING COMPANY: *ECA*	Reviewed By: ---

DEPTH ft.	PID (ppm)	BLOWS/ 1/2'	SAMPLE NO.	RECOVERY	GRAPHIC LOG	WATER LEVEL	GEOLOGIC DESCRIPTION	WELL DIAGRAM
							Asphalt + 3/4 inch base rock	
							Silty Clay (CL), dark brown (10YR 3/3), damp, medium stiff, medium plasticity, no HC odor	
	4' 3.3							
5							Same	
	7' 5.2			NR				
				NR				
10							at 10 feet, color change to black (10YR 2/1)	
	12' 5.6							
						▽	Silty Sand (SM), dark brown (10YR 3/3), wet, medium dense, ~30% fines, ~70% fine to course well graded sand, HC odor present	
15							Silty Clay (CL), dark brown (10YR 3/3), wet, medium stiff, medium plasticity, no HC odor	
	16' 10.0						Silty Sand (SM), dark brown (10YR 3/3), wet, medium dense, ~30% fines, ~70% fine to course well graded sand, no HC odor	
							Silty Clay (CL), dark brown (10YR 3/3), damp, medium stiff, medium plasticity, no HC odor	
							Silty Sand (SM), dark brown (10YR 3/3), wet, medium dense, ~30% fines, ~70% fine to course well graded sand, no HC odor	
							Silty Clay (CL), dark brown (10YR 3/3), damp, medium stiff, medium plasticity, no HC odor	
20	20' 1.2						Bottom of Boring 20 feet bgs 05-06-15	

ERAS Environmental	**Log of Boring B-7**
PROJECT: *14-003-01*	ADDRESS: *106-110 Hegenberger Road*
JOB NUMBER: *14-003-01*	LOCATION: *Center of Sump*
DATE STARTED: *05-06-15*	First Water (ft. bgs.): *14* DATE: *05-06-15*
DATE FINISHED: *05-06-15*	TOTAL DEPTH: *20 feet*
DRILLING METHOD: *Hydraulic Push*	GEOLOGIST: *Andrew Savage*
DRILLING COMPANY: *ECA*	Reviewed By: ---

DEPTH ft.	PID (ppm)	BLOWS/ 1/2'	SAMPLE NO.	RECOVERY	GRAPHIC LOG	WATER LEVEL	GEOLOGIC DESCRIPTION	WELL DIAGRAM
							Asphalt + 3/4 inch base rock	
							Silty Clay (CL), dark gray (10YR 4/1), damp, medium stiff, medium plasticity, slight HC odor	
	4' 51.2							
5							at 5 feet, strong HC odor	
	7' 18.7			NR				
				NR				
							at 9.5 feet, slight HC odor	
10								
	11.5' 1.1			NR				
						▽	Silty Sand (SM), dark gray (10YR 4/1), wet, medium dense, ~40% fines, ~60% fine to course well graded sand, slight HC odor	
15							Silty Clay (CL), dark gray (10YR 4/1), damp, medium stiff, medium plasticity, slight HC odor	
	16' 0.9						Silt (ML), dark gray (10YR 4/1), wet, medium stiff, low plasticity, ~10% fine to course well graded sand, slight HC odor	
							Silty Clay (CL), dark gray (10YR 4/1), damp, medium stiff, medium plasticity, slight HC odor	
20	20' 1.4						Bottom of Boring 20 feet bgs 05-06-15	

ERAS Environmental	Log of Boring B-8
PROJECT: *14-003-01*	ADDRESS: *106-110 Hegenberger Road*
JOB NUMBER: *14-003-01*	LOCATION: *NE Boring by former UST*
DATE STARTED: *05-06-15*	First Water (ft. bgs.): *18* DATE: *05-06-15*
DATE FINISHED: *05-06-15*	TOTAL DEPTH: *24 feet*
DRILLING METHOD: *Hydraulic Push*	GEOLOGIST: *Andrew Savage*
DRILLING COMPANY: *ECA*	Reviewed By: ---

DEPTH ft.	PID (ppm)	BLOWS/ 1/2'	SAMPLE NO.	RECOVERY	GRAPHIC LOG	WATER LEVEL	GEOLOGIC DESCRIPTION	WELL DIAGRAM
							Asphalt + 3/4 inch base rock	
							Silty Clay (CL), dark yellowish brown (10YR 3/6), damp, medium stiff, medium plasticity, no HC odor	
	4' 2.8						Gravely Sand (SW), dark yellowish brown (10YR 3/6), damp, ~60% fine to course well graded sand, ~40% 1/8 to 1/2 inch gravel, no HC odor	
5								
	7.5' 0.7			NR			Silty Clay (CL), dark gray (10YR 4/1), damp, medium stiff, medium plasticity, HC odor present	
							Gravely Sand (SW), dark gray (10YR 4/1), wet (perched water), medium dense, ~60% fine to course well graded sand, ~40% 1/4 to 1/2 inch gravel, HC odor	
10							Silty Clay (CL), dark gray (10YR 4/1), damp, medium stiff, medium plasticity, HC odor present	
							Silt (ML), dark gray (10YR 4/1), wet, medium stiff, low plasticity, HC odor	
	12' 0.8						Silty Clay (CL), dark gray (10YR 4/1), damp, medium stiff, medium plasticity, slight HC odor	
15							at 15 feet, no HC odor	
	16' 0.4					▽		
							Silty Sand (SM), dark gray (10YR 4/1), wet, medium dense, ~30% fines, ~70% fine to course well graded sand, no HC odor	
20	20' 0.4							

ERAS Environmental	Log of Boring B-8
PROJECT: *14-003-01*	ADDRESS: *106-110 Hegenberger Road*
JOB NUMBER: *14-003-01*	LOCATION: *NE Boring by former UST*
DATE STARTED: *05-06-15*	First Water (ft. bgs.): *18* DATE: *05-06-15*
DATE FINISHED: *05-06-15*	TOTAL DEPTH: *24 feet*
DRILLING METHOD: *Hydraulic Push*	GEOLOGIST: *Andrew Savage*
DRILLING COMPANY: *ECA*	Reviewed By: ---

DEPTH ft.	PID (ppm)	BLOWS/ 1/2'	SAMPLE NO.	RECOVERY	GRAPHIC LOG	WATER LEVEL	GEOLOGIC DESCRIPTION	WELL DIAGRAM
							Silty Sand (SM), dark gray (10YR 4/1), wet, medium dense, ~30% fines, ~70% fine to course well graded sand, no HC odor	
	24' 0.4						Bottom of Boring 24 feet bgs 05-06-15	
25								
30								
35								
40								

ERAS Environmental	Log of Boring B-9
PROJECT: *14-003-01*	ADDRESS: *106-110 Hegenberger Road*
JOB NUMBER: *14-003-01*	LOCATION: *SW end at former UST*
DATE STARTED: *05-06-15*	First Water (ft. bgs.): *18* DATE: *05-06-15*
DATE FINISHED: *05-06-15*	TOTAL DEPTH: *24 feet*
DRILLING METHOD: *Hydraulic Push*	GEOLOGIST: *Andrew Savage*
DRILLING COMPANY: *ECA*	Reviewed By: ---

DEPTH ft.	PID (ppm)	BLOWS/ 1/2'	SAMPLE NO.	RECOVERY	GRAPHIC LOG	WATER LEVEL	GEOLOGIC DESCRIPTION	WELL DIAGRAM
							Asphalt + 3/4 inch base rock	
	3' 0.4			NR			Gravely Sand (SW), dark gray (10YR 4/1), damp, medium dense, ~60% fine to course well graded sand, ~40% 1/8 to 1/2 inch gravel, no HC odor	
				NR			at 4 feet, wet (perched water)	
5	6' 0.4			NR				
				NR				
				NR				
				NR			Same	
10								
	12' 0.3			NR			Silty Clay (CL), dark gray (10YR 4/1), damp, medium stiff, medium plasticity, no HC odor	
				NR				
				NR				
				NR				
15	16' 0.3							
						▽	Silt (ML), dark gray (10YR 4/1), wet, medium stiff, low plasticity, HC odor	
							Silty Clay (CL), dark gray (10YR 4/1), damp, medium stiff, medium plasticity, HC odor present	
20	20' 0.4						Silty Sand (SM), dark gray (10YR 4/1), wet, medium dense, ~40% fines, ~60% fine to course well graded sand, no HC odor	

ERAS Environmental	Log of Boring B-9
PROJECT: *14-003-01*	ADDRESS: *106-110 Hegenberger Road*
JOB NUMBER: *14-003-01*	LOCATION: *SW end at former UST*
DATE STARTED: *05-06-15*	First Water (ft. bgs.): *18* DATE: *05-06-15*
DATE FINISHED: *05-06-15*	TOTAL DEPTH: *24 feet*
DRILLING METHOD: *Hydraulic Push*	GEOLOGIST: *Andrew Savage*
DRILLING COMPANY: *ECA*	Reviewed By: ---

DEPTH ft.	PID (ppm)	BLOWS/ 1/2'	SAMPLE NO.	RECOVERY	GRAPHIC LOG	WATER LEVEL	GEOLOGIC DESCRIPTION	WELL DIAGRAM
							Silty Sand (SM), dark gray (10YR 4/1), wet, medium dense, ~40% fines, ~60% fine to course well graded sand, no HC odor	
	24' 0.3						Bottom of Boring 24 feet bgs 05-06-15	
25								
30								
35								
40								

ERAS Environmental	Log of Boring B-10
PROJECT: *14-003-05*	ADDRESS: *106-110 Hegenberger Road*
JOB NUMBER: *14-003-05*	LOCATION: –
DATE STARTED: *09-03-15*	First Water (ft. bgs.): *18* DATE: *09-03-15*
DATE FINISHED: *09-03-15*	TOTAL DEPTH: *24 feet*
DRILLING METHOD: *Hydraulic Push*	GEOLOGIST: *Andrew Savage*
DRILLING COMPANY: *ECA*	Reviewed By: ---

DEPTH ft.	PID (ppm)	BLOWS/ 1/2'	SAMPLE NO.	RECOVERY	GRAPHIC LOG	WATER LEVEL	GEOLOGIC DESCRIPTION	WELL DIAGRAM
							Concrete + 3/4 inch base rock	
							Silty Sand (SM), dark yellowish brown (10YR 3/6), damp, medium dense, ~30% fines, ~70% fine to medium grain poorly graded sand, no HC odor	
	4' 6.8						Silty Clay (CL), very dark gray (10YR 3/1), damp, medium stiff, medium plasticity, HC odor present	
5								
	6.5' 1.3			NR			at 6 feet, very slight HC odor	
				NR				
				NR				
10								
	12' 1.6						at 12 feet, no HC odor	
15								
	16' 0.9							
						▽	from 18'-21', 1/2" silt stringers with water	
20	20' 0.4							

ERAS Environmental	Log of Boring B-10
PROJECT: *14-003-05*	ADDRESS: *106-110 Hegenberger Road*
JOB NUMBER: *14-003-05*	LOCATION: –
DATE STARTED: *09-03-15*	First Water (ft. bgs.): *18* DATE: *09-03-15*
DATE FINISHED: *09-03-15*	TOTAL DEPTH: *24 feet*
DRILLING METHOD: *Hydraulic Push*	GEOLOGIST: *Andrew Savage*
DRILLING COMPANY: *ECA*	Reviewed By: ---

DEPTH ft.	PID (ppm)	BLOWS/ 1/2'	SAMPLE NO.	RECOVERY	GRAPHIC LOG	WATER LEVEL	GEOLOGIC DESCRIPTION	WELL DIAGRAM
							Silty Clay (CL), very dark gray (10YR 3/1), damp, medium stiff	
							Clayey Silt (ML), dark gray (10YR 4/1), wet, medium stiff, low plasticity, no HC odor	
							Silty Clay (CL), dark gray (10YR 4/1), damp, medium stiff, medium plasticity, no HC odor	
	24' 0.3						Bottom of Boring 24 feet bgs 09-03-15	
25								
30								
35								
40								

ERAS Environmental	Log of Boring B-11
PROJECT: *14-003-05*	ADDRESS: *106-110 Hegenberger Road*
JOB NUMBER: *14-003-05*	LOCATION: –
DATE STARTED: *09-03-15*	First Water (ft. bgs.): *21* DATE: *09-03-15*
DATE FINISHED: *09-03-15*	TOTAL DEPTH: *24 feet*
DRILLING METHOD: *Hydraulic Push*	GEOLOGIST: *Andrew Savage*
DRILLING COMPANY: *ECA*	Reviewed By: ---

DEPTH ft.	PID (ppm)	BLOWS/ 1/2'	SAMPLE NO.	RECOVERY	GRAPHIC LOG	WATER LEVEL	GEOLOGIC DESCRIPTION	WELL DIAGRAM
							Concrete + 3/4 inch base rock	
							Silty Sand (SM), dark yellowish brown (10YR 3/6), damp, medium dense, ~30% fines, ~70% fine to medium grain poorly graded sand, no HC odor	
	3' 5.5			NR			Silty Clay (CL), very dark brown (10YR 2/2), damp, medium stiff, medium plasticity, no HC odor	
				NR				
							from 4'-5', color change to very dark gray (10YR 3/1), strong NC odor	
5								
	6' 89			NR				
				NR				
				NR				
				NR				
							at 9 feet, slight HC odor	
	9.5' 1.8			NR				
10				NR				
				NR				
				NR				
				NR			at 12 feet, no HC odor	
15								
	16' 1.2							
20	20' 0.9							

ERAS Environmental	Log of Boring B-11
PROJECT: *14-003-05*	ADDRESS: *106-110 Hegenberger Road*
JOB NUMBER: *14-003-05*	LOCATION: –
DATE STARTED: *09-03-15*	First Water (ft. bgs.): *21* DATE: *09-03-15*
DATE FINISHED: *09-03-15*	TOTAL DEPTH: *24 feet*
DRILLING METHOD: *Hydraulic Push*	GEOLOGIST: *Andrew Savage*
DRILLING COMPANY: *ECA*	Reviewed By: ---

DEPTH ft.	PID (ppm)	BLOWS/ 1/2'	SAMPLE NO.	RECOVERY	GRAPHIC LOG	WATER LEVEL	GEOLOGIC DESCRIPTION	WELL DIAGRAM
							Silty Clay (CL)	
							Silty Sand (SM), very dark gray (10YR 3/1), wet, medium dense, ~40%fines, ~60% fine to medium grained poorly graded sand, no HC odor	
							Silty Clay (CL), very dark gray (10YR 3/1), damp, medium stiff, medium plasticity, no HC odor	
	24' 0.6						Clayey Silt (ML), very dark gray (10YR 3/1), wet, medium stiff, low plasticity, no HC odor	
25							Bottom of Boring 24 feet bgs 09-03-15	
30								
35								
40								

ERAS Environmental	Log of Boring B-12
PROJECT: *14-003-05*	ADDRESS: *106-110 Hegenberger Road*
JOB NUMBER: *14-003-05*	LOCATION: –
DATE STARTED: *09-03-15*	First Water (ft. bgs.): *18* DATE: *09-03-15*
DATE FINISHED: *09-03-15*	TOTAL DEPTH: *24 feet*
DRILLING METHOD: *Hydraulic Push*	GEOLOGIST: *Andrew Savage*
DRILLING COMPANY: *ECA*	Reviewed By: ---

DEPTH ft.	PID (ppm)	BLOWS/ 1/2'	SAMPLE NO.	RECOVERY	GRAPHIC LOG	WATER LEVEL	GEOLOGIC DESCRIPTION	WELL DIAGRAM
							Concrete + 3/4 inch base rock	
							Silty Clay (CL), very dark grayish brown (10YR 3/2), damp, medium stiff, medium plasticity, HC odor present	
	4' 21.6						at 4 feet, very strong HC odor and color change to very dark gray (10YR 3/1),	
5								
	7.5' 9.2			NR			at 8 feet, HC odor present	
							at 9 feet, slight HC odor	
10	10' 1.2			NR				
				NR				
				NR				
				NR				
15								
	16' 1.6						at 16 feet, no HC odor	
						▽	from 18'-21', 1/2" silt stringers with water, no HC odor	
20	20' 0.9							

ERAS Environmental	Log of Boring B-12
PROJECT: *14-003-05*	ADDRESS: *106-110 Hegenberger Road*
JOB NUMBER: *14-003-05*	LOCATION: –
DATE STARTED: *09-03-15*	First Water (ft. bgs.): *18* DATE: *09-03-15*
DATE FINISHED: *09-03-15*	TOTAL DEPTH: *24 feet*
DRILLING METHOD: *Hydraulic Push*	GEOLOGIST: *Andrew Savage*
DRILLING COMPANY: *ECA*	Reviewed By: ---

DEPTH ft.	PID (ppm)	BLOWS/ 1/2'	SAMPLE NO.	RECOVERY	GRAPHIC LOG	WATER LEVEL	GEOLOGIC DESCRIPTION	WELL DIAGRAM
							Silty Clay (CL)	
							Silt (ML), dark gray (10YR 4/1), wet, medium stiff, low plasticity, ~90% fines, ~10% fine to coarse well graded sand, no HC odor	
	24' 0.8						Bottom of Boring 24 feet bgs 09-03-15	
25								
30								
35								
40								

ERAS Environmental	Log of Boring B-13
PROJECT: *14-003-05*	ADDRESS: *106-110 Hegenberger Road*
JOB NUMBER: *14-003-05*	LOCATION: –
DATE STARTED: *09-03-15*	First Water (ft. bgs.): *18* DATE: *09-03-15*
DATE FINISHED: *09-03-15*	TOTAL DEPTH: *24 feet*
DRILLING METHOD: *Hydraulic Push*	GEOLOGIST: *Andrew Savage*
DRILLING COMPANY: *ECA*	Reviewed By: ---

DEPTH ft.	PID (ppm)	BLOWS/ 1/2'	SAMPLE NO.	RECOVERY	GRAPHIC LOG	WATER LEVEL	GEOLOGIC DESCRIPTION	WELL DIAGRAM
							Asphalt + 3/4 inch base rock	
							Silty Clay (CL), very dark grayish brown (10YR 3/2), damp, medium stiff, medium plasticity, HC odor present	
	4' 7.8							
5								
	7' 0.8			NR			at 7 feet, very slight HC odor	
				NR				
10								
	12' 0.7						at 12 feet, no HC odor	
15								
	16' 1.1							
							Clayey Silt (ML), dark gray (10YR 4/1), mottled with dark yellowish brown (10YR 3/4), medium stiff, low plasticity, no HC odor	
20	20' 0.9							

ERAS Environmental	Log of Boring B-13
PROJECT: *14-003-05*	ADDRESS: *106-110 Hegenberger Road*
JOB NUMBER: *14-003-05*	LOCATION: –
DATE STARTED: *09-03-15*	First Water (ft. bgs.): *18* DATE: *09-03-15*
DATE FINISHED: *09-03-15*	TOTAL DEPTH: *24 feet*
DRILLING METHOD: *Hydraulic Push*	GEOLOGIST: *Andrew Savage*
DRILLING COMPANY: *ECA*	Reviewed By: ---

DEPTH ft.	PID (ppm)	BLOWS/ 1/2'	SAMPLE NO.	RECOVERY	GRAPHIC LOG	WATER LEVEL	GEOLOGIC DESCRIPTION	WELL DIAGRAM
							Clayey Silt (ML)	
							Silty Sand (SM), dark gray (10YR 4/1), wet, medium dense, ~40% fines, ~60% fine to medium grained poorly graded sand, no HC odor	
							Clayey Silt (ML), dark gray (10YR 4/1), wet, medium stiff, low plasticity, no HC odor	
	24' 0.7						Silty Clay (CL), dark gray (10YR 4/1), damp, medium stiff, medium plasticity, no HC odor	
25							Bottom of Boring 24 feet bgs 09-03-15	
30								
35								
40								

ERAS Environmental	Log of Boring B-14
PROJECT: *14-003-05*	ADDRESS: *106-110 Hegenberger Road*
JOB NUMBER: *14-003-05*	LOCATION: –
DATE STARTED: *09-03-15*	First Water (ft. bgs.): *17.5* DATE: *09-03-15*
DATE FINISHED: *09-03-15*	TOTAL DEPTH: *24 feet*
DRILLING METHOD: *Hydraulic Push*	GEOLOGIST: *Andrew Savage*
DRILLING COMPANY: *ECA*	Reviewed By: ---

DEPTH ft.	PID (ppm)	BLOWS/ 1/2'	SAMPLE NO.	RECOVERY	GRAPHIC LOG	WATER LEVEL	GEOLOGIC DESCRIPTION	WELL DIAGRAM
							Asphalt + 3/4 inch base rock	
							Silty Clay (CL), very dark grayish brown (10YR 3/2), damp, medium stiff, medium plasticity, HC odor present	
	4' 12.5							
5								
	7' 1.1			NR			at 7 feet, slight HC odor	
				NR				
10							at 10 feet, color change to dark gray (10YR 4/1)	
	12' 0.5						at 12 feet, no HC odor	
15								
	16' 1.5							
						▽	from 17.5'-20', 1/2 inch silt stringers with water, no HC odor	
20	20' 0.9							

ERAS Environmental	**Log of Boring B-14**
PROJECT: *14-003-05*	ADDRESS: *106-110 Hegenberger Road*
JOB NUMBER: *14-003-05*	LOCATION: –
DATE STARTED: *09-03-15*	First Water (ft. bgs.): *17.5* DATE: *09-03-15*
DATE FINISHED: *09-03-15*	TOTAL DEPTH: *24 feet*
DRILLING METHOD: *Hydraulic Push*	GEOLOGIST: *Andrew Savage*
DRILLING COMPANY: *ECA*	Reviewed By: ---

DEPTH ft.	PID (ppm)	BLOWS/ 1/2'	SAMPLE NO.	RECOVERY	GRAPHIC LOG	WATER LEVEL	GEOLOGIC DESCRIPTION	WELL DIAGRAM
							Silty Sand (SM), dark gray (10YR 4/1), wet, medium dense, ~40% fines, ~60% fine to medium grained poorly graded sand, no HC odor	
							Clayey Silt (ML), dark gray (10YR 4/1), wet, medium stiff, low plasticity, no HC odor	
							Silty Clay (CL), dark gray (10YR 4/1), damp, medium stiff, medium plasticity, no HC odor	
	24' 0.8						Bottom of Boring 24 feet bgs 09-03-15	
25								
30								
35								
40								

ERAS Environmental	Log of Boring B-15
PROJECT: *14-003-05*	ADDRESS: *106-110 Hegenberger Road*
JOB NUMBER: *14-003-05*	LOCATION: –
DATE STARTED: *09-04-15*	First Water (ft. bgs.): *18* DATE: *09-04-15*
DATE FINISHED: *09-04-15*	TOTAL DEPTH: *24 feet*
DRILLING METHOD: *Hydraulic Push*	GEOLOGIST: *Andrew Savage*
DRILLING COMPANY: *ECA*	Reviewed By: ---

DEPTH ft.	PID (ppm)	BLOWS/ 1/2'	SAMPLE NO.	RECOVERY	GRAPHIC LOG	WATER LEVEL	GEOLOGIC DESCRIPTION	WELL DIAGRAM
							Asphalt + 3/4 inch base rock	
							Silty Clay (CL), dark brown (10YR 3/3), damp, medium stiff, medium plasticity, no HC odor	
	4' 0.6						at 4 feet, slight HC odor	
5							at 5 feet, color change to very dark grayish brown (10YR 3/2)	
	7.5' 0.5			NR			at 8 feet, no HC odor	
10							at 10 feet, color change to dark gray (10YR 4/1)	
	12' 0.4						Clayey Silt (ML), dark gray (10YR 4/1), damp, medium stiff, low plasticity, no HC odor	
							Silty Clay (CL), dark gray (10YR 4/1), damp, medium stiff, medium plasticity, no HC odor	
15	16' 0.3							
	19.5' 0.3			NR			Clayey Silt (ML), dark gray (10YR 4/1), mottled with dark yellowish brown (10YR 3/4), wet, medium stiff, low plasticity, no HC odor	
20								

ERAS Environmental	Log of Boring B-15
PROJECT: *14-003-05*	ADDRESS: *106-110 Hegenberger Road*
JOB NUMBER: *14-003-05*	LOCATION: –
DATE STARTED: *09-04-15*	First Water (ft. bgs.): *18* DATE: *09-04-15*
DATE FINISHED: *09-04-15*	TOTAL DEPTH: *24 feet*
DRILLING METHOD: *Hydraulic Push*	GEOLOGIST: *Andrew Savage*
DRILLING COMPANY: *ECA*	Reviewed By: ---

DEPTH ft.	PID (ppm)	BLOWS/ 1/2'	SAMPLE NO.	RECOVERY	GRAPHIC LOG	WATER LEVEL	GEOLOGIC DESCRIPTION	WELL DIAGRAM
							Clayey Silt (ML)	
							Silty Sand (SM), dark gray (10YR 4/1), wet, medium dense, ~40% fines, ~60% fine grained poorly graded sand, no HC odor	
	24' 0.3						Bottom of Boring 24 feet bgs 09-04-15	
25								
30								
35								
40								

ERAS Environmental	Log of Boring B-16
PROJECT: *14-003-05*	ADDRESS: *106-110 Hegenberger Road*
JOB NUMBER: *14-003-05*	LOCATION: –
DATE STARTED: *09-04-15*	First Water (ft. bgs.): *17.5* DATE: *09-04-15*
DATE FINISHED: *09-04-15*	TOTAL DEPTH: *24 feet*
DRILLING METHOD: *Hydraulic Push*	GEOLOGIST: *Andrew Savage*
DRILLING COMPANY: *ECA*	Reviewed By: ---

DEPTH ft.	PID (ppm)	BLOWS/ 1/2'	SAMPLE NO.	RECOVERY	GRAPHIC LOG	WATER LEVEL	GEOLOGIC DESCRIPTION	WELL DIAGRAM
							Asphalt + 3/4 inch base rock	
							Silty Clay (CL), very dark grayish brown (10YR 3/2), damp, medium stiff, medium plasticity, no HC odor	
	4' 0.5							
5								
	7' 0.3			NR			at 7 feet, color change to dark gray (10YR 4/1), slight HC odor	
				NR				
10							at 10 feet, no HC odor	
	11.5' 0.2			NR				
15								
	16' 0.2							
						▽		
	19' 0.2			NR			Clayey Silt (ML), dark gray (10YR 4/1), mottled with dark yellowish brown (10YR 3/4), wet, medium stiff, low plasticity, no HC odor	
20				NR				

ERAS Environmental	Log of Boring B-16
PROJECT: *14-003-05*	ADDRESS: *106-110 Hegenberger Road*
JOB NUMBER: *14-003-05*	LOCATION: –
DATE STARTED: *09-04-15*	First Water (ft. bgs.): *17.5* DATE: *09-04-15*
DATE FINISHED: *09-04-15*	TOTAL DEPTH: *24 feet*
DRILLING METHOD: *Hydraulic Push*	GEOLOGIST: *Andrew Savage*
DRILLING COMPANY: *ECA*	Reviewed By: ---

DEPTH ft.	PID (ppm)	BLOWS/ 1/2'	SAMPLE NO.	RECOVERY	GRAPHIC LOG	WATER LEVEL	GEOLOGIC DESCRIPTION	WELL DIAGRAM
							Clayey Silt (ML)	
	23.5' 0.1			NR			Silty Sand (SM), dark gray (10YR 4/1), wet, medium dense, ~40% fines, ~60% fine to medium grained poorly graded sand, no HC odor	
							Bottom of Boring 24 feet bgs 09-04-15	
25								
30								
35								
40								

Appendix E

Analytical Results – Soil

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1505259

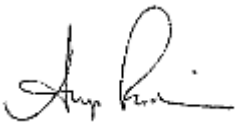
Report Created for: ERAS Environmental, Inc.

1533 B Street
Hayward, CA 94541

Project Contact: Andrew Savage
Project P.O.:
Project Name: #14-003-01; 106-110 Hegenberger

Project Received: 05/07/2015

Analytical Report reviewed & approved for release on 05/14/2015 by:



Angela Rydelius,
Laboratory Manager

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

Glossary of Terms & Qualifier Definitions

Client: ERAS Environmental, Inc.
Project: #14-003-01; 106-110 Hegenberger
WorkOrder: 1505259

Glossary Abbreviation

95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DUP	Duplicate
EDL	Estimated Detection Limit
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
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PF	Prep Factor
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
SPLP	Synthetic Precipitation Leachate Procedure
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

Analytical Qualifiers

a1	sample diluted due to matrix interference
c9	Internal standard is out of acceptance criteria due to matrix interference therefore values are estimated
e2	diesel range compounds are significant; no recognizable pattern
e3	aged diesel is significant
e4	gasoline range compounds are significant.
e7	oil range compounds are significant

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Glossary of Terms & Qualifier Definitions

Client: ERAS Environmental, Inc.
Project: #14-003-01; 106-110 Hegenberger
WorkOrder: 1505259

Quality Control Qualifiers

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

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Analytical Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505259
Project:	#14-003-01; 106-110 Hegenberger	**Extraction Method:**	SW5030B
Date Received:	5/7/15 17:06	**Analytical Method:**	SW8260B
Date Prepared:	5/7/15	**Unit:**	mg/kg

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

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-1, 1.5-2	1505259-006A	Soil	05/05/2015 09:16	GC10	104588

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	0.25	1	05/08/2015 18:18

Surrogates	REC (%)	Limits	
Dibromofluoromethane	106	70-130	05/08/2015 18:18

Analyst(s): GM

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-1, 11.5-12	1505259-007A	Soil	05/05/2015 09:24	GC10	104588

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	0.25	1	05/08/2015 18:59

Surrogates	REC (%)	Limits	
Dibromofluoromethane	106	70-130	05/08/2015 18:59

Analyst(s): GM

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-2, 3.5-4	1505259-008A	Soil	05/05/2015 10:33	GC10	104588

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**120**	12	50	05/12/2015 15:43

Surrogates	REC (%)	Limits	
Dibromofluoromethane	108	70-130	05/12/2015 15:43

Analyst(s): KF

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-2, 6-6.5	1505259-009A	Soil	05/05/2015 10:34	GC10	104588

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**230**	10	40	05/11/2015 22:34

Surrogates	REC (%)	Limits	
Dibromofluoromethane	101	70-130	05/11/2015 22:34

Analyst(s): KF

(Cont.)

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Analytical Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505259
Project:	#14-003-01; 106-110 Hegenberger	**Extraction Method:**	SW5030B
Date Received:	5/7/15 17:06	**Analytical Method:**	SW8260B
Date Prepared:	5/7/15	**Unit:**	mg/kg

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

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-2, 10-10.5	**1505259-010A**	**Soil**	**05/05/2015 10:37**	**GC10**	**104588**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	0.25	1	05/11/2015 23:15
Surrogates	**REC (%)**	**Limits**		
Dibromofluoromethane	110	70-130		05/11/2015 23:15

Analyst(s): KF

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-3, 2.5-4	**1505259-011A**	**Soil**	**05/05/2015 11:23**	**GC10**	**104588**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**310**	50	200	05/12/2015 17:05
Surrogates	**REC (%)**	**Limits**		
Dibromofluoromethane	111	70-130		05/12/2015 17:05

Analyst(s): KF

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-3, 7.5-8	**1505259-012A**	**Soil**	**05/05/2015 11:26**	**GC10**	**104588**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**35**	1.2	5	05/12/2015 00:37
Surrogates	**REC (%)**	**Limits**		
Dibromofluoromethane	101	70-130		05/12/2015 00:37

Analyst(s): KF

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-3, 10.5-11	**1505259-013A**	**Soil**	**05/05/2015 11:28**	**GC10**	**104588**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**0.67**	0.25	1	05/08/2015 21:43
Surrogates	**REC (%)**	**Limits**		
Dibromofluoromethane	105	70-130		05/08/2015 21:43

Analyst(s): GM

(Cont.)

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Analytical Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505259
Project:	#14-003-01; 106-110 Hegenberger	**Extraction Method:**	SW5030B
Date Received:	5/7/15 17:06	**Analytical Method:**	SW8260B
Date Prepared:	5/7/15	**Unit:**	mg/kg

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

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-4, 5.5-6	**1505259-014A**	**Soil**	**05/05/2015 11:52**	**GC10**	**104588**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**9.3**	0.25	1	05/12/2015 01:59

Surrogates	REC (%)	Limits	
Dibromofluoromethane	108	70-130	05/12/2015 01:59

Analyst(s): KF

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-4, 11.5-12	**1505259-015A**	**Soil**	**05/05/2015 13:01**	**GC10**	**104588**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	0.25	1	05/08/2015 23:05

Surrogates	REC (%)	Limits	
Dibromofluoromethane	102	70-130	05/08/2015 23:05

Analyst(s): GM

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-5, 3-3.5	**1505259-016A**	**Soil**	**05/05/2015 13:53**	**GC10**	**104588**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**0.30**	0.25	1	05/08/2015 23:46

Surrogates	REC (%)	Limits	
Dibromofluoromethane	108	70-130	05/08/2015 23:46

Analyst(s): GM

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-5, 10.5-11	**1505259-017A**	**Soil**	**05/05/2015 13:59**	**GC10**	**104588**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	0.25	1	05/12/2015 03:22

Surrogates	REC (%)	Limits	
Dibromofluoromethane	110	70-130	05/12/2015 03:22

Analyst(s): KF

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Analytical Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505259
Project:	#14-003-01; 106-110 Hegenberger	**Extraction Method:**	SW5030B
Date Received:	5/7/15 17:06	**Analytical Method:**	SW8260B
Date Prepared:	5/7/15	**Unit:**	mg/kg

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

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-6, 3.5-4	1505259-018A	Soil	05/05/2015 14:30	GC10	104588

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	0.25	1	05/09/2015 00:27

Surrogates	REC (%)	Limits	
Dibromofluoromethane	107	70-130	05/09/2015 00:27

Analyst(s): GM

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-6, 7.5-8	1505259-019A	Soil	05/05/2015 14:35	GC10	104588

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	0.25	1	05/09/2015 01:08

Surrogates	REC (%)	Limits	
Dibromofluoromethane	109	70-130	05/09/2015 01:08

Analyst(s): GM

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-7, 3.5-4	1505259-020A	Soil	05/06/2015 07:58	GC10	104588

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**87**	2.5	10	05/12/2015 04:03

Surrogates	REC (%)	Limits	
Dibromofluoromethane	106	70-130	05/12/2015 04:03

Analyst(s): KF

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-7, 6.5-7	1505259-021A	Soil	05/06/2015 07:59	GC10	104588

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**12**	1.7	6.7	05/12/2015 17:46

Surrogates	REC (%)	Limits	
Dibromofluoromethane	107	70-130	05/12/2015 17:46

Analyst(s): KF

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Analytical Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505259
Project:	#14-003-01; 106-110 Hegenberger	**Extraction Method:**	SW5030B
Date Received:	5/7/15 17:06	**Analytical Method:**	SW8260B
Date Prepared:	5/7/15	**Unit:**	mg/kg

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

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-7, 11-11.5	**1505259-022A**	**Soil**	**05/06/2015 08:01**	**GC10**	**104588**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	0.25	1	05/09/2015 02:30

Surrogates	REC (%)	Limits	
Dibromofluoromethane	107	70-130	05/09/2015 02:30

Analyst(s): GM

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-8, 3.5-4	**1505259-023A**	**Soil**	**05/06/2015 09:14**	**GC16**	**104588**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**9.0**	0.25	1	05/12/2015 06:11

Surrogates	REC (%)	Limits	
Dibromofluoromethane	96	70-130	05/12/2015 06:11

Analyst(s): KF

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-8, 11.5-12	**1505259-024A**	**Soil**	**05/06/2015 09:25**	**GC10**	**104595**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	0.25	1	05/08/2015 14:09

Surrogates	REC (%)	Limits	
Dibromofluoromethane	108	70-130	05/08/2015 14:09

Analyst(s): GM

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-9, 2.5-3	**1505259-025A**	**Soil**	**05/06/2015 11:02**	**GC10**	**104595**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	0.25	1	05/12/2015 14:20

Surrogates	REC (%)	Limits	
Dibromofluoromethane	105	70-130	05/12/2015 14:20

Analyst(s): KF

(Cont.)

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Analytical Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505259
Project:	#14-003-01; 106-110 Hegenberger	**Extraction Method:**	SW5030B
Date Received:	5/7/15 17:06	**Analytical Method:**	SW8260B
Date Prepared:	5/7/15	**Unit:**	mg/kg

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

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-9, 11.5-12	**1505259-026A**	**Soil**	**05/06/2015 11:37**	**GC10**	**104595**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	0.25	1	05/12/2015 15:02

Surrogates	REC (%)	Limits	
Dibromofluoromethane	104	70-130	05/12/2015 15:02

Analyst(s): KF

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Analytical Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505259
Project:	#14-003-01; 106-110 Hegenberger	**Extraction Method:**	SW5030B
Date Received:	5/7/15 17:06	**Analytical Method:**	SW8260B
Date Prepared:	5/7/15	**Unit:**	mg/Kg

Volatile Organics by P&T and GC/MS

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-1, 1.5-2	**1505259-006A**	**Soil**	**05/05/2015 09:16**	**GC10**	**104588**

Analytes	Result	RL	DF	Date Analyzed
Benzene	ND	0.0050	1	05/08/2015 18:18
Ethylbenzene	ND	0.0050	1	05/08/2015 18:18
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	05/08/2015 18:18
Naphthalene	ND	0.0050	1	05/08/2015 18:18
Toluene	ND	0.0050	1	05/08/2015 18:18
Xylenes, Total	ND	0.0050	1	05/08/2015 18:18

Surrogates	REC (%)	Limits	
Dibromofluoromethane	87	70-130	05/08/2015 18:18
Toluene-d8	97	70-130	05/08/2015 18:18
4-BFB	95	70-130	05/08/2015 18:18

Analyst(s): KF

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-1, 11.5-12	**1505259-007A**	**Soil**	**05/05/2015 09:24**	**GC10**	**104588**

Analytes	Result	RL	DF	Date Analyzed
Benzene	ND	0.0050	1	05/08/2015 18:59
Ethylbenzene	ND	0.0050	1	05/08/2015 18:59
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	05/08/2015 18:59
Naphthalene	ND	0.0050	1	05/08/2015 18:59
Toluene	ND	0.0050	1	05/08/2015 18:59
Xylenes, Total	ND	0.0050	1	05/08/2015 18:59

Surrogates	REC (%)	Limits	
Dibromofluoromethane	87	70-130	05/08/2015 18:59
Toluene-d8	97	70-130	05/08/2015 18:59
4-BFB	91	70-130	05/08/2015 18:59

Analyst(s): KF

(Cont.)

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Analytical Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505259
Project:	#14-003-01; 106-110 Hegenberger	**Extraction Method:**	SW5030B
Date Received:	5/7/15 17:06	**Analytical Method:**	SW8260B
Date Prepared:	5/7/15	**Unit:**	mg/Kg

Volatile Organics by P&T and GC/MS

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-2, 3.5-4	**1505259-008A**	**Soil**	**05/05/2015 10:33**	**GC10**	**104588**

Analytes	Result	RL	DF	Date Analyzed
Benzene	**0.16**	0.050	10	05/11/2015 21:53
Ethylbenzene	ND	0.050	10	05/11/2015 21:53
Methyl-t-butyl ether (MTBE)	ND	0.050	10	05/11/2015 21:53
Naphthalene	ND	0.050	10	05/11/2015 21:53
Toluene	ND	0.050	10	05/11/2015 21:53
Xylenes, Total	ND	0.050	10	05/11/2015 21:53

Surrogates	REC (%)	Limits	
Dibromofluoromethane	75	70-130	05/11/2015 21:53
Toluene-d8	99	70-130	05/11/2015 21:53
4-BFB	79	70-130	05/11/2015 21:53

Analyst(s): KF

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-2, 6-6.5	**1505259-009A**	**Soil**	**05/05/2015 10:34**	**GC10**	**104588**

Analytes	Result	RL	DF	Date Analyzed
Benzene	**2.0**	0.50	100	05/12/2015 16:24
Ethylbenzene	**9.4**	0.50	100	05/12/2015 16:24
Methyl-t-butyl ether (MTBE)	ND	0.50	100	05/12/2015 16:24
Naphthalene	**2.1**	0.50	100	05/12/2015 16:24
Toluene	ND	0.50	100	05/12/2015 16:24
Xylenes, Total	ND	0.50	100	05/12/2015 16:24

Surrogates	REC (%)	Limits	
Dibromofluoromethane	92	70-130	05/12/2015 16:24
Toluene-d8	89	70-130	05/12/2015 16:24
4-BFB	86	70-130	05/12/2015 16:24

Analyst(s): KF

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Analytical Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505259
Project:	#14-003-01; 106-110 Hegenberger	**Extraction Method:**	SW5030B
Date Received:	5/7/15 17:06	**Analytical Method:**	SW8260B
Date Prepared:	5/7/15	**Unit:**	mg/Kg

Volatile Organics by P&T and GC/MS

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-2, 10-10.5	**1505259-010A**	**Soil**	**05/05/2015 10:37**	**GC10**	**104588**

Analytes	Result	RL	DF	Date Analyzed
Benzene	ND	0.0050	1	05/11/2015 23:15
Ethylbenzene	ND	0.0050	1	05/11/2015 23:15
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	05/11/2015 23:15
Naphthalene	ND	0.0050	1	05/11/2015 23:15
Toluene	ND	0.0050	1	05/11/2015 23:15
Xylenes, Total	ND	0.0050	1	05/11/2015 23:15
Surrogates	**REC (%)**	**Limits**		
Dibromofluoromethane	91	70-130		05/11/2015 23:15
Toluene-d8	97	70-130		05/11/2015 23:15
4-BFB	95	70-130		05/11/2015 23:15

Analyst(s): KF

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-3, 2.5-4	**1505259-011A**	**Soil**	**05/05/2015 11:23**	**GC10**	**104588**

Analytes	Result	RL	DF	Date Analyzed
Benzene	**1.8**	0.10	20	05/11/2015 23:56
Ethylbenzene	**0.97**	0.10	20	05/11/2015 23:56
Methyl-t-butyl ether (MTBE)	ND	0.10	20	05/11/2015 23:56
Naphthalene	**1.8**	0.10	20	05/11/2015 23:56
Toluene	ND	0.10	20	05/11/2015 23:56
Xylenes, Total	**0.14**	0.10	20	05/11/2015 23:56
Surrogates	**REC (%)**	**Limits**		
Dibromofluoromethane	78	70-130		05/11/2015 23:56
Toluene-d8	100	70-130		05/11/2015 23:56
4-BFB	76	70-130		05/11/2015 23:56

Analyst(s): KF

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Analytical Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505259
Project:	#14-003-01; 106-110 Hegenberger	**Extraction Method:**	SW5030B
Date Received:	5/7/15 17:06	**Analytical Method:**	SW8260B
Date Prepared:	5/7/15	**Unit:**	mg/Kg

Volatile Organics by P&T and GC/MS

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-3, 7.5-8	**1505259-012A**	**Soil**	**05/05/2015 11:26**	**GC10**	**104588**

Analytes	Result	RL	DF	Date Analyzed
Benzene	**0.36**	0.025	5	05/12/2015 00:37
Ethylbenzene	**0.36**	0.025	5	05/12/2015 00:37
Methyl-t-butyl ether (MTBE)	ND	0.025	5	05/12/2015 00:37
Naphthalene	**0.61**	0.025	5	05/12/2015 00:37
Toluene	ND	0.025	5	05/12/2015 00:37
Xylenes, Total	**0.045**	0.025	5	05/12/2015 00:37
Surrogates	REC (%)	Limits		
Dibromofluoromethane	83	70-130		05/12/2015 00:37
Toluene-d8	94	70-130		05/12/2015 00:37
4-BFB	88	70-130		05/12/2015 00:37

Analyst(s): KF

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-3, 10.5-11	**1505259-013A**	**Soil**	**05/05/2015 11:28**	**GC10**	**104588**

Analytes	Result	RL	DF	Date Analyzed
Benzene	**0.047**	0.0050	1	05/08/2015 21:43
Ethylbenzene	**0.032**	0.0050	1	05/08/2015 21:43
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	05/08/2015 21:43
Naphthalene	ND	0.0050	1	05/08/2015 21:43
Toluene	ND	0.0050	1	05/08/2015 21:43
Xylenes, Total	**0.064**	0.0050	1	05/08/2015 21:43
Surrogates	REC (%)	Limits		
Dibromofluoromethane	87	70-130		05/08/2015 21:43
Toluene-d8	98	70-130		05/08/2015 21:43
4-BFB	96	70-130		05/08/2015 21:43

Analyst(s): KF

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Analytical Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505259
Project:	#14-003-01; 106-110 Hegenberger	**Extraction Method:**	SW5030B
Date Received:	5/7/15 17:06	**Analytical Method:**	SW8260B
Date Prepared:	5/7/15	**Unit:**	mg/Kg

Volatile Organics by P&T and GC/MS

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-4, 5.5-6	**1505259-014A**	**Soil**	**05/05/2015 11:52**	**GC10**	**104588**

Analytes	Result	RL	DF	Date Analyzed
Benzene	ND	0.0050	1	05/08/2015 22:24
Ethylbenzene	ND	0.0050	1	05/08/2015 22:24
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	05/08/2015 22:24
Naphthalene	ND	0.0050	1	05/08/2015 22:24
Toluene	ND	0.0050	1	05/08/2015 22:24
Xylenes, Total	ND	0.0050	1	05/08/2015 22:24

Surrogates	REC (%)	Limits	
Dibromofluoromethane	87	70-130	05/08/2015 22:24
Toluene-d8	105	70-130	05/08/2015 22:24
4-BFB	81	70-130	05/08/2015 22:24

Analyst(s): KF

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-4, 11.5-12	**1505259-015A**	**Soil**	**05/05/2015 13:01**	**GC10**	**104588**

Analytes	Result	RL	DF	Date Analyzed
Benzene	ND	0.0050	1	05/08/2015 23:05
Ethylbenzene	ND	0.0050	1	05/08/2015 23:05
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	05/08/2015 23:05
Naphthalene	ND	0.0050	1	05/08/2015 23:05
Toluene	ND	0.0050	1	05/08/2015 23:05
Xylenes, Total	ND	0.0050	1	05/08/2015 23:05

Surrogates	REC (%)	Limits	
Dibromofluoromethane	84	70-130	05/08/2015 23:05
Toluene-d8	100	70-130	05/08/2015 23:05
4-BFB	89	70-130	05/08/2015 23:05

Analyst(s): KF

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Analytical Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505259
Project:	#14-003-01; 106-110 Hegenberger	**Extraction Method:**	SW5030B
Date Received:	5/7/15 17:06	**Analytical Method:**	SW8260B
Date Prepared:	5/7/15	**Unit:**	mg/Kg

Volatile Organics by P&T and GC/MS

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-5, 3-3.5	**1505259-016A**	**Soil**	**05/05/2015 13:53**	**GC10**	**104588**

Analytes	Result	RL	DF	Date Analyzed
Benzene	ND	0.0050	1	05/08/2015 23:46
Ethylbenzene	ND	0.0050	1	05/08/2015 23:46
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	05/08/2015 23:46
Naphthalene	ND	0.0050	1	05/08/2015 23:46
Toluene	ND	0.0050	1	05/08/2015 23:46
Xylenes, Total	ND	0.0050	1	05/08/2015 23:46
Surrogates	REC (%)	Limits		
Dibromofluoromethane	89	70-130		05/08/2015 23:46
Toluene-d8	98	70-130		05/08/2015 23:46
4-BFB	89	70-130		05/08/2015 23:46

Analyst(s): KF

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-5, 10.5-11	**1505259-017A**	**Soil**	**05/05/2015 13:59**	**GC10**	**104588**

Analytes	Result	RL	DF	Date Analyzed
Benzene	ND	0.0050	1	05/12/2015 03:22
Ethylbenzene	ND	0.0050	1	05/12/2015 03:22
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	05/12/2015 03:22
Naphthalene	ND	0.0050	1	05/12/2015 03:22
Toluene	ND	0.0050	1	05/12/2015 03:22
Xylenes, Total	ND	0.0050	1	05/12/2015 03:22
Surrogates	REC (%)	Limits		
Dibromofluoromethane	91	70-130		05/12/2015 03:22
Toluene-d8	98	70-130		05/12/2015 03:22
4-BFB	88	70-130		05/12/2015 03:22

Analyst(s): KF

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Analytical Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505259
Project:	#14-003-01; 106-110 Hegenberger	**Extraction Method:**	SW5030B
Date Received:	5/7/15 17:06	**Analytical Method:**	SW8260B
Date Prepared:	5/7/15	**Unit:**	mg/Kg

Volatile Organics by P&T and GC/MS

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-6, 3.5-4	**1505259-018A**	**Soil**	**05/05/2015 14:30**	**GC10**	**104588**

Analytes	Result	RL	DF	Date Analyzed
Benzene	ND	0.0050	1	05/09/2015 00:27
Ethylbenzene	ND	0.0050	1	05/09/2015 00:27
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	05/09/2015 00:27
Naphthalene	ND	0.0050	1	05/09/2015 00:27
Toluene	ND	0.0050	1	05/09/2015 00:27
Xylenes, Total	ND	0.0050	1	05/09/2015 00:27

Surrogates	REC (%)	Limits	
Dibromofluoromethane	88	70-130	05/09/2015 00:27
Toluene-d8	99	70-130	05/09/2015 00:27
4-BFB	95	70-130	05/09/2015 00:27

Analyst(s): KF

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-6, 7.5-8	**1505259-019A**	**Soil**	**05/05/2015 14:35**	**GC10**	**104588**

Analytes	Result	RL	DF	Date Analyzed
Benzene	ND	0.0050	1	05/09/2015 01:08
Ethylbenzene	ND	0.0050	1	05/09/2015 01:08
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	05/09/2015 01:08
Naphthalene	ND	0.0050	1	05/09/2015 01:08
Toluene	ND	0.0050	1	05/09/2015 01:08
Xylenes, Total	ND	0.0050	1	05/09/2015 01:08

Surrogates	REC (%)	Limits	
Dibromofluoromethane	90	70-130	05/09/2015 01:08
Toluene-d8	97	70-130	05/09/2015 01:08
4-BFB	94	70-130	05/09/2015 01:08

Analyst(s): KF

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Analytical Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505259
Project:	#14-003-01; 106-110 Hegenberger	**Extraction Method:**	SW5030B
Date Received:	5/7/15 17:06	**Analytical Method:**	SW8260B
Date Prepared:	5/7/15	**Unit:**	mg/Kg

Volatile Organics by P&T and GC/MS

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-7, 3.5-4	**1505259-020A**	**Soil**	**05/06/2015 07:58**	**GC10**	**104588**

Analytes	Result	RL	DF	Date Analyzed
Benzene	**0.43**	0.050	10	05/12/2015 04:03
Ethylbenzene	**0.30**	0.050	10	05/12/2015 04:03
Methyl-t-butyl ether (MTBE)	ND	0.050	10	05/12/2015 04:03
Naphthalene	**0.76**	0.050	10	05/12/2015 04:03
Toluene	ND	0.050	10	05/12/2015 04:03
Xylenes, Total	ND	0.050	10	05/12/2015 04:03

Surrogates	REC (%)	Limits	
Dibromofluoromethane	87	70-130	05/12/2015 04:03
Toluene-d8	93	70-130	05/12/2015 04:03
4-BFB	79	70-130	05/12/2015 04:03

Analyst(s): KF

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-7, 6.5-7	**1505259-021A**	**Soil**	**05/06/2015 07:59**	**GC10**	**104588**

Analytes	Result	RL	DF	Date Analyzed
Benzene	**0.35**	0.033	6.7	05/12/2015 17:46
Ethylbenzene	**0.63**	0.033	6.7	05/12/2015 17:46
Methyl-t-butyl ether (MTBE)	ND	0.033	6.7	05/12/2015 17:46
Naphthalene	**0.20**	0.033	6.7	05/12/2015 17:46
Toluene	ND	0.033	6.7	05/12/2015 17:46
Xylenes, Total	**0.42**	0.033	6.7	05/12/2015 17:46

Surrogates	REC (%)	Limits	
Dibromofluoromethane	88	70-130	05/12/2015 17:46
Toluene-d8	92	70-130	05/12/2015 17:46
4-BFB	79	70-130	05/12/2015 17:46

Analyst(s): KF

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Analytical Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505259
Project:	#14-003-01; 106-110 Hegenberger	**Extraction Method:**	SW5030B
Date Received:	5/7/15 17:06	**Analytical Method:**	SW8260B
Date Prepared:	5/7/15	**Unit:**	mg/Kg

Volatile Organics by P&T and GC/MS

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-7, 11-11.5	**1505259-022A**	**Soil**	**05/06/2015 08:01**	**GC10**	**104588**

Analytes	Result	RL	DF	Date Analyzed
Benzene	ND	0.0050	1	05/09/2015 02:30
Ethylbenzene	ND	0.0050	1	05/09/2015 02:30
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	05/09/2015 02:30
Naphthalene	ND	0.0050	1	05/09/2015 02:30
Toluene	ND	0.0050	1	05/09/2015 02:30
Xylenes, Total	ND	0.0050	1	05/09/2015 02:30
Surrogates	**REC (%)**	**Limits**		
Dibromofluoromethane	89	70-130		05/09/2015 02:30
Toluene-d8	98	70-130		05/09/2015 02:30
4-BFB	96	70-130		05/09/2015 02:30

Analyst(s): KF

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-8, 3.5-4	**1505259-023A**	**Soil**	**05/06/2015 09:14**	**GC16**	**104588**

Analytes	Result	RL	DF	Date Analyzed
Benzene	ND	0.0050	1	05/12/2015 06:11
Ethylbenzene	**0.061**	0.0050	1	05/12/2015 06:11
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	05/12/2015 06:11
Naphthalene	**0.035**	0.0050	1	05/12/2015 06:11
Toluene	ND	0.0050	1	05/12/2015 06:11
Xylenes, Total	**0.18**	0.0050	1	05/12/2015 06:11
Surrogates	**REC (%)**	**Limits**		
Dibromofluoromethane	85	70-130		05/12/2015 06:11
Toluene-d8	92	70-130		05/12/2015 06:11
4-BFB	113	70-130		05/12/2015 06:11

Analyst(s): KF

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Analytical Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505259
Project:	#14-003-01; 106-110 Hegenberger	**Extraction Method:**	SW5030B
Date Received:	5/7/15 17:06	**Analytical Method:**	SW8260B
Date Prepared:	5/7/15	**Unit:**	mg/Kg

Volatile Organics by P&T and GC/MS

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-8, 11.5-12	**1505259-024A**	**Soil**	**05/06/2015 09:25**	**GC10**	**104595**

Analytes	Result	RL	DF	Date Analyzed
Benzene	ND	0.0050	1	05/08/2015 14:09
Ethylbenzene	ND	0.0050	1	05/08/2015 14:09
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	05/08/2015 14:09
Naphthalene	ND	0.0050	1	05/08/2015 14:09
Toluene	ND	0.0050	1	05/08/2015 14:09
Xylenes, Total	ND	0.0050	1	05/08/2015 14:09

Surrogates	REC (%)	Limits	
Dibromofluoromethane	89	70-130	05/08/2015 14:09
Toluene-d8	95	70-130	05/08/2015 14:09
4-BFB	94	70-130	05/08/2015 14:09

Analyst(s): KF

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-9, 2.5-3	**1505259-025A**	**Soil**	**05/06/2015 11:02**	**GC10**	**104595**

Analytes	Result	RL	DF	Date Analyzed
Benzene	ND	0.0050	1	05/12/2015 14:20
Ethylbenzene	ND	0.0050	1	05/12/2015 14:20
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	05/12/2015 14:20
Naphthalene	ND	0.0050	1	05/12/2015 14:20
Toluene	ND	0.0050	1	05/12/2015 14:20
Xylenes, Total	ND	0.0050	1	05/12/2015 14:20

Surrogates	REC (%)	Limits	
Dibromofluoromethane	87	70-130	05/12/2015 14:20
Toluene-d8	97	70-130	05/12/2015 14:20
4-BFB	108	70-130	05/12/2015 14:20

Analyst(s): KF Analytical Comments: c9

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Analytical Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505259
Project:	#14-003-01; 106-110 Hegenberger	**Extraction Method:**	SW5030B
Date Received:	5/7/15 17:06	**Analytical Method:**	SW8260B
Date Prepared:	5/7/15	**Unit:**	mg/Kg

Volatile Organics by P&T and GC/MS

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-9, 11.5-12	**1505259-026A**	**Soil**	**05/06/2015 11:37**	**GC10**	**104595**

Analytes	Result	RL	DF	Date Analyzed
Benzene	ND	0.0050	1	05/12/2015 15:02
Ethylbenzene	ND	0.0050	1	05/12/2015 15:02
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	05/12/2015 15:02
Naphthalene	ND	0.0050	1	05/12/2015 15:02
Toluene	ND	0.0050	1	05/12/2015 15:02
Xylenes, Total	ND	0.0050	1	05/12/2015 15:02

Surrogates	REC (%)	Limits	
Dibromofluoromethane	86	70-130	05/12/2015 15:02
Toluene-d8	97	70-130	05/12/2015 15:02
4-BFB	93	70-130	05/12/2015 15:02

Analyst(s): KF

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Analytical Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505259
Project:	#14-003-01; 106-110 Hegenberger	**Extraction Method:**	SW3050B
Date Received:	5/7/15 17:06	**Analytical Method:**	SW6020
Date Prepared:	5/7/15	**Unit:**	mg/Kg

LUFT 5 Metals

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-1, 1.5-2	**1505259-006A**	**Soil**	**05/05/2015 09:16**	**ICP-MS1**	**104541**

Analytes	Result	RL	DF	Date Analyzed
Cadmium	**0.39**	0.25	1	05/08/2015 15:58
Chromium	**49**	0.50	1	05/08/2015 15:58
Lead	**19**	0.50	1	05/08/2015 15:58
Nickel	**49**	0.50	1	05/08/2015 15:58
Zinc	**69**	5.0	1	05/08/2015 15:58

Surrogates	REC (%)	Limits	
Terbium	96	70-130	05/08/2015 15:58

Analyst(s): DVH

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-1, 11.5-12	**1505259-007A**	**Soil**	**05/05/2015 09:24**	**ICP-MS1**	**104541**

Analytes	Result	RL	DF	Date Analyzed
Cadmium	ND	0.25	1	05/08/2015 20:15
Chromium	**57**	0.50	1	05/08/2015 20:15
Lead	**9.9**	0.50	1	05/08/2015 20:15
Nickel	**66**	0.50	1	05/08/2015 20:15
Zinc	**55**	5.0	1	05/08/2015 20:15

Surrogates	REC (%)	Limits	
Terbium	103	70-130	05/08/2015 20:15

Analyst(s): BBO

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-2, 3.5-4	**1505259-008A**	**Soil**	**05/05/2015 10:33**	**ICP-MS1**	**104541**

Analytes	Result	RL	DF	Date Analyzed
Cadmium	ND	0.25	1	05/08/2015 16:10
Chromium	**77**	0.50	1	05/08/2015 16:10
Lead	**17**	0.50	1	05/08/2015 16:10
Nickel	**81**	0.50	1	05/08/2015 16:10
Zinc	**40**	5.0	1	05/08/2015 16:10

Surrogates	REC (%)	Limits	
Terbium	106	70-130	05/08/2015 16:10

Analyst(s): DVH

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Analytical Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505259
Project:	#14-003-01; 106-110 Hegenberger	**Extraction Method:**	SW3050B
Date Received:	5/7/15 17:06	**Analytical Method:**	SW6020
Date Prepared:	5/7/15	**Unit:**	mg/Kg

LUFT 5 Metals

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-2, 6-6.5	1505259-009A	Soil	05/05/2015 10:34	ICP-MS2	104541

Analytes	Result	RL	DF	Date Analyzed
Cadmium	ND	0.25	1	05/11/2015 21:08
Chromium	**64**	0.50	1	05/11/2015 21:08
Lead	**41**	0.50	1	05/11/2015 21:08
Nickel	**79**	0.50	1	05/11/2015 21:08
Zinc	**55**	5.0	1	05/11/2015 21:08

Surrogates	REC (%)	Limits	
Terbium	105	70-130	05/11/2015 21:08

Analyst(s): BBO

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-2, 10-10.5	1505259-010A	Soil	05/05/2015 10:37	ICP-MS1	104541

Analytes	Result	RL	DF	Date Analyzed
Cadmium	ND	0.25	1	05/08/2015 16:41
Chromium	**63**	0.50	1	05/08/2015 16:41
Lead	**8.8**	0.50	1	05/08/2015 16:41
Nickel	**69**	0.50	1	05/08/2015 16:41
Zinc	**63**	5.0	1	05/08/2015 16:41

Surrogates	REC (%)	Limits	
Terbium	99	70-130	05/08/2015 16:41

Analyst(s): DVH

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-3, 2.5-4	1505259-011A	Soil	05/05/2015 11:23	ICP-MS1	104541

Analytes	Result	RL	DF	Date Analyzed
Cadmium	ND	0.25	1	05/08/2015 16:47
Chromium	**74**	0.50	1	05/08/2015 16:47
Lead	**240**	0.50	1	05/08/2015 16:47
Nickel	**75**	0.50	1	05/08/2015 16:47
Zinc	**130**	5.0	1	05/08/2015 16:47

Surrogates	REC (%)	Limits	
Terbium	102	70-130	05/08/2015 16:47

Analyst(s): DVH

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Analytical Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505259
Project:	#14-003-01; 106-110 Hegenberger	**Extraction Method:**	SW3050B
Date Received:	5/7/15 17:06	**Analytical Method:**	SW6020
Date Prepared:	5/7/15	**Unit:**	mg/Kg

LUFT 5 Metals

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-3, 7.5-8	1505259-012A	Soil	05/05/2015 11:26	ICP-MS1	104541

Analytes	Result	RL	DF	Date Analyzed
Cadmium	ND	0.25	1	05/08/2015 18:17
Chromium	**43**	0.50	1	05/08/2015 18:17
Lead	**6.8**	0.50	1	05/08/2015 18:17
Nickel	**47**	0.50	1	05/08/2015 18:17
Zinc	**41**	5.0	1	05/08/2015 18:17

Surrogates	REC (%)	Limits	
Terbium	104	70-130	05/08/2015 18:17

Analyst(s): BBO

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-3, 10.5-11	1505259-013A	Soil	05/05/2015 11:28	ICP-MS1	104541

Analytes	Result	RL	DF	Date Analyzed
Cadmium	**0.35**	0.25	1	05/08/2015 18:23
Chromium	**45**	0.50	1	05/08/2015 18:23
Lead	**6.5**	0.50	1	05/08/2015 18:23
Nickel	**46**	0.50	1	05/08/2015 18:23
Zinc	**41**	5.0	1	05/08/2015 18:23

Surrogates	REC (%)	Limits	
Terbium	100	70-130	05/08/2015 18:23

Analyst(s): BBO

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-4, 5.5-6	1505259-014A	Soil	05/05/2015 11:52	ICP-MS1	104541

Analytes	Result	RL	DF	Date Analyzed
Cadmium	ND	0.25	1	05/08/2015 18:29
Chromium	**55**	0.50	1	05/08/2015 18:29
Lead	**11**	0.50	1	05/08/2015 18:29
Nickel	**58**	0.50	1	05/08/2015 18:29
Zinc	**53**	5.0	1	05/08/2015 18:29

Surrogates	REC (%)	Limits	
Terbium	96	70-130	05/08/2015 18:29

Analyst(s): BBO

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Analytical Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505259
Project:	#14-003-01; 106-110 Hegenberger	**Extraction Method:**	SW3050B
Date Received:	5/7/15 17:06	**Analytical Method:**	SW6020
Date Prepared:	5/7/15	**Unit:**	mg/Kg

LUFT 5 Metals

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-4, 11.5-12	1505259-015A	Soil	05/05/2015 13:01	ICP-MS1	104594

Analytes	Result	RL	DF	Date Analyzed
Cadmium	ND	0.25	1	05/08/2015 11:13
Chromium	**34**	0.50	1	05/08/2015 11:13
Lead	**5.2**	0.50	1	05/08/2015 11:13
Nickel	**43**	0.50	1	05/08/2015 11:13
Zinc	**36**	5.0	1	05/08/2015 11:13

Surrogates	REC (%)	Limits	
Terbium	103	70-130	05/08/2015 11:13

Analyst(s): DVH

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-5, 3-3.5	1505259-016A	Soil	05/05/2015 13:53	ICP-MS1	104594

Analytes	Result	RL	DF	Date Analyzed
Cadmium	**0.27**	0.25	1	05/08/2015 18:35
Chromium	**52**	0.50	1	05/08/2015 18:35
Lead	**130**	0.50	1	05/08/2015 18:35
Nickel	**49**	0.50	1	05/08/2015 18:35
Zinc	**83**	5.0	1	05/08/2015 18:35

Surrogates	REC (%)	Limits	
Terbium	99	70-130	05/08/2015 18:35

Analyst(s): BBO

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-5, 10.5-11	1505259-017A	Soil	05/05/2015 13:59	ICP-MS1	104594

Analytes	Result	RL	DF	Date Analyzed
Cadmium	ND	0.25	1	05/08/2015 18:42
Chromium	**40**	0.50	1	05/08/2015 18:42
Lead	**5.4**	0.50	1	05/08/2015 18:42
Nickel	**44**	0.50	1	05/08/2015 18:42
Zinc	**37**	5.0	1	05/08/2015 18:42

Surrogates	REC (%)	Limits	
Terbium	101	70-130	05/08/2015 18:42

Analyst(s): BBO

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Analytical Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505259
Project:	#14-003-01; 106-110 Hegenberger	**Extraction Method:**	SW3050B
Date Received:	5/7/15 17:06	**Analytical Method:**	SW6020
Date Prepared:	5/7/15	**Unit:**	mg/Kg

LUFT 5 Metals

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-6, 3.5-4	1505259-018A	Soil	05/05/2015 14:30	ICP-MS1	104594

Analytes	Result	RL	DF	Date Analyzed
Cadmium	ND	0.25	1	05/08/2015 18:48
Chromium	**62**	0.50	1	05/08/2015 18:48
Lead	**6.4**	0.50	1	05/08/2015 18:48
Nickel	**68**	0.50	1	05/08/2015 18:48
Zinc	**34**	5.0	1	05/08/2015 18:48

Surrogates	REC (%)	Limits	
Terbium	96	70-130	05/08/2015 18:48

Analyst(s): BBO

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-6, 7.5-8	1505259-019A	Soil	05/05/2015 14:35	ICP-MS1	104594

Analytes	Result	RL	DF	Date Analyzed
Cadmium	ND	0.25	1	05/08/2015 18:54
Chromium	**40**	0.50	1	05/08/2015 18:54
Lead	**5.3**	0.50	1	05/08/2015 18:54
Nickel	**42**	0.50	1	05/08/2015 18:54
Zinc	**35**	5.0	1	05/08/2015 18:54

Surrogates	REC (%)	Limits	
Terbium	99	70-130	05/08/2015 18:54

Analyst(s): BBO

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-7, 3.5-4	1505259-020A	Soil	05/06/2015 07:58	ICP-MS2	104594

Analytes	Result	RL	DF	Date Analyzed
Cadmium	ND	0.25	1	05/11/2015 21:14
Chromium	**74**	0.50	1	05/11/2015 21:14
Lead	**25**	0.50	1	05/11/2015 21:14
Nickel	**66**	0.50	1	05/11/2015 21:14
Zinc	**38**	5.0	1	05/11/2015 21:14

Surrogates	REC (%)	Limits	
Terbium	104	70-130	05/11/2015 21:14

Analyst(s): BBO

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Analytical Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505259
Project:	#14-003-01; 106-110 Hegenberger	**Extraction Method:**	SW3050B
Date Received:	5/7/15 17:06	**Analytical Method:**	SW6020
Date Prepared:	5/7/15	**Unit:**	mg/Kg

LUFT 5 Metals

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-7, 6.5-7	**1505259-021A**	**Soil**	**05/06/2015 07:59**	**ICP-MS1**	**104594**

Analytes	Result	RL	DF	Date Analyzed
Cadmium	ND	0.25	1	05/08/2015 19:00
Chromium	**53**	0.50	1	05/08/2015 19:00
Lead	**7.7**	0.50	1	05/08/2015 19:00
Nickel	**60**	0.50	1	05/08/2015 19:00
Zinc	**49**	5.0	1	05/08/2015 19:00

Surrogates	REC (%)	Limits	
Terbium	97	70-130	05/08/2015 19:00

Analyst(s): BBO

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-7, 11-11.5	**1505259-022A**	**Soil**	**05/06/2015 08:01**	**ICP-MS1**	**104594**

Analytes	Result	RL	DF	Date Analyzed
Cadmium	ND	0.25	1	05/08/2015 19:06
Chromium	**42**	0.50	1	05/08/2015 19:06
Lead	**5.6**	0.50	1	05/08/2015 19:06
Nickel	**47**	0.50	1	05/08/2015 19:06
Zinc	**37**	5.0	1	05/08/2015 19:06

Surrogates	REC (%)	Limits	
Terbium	108	70-130	05/08/2015 19:06

Analyst(s): BBO

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-8, 3.5-4	**1505259-023A**	**Soil**	**05/06/2015 09:14**	**ICP-MS1**	**104594**

Analytes	Result	RL	DF	Date Analyzed
Cadmium	**0.33**	0.25	1	05/08/2015 19:25
Chromium	**36**	0.50	1	05/08/2015 19:25
Lead	**53**	0.50	1	05/08/2015 19:25
Nickel	**58**	0.50	1	05/08/2015 19:25
Zinc	**84**	5.0	1	05/08/2015 19:25

Surrogates	REC (%)	Limits	
Terbium	106	70-130	05/08/2015 19:25

Analyst(s): BBO

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Analytical Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505259
Project:	#14-003-01; 106-110 Hegenberger	**Extraction Method:**	SW3050B
Date Received:	5/7/15 17:06	**Analytical Method:**	SW6020
Date Prepared:	5/7/15	**Unit:**	mg/Kg

LUFT 5 Metals

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-8, 11.5-12	**1505259-024A**	**Soil**	**05/06/2015 09:25**	**ICP-MS2**	**104594**

Analytes	Result	RL	DF	Date Analyzed
Cadmium	ND	0.25	1	05/11/2015 18:41
Chromium	**67**	0.50	1	05/11/2015 18:41
Lead	**7.5**	0.50	1	05/11/2015 18:41
Nickel	**63**	0.50	1	05/11/2015 18:41
Zinc	**55**	5.0	1	05/11/2015 18:41

Surrogates	REC (%)	Limits	
Terbium	113	70-130	05/11/2015 18:41

Analyst(s): BBO

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-9, 2.5-3	**1505259-025A**	**Soil**	**05/06/2015 11:02**	**ICP-MS1**	**104594**

Analytes	Result	RL	DF	Date Analyzed
Cadmium	**0.30**	0.25	1	05/12/2015 15:01
Chromium	**40**	0.50	1	05/12/2015 15:01
Lead	**19**	0.50	1	05/12/2015 15:01
Nickel	**31**	0.50	1	05/12/2015 15:01
Zinc	**110**	5.0	1	05/12/2015 15:01

Surrogates	REC (%)	Limits	
Terbium	111	70-130	05/12/2015 15:01

Analyst(s): DVH

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-9, 11.5-12	**1505259-026A**	**Soil**	**05/06/2015 11:37**	**ICP-MS1**	**104594**

Analytes	Result	RL	DF	Date Analyzed
Cadmium	ND	0.25	1	05/08/2015 19:44
Chromium	**60**	0.50	1	05/08/2015 19:44
Lead	**7.4**	0.50	1	05/08/2015 19:44
Nickel	**56**	0.50	1	05/08/2015 19:44
Zinc	**49**	5.0	1	05/08/2015 19:44

Surrogates	REC (%)	Limits	
Terbium	101	70-130	05/08/2015 19:44

Analyst(s): BBO

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Analytical Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505259
Project:	#14-003-01; 106-110 Hegenberger	**Extraction Method:**	SW3550B/3630C
Date Received:	5/7/15 17:06	**Analytical Method:**	SW8015B
Date Prepared:	5/7/15	**Unit:**	mg/Kg

Total Extractable Petroleum Hydrocarbons w/ SG Clean-Up

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-1, 1.5-2	1505259-006A	Soil	05/05/2015 09:16	GC2B	104563

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**2.7**	2.0	2	05/11/2015 19:25
TPH-Motor Oil (C18-C36)	**20**	10	2	05/11/2015 19:25

Surrogates	REC (%)	Limits	
C9	103	70-130	05/11/2015 19:25

Analyst(s): TK Analytical Comments: e7,e2

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-1, 11.5-12	1505259-007A	Soil	05/05/2015 09:24	GC2A	104563

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**1.3**	1.0	1	05/11/2015 14:23
TPH-Motor Oil (C18-C36)	ND	5.0	1	05/11/2015 14:23

Surrogates	REC (%)	Limits	
C9	112	70-130	05/11/2015 14:23

Analyst(s): TK Analytical Comments: e2

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-2, 3.5-4	1505259-008A	Soil	05/05/2015 10:33	GC2B	104563

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**40**	1.0	1	05/11/2015 14:23
TPH-Motor Oil (C18-C36)	**78**	5.0	1	05/11/2015 14:23

Surrogates	REC (%)	Limits	
C9	114	70-130	05/11/2015 14:23

Analyst(s): TK Analytical Comments: e7,e2,e4

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Analytical Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505259
Project:	#14-003-01; 106-110 Hegenberger	**Extraction Method:**	SW3550B/3630C
Date Received:	5/7/15 17:06	**Analytical Method:**	SW8015B
Date Prepared:	5/7/15	**Unit:**	mg/Kg

Total Extractable Petroleum Hydrocarbons w/ SG Clean-Up

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-2, 6-6.5	1505259-009A	Soil	05/05/2015 10:34	GC9a	104563

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**44**	2.0	2	05/13/2015 05:28
TPH-Motor Oil (C18-C36)	**13**	10	2	05/13/2015 05:28

Surrogates	REC (%)	Limits	
C9	113	70-130	05/13/2015 05:28

Analyst(s): TK Analytical Comments: e4,e2,e7

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-2, 10-10.5	1505259-010A	Soil	05/05/2015 10:37	GC9a	104563

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	05/09/2015 14:34
TPH-Motor Oil (C18-C36)	ND	5.0	1	05/09/2015 14:34

Surrogates	REC (%)	Limits	
C9	112	70-130	05/09/2015 14:34

Analyst(s): TK

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-3, 2.5-4	1505259-011A	Soil	05/05/2015 11:23	GC9a	104563

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**290**	100	100	05/13/2015 00:42
TPH-Motor Oil (C18-C36)	**800**	500	100	05/13/2015 00:42

Surrogates	REC (%)	Limits	
C9	115	70-130	05/13/2015 00:42

Analyst(s): TK Analytical Comments: e7,e2,e4

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Analytical Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505259
Project:	#14-003-01; 106-110 Hegenberger	**Extraction Method:**	SW3550B/3630C
Date Received:	5/7/15 17:06	**Analytical Method:**	SW8015B
Date Prepared:	5/7/15	**Unit:**	mg/Kg

Total Extractable Petroleum Hydrocarbons w/ SG Clean-Up

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-3, 7.5-8	**1505259-012A**	**Soil**	**05/05/2015 11:26**	**GC2B**	**104563**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**8.3**	1.0	1	05/12/2015 05:25
TPH-Motor Oil (C18-C36)	ND	5.0	1	05/12/2015 05:25

Surrogates	REC (%)	Limits	
C9	117	70-130	05/12/2015 05:25

Analyst(s): TK Analytical Comments: e4,e2

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-3, 10.5-11	**1505259-013A**	**Soil**	**05/05/2015 11:28**	**GC2B**	**104563**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	05/12/2015 00:25
TPH-Motor Oil (C18-C36)	ND	5.0	1	05/12/2015 00:25

Surrogates	REC (%)	Limits	
C9	116	70-130	05/12/2015 00:25

Analyst(s): TK

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-4, 5.5-6	**1505259-014A**	**Soil**	**05/05/2015 11:52**	**GC9a**	**104563**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**2.5**	1.0	1	05/09/2015 20:32
TPH-Motor Oil (C18-C36)	ND	5.0	1	05/09/2015 20:32

Surrogates	REC (%)	Limits	
C9	113	70-130	05/09/2015 20:32

Analyst(s): TK Analytical Comments: e2,e4

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Analytical Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505259
Project:	#14-003-01; 106-110 Hegenberger	**Extraction Method:**	SW3550B/3630C
Date Received:	5/7/15 17:06	**Analytical Method:**	SW8015B
Date Prepared:	5/7/15	**Unit:**	mg/Kg

Total Extractable Petroleum Hydrocarbons w/ SG Clean-Up

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-4, 11.5-12	1505259-015A	Soil	05/05/2015 13:01	GC9a	104563

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**1.7**	1.0	1	05/09/2015 18:09
TPH-Motor Oil (C18-C36)	**5.7**	5.0	1	05/09/2015 18:09

Surrogates	REC (%)	Limits	
C9	114	70-130	05/09/2015 18:09

Analyst(s): TK Analytical Comments: e7,e2

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-5, 3-3.5	1505259-016A	Soil	05/05/2015 13:53	GC9a	104563

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**12**	1.0	1	05/09/2015 15:46
TPH-Motor Oil (C18-C36)	**47**	5.0	1	05/09/2015 15:46

Surrogates	REC (%)	Limits	
C9	113	70-130	05/09/2015 15:46

Analyst(s): TK Analytical Comments: e7,e2

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-5, 10.5-11	1505259-017A	Soil	05/05/2015 13:59	GC9a	104563

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	05/09/2015 13:22
TPH-Motor Oil (C18-C36)	ND	5.0	1	05/09/2015 13:22

Surrogates	REC (%)	Limits	
C9	112	70-130	05/09/2015 13:22

Analyst(s): TK

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Analytical Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505259
Project:	#14-003-01; 106-110 Hegenberger	**Extraction Method:**	SW3550B/3630C
Date Received:	5/7/15 17:06	**Analytical Method:**	SW8015B
Date Prepared:	5/7/15	**Unit:**	mg/Kg

Total Extractable Petroleum Hydrocarbons w/ SG Clean-Up

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-6, 3.5-4	**1505259-018A**	**Soil**	**05/05/2015 14:30**	**GC9a**	**104563**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**2.5**	2.0	2	05/13/2015 07:50
TPH-Motor Oil (C18-C36)	**11**	10	2	05/13/2015 07:50

Surrogates	REC (%)	Limits	
C9	113	70-130	05/13/2015 07:50

Analyst(s): TK Analytical Comments: e7,e2

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-6, 7.5-8	**1505259-019A**	**Soil**	**05/05/2015 14:35**	**GC11B**	**104563**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	05/14/2015 10:14
TPH-Motor Oil (C18-C36)	ND	5.0	1	05/14/2015 10:14

Surrogates	REC (%)	Limits	
C9	107	70-130	05/14/2015 10:14

Analyst(s): TK

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-7, 3.5-4	**1505259-020A**	**Soil**	**05/06/2015 07:58**	**GC6B**	**104593**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**5.5**	1.0	1	05/08/2015 14:01
TPH-Motor Oil (C18-C36)	**21**	5.0	1	05/08/2015 14:01

Surrogates	REC (%)	Limits	
C9	118	70-130	05/08/2015 14:01

Analyst(s): TK Analytical Comments: e7,e4

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Analytical Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505259
Project:	#14-003-01; 106-110 Hegenberger	**Extraction Method:**	SW3550B/3630C
Date Received:	5/7/15 17:06	**Analytical Method:**	SW8015B
Date Prepared:	5/7/15	**Unit:**	mg/Kg

Total Extractable Petroleum Hydrocarbons w/ SG Clean-Up

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-7, 6.5-7	1505259-021A	Soil	05/06/2015 07:59	GC9a	104593

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**7.5**	1.0	1	05/11/2015 21:57
TPH-Motor Oil (C18-C36)	ND	5.0	1	05/11/2015 21:57

Surrogates	REC (%)	Limits	
C9	114	70-130	05/11/2015 21:57

Analyst(s): TK Analytical Comments: e4,e2

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-7, 11-11.5	1505259-022A	Soil	05/06/2015 08:01	GC6A	104593

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**1.9**	1.0	1	05/11/2015 21:12
TPH-Motor Oil (C18-C36)	ND	5.0	1	05/11/2015 21:12

Surrogates	REC (%)	Limits	
C9	95	70-130	05/11/2015 21:12

Analyst(s): TK Analytical Comments: e3

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-8, 3.5-4	1505259-023A	Soil	05/06/2015 09:14	GC6A	104593

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**110**	100	100	05/09/2015 23:03
TPH-Motor Oil (C18-C36)	**1500**	500	100	05/09/2015 23:03

Surrogates	REC (%)	Limits	
C9	89	70-130	05/09/2015 23:03

Analyst(s): TK Analytical Comments: e7,e2

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Analytical Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505259
Project:	#14-003-01; 106-110 Hegenberger	**Extraction Method:**	SW3550B/3630C
Date Received:	5/7/15 17:06	**Analytical Method:**	SW8015B
Date Prepared:	5/7/15	**Unit:**	mg/Kg

Total Extractable Petroleum Hydrocarbons w/ SG Clean-Up

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-8, 11.5-12	**1505259-024A**	**Soil**	**05/06/2015 09:25**	**GC9a**	**104593**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	05/12/2015 02:43
TPH-Motor Oil (C18-C36)	ND	5.0	1	05/12/2015 02:43

Surrogates	REC (%)	Limits	
C9	116	70-130	05/12/2015 02:43

Analyst(s): TK

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-9, 2.5-3	**1505259-025A**	**Soil**	**05/06/2015 11:02**	**GC9a**	**104593**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**7.7**	5.0	5	05/13/2015 03:05
TPH-Motor Oil (C18-C36)	**88**	25	5	05/13/2015 03:05

Surrogates	REC (%)	Limits	
C9	115	70-130	05/13/2015 03:05

Analyst(s): TK Analytical Comments: e7,e2

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-9, 11.5-12	**1505259-026A**	**Soil**	**05/06/2015 11:37**	**GC9a**	**104593**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	05/08/2015 19:35
TPH-Motor Oil (C18-C36)	ND	5.0	1	05/08/2015 19:35

Surrogates	REC (%)	Limits	
C9	112	70-130	05/08/2015 19:35

Analyst(s): TK

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Quality Control Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505259
Date Prepared:	5/12/15	**BatchID:**	104739
Date Analyzed:	5/12/15	**Extraction Method:**	SW5030B
Instrument:	GC16	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	#14-003-01; 106-110 Hegenberger	**Sample ID:**	MB/LCS-104739

QC Summary Report for TPH(g)

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
VOC (C6-C12)	ND	490	50	644	-	76	75-105
Surrogate Recovery							
Dibromofluoromethane	24.4	24.6		25	97	98	70-130

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Quality Control Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505259
Date Prepared:	5/7/15	**BatchID:**	104588
Date Analyzed:	5/7/15	**Extraction Method:**	SW5030B
Instrument:	GC16	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	#14-003-01; 106-110 Hegenberger	**Sample ID:**	MB/LCS-104588 1505255-001AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
VOC (C6-C12)	ND	2.91	0.25	3.2	-	91	74-142
Acetone	ND	-	0.10	-	-	-	-
tert-Amyl methyl ether (TAME)	ND	0.0406	0.0050	0.050	-	81	53-116
Benzene	ND	0.0454	0.0050	0.050	-	91	63-137
Bromobenzene	ND	-	0.0050	-	-	-	-
Bromochloromethane	ND	-	0.0050	-	-	-	-
Bromodichloromethane	ND	-	0.0050	-	-	-	-
Bromoform	ND	-	0.0050	-	-	-	-
Bromomethane	ND	-	0.0050	-	-	-	-
2-Butanone (MEK)	ND	-	0.020	-	-	-	-
t-Butyl alcohol (TBA)	ND	0.161	0.050	0.20	-	81	41-135
n-Butyl benzene	ND	-	0.0050	-	-	-	-
sec-Butyl benzene	ND	-	0.0050	-	-	-	-
tert-Butyl benzene	ND	-	0.0050	-	-	-	-
Carbon Disulfide	ND	-	0.0050	-	-	-	-
Carbon Tetrachloride	ND	-	0.0050	-	-	-	-
Chlorobenzene	ND	0.0488	0.0050	0.050	-	98	77-121
Chloroethane	ND	-	0.0050	-	-	-	-
Chloroform	ND	-	0.0050	-	-	-	-
Chloromethane	ND	-	0.0050	-	-	-	-
2-Chlorotoluene	ND	-	0.0050	-	-	-	-
4-Chlorotoluene	ND	-	0.0050	-	-	-	-
Dibromochloromethane	ND	-	0.0050	-	-	-	-
1,2-Dibromo-3-chloropropane	ND	-	0.0040	-	-	-	-
1,2-Dibromoethane (EDB)	ND	0.0433	0.0040	0.050	-	87	67-119
Dibromomethane	ND	-	0.0050	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,4-Dichlorobenzene	ND	-	0.0050	-	-	-	-
Dichlorodifluoromethane	ND	-	0.0050	-	-	-	-
1,1-Dichloroethane	ND	-	0.0050	-	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.0449	0.0040	0.050	-	90	58-135
1,1-Dichloroethene	ND	0.0434	0.0050	0.050	-	87	42-145
cis-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
trans-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
1,2-Dichloropropane	ND	-	0.0050	-	-	-	-
1,3-Dichloropropane	ND	-	0.0050	-	-	-	-
2,2-Dichloropropane	ND	-	0.0050	-	-	-	-
1,1-Dichloropropene	ND	-	0.0050	-	-	-	-
cis-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-

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Quality Control Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505259
Date Prepared:	5/7/15	**BatchID:**	104588
Date Analyzed:	5/7/15	**Extraction Method:**	SW5030B
Instrument:	GC16	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	#14-003-01; 106-110 Hegenberger	**Sample ID:**	MB/LCS-104588 1505255-001AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
trans-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-
Diisopropyl ether (DIPE)	ND	0.0438	0.0050	0.050	-	88	52-129
Ethylbenzene	ND	-	0.0050	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	0.0431	0.0050	0.050	-	86	53-125
Freon 113	ND	-	0.0050	-	-	-	-
Hexachlorobutadiene	ND	-	0.0050	-	-	-	-
Hexachloroethane	ND	-	0.0050	-	-	-	-
2-Hexanone	ND	-	0.0050	-	-	-	-
Isopropylbenzene	ND	-	0.0050	-	-	-	-
4-Isopropyl toluene	ND	-	0.0050	-	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.0412	0.0050	0.050	-	82	58-122
Methylene chloride	ND	-	0.0050	-	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	-	0.0050	-	-	-	-
Naphthalene	ND	-	0.0050	-	-	-	-
n-Propyl benzene	ND	-	0.0050	-	-	-	-
Styrene	ND	-	0.0050	-	-	-	-
1,1,1,2-Tetrachloroethane	ND	-	0.0050	-	-	-	-
1,1,2,2-Tetrachloroethane	ND	-	0.0050	-	-	-	-
Tetrachloroethene	ND	-	0.0050	-	-	-	-
Toluene	ND	0.0518	0.0050	0.050	-	104	76-130
1,2,3-Trichlorobenzene	ND	-	0.0050	-	-	-	-
1,2,4-Trichlorobenzene	ND	-	0.0050	-	-	-	-
1,1,1-Trichloroethane	ND	-	0.0050	-	-	-	-
1,1,2-Trichloroethane	ND	-	0.0050	-	-	-	-
Trichloroethene	ND	0.0467	0.0050	0.050	-	93	72-132
Trichlorofluoromethane	ND	-	0.0050	-	-	-	-
1,2,3-Trichloropropane	ND	-	0.0050	-	-	-	-
1,2,4-Trimethylbenzene	ND	-	0.0050	-	-	-	-
1,3,5-Trimethylbenzene	ND	-	0.0050	-	-	-	-
Vinyl Chloride	ND	-	0.0050	-	-	-	-
Xylenes, Total	ND	-	0.0050	-	-	-	-
Surrogate Recovery							
Dibromofluoromethane	0.103	0.104		0.12	82	83	72-126
Toluene-d8	0.119	0.118		0.12	95	94	81-115
4-BFB	0.0126	0.0118		0.012	101	95	55-127

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Quality Control Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505259
Date Prepared:	5/7/15	**BatchID:**	104588
Date Analyzed:	5/7/15	**Extraction Method:**	SW5030B
Instrument:	GC16	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	#14-003-01; 106-110 Hegenberger	**Sample ID:**	MB/LCS-104588 1505255-001AMS/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)	0.0343	0.0324	0.050	ND	69,F1	65,F1	70-130	5.91	20
Benzene	0.0401	0.0382	0.050	ND	80	76	70-130	5.01	20
t-Butyl alcohol (TBA)	0.162	0.156	0.20	ND	81	78	70-130	3.45	20
Chlorobenzene	0.0389	0.0368	0.050	ND	78	74	70-130	5.36	20
1,2-Dibromoethane (EDB)	0.0343	0.0322	0.050	ND	69,F1	64,F1	70-130	6.25	20
1,2-Dichloroethane (1,2-DCA)	0.0376	0.0359	0.050	ND	75	72	70-130	4.47	20
1,1-Dichloroethene	0.0358	0.0342	0.050	ND	72	68,F1	70-130	4.57	20
Diisopropyl ether (DIPE)	0.0380	0.0364	0.050	ND	76	73	70-130	4.29	20
Ethyl tert-butyl ether (ETBE)	0.0373	0.0357	0.050	ND	75	71	70-130	4.17	20
Methyl-t-butyl ether (MTBE)	0.0370	0.0353	0.050	ND	74	71	70-130	4.76	20
Toluene	0.0401	0.0380	0.050	ND	80	76	70-130	5.56	20
Trichloroethene	0.0385	0.0362	0.050	ND	77	72	70-130	6.19	20
Surrogate Recovery									
Dibromofluoromethane	0.114	0.115	0.12		91	92	70-130	1.24	20
Toluene-d8	0.120	0.119	0.12		96	95	70-130	0.388	20
4-BFB	0.0120	0.0116	0.012		96	93	70-130	3.16	20

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QA/QC Officer

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Quality Control Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505259
Date Prepared:	5/7/15	**BatchID:**	104595
Date Analyzed:	5/8/15	**Extraction Method:**	SW5030B
Instrument:	GC16	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	#14-003-01; 106-110 Hegenberger	**Sample ID:**	MB/LCS-104595 1505259-024AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
VOC (C6-C12)	ND	2.84	0.25	3.2	-	89	74-142
Acetone	ND	-	0.10	-	-	-	-
tert-Amyl methyl ether (TAME)	ND	0.0393	0.0050	0.050	-	79	53-116
Benzene	ND	0.0444	0.0050	0.050	-	89	63-137
Bromobenzene	ND	-	0.0050	-	-	-	-
Bromochloromethane	ND	-	0.0050	-	-	-	-
Bromodichloromethane	ND	-	0.0050	-	-	-	-
Bromoform	ND	-	0.0050	-	-	-	-
Bromomethane	ND	-	0.0050	-	-	-	-
2-Butanone (MEK)	ND	-	0.020	-	-	-	-
t-Butyl alcohol (TBA)	ND	0.162	0.050	0.20	-	81	41-135
n-Butyl benzene	ND	-	0.0050	-	-	-	-
sec-Butyl benzene	ND	-	0.0050	-	-	-	-
tert-Butyl benzene	ND	-	0.0050	-	-	-	-
Carbon Disulfide	ND	-	0.0050	-	-	-	-
Carbon Tetrachloride	ND	-	0.0050	-	-	-	-
Chlorobenzene	ND	0.0468	0.0050	0.050	-	94	77-121
Chloroethane	ND	-	0.0050	-	-	-	-
Chloroform	ND	-	0.0050	-	-	-	-
Chloromethane	ND	-	0.0050	-	-	-	-
2-Chlorotoluene	ND	-	0.0050	-	-	-	-
4-Chlorotoluene	ND	-	0.0050	-	-	-	-
Dibromochloromethane	ND	-	0.0050	-	-	-	-
1,2-Dibromo-3-chloropropane	ND	-	0.0040	-	-	-	-
1,2-Dibromoethane (EDB)	ND	0.0426	0.0040	0.050	-	85	67-119
Dibromomethane	ND	-	0.0050	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,4-Dichlorobenzene	ND	-	0.0050	-	-	-	-
Dichlorodifluoromethane	ND	-	0.0050	-	-	-	-
1,1-Dichloroethane	ND	-	0.0050	-	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.0434	0.0040	0.050	-	87	58-135
1,1-Dichloroethene	ND	0.0426	0.0050	0.050	-	85	42-145
cis-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
trans-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
1,2-Dichloropropane	ND	-	0.0050	-	-	-	-
1,3-Dichloropropane	ND	-	0.0050	-	-	-	-
2,2-Dichloropropane	ND	-	0.0050	-	-	-	-
1,1-Dichloropropene	ND	-	0.0050	-	-	-	-
cis-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-

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Quality Control Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505259
Date Prepared:	5/7/15	**BatchID:**	104595
Date Analyzed:	5/8/15	**Extraction Method:**	SW5030B
Instrument:	GC16	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	#14-003-01; 106-110 Hegenberger	**Sample ID:**	MB/LCS-104595 1505259-024AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
trans-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-
Diisopropyl ether (DIPE)	ND	0.0424	0.0050	0.050	-	85	52-129
Ethylbenzene	ND	-	0.0050	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	0.0423	0.0050	0.050	-	85	53-125
Freon 113	ND	-	0.0050	-	-	-	-
Hexachlorobutadiene	ND	-	0.0050	-	-	-	-
Hexachloroethane	ND	-	0.0050	-	-	-	-
2-Hexanone	ND	-	0.0050	-	-	-	-
Isopropylbenzene	ND	-	0.0050	-	-	-	-
4-Isopropyl toluene	ND	-	0.0050	-	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.0402	0.0050	0.050	-	80	58-122
Methylene chloride	ND	-	0.0050	-	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	-	0.0050	-	-	-	-
Naphthalene	ND	-	0.0050	-	-	-	-
n-Propyl benzene	ND	-	0.0050	-	-	-	-
Styrene	ND	-	0.0050	-	-	-	-
1,1,1,2-Tetrachloroethane	ND	-	0.0050	-	-	-	-
1,1,2,2-Tetrachloroethane	ND	-	0.0050	-	-	-	-
Tetrachloroethene	ND	-	0.0050	-	-	-	-
Toluene	ND	0.0506	0.0050	0.050	-	101	76-130
1,2,3-Trichlorobenzene	ND	-	0.0050	-	-	-	-
1,2,4-Trichlorobenzene	ND	-	0.0050	-	-	-	-
1,1,1-Trichloroethane	ND	-	0.0050	-	-	-	-
1,1,2-Trichloroethane	ND	-	0.0050	-	-	-	-
Trichloroethene	ND	0.0468	0.0050	0.050	-	94	72-132
Trichlorofluoromethane	ND	-	0.0050	-	-	-	-
1,2,3-Trichloropropane	ND	-	0.0050	-	-	-	-
1,2,4-Trimethylbenzene	ND	-	0.0050	-	-	-	-
1,3,5-Trimethylbenzene	ND	-	0.0050	-	-	-	-
Vinyl Chloride	ND	-	0.0050	-	-	-	-
Xylenes, Total	ND	-	0.0050	-	-	-	-
Surrogate Recovery							
Dibromofluoromethane	0.102	0.104		0.12	82	83	70-130
Toluene-d8	0.120	0.118		0.12	96	94	70-130
4-BFB	0.0122	0.0119		0.012	97	95	70-130

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Quality Control Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505259
Date Prepared:	5/7/15	**BatchID:**	104595
Date Analyzed:	5/8/15	**Extraction Method:**	SW5030B
Instrument:	GC16	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	#14-003-01; 106-110 Hegenberger	**Sample ID:**	MB/LCS-104595 1505259-024AMS/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)	0.0332	0.0324	0.050	ND	66,F1	65,F1	70-130	2.27	20
Benzene	0.0429	0.0413	0.050	ND	86	83	70-130	3.92	20
t-Butyl alcohol (TBA)	0.158	0.154	0.20	ND	79	77	70-130	2.07	20
Chlorobenzene	0.0409	0.0393	0.050	ND	82	79	70-130	3.99	20
1,2-Dibromoethane (EDB)	0.0338	0.0325	0.050	ND	68,F1	65,F1	70-130	3.85	20
1,2-Dichloroethane (1,2-DCA)	0.0383	0.0377	0.050	ND	77	75	70-130	1.62	20
1,1-Dichloroethene	0.0387	0.0376	0.050	ND	77	75	70-130	2.89	20
Diisopropyl ether (DIPE)	0.0407	0.0394	0.050	ND	81	79	70-130	3.10	20
Ethyl tert-butyl ether (ETBE)	0.0392	0.0380	0.050	ND	78	76	70-130	3.16	20
Methyl-t-butyl ether (MTBE)	0.0375	0.0364	0.050	ND	75	73	70-130	3.12	20
Toluene	0.0434	0.0407	0.050	ND	87	81	70-130	6.29	20
Trichloroethene	0.0600	0.0572	0.050	ND	120	115	70-130	4.75	20
Surrogate Recovery									
Dibromofluoromethane	0.111	0.114	0.12		89	91	70-130	2.79	20
Toluene-d8	0.120	0.118	0.12		96	94	70-130	2.08	20
4-BFB	0.0107	0.0113	0.012		86	90	70-130	4.92	20

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Quality Control Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505259
Date Prepared:	5/12/15	**BatchID:**	104739
Date Analyzed:	5/12/15	**Extraction Method:**	SW5030B
Instrument:	GC16	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	#14-003-01; 106-110 Hegenberger	**Sample ID:**	MB/LCS-104739 1505259-003CMS/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	8.72	0.50	10	-	87	54-140
Benzene	ND	8.76	0.50	10	-	88	47-158
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	27.5	2.0	40	-	69	42-140
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	9.48	0.50	10	-	95	43-157
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	8.59	0.50	10	-	86	44-155
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	8.44	0.50	10	-	84	66-125
1,1-Dichloroethene	ND	8.49	0.50	10	-	85	47-149
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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Quality Control Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505259
Date Prepared:	5/12/15	**BatchID:**	104739
Date Analyzed:	5/12/15	**Extraction Method:**	SW5030B
Instrument:	GC16	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	#14-003-01; 106-110 Hegenberger	**Sample ID:**	MB/LCS-104739 1505259-003CMS/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	8.94	0.50	10	-	89	57-136
Ethylbenzene	ND	-	0.50	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	8.92	0.50	10	-	89	55-137
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	8.20	0.50	10	-	82	53-139
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	9.39	0.50	10	-	94	52-137
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	8.90	0.50	10	-	89	43-157
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	21.5	21.5		25	86	86	65-135
Toluene-d8	21.5	21.7		25	86	87	64-127
4-BFB	2.12	2.15		2.5	85	86	59-139

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Quality Control Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505259
Date Prepared:	5/12/15	**BatchID:**	104739
Date Analyzed:	5/12/15	**Extraction Method:**	SW5030B
Instrument:	GC16	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	#14-003-01; 106-110 Hegenberger	**Sample ID:**	MB/LCS-104739 1505259-003CMS/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)	10.6	10.2	10	ND	106	102	69-139	4.32	20
Benzene	10.3	9.67	10	ND	103	96	69-141	6.45	20
t-Butyl alcohol (TBA)	35.4	34.4	40	2.5	82	80	41-152	3.10	20
Chlorobenzene	10.7	10.0	10	ND	107	100	77-120	7.08	20
1,2-Dibromoethane (EDB)	10.2	9.85	10	ND	102	98	76-135	3.40	20
1,2-Dichloroethane (1,2-DCA)	10.2	9.73	10	ND	102	97	73-139	4.20	20
1,1-Dichloroethene	9.86	9.10	10	ND	99	91	59-140	8.11	20
Diisopropyl ether (DIPE)	10.7	10.0	10	ND	107	101	72-140	6.14	20
Ethyl tert-butyl ether (ETBE)	10.7	10.2	10	ND	107	103	71-140	4.36	20
Methyl-t-butyl ether (MTBE)	9.96	9.69	10	ND	100	97	73-139	2.75	20
Toluene	10.6	9.88	10	ND	106	99	71-128	7.04	20
Trichloroethene	10.6	9.77	10	ND	106	98	64-132	8.48	20
Surrogate Recovery									
Dibromofluoromethane	21.8	22.0	25		87	88	73-131	0.792	20
Toluene-d8	21.2	21.1	25		85	84	72-117	0.632	20
4-BFB	2.18	2.10	2.5		87	84	74-116	3.84	20

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Quality Control Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505259
Date Prepared:	5/6/15	**BatchID:**	104541
Date Analyzed:	5/8/15	**Extraction Method:**	SW3050B
Instrument:	ICP-MS2	**Analytical Method:**	SW6020
Matrix:	Soil	**Unit:**	mg/Kg
Project:	#14-003-01; 106-110 Hegenberger	**Sample ID:**	MB/LCS-104541 1505215-006AMS/MSD

QC Summary Report for Metals

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Cadmium	ND	50.6	0.25	50	-	101	75-125
Chromium	ND	53.0	0.50	50	-	106	75-125
Lead	ND	52.1	0.50	50	-	104	75-125
Nickel	ND	54.1	0.50	50	-	108	75-125
Zinc	ND	539	5.0	500	-	108	75-125
Surrogate Recovery							
Terbium	533	515		500	107	103	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Cadmium	47.8	48.0	50	0.88	94	94	75-125	0	20
Chromium	85.0	96.4	50	49	72,F1	95	75-125	12.7	20
Lead	NR	NR	50	113.0	NR	NR	75-125	NR	20
Nickel	NR	NR	50	71	NR	NR	75-125	NR	20
Zinc	NR	NR	500	550	NR	NR	75-125	NR	20
Surrogate Recovery									
Terbium	497	503	500		99	101	70-130	1.30	20

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Quality Control Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505259
Date Prepared:	5/7/15	**BatchID:**	104564
Date Analyzed:	5/8/15	**Extraction Method:**	E200.8
Instrument:	ICP-MS2	**Analytical Method:**	E200.8
Matrix:	Water	**Unit:**	µg/L
Project:	#14-003-01; 106-110 Hegenberger	**Sample ID:**	MB/LCS-104564 1505230-007AMS/MSD

QC Summary Report for Metals

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Cadmium	ND	48.6	0.25	50	-	97	85-115
Chromium	ND	50.2	0.50	50	-	100	85-115
Lead	ND	49.9	0.50	50	-	100	85-115
Nickel	ND	50.9	0.50	50	-	102	85-115
Zinc	ND	516	15	500	-	102	85-115
Surrogate Recovery							
Terbium	748	710		750	100	95	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Cadmium	47.9	46.1	50	ND	96	92	70-130	3.89	20
Chromium	50.1	50.5	50	ND	100	101	70-130	0.835	20
Lead	49.7	47.0	50	ND	99	94	70-130	5.65	20
Nickel	48.6	49.4	50	ND	97	99	70-130	1.45	20
Zinc	497	504	500	ND	97	98	70-130	1.44	20
Surrogate Recovery									
Terbium	749	729	750		100	97	70-130	2.64	20

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Quality Control Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505259
Date Prepared:	5/7/15	**BatchID:**	104594
Date Analyzed:	5/8/15	**Extraction Method:**	SW3050B
Instrument:	ICP-MS1	**Analytical Method:**	SW6020
Matrix:	Soil	**Unit:**	mg/Kg
Project:	#14-003-01; 106-110 Hegenberger	**Sample ID:**	MB/LCS-104594 1505259-015AMS/MSD

QC Summary Report for Metals

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Cadmium	ND	49.3	0.25	50	-	99	75-125
Chromium	ND	49.4	0.50	50	-	99	75-125
Lead	ND	49.3	0.50	50	-	99	75-125
Nickel	ND	47.9	0.50	50	-	96	75-125
Zinc	ND	500	5.0	500	-	100	75-125
Surrogate Recovery							
Terbium	496	506		500	99	101	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Cadmium	50.7	51.6	50	ND	101	103	75-125	1.82	20
Chromium	88.4	97.4	50	34.33	108	126,F1	75-125	9.78	20
Lead	55.0	56.5	50	5.155	100	103	75-125	2.78	20
Nickel	94.5	104	50	43.25	103	122	75-125	9.93	20
Zinc	542	562	500	36.18	101	105	75-125	3.57	20
Surrogate Recovery									
Terbium	530	542	500		106	108	70-130	2.31	20

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Quality Control Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505259
Date Prepared:	5/7/15	**BatchID:**	104563
Date Analyzed:	5/7/15 - 5/8/15	**Extraction Method:**	SW3550B/3630C
Instrument:	GC11B, GC2A	**Analytical Method:**	SW8015B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	#14-003-01; 106-110 Hegenberger	**Sample ID:**	MB/LCS-104563 1505241-006AMS/MSD

QC Report for SW8015B w/ SG Clean-Up

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	38.7	1.0	40	-	97	70-130
TPH-Motor Oil (C18-C36)	ND	-	5.0	-	-	-	-
Surrogate Recovery							
C9	27.9	28.0		25	112	112	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	54.6	55.7	40	7.999	116	119	70-130	2.14	30
Surrogate Recovery									
C9	27.9	27.5	25		112	110	70-130	1.48	30

(Cont.)

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Quality Control Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505259
Date Prepared:	5/7/15	**BatchID:**	104593
Date Analyzed:	5/8/15	**Extraction Method:**	SW3550B/3630C
Instrument:	GC2B, GC6A	**Analytical Method:**	SW8015B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	#14-003-01; 106-110 Hegenberger	**Sample ID:**	MB/LCS-104593 1505259-020AMS/MSD

QC Report for SW8015B w/ SG Clean-Up

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	40.3	1.0	40	-	101	70-130
TPH-Motor Oil (C18-C36)	ND	-	5.0	-	-	-	-
Surrogate Recovery							
C9	24.5	28.2		25	98	113	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	50.2	53.2	40	5.536	112	119	70-130	5.78	30
Surrogate Recovery									
C9	26.6	30.6	25		107	122	70-130	13.9	30

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Quality Control Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505259
Date Prepared:	5/7/15	**BatchID:**	104592
Date Analyzed:	5/8/15	**Extraction Method:**	SW3510C/3630C
Instrument:	GC11B, GC2A	**Analytical Method:**	SW8015B
Matrix:	Water	**Unit:**	µg/L
Project:	#14-003-01; 106-110 Hegenberger	**Sample ID:**	MB/LCS-104592

QC Report for SW8015B w/ SG Clean-Up

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	1040	50	1000	-	104	59-151
TPH-Motor Oil (C18-C36)	ND	-	250	-	-	-	-
Surrogate Recovery							
C9	694	706		625	111	113	77-130

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CHAIN-OF-CUSTODY RECORD

WorkOrder: 1505259 **ClientCode: ERAS**

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Report to:
Andrew Savage
ERAS Environmental, Inc.
1533 B Street
Hayward, CA 94541
(510) 247-9885 FAX: (510) 886-5399

Email: info@eras.biz; andrew@eras.biz
cc/3rd Party:
PO:
ProjectNo: #14-003-01; 106-110 Hegenberger

Bill to:
Kasey Cordoza
ERAS Environmental, Inc.
1533 B Street
Hayward, CA 94541

Requested TAT: 5 days

Date Received: **05/07/2015**
Date Printed: **05/11/2015**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1505259-001	B-7	Water	5/6/2015 9:00	☐		C		C		B		A				
1505259-002	B-8-Shallow	Water	5/6/2015 9:54	☐		C		C		B		A				
1505259-003	B-8	Water	5/6/2015 10:51	☐		C		C		B		A				
1505259-004	B-9-Shallow	Water	5/6/2015 11:32	☐		C		C		B		A				
1505259-005	B-9	Water	5/6/2015 12:08	☐		C		C		B		A				
1505259-006	B-1, 1.5-2	Soil	5/5/2015 9:16	☐	A		A		A		A					
1505259-007	B-1, 11.5-12	Soil	5/5/2015 9:24	☐	A		A		A		A					
1505259-008	B-2, 3.5-4	Soil	5/5/2015 10:33	☐	A		A		A		A					
1505259-009	B-2, 6-6.5	Soil	5/5/2015 10:34	☐	A		A		A		A					
1505259-010	B-2, 10-10.5	Soil	5/5/2015 10:37	☐	A		A		A		A					
1505259-011	B-3, 2.5-4	Soil	5/5/2015 11:23	☐	A		A		A		A					
1505259-012	B-3, 7.5-8	Soil	5/5/2015 11:26	☐	A		A		A		A					
1505259-013	B-3, 10.5-11	Soil	5/5/2015 11:28	☐	A		A		A		A					
1505259-014	B-4, 5.5-6	Soil	5/5/2015 11:52	☐	A		A		A		A					
1505259-015	B-4, 11.5-12	Soil	5/5/2015 13:01	☐	A		A		A		A					

Test Legend:

1	8260GAS_S	2	8260GAS_W	3	8260VOC_S	4	8260VOC_W	5	LUFTMS_S
6	LUFTMS_W	7	TPH(DMO)WSG_S	8	TPH(DMO)WSG_W	9		10	
11		12							

The following SampIDs: 001C, 002C, 003C, 004C, 005C, 006A, 007A, 008A, 009A, 010A, 011A, 012A, 013A, 014A, 015A, 016A, 017A, 018A, 019A, 020A, 021A, 022A, 023A, 024A, 025A, 026A contain testgroup.

Prepared by: Jena Alfaro

Comments:

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

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CHAIN-OF-CUSTODY RECORD

WorkOrder: 1505259 **ClientCode: ERAS**

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Report to:
Andrew Savage
ERAS Environmental, Inc.
1533 B Street
Hayward, CA 94541
(510) 247-9885 FAX: (510) 886-5399

Email: info@eras.biz; andrew@eras.biz
cc/3rd Party:
PO:
ProjectNo: #14-003-01; 106-110 Hegenberger

Bill to:
Kasey Cordoza
ERAS Environmental, Inc.
1533 B Street
Hayward, CA 94541

Requested TAT: 5 days

Date Received: **05/07/2015**
Date Printed: **05/11/2015**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1505259-016	B-5, 3-3.5	Soil	5/5/2015 13:53	☐	A		A		A		A					
1505259-017	B-5, 10.5-11	Soil	5/5/2015 13:59	☐	A		A		A		A					
1505259-018	B-6, 3.5-4	Soil	5/5/2015 14:30	☐	A		A		A		A					
1505259-019	B-6, 7.5-8	Soil	5/5/2015 14:35	☐	A		A		A		A					
1505259-020	B-7, 3.5-4	Soil	5/6/2015 7:58	☐	A		A		A		A					
1505259-021	B-7, 6.5-7	Soil	5/6/2015 7:59	☐	A		A		A		A					
1505259-022	B-7, 11-11.5	Soil	5/6/2015 8:01	☐	A		A		A		A					
1505259-023	B-8, 3.5-4	Soil	5/6/2015 9:14	☐	A		A		A		A					
1505259-024	B-8, 11.5-12	Soil	5/6/2015 9:25	☐	A		A		A		A					
1505259-025	B-9, 2.5-3	Soil	5/6/2015 11:02	☐	A		A		A		A					
1505259-026	B-9, 11.5-12	Soil	5/6/2015 11:37	☐	A		A		A		A					

Test Legend:

1	8260GAS_S	2	8260GAS_W	3	8260VOC_S	4	8260VOC_W	5	LUFTMS_S
6	LUFTMS_W	7	TPH(DMO)WSG_S	8	TPH(DMO)WSG_W	9		10	
11		12							

The following SampIDs: 001C, 002C, 003C, 004C, 005C, 006A, 007A, 008A, 009A, 010A, 011A, 012A, 013A, 014A, 015A, 016A, 017A, 018A, 019A, 020A, 021A, 022A, 023A, 024A, 025A, 026A contain testgroup.

Prepared by: Jena Alfaro

Comments:

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

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WORK ORDER SUMMARY

Client Name: ERAS ENVIRONMENTAL, INC. **QC Level:** LEVEL 2 **Work Order:** 1505259
Project: #14-003-01; 106-110 Hegenberger **Client Contact:** Andrew Savage **Date Received:** 5/7/2015
Comments: **Contact's Email:** info@eras.biz; andrew@eras.biz

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Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1505259-001A	B-7	Water	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	2	1LA	☐	5/6/2015 9:00	5 days	Present	☐	
1505259-001B	B-7	Water	E200.8 (LUFT)	2	250mL HDPE w/ HNO3	☐	5/6/2015 9:00	5 days	Present	☐	
1505259-001C	B-7	Water	TPH(g) & 8260 (Basic List) by P&T GCMS	6	VOA w/ HCl	☐	5/6/2015 9:00	5 days	Present	☐	
1505259-002A	B-8-Shallow	Water	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	1	1LA	☐	5/6/2015 9:54	5 days	Present	☐	
1505259-002B	B-8-Shallow	Water	E200.8 (LUFT)	1	250mL HDPE w/ HNO3	☐	5/6/2015 9:54	5 days	Present	☐	
1505259-002C	B-8-Shallow	Water	TPH(g) & 8260 (Basic List) by P&T GCMS	6	VOA w/ HCl	☐	5/6/2015 9:54	5 days	Present	☐	
1505259-003A	B-8	Water	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	2	1LA	☐	5/6/2015 10:51	5 days	Present	☐	
1505259-003B	B-8	Water	E200.8 (LUFT)	2	250mL HDPE w/ HNO3	☐	5/6/2015 10:51	5 days	Present	☐	
1505259-003C	B-8	Water	TPH(g) & 8260 (Basic List) by P&T GCMS	6	VOA w/ HCl	☐	5/6/2015 10:51	5 days	Present	☐	
1505259-004A	B-9-Shallow	Water	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	2	1LA	☐	5/6/2015 11:32	5 days	Present	☐	
1505259-004B	B-9-Shallow	Water	E200.8 (LUFT)	2	250mL HDPE w/ HNO3	☐	5/6/2015 11:32	5 days	Present	☐	
1505259-004C	B-9-Shallow	Water	TPH(g) & 8260 (Basic List) by P&T GCMS	6	VOA w/ HCl	☐	5/6/2015 11:32	5 days	Present	☐	
1505259-005A	B-9	Water	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	2	1LA	☐	5/6/2015 12:08	5 days	Present	☐	
1505259-005B	B-9	Water	E200.8 (LUFT)	2	250mL HDPE w/ HNO3	☐	5/6/2015 12:08	5 days	Present	☐	
1505259-005C	B-9	Water	TPH(g) & 8260 (Basic List) by P&T GCMS	6	VOA w/ HCl	☐	5/6/2015 12:08	5 days	Present	☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

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WORK ORDER SUMMARY

Client Name: ERAS ENVIRONMENTAL, INC. **QC Level:** LEVEL 2 **Work Order:** 1505259
Project: #14-003-01; 106-110 Hegenberger **Client Contact:** Andrew Savage **Date Received:** 5/7/2015
Comments: **Contact's Email:** info@eras.biz; andrew@eras.biz

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Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1505259-006A	B-1, 1.5-2	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	1	Acetate Liner	☐	5/5/2015 9:16	5 days		☐	
			SW6020 (LUFT)			☐		5 days		☐	
			TPH(g) & 8260 (Basic List) by P&T GCMS			☐		5 days		☐	
1505259-007A	B-1, 11.5-12	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	1	Acetate Liner	☐	5/5/2015 9:24	5 days		☐	
			SW6020 (LUFT)			☐		5 days		☐	
			TPH(g) & 8260 (Basic List) by P&T GCMS			☐		5 days		☐	
1505259-008A	B-2, 3.5-4	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	1	Acetate Liner	☐	5/5/2015 10:33	5 days		☐	
			SW6020 (LUFT)			☐		5 days		☐	
			TPH(g) & 8260 (Basic List) by P&T GCMS			☐		5 days		☐	
1505259-009A	B-2, 6-6.5	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	1	Acetate Liner	☐	5/5/2015 10:34	5 days		☐	
			SW6020 (LUFT)			☐		5 days		☐	
			TPH(g) & 8260 (Basic List) by P&T GCMS			☐		5 days		☐	
1505259-010A	B-2, 10-10.5	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	1	Acetate Liner	☐	5/5/2015 10:37	5 days		☐	
			SW6020 (LUFT)			☐		5 days		☐	
			TPH(g) & 8260 (Basic List) by P&T GCMS			☐		5 days		☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

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WORK ORDER SUMMARY

Client Name: ERAS ENVIRONMENTAL, INC. **QC Level:** LEVEL 2 **Work Order:** 1505259
Project: #14-003-01; 106-110 Hegenberger **Client Contact:** Andrew Savage **Date Received:** 5/7/2015
Comments: **Contact's Email:** info@eras.biz; andrew@eras.biz

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1505259-011A	B-3, 2.5-4	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	1	Acetate Liner	☐	5/5/2015 11:23	5 days		☐	
			SW6020 (LUFT)			☐		5 days		☐	
			TPH(g) & 8260 (Basic List) by P&T GCMS			☐		5 days		☐	
1505259-012A	B-3, 7.5-8	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	1	Acetate Liner	☐	5/5/2015 11:26	5 days		☐	
			SW6020 (LUFT)			☐		5 days		☐	
			TPH(g) & 8260 (Basic List) by P&T GCMS			☐		5 days		☐	
1505259-013A	B-3, 10.5-11	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	1	Acetate Liner	☐	5/5/2015 11:28	5 days		☐	
			SW6020 (LUFT)			☐		5 days		☐	
			TPH(g) & 8260 (Basic List) by P&T GCMS			☐		5 days		☐	
1505259-014A	B-4, 5.5-6	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	1	Acetate Liner	☐	5/5/2015 11:52	5 days		☐	
			SW6020 (LUFT)			☐		5 days		☐	
			TPH(g) & 8260 (Basic List) by P&T GCMS			☐		5 days		☐	
1505259-015A	B-4, 11.5-12	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	1	Acetate Liner	☐	5/5/2015 13:01	5 days		☐	
			SW6020 (LUFT)			☐		5 days		☐	
			TPH(g) & 8260 (Basic List) by P&T GCMS			☐		5 days		☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

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WORK ORDER SUMMARY

Client Name: ERAS ENVIRONMENTAL, INC. **QC Level:** LEVEL 2 **Work Order:** 1505259
Project: #14-003-01; 106-110 Hegenberger **Client Contact:** Andrew Savage **Date Received:** 5/7/2015
Comments: **Contact's Email:** info@eras.biz; andrew@eras.biz

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1505259-016A	B-5, 3-3.5	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	1	Acetate Liner	☐	5/5/2015 13:53	5 days		☐	
			SW6020 (LUFT)			☐		5 days		☐	
			TPH(g) & 8260 (Basic List) by P&T GCMS			☐		5 days		☐	
1505259-017A	B-5, 10.5-11	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	1	Acetate Liner	☐	5/5/2015 13:59	5 days		☐	
			SW6020 (LUFT)			☐		5 days		☐	
			TPH(g) & 8260 (Basic List) by P&T GCMS			☐		5 days		☐	
1505259-018A	B-6, 3.5-4	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	1	Acetate Liner	☐	5/5/2015 14:30	5 days		☐	
			SW6020 (LUFT)			☐		5 days		☐	
			TPH(g) & 8260 (Basic List) by P&T GCMS			☐		5 days		☐	
1505259-019A	B-6, 7.5-8	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	1	Acetate Liner	☐	5/5/2015 14:35	5 days		☐	
			SW6020 (LUFT)			☐		5 days		☐	
			TPH(g) & 8260 (Basic List) by P&T GCMS			☐		5 days		☐	
1505259-020A	B-7, 3.5-4	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	1	Acetate Liner	☐	5/6/2015 7:58	5 days		☐	
			SW6020 (LUFT)			☐		5 days		☐	
			TPH(g) & 8260 (Basic List) by P&T GCMS			☐		5 days		☐	

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WORK ORDER SUMMARY

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Project: #14-003-01; 106-110 Hegenberger **Client Contact:** Andrew Savage **Date Received:** 5/7/2015
Comments: **Contact's Email:** info@eras.biz; andrew@eras.biz

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1505259-021A	B-7, 6.5-7	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	1	Acetate Liner	☐	5/6/2015 7:59	5 days		☐	
			SW6020 (LUFT)			☐		5 days		☐	
			TPH(g) & 8260 (Basic List) by P&T GCMS			☐		5 days		☐	
1505259-022A	B-7, 11-11.5	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	1	Acetate Liner	☐	5/6/2015 8:01	5 days		☐	
			SW6020 (LUFT)			☐		5 days		☐	
			TPH(g) & 8260 (Basic List) by P&T GCMS			☐		5 days		☐	
1505259-023A	B-8, 3.5-4	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	1	Acetate Liner	☐	5/6/2015 9:14	5 days		☐	
			SW6020 (LUFT)			☐		5 days		☐	
			TPH(g) & 8260 (Basic List) by P&T GCMS			☐		5 days		☐	
1505259-024A	B-8, 11.5-12	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	1	Acetate Liner	☐	5/6/2015 9:25	5 days		☐	
			SW6020 (LUFT)			☐		5 days		☐	
			TPH(g) & 8260 (Basic List) by P&T GCMS			☐		5 days		☐	
1505259-025A	B-9, 2.5-3	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	1	Acetate Liner	☐	5/6/2015 11:02	5 days		☐	
			SW6020 (LUFT)			☐		5 days		☐	
			TPH(g) & 8260 (Basic List) by P&T GCMS			☐		5 days		☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

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WORK ORDER SUMMARY

Client Name: ERAS ENVIRONMENTAL, INC. **QC Level:** LEVEL 2 **Work Order:** 1505259
Project: #14-003-01; 106-110 Hegenberger **Client Contact:** Andrew Savage **Date Received:** 5/7/2015
Comments: **Contact's Email:** info@eras.biz; andrew@eras.biz

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1505259-026A	B-9, 11.5-12	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	1	Acetate Liner	☐	5/6/2015 11:37	5 days		☐	
			SW6020 (LUFT)			☐		5 days		☐	
			TPH(g) & 8260 (Basic List) by P&T GCMS			☐		5 days		☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

1505259

Page 1 of 3

CHAIN OF CUSTODY FORM

McCampbell Analytical, Inc
1534 Willow Pass Rd.
Pittsburg, CA 94565
877.252.9262
925.252.9269 - fax

Turnaround Time: Rush | 24Hr | 48 Hr | 72 Hr | X 5 Day

Geotracker: PDF | Excel | Write On (DW

Report To: ERAS **Bill To:** ERAS

Company: ERAS Environmental, Inc.

Email: info@eras.biz

Telephone: 510-247-9885 **Fax:** 510-886-5399

Project # 14-003-01

Project location 106-110 Hegenberger

Sampler: Andrew Savage

Sample ID	Location/Field Point Name	Sampling Date	Sampling Time	# of Containers	Container Type	Matrix: Soil	Matrix: Water	Matrix: Waste	Matrix:	Preservative: HCL	Preservative: H2SO4	Preservative: HNO3	Preservative: ICE	Preservative: None	Analysis Requested: TPH as diesel and oil range organics by 8015 with silica gel	Analysis Requested: LUFT 5 Metals	Analysis Requested: TPH-gro, BTEX, MTBE, Napthalene by 8260	Other	Comments
B-7		5/6/2015	9:00	2	1L		X							X	X				
B-7		5/6/2015	9:00	2	Poly		X					X				X			
B-7		5/6/2015	9:00	6	VOA		X			X							X		
B-8-Shallow		5/6/2015	9:54	1	1L		X							X	X				
B-8-Shallow		5/6/2015	9:54	1	Poly		X					X				X			
B-8-Shallow		5/6/2015	9:54	6	VOA		X			X							X		
B-8		5/6/2015	10:51	2	1L		X							X	X				
B-8		5/6/2015	10:51	1	Poly		X					X				X			
B-8		5/6/2015	10:51	6	VOA		X			X							X		
B-9-Shallow		5/6/2015	11:32	2	1L		X							X	X				
B-9-Shallow		5/6/2015	11:32	2	Poly		X					X				X			
B-9-Shallow		5/6/2015	11:32	6	VOA		X			X							X		

RELINQUISHED BY: **RECEIVED BY:**

Relinquished by:	Date: 5/7/15	Time: 1115	Recieved by:	
Relinquished by:	Date: 5/7	Time: 1645	Recieved by:	
Relinquished by:	Date:	Time:	Recieved by:	

ICE/t°	3.2	Comments: Please PDF
Condition		
Head space absent		
Dechlorinated in lab		
Appropriate containers		
Preserved in Lab		
	VOA's O&G Metals Other	
Preservation	pH<2	

CHAIN OF CUSTODY FORM

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877.252.9262
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Turnaround Time: Rush | 24Hr | 48 Hr | 72 Hr | X 5 Day
Geotracker: PDF | Excel | Write On (DW

Report To: ERAS **Bill To:** ERAS
Company: ERAS Environmental, Inc.
Email: info@eras.biz
Telephone: 510-247-9885 **Fax:** 510-886-5399
Project # 14-003-01
Project location 106-110 Hegenberger
Sampler: Andrew Savage

Sample ID	Location/Field Point Name	Sampling Date	Sampling Time	# of Containers	Container Type	Matrix: Soil	Water	Waste		Preservative: HCL	H2SO4	HNO3	ICE	None	TPH as diesel and oil range organics by 8015 with silica gel	LUFT 5 Metals	TPH-gro, BTEX, MTBE, Napthalene by 8260	Other	Comments
B-9		5/6/2015	12:08	2	1L		X							X	X				
B-9		5/6/2015	12:08	2	Poly		X					X				X			
B-9		5/6/2015	12:08	6	VOA		X			X							X		
B-1, 1.5-2		5/5/2015	9:16	1	Tube	X							X		X	X	X		
B-1, 11.5-12		5/5/2015	9:24	1	Tube	X							X		X	X	X		
B-2, 3.5-4		5/5/2015	10:33	1	Tube	X							X		X	X	X		
B-2, 6-6.5		5/5/2015	10:34	1	Tube	X							X		X	X	X		
B-2, 10-105		5/5/2015	10:37	1	Tube	X							X		X	X	X		
B-3, 2.5-4 *		5/5/2015	11:23	1	Tube	X							X		X	X	X		
B-3, 7.5-8		5/5/2015	11:26	1	Tube	X							X		X	X	X		
B-3, 10.5-11		5/5/2015	11:28	1	Tube	X							X		X	X	X		
B-4, 5.5-6		5/5/2015	11:52	1	Tube	X							X		X	X	X		
B-4, 11.5-12		5/5/2015	13:01	1	Tube	X							X		X	X	X		
~~B-6~~ B-5, 3-3.5 * 3.5-4		5/5/2015	13:53	1	Tube	X							X		X	X	X		

RELINQUISHED BY: **RECEIVED BY:**

Relinquished by:	Date:	Time:	Recieved by:
	5/7/15	1115	
Relinquished by:	Date:	Time:	Recieved by:
	5/7	1645	
Relinquished by:	Date:	Time:	Recieved by:

ICE/t° Condition	3.2	Comments: Please PDF
Head space absent		
Dechlorinated in lab		
Appropriate containers		
Preserved in Lab		
Preservation	VOA's O&G Metals Other pH<2	

CHAIN OF CUSTODY FORM

McCampbell Analytical, Inc
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Pittsburg, CA 94565
877.252.9262
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Turnaround Time: Rush | 24Hr | 48 Hr | 72 Hr | X 5 Day
Geotracker: PDF | Excel | Write On (DW

Report To: ERAS **Bill To:** ERAS
Company: ERAS Environmental, Inc.

Email: info@eras.biz
Telephone: 510-247-9885 **Fax:** 510-886-5399
Project # 14-003-01
Project location 106-110 Hegenberger
Sampler: Andrew Savage

Sample ID	Location/Field Point Name	Sampling Date	Sampling Time	# of Containers	Container Type	Matrix: Soil	Water	Waste		Preservative: HCL	H2SO4	HNO3	ICE	None	TPH as diesel and oil range organics by 8015 with silica gel	LUFT 5 Metals	TPH-gro, BTEX, MTBE, Napthalene by 8260	Other	Comments
B-5, 10.5-11		5/5/2015	13:59	1	Tube	X							X		X	X	X		
B-6, 3.5-4		5/5/2015	14:30	1	Tube	X							X		X	X	X		
B-6, 7.5-8 ★		5/5/2015	14:35	1	Tube	X							X		X	X	X		
B-7, 3.5-4		5/6/2015	7:58	1	Tube	X							X		X	X	X		
B-7, 6.5-7		5/6/2015	7:59	1	Tube	X							X		X	X	X		
B-7, 11-11.5		5/6/2015	8:01	1	Tube	X							X		X	X	X		
B-8, 3.5-4		5/6/2015	9:14	1	Tube	X							X		X	X	X		
B-8, 11.5-12		5/6/2015	9:25	1	Tube	X							X		X	X	X		
B-9, 2.5-3		5/6/2015	11:02	1	Tube	X							X		X	X	X		
B-9, 11.5-12		5/6/2015	11:37	1	Tube	X							X		X	X	X		

★ 11.5-12

RELINQUISHED BY: **RECEIVED BY:**

Relinquished by:	Date: 5/7/15	Time: 1115	Recieved by:	
Relinquished by:	Date: 5/7	Time: 1645	Recieved by:	
Relinquished by:	Date:	Time:	Recieved by:	

ICE/t°	3.2	Comments: Please PDF
Condition		
Head space absent		
Dechlorinated in lab		
Appropriate containers		
Preserved in Lab		
Preservation	VOA's O&G Metals Other pH<2	

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Sample Receipt Checklist

Client Name: **ERAS Environmental, Inc.** Date and Time Received: **5/7/2015 5:06:02 PM**

Project Name: **#14-003-01; 106-110 Hegenberger** LogIn Reviewed by: Jena Alfaro

WorkOrder №: **1505259** Matrix: Soil/Water Carrier: Benjamin Yslas (MAI Courier)

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐
Chain of custody signed when relinquished and received?	Yes ☑	No ☐
Chain of custody agrees with sample labels?	Yes ☑	No ☐
Sample IDs noted by Client on COC?	Yes ☑	No ☐
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐
Sampler's name noted on COC?	Yes ☑	No ☐

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Sample/Temp Blank temperature	Temp: 3.2°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☑	No ☐	NA ☐
Sample labels checked for correct preservation?	Yes ☑	No ☐	
pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes ☐	No ☑	NA ☐
Samples Received on Ice?	Yes ☑	No ☐	

(Ice Type: WET ICE)

UCMR3 Samples:

Total Chlorine tested and acceptable upon receipt for EPA 522?	Yes ☐	No ☐	NA ☑
Free Chlorine tested and acceptable upon receipt for EPA 218.7, 300.1, 537, 539?	Yes ☐	No ☐	NA ☑

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

Comments: pH adjusted in Lab.

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Analytical Report

WorkOrder: 1509192

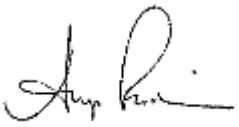
Report Created for: ERAS Environmental, Inc.

1533 B Street
Hayward, CA 94541

Project Contact: Andrew Savage
Project P.O.:
Project Name: 14-003-05; 106-110 Hegenberger

Project Received: 09/04/2015

Analytical Report reviewed & approved for release on 09/14/2015 by:



Angela Rydelius,
Laboratory Manager

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Glossary of Terms & Qualifier Definitions

Client: ERAS Environmental, Inc.
Project: 14-003-05; 106-110 Hegenberger
WorkOrder: 1509192

Glossary Abbreviation

95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DUP	Duplicate
EDL	Estimated Detection Limit
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
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PF	Prep Factor
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
SPLP	Synthetic Precipitation Leachate Procedure
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

Analytical Qualifiers

S	spike recovery outside accepted recovery limits
c2	surrogate recovery outside of the control limits due to matrix interference.
e2	diesel range compounds are significant; no recognizable pattern
e4	gasoline range compounds are significant.
e7	oil range compounds are significant
e11/e8	stoddard solvent/mineral spirit (?); and/or kerosene/kerosene range/jet fuel range
e11	stoddard solvent/mineral spirit (?)

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Glossary of Terms & Qualifier Definitions

Client: ERAS Environmental, Inc.
Project: 14-003-05; 106-110 Hegenberger
WorkOrder: 1509192

Quality Control Qualifiers

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

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Analytical Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1509192
Date Received:	9/4/15 18:50	**Extraction Method:**	SW5030B
Date Prepared:	9/8/15	**Analytical Method:**	SW8260B
Project:	14-003-05; 106-110 Hegenberger	**Unit:**	mg/kg

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

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-10, 3.5-4	1509192-001A	Soil	09/03/2015 09:02	GC16	109935

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**21**	1.2	5	09/09/2015 20:44

Surrogates	REC (%)	Limits	
Benzene-d6	106	60-140	09/09/2015 20:44
Dibromofluoromethane	98	70-130	09/09/2015 20:44

Analyst(s): KF

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-10, 6-6.5	1509192-002A	Soil	09/03/2015 09:25	GC16	109935

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**0.33**	0.25	1	09/09/2015 13:29

Surrogates	REC (%)	Limits	
Benzene-d6	89	60-140	09/09/2015 13:29
Dibromofluoromethane	91	70-130	09/09/2015 13:29

Analyst(s): KF

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-11, 5.5-6	1509192-004A	Soil	09/03/2015 10:27	GC16	109935

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**35**	2.5	10	09/10/2015 05:16

Surrogates	REC (%)	Limits	
Benzene-d6	106	60-140	09/10/2015 05:16
Dibromofluoromethane	97	70-130	09/10/2015 05:16

Analyst(s): KF

(Cont.)

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Analytical Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1509192
Date Received:	9/4/15 18:50	**Extraction Method:**	SW5030B
Date Prepared:	9/8/15	**Analytical Method:**	SW8260B
Project:	14-003-05; 106-110 Hegenberger	**Unit:**	mg/kg

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

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-11, 9-9.5	1509192-005A	Soil	09/03/2015 10:30	GC16	109935

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	0.25	1	09/09/2015 14:56
Surrogates	**REC (%)**	**Limits**		
Benzene-d6	91	60-140		09/09/2015 14:56
Dibromofluoromethane	91	70-130		09/09/2015 14:56

Analyst(s): KF

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-12, 3.5-4	1509192-007A	Soil	09/03/2015 11:29	GC16	109935

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**54**	5.0	20	09/09/2015 23:35
Surrogates	**REC (%)**	**Limits**		
Benzene-d6	99	60-140		09/09/2015 23:35
Dibromofluoromethane	98	70-130		09/09/2015 23:35

Analyst(s): KF

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-12, 7-7.5	1509192-008A	Soil	09/03/2015 11:32	GC16	109935

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**21**	1.7	6.7	09/10/2015 00:18
Surrogates	**REC (%)**	**Limits**		
Benzene-d6	101	60-140		09/10/2015 00:18
Dibromofluoromethane	97	70-130		09/10/2015 00:18

Analyst(s): KF

(Cont.)

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Analytical Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1509192
Date Received:	9/4/15 18:50	**Extraction Method:**	SW5030B
Date Prepared:	9/8/15	**Analytical Method:**	SW8260B
Project:	14-003-05; 106-110 Hegenberger	**Unit:**	mg/kg

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

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-13, 3.5-4	1509192-010A	Soil	09/03/2015 13:56	GC16	109935

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**7.6**	0.25	1	09/09/2015 17:05

Surrogates	REC (%)	Limits	
Benzene-d6	99	60-140	09/09/2015 17:05
Dibromofluoromethane	99	70-130	09/09/2015 17:05

Analyst(s): KF

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-13, 6.5-7	1509192-011A	Soil	09/03/2015 14:00	GC16	109935

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	0.25	1	09/09/2015 17:48

Surrogates	REC (%)	Limits	
Benzene-d6	87	60-140	09/09/2015 17:48
Dibromofluoromethane	92	70-130	09/09/2015 17:48

Analyst(s): KF

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-14, 3.5-4	1509192-012A	Soil	09/03/2015 12:50	GC16	109935

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**110**	5.0	20	09/10/2015 22:35

Surrogates	REC (%)	Limits	
Benzene-d6	103	60-140	09/10/2015 22:35
Dibromofluoromethane	100	70-130	09/10/2015 22:35

Analyst(s): KF

(Cont.)

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Analytical Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1509192
Date Received:	9/4/15 18:50	**Extraction Method:**	SW5030B
Date Prepared:	9/8/15	**Analytical Method:**	SW8260B
Project:	14-003-05; 106-110 Hegenberger	**Unit:**	mg/kg

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

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-14, 6.5-7	1509192-013A	Soil	09/03/2015 12:53	GC16	109935

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	0.25	1	09/10/2015 23:17
Surrogates	**REC (%)**	**Limits**		
Benzene-d6	74	60-140		09/10/2015 23:17
Dibromofluoromethane	94	70-130		09/10/2015 23:17

Analyst(s): KF

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-15, 3.5-4	1509192-014A	Soil	09/04/2015 08:06	GC16	109935

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	0.25	1	09/11/2015 00:00
Surrogates	**REC (%)**	**Limits**		
Benzene-d6	93	60-140		09/11/2015 00:00
Dibromofluoromethane	94	70-130		09/11/2015 00:00

Analyst(s): KF

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-15, 7-7.5	1509192-015A	Soil	09/04/2015 08:09	GC16	109935

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	0.25	1	09/10/2015 03:51
Surrogates	**REC (%)**	**Limits**		
Benzene-d6	93	60-140		09/10/2015 03:51
Dibromofluoromethane	91	70-130		09/10/2015 03:51

Analyst(s): KF

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Analytical Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1509192
Date Received:	9/4/15 18:50	**Extraction Method:**	SW5030B
Date Prepared:	9/8/15	**Analytical Method:**	SW8260B
Project:	14-003-05; 106-110 Hegenberger	**Unit:**	mg/kg

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

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-16, 3.5-4	1509192-016A	Soil	09/04/2015 09:05	GC16	109935

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**0.40**	0.25	1	09/10/2015 04:34

Surrogates	REC (%)	Limits	
Benzene-d6	99	60-140	09/10/2015 04:34
Dibromofluoromethane	91	70-130	09/10/2015 04:34

Analyst(s): KF

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-16, 6.5-7	1509192-017A	Soil	09/04/2015 09:08	GC16	109935

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	0.25	1	09/09/2015 12:03

Surrogates	REC (%)	Limits	
Benzene-d6	82	60-140	09/09/2015 12:03
Dibromofluoromethane	93	70-130	09/09/2015 12:03

Analyst(s): KF

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Analytical Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1509192
Date Received:	9/4/15 18:50	**Extraction Method:**	SW5030B
Date Prepared:	9/8/15	**Analytical Method:**	SW8260B
Project:	14-003-05; 106-110 Hegenberger	**Unit:**	mg/Kg

Volatile Organics by P&T and GC/MS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-10, 3.5-4	1509192-001A	Soil	09/03/2015 09:02	GC16	109935

Analytes	Result	RL	DF	Date Analyzed
Benzene	ND	0.0050	1	09/09/2015 12:46
Ethylbenzene	ND	0.0050	1	09/09/2015 12:46
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	09/09/2015 12:46
Naphthalene	ND	0.0050	1	09/09/2015 12:46
Toluene	ND	0.0050	1	09/09/2015 12:46
Xylenes, Total	ND	0.0050	1	09/09/2015 12:46
Surrogates	**REC (%)**	**Limits**		
Dibromofluoromethane	103	70-130		09/09/2015 12:46
Toluene-d8	111	70-130		09/09/2015 12:46
4-BFB	113	70-130		09/09/2015 12:46
Benzene-d6	92	60-140		09/09/2015 12:46
Ethylbenzene-d10	102	60-140		09/09/2015 12:46
1,2-DCB-d4	73	60-140		09/09/2015 12:46

Analyst(s): KF

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-10, 6-6.5	1509192-002A	Soil	09/03/2015 09:25	GC16	109935

Analytes	Result	RL	DF	Date Analyzed
Benzene	ND	0.0050	1	09/09/2015 13:29
Ethylbenzene	ND	0.0050	1	09/09/2015 13:29
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	09/09/2015 13:29
Naphthalene	ND	0.0050	1	09/09/2015 13:29
Toluene	ND	0.0050	1	09/09/2015 13:29
Xylenes, Total	ND	0.0050	1	09/09/2015 13:29
Surrogates	**REC (%)**	**Limits**		
Dibromofluoromethane	98	70-130		09/09/2015 13:29
Toluene-d8	103	70-130		09/09/2015 13:29
4-BFB	91	70-130		09/09/2015 13:29
Benzene-d6	87	60-140		09/09/2015 13:29
Ethylbenzene-d10	94	60-140		09/09/2015 13:29
1,2-DCB-d4	71	60-140		09/09/2015 13:29

Analyst(s): KF

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Analytical Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1509192
Date Received:	9/4/15 18:50	**Extraction Method:**	SW5030B
Date Prepared:	9/8/15	**Analytical Method:**	SW8260B
Project:	14-003-05; 106-110 Hegenberger	**Unit:**	mg/Kg

Volatile Organics by P&T and GC/MS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-11, 5.5-6	**1509192-004A**	**Soil**	**09/03/2015 10:27**	**GC16**	**109935**

Analytes	Result	RL	DF	Date Analyzed
Benzene	**0.47**	0.050	10	09/10/2015 05:16
Ethylbenzene	**0.87**	0.050	10	09/10/2015 05:16
Methyl-t-butyl ether (MTBE)	ND	0.050	10	09/10/2015 05:16
Naphthalene	**0.33**	0.050	10	09/10/2015 05:16
Toluene	**1.1**	0.050	10	09/10/2015 05:16
Xylenes, Total	**2.1**	0.050	10	09/10/2015 05:16

Surrogates	REC (%)	Limits	
Dibromofluoromethane	105	70-130	09/10/2015 05:16
Toluene-d8	95	70-130	09/10/2015 05:16
4-BFB	89	70-130	09/10/2015 05:16
Benzene-d6	104	60-140	09/10/2015 05:16
Ethylbenzene-d10	104	60-140	09/10/2015 05:16
1,2-DCB-d4	94	60-140	09/10/2015 05:16

Analyst(s): KF

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-11, 9-9.5	**1509192-005A**	**Soil**	**09/03/2015 10:30**	**GC16**	**109935**

Analytes	Result	RL	DF	Date Analyzed
Benzene	ND	0.0050	1	09/09/2015 22:52
Ethylbenzene	ND	0.0050	1	09/09/2015 22:52
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	09/09/2015 22:52
Naphthalene	ND	0.0050	1	09/09/2015 22:52
Toluene	ND	0.0050	1	09/09/2015 22:52
Xylenes, Total	ND	0.0050	1	09/09/2015 22:52

Surrogates	REC (%)	Limits	
Dibromofluoromethane	101	70-130	09/09/2015 22:52
Toluene-d8	103	70-130	09/09/2015 22:52
4-BFB	90	70-130	09/09/2015 22:52
Benzene-d6	83	60-140	09/09/2015 22:52
Ethylbenzene-d10	83	60-140	09/09/2015 22:52
1,2-DCB-d4	71	60-140	09/09/2015 22:52

Analyst(s): KF

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Analytical Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1509192
Date Received:	9/4/15 18:50	**Extraction Method:**	SW5030B
Date Prepared:	9/8/15	**Analytical Method:**	SW8260B
Project:	14-003-05; 106-110 Hegenberger	**Unit:**	mg/Kg

Volatile Organics by P&T and GC/MS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-12, 3.5-4	1509192-007A	Soil	09/03/2015 11:29	GC16	109935

Analytes	Result	RL	DF	Date Analyzed
Benzene	ND	0.0050	1	09/09/2015 15:39
Ethylbenzene	**0.014**	0.0050	1	09/09/2015 15:39
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	09/09/2015 15:39
Naphthalene	**0.012**	0.0050	1	09/09/2015 15:39
Toluene	**0.0074**	0.0050	1	09/09/2015 15:39
Xylenes, Total	**0.021**	0.0050	1	09/09/2015 15:39

Surrogates	REC (%)	Limits	
Dibromofluoromethane	117	70-130	09/09/2015 15:39
Toluene-d8	110	70-130	09/09/2015 15:39
4-BFB	105	70-130	09/09/2015 15:39
Benzene-d6	87	60-140	09/09/2015 15:39
Ethylbenzene-d10	91	60-140	09/09/2015 15:39
1,2-DCB-d4	71	60-140	09/09/2015 15:39

Analyst(s): KF

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-12, 7-7.5	1509192-008A	Soil	09/03/2015 11:32	GC16	109935

Analytes	Result	RL	DF	Date Analyzed
Benzene	**0.61**	0.033	6.7	09/10/2015 00:18
Ethylbenzene	**1.1**	0.033	6.7	09/10/2015 00:18
Methyl-t-butyl ether (MTBE)	ND	0.033	6.7	09/10/2015 00:18
Naphthalene	**0.38**	0.033	6.7	09/10/2015 00:18
Toluene	**0.14**	0.033	6.7	09/10/2015 00:18
Xylenes, Total	**1.0**	0.033	6.7	09/10/2015 00:18

Surrogates	REC (%)	Limits	
Dibromofluoromethane	104	70-130	09/10/2015 00:18
Toluene-d8	95	70-130	09/10/2015 00:18
4-BFB	91	70-130	09/10/2015 00:18
Benzene-d6	98	60-140	09/10/2015 00:18
Ethylbenzene-d10	98	60-140	09/10/2015 00:18
1,2-DCB-d4	84	60-140	09/10/2015 00:18

Analyst(s): KF

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Analytical Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1509192
Date Received:	9/4/15 18:50	**Extraction Method:**	SW5030B
Date Prepared:	9/8/15	**Analytical Method:**	SW8260B
Project:	14-003-05; 106-110 Hegenberger	**Unit:**	mg/Kg

Volatile Organics by P&T and GC/MS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-13, 3.5-4	1509192-010A	Soil	09/03/2015 13:56	GC16	109935

Analytes	Result	RL	DF	Date Analyzed
Benzene	ND	0.0050	1	09/10/2015 01:00
Ethylbenzene	ND	0.0050	1	09/10/2015 01:00
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	09/10/2015 01:00
Naphthalene	ND	0.0050	1	09/10/2015 01:00
Toluene	ND	0.0050	1	09/10/2015 01:00
Xylenes, Total	ND	0.0050	1	09/10/2015 01:00
Surrogates	**REC (%)**	**Limits**		
Dibromofluoromethane	109	70-130		09/10/2015 01:00
Toluene-d8	101	70-130		09/10/2015 01:00
4-BFB	99	70-130		09/10/2015 01:00
Benzene-d6	93	60-140		09/10/2015 01:00
Ethylbenzene-d10	92	60-140		09/10/2015 01:00
1,2-DCB-d4	71	60-140		09/10/2015 01:00

Analyst(s): KF

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-13, 6.5-7	1509192-011A	Soil	09/03/2015 14:00	GC16	109935

Analytes	Result	RL	DF	Date Analyzed
Benzene	ND	0.0050	1	09/09/2015 17:48
Ethylbenzene	ND	0.0050	1	09/09/2015 17:48
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	09/09/2015 17:48
Naphthalene	ND	0.0050	1	09/09/2015 17:48
Toluene	ND	0.0050	1	09/09/2015 17:48
Xylenes, Total	ND	0.0050	1	09/09/2015 17:48
Surrogates	**REC (%)**	**Limits**		
Dibromofluoromethane	100	70-130		09/09/2015 17:48
Toluene-d8	102	70-130		09/09/2015 17:48
4-BFB	90	70-130		09/09/2015 17:48
Benzene-d6	85	60-140		09/09/2015 17:48
Ethylbenzene-d10	90	60-140		09/09/2015 17:48
1,2-DCB-d4	72	60-140		09/09/2015 17:48

Analyst(s): KF

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Analytical Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1509192
Date Received:	9/4/15 18:50	**Extraction Method:**	SW5030B
Date Prepared:	9/8/15	**Analytical Method:**	SW8260B
Project:	14-003-05; 106-110 Hegenberger	**Unit:**	mg/Kg

Volatile Organics by P&T and GC/MS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-14, 3.5-4	**1509192-012A**	**Soil**	**09/03/2015 12:50**	**GC16**	**109935**

Analytes	Result	RL	DF	Date Analyzed
Benzene	ND	0.0050	1	09/10/2015 01:43
Ethylbenzene	**0.032**	0.0050	1	09/10/2015 01:43
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	09/10/2015 01:43
Naphthalene	ND	0.0050	1	09/10/2015 01:43
Toluene	ND	0.0050	1	09/10/2015 01:43
Xylenes, Total	ND	0.0050	1	09/10/2015 01:43

Surrogates	REC (%)	Qualifiers	Limits	
Dibromofluoromethane	117		70-130	09/10/2015 01:43
Toluene-d8	115		70-130	09/10/2015 01:43
4-BFB	190	S	70-130	09/10/2015 01:43
Benzene-d6	105		60-140	09/10/2015 01:43
Ethylbenzene-d10	112		60-140	09/10/2015 01:43
1,2-DCB-d4	76		60-140	09/10/2015 01:43

Analyst(s): KF Analytical Comments: c2

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-14, 6.5-7	**1509192-013A**	**Soil**	**09/03/2015 12:53**	**GC16**	**109935**

Analytes	Result	RL	DF	Date Analyzed
Benzene	ND	0.0050	1	09/10/2015 02:26
Ethylbenzene	ND	0.0050	1	09/10/2015 02:26
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	09/10/2015 02:26
Naphthalene	ND	0.0050	1	09/10/2015 02:26
Toluene	ND	0.0050	1	09/10/2015 02:26
Xylenes, Total	ND	0.0050	1	09/10/2015 02:26

Surrogates	REC (%)	Limits	
Dibromofluoromethane	98	70-130	09/10/2015 02:26
Toluene-d8	104	70-130	09/10/2015 02:26
4-BFB	96	70-130	09/10/2015 02:26
Benzene-d6	85	60-140	09/10/2015 02:26
Ethylbenzene-d10	93	60-140	09/10/2015 02:26
1,2-DCB-d4	71	60-140	09/10/2015 02:26

Analyst(s): KF

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Analytical Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1509192
Date Received:	9/4/15 18:50	**Extraction Method:**	SW5030B
Date Prepared:	9/8/15	**Analytical Method:**	SW8260B
Project:	14-003-05; 106-110 Hegenberger	**Unit:**	mg/Kg

Volatile Organics by P&T and GC/MS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-15, 3.5-4	1509192-014A	Soil	09/04/2015 08:06	GC16	109935

Analytes	Result	RL	DF	Date Analyzed
Benzene	ND	0.0050	1	09/10/2015 03:08
Ethylbenzene	ND	0.0050	1	09/10/2015 03:08
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	09/10/2015 03:08
Naphthalene	ND	0.0050	1	09/10/2015 03:08
Toluene	ND	0.0050	1	09/10/2015 03:08
Xylenes, Total	ND	0.0050	1	09/10/2015 03:08
Surrogates	**REC (%)**	**Limits**		
Dibromofluoromethane	99	70-130		09/10/2015 03:08
Toluene-d8	103	70-130		09/10/2015 03:08
4-BFB	97	70-130		09/10/2015 03:08
Benzene-d6	90	60-140		09/10/2015 03:08
Ethylbenzene-d10	95	60-140		09/10/2015 03:08
1,2-DCB-d4	73	60-140		09/10/2015 03:08

Analyst(s): KF

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-15, 7-7.5	1509192-015A	Soil	09/04/2015 08:09	GC16	109935

Analytes	Result	RL	DF	Date Analyzed
Benzene	ND	0.0050	1	09/10/2015 03:51
Ethylbenzene	ND	0.0050	1	09/10/2015 03:51
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	09/10/2015 03:51
Naphthalene	ND	0.0050	1	09/10/2015 03:51
Toluene	ND	0.0050	1	09/10/2015 03:51
Xylenes, Total	ND	0.0050	1	09/10/2015 03:51
Surrogates	**REC (%)**	**Limits**		
Dibromofluoromethane	99	70-130		09/10/2015 03:51
Toluene-d8	102	70-130		09/10/2015 03:51
4-BFB	91	70-130		09/10/2015 03:51
Benzene-d6	90	60-140		09/10/2015 03:51
Ethylbenzene-d10	94	60-140		09/10/2015 03:51
1,2-DCB-d4	73	60-140		09/10/2015 03:51

Analyst(s): KF

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Analytical Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1509192
Date Received:	9/4/15 18:50	**Extraction Method:**	SW5030B
Date Prepared:	9/8/15	**Analytical Method:**	SW8260B
Project:	14-003-05; 106-110 Hegenberger	**Unit:**	mg/Kg

Volatile Organics by P&T and GC/MS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-16, 3.5-4	1509192-016A	Soil	09/04/2015 09:05	GC16	109935

Analytes	Result	RL	DF	Date Analyzed
Benzene	ND	0.0050	1	09/10/2015 04:34
Ethylbenzene	ND	0.0050	1	09/10/2015 04:34
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	09/10/2015 04:34
Naphthalene	ND	0.0050	1	09/10/2015 04:34
Toluene	ND	0.0050	1	09/10/2015 04:34
Xylenes, Total	ND	0.0050	1	09/10/2015 04:34
Surrogates	**REC (%)**	**Limits**		
Dibromofluoromethane	99	70-130		09/10/2015 04:34
Toluene-d8	105	70-130		09/10/2015 04:34
4-BFB	96	70-130		09/10/2015 04:34
Benzene-d6	96	60-140		09/10/2015 04:34
Ethylbenzene-d10	99	60-140		09/10/2015 04:34
1,2-DCB-d4	79	60-140		09/10/2015 04:34

Analyst(s): KF

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-16, 6.5-7	1509192-017A	Soil	09/04/2015 09:08	GC16	109935

Analytes	Result	RL	DF	Date Analyzed
Benzene	ND	0.0050	1	09/09/2015 12:03
Ethylbenzene	ND	0.0050	1	09/09/2015 12:03
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	09/09/2015 12:03
Naphthalene	ND	0.0050	1	09/09/2015 12:03
Toluene	ND	0.0050	1	09/09/2015 12:03
Xylenes, Total	ND	0.0050	1	09/09/2015 12:03
Surrogates	**REC (%)**	**Limits**		
Dibromofluoromethane	100	70-130		09/09/2015 12:03
Toluene-d8	104	70-130		09/09/2015 12:03
4-BFB	88	70-130		09/09/2015 12:03
Benzene-d6	79	60-140		09/09/2015 12:03
Ethylbenzene-d10	84	60-140		09/09/2015 12:03
1,2-DCB-d4	63	60-140		09/09/2015 12:03

Analyst(s): KF

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Analytical Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1509192
Date Received:	9/4/15 18:50	**Extraction Method:**	SW3550B/3630C
Date Prepared:	9/8/15	**Analytical Method:**	SW8015B
Project:	14-003-05; 106-110 Hegenberger	**Unit:**	mg/Kg

Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-10, 3.5-4	**1509192-001A**	**Soil**	**09/03/2015 09:02**	**GC6B**	**109933**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**2.3**	1.0	1	09/09/2015 16:02
TPH-Motor Oil (C18-C36)	**12**	5.0	1	09/09/2015 16:02

Surrogates	REC (%)	Limits	
C9	98	70-130	09/09/2015 16:02

Analyst(s): TK Analytical Comments: e7,e2

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-10, 6-6.5	**1509192-002A**	**Soil**	**09/03/2015 09:25**	**GC6A**	**109933**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	09/09/2015 16:02
TPH-Motor Oil (C18-C36)	ND	5.0	1	09/09/2015 16:02

Surrogates	REC (%)	Limits	
C9	92	70-130	09/09/2015 16:02

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-11, 5.5-6	**1509192-004A**	**Soil**	**09/03/2015 10:27**	**GC9b**	**109933**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**29**	1.0	1	09/09/2015 20:40
TPH-Motor Oil (C18-C36)	**7.2**	5.0	1	09/09/2015 20:40

Surrogates	REC (%)	Limits	
C9	108	70-130	09/09/2015 20:40

Analyst(s): TK Analytical Comments: e4,e7,e2

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Analytical Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1509192
Date Received:	9/4/15 18:50	**Extraction Method:**	SW3550B/3630C
Date Prepared:	9/8/15	**Analytical Method:**	SW8015B
Project:	14-003-05; 106-110 Hegenberger	**Unit:**	mg/Kg

Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-11, 9-9.5	1509192-005A	Soil	09/03/2015 10:30	GC9b	109933

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	09/09/2015 18:14
TPH-Motor Oil (C18-C36)	ND	5.0	1	09/09/2015 18:14
Surrogates	REC (%)	Limits		
C9	106	70-130		09/09/2015 18:14

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-12, 3.5-4	1509192-007A	Soil	09/03/2015 11:29	GC2B	109933

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**4.4**	1.0	1	09/10/2015 06:13
TPH-Motor Oil (C18-C36)	**21**	5.0	1	09/10/2015 06:13
Surrogates	REC (%)	Limits		
C9	116	70-130		09/10/2015 06:13

Analyst(s): TK Analytical Comments: e7,e2

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-12, 7-7.5	1509192-008A	Soil	09/03/2015 11:32	GC2B	109933

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**3.4**	1.0	1	09/10/2015 08:45
TPH-Motor Oil (C18-C36)	ND	5.0	1	09/10/2015 08:45
Surrogates	REC (%)	Limits		
C9	115	70-130		09/10/2015 08:45

Analyst(s): TK Analytical Comments: e11/e8

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Analytical Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1509192
Date Received:	9/4/15 18:50	**Extraction Method:**	SW3550B/3630C
Date Prepared:	9/8/15	**Analytical Method:**	SW8015B
Project:	14-003-05; 106-110 Hegenberger	**Unit:**	mg/Kg

Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-13, 3.5-4	**1509192-010A**	**Soil**	**09/03/2015 13:56**	**GC11A**	**109933**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**3.1**	2.0	2	09/10/2015 16:25
TPH-Motor Oil (C18-C36)	**16**	10	2	09/10/2015 16:25

Surrogates	REC (%)	Limits	
C9	113	70-130	09/10/2015 16:25

Analyst(s): TK Analytical Comments: e7,e2

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-13, 6.5-7	**1509192-011A**	**Soil**	**09/03/2015 14:00**	**GC11A**	**109933**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	09/10/2015 05:28
TPH-Motor Oil (C18-C36)	ND	5.0	1	09/10/2015 05:28

Surrogates	REC (%)	Limits	
C9	117	70-130	09/10/2015 05:28

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-14, 3.5-4	**1509192-012A**	**Soil**	**09/03/2015 12:50**	**GC11A**	**109933**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**32**	1.0	1	09/10/2015 03:11
TPH-Motor Oil (C18-C36)	**24**	5.0	1	09/10/2015 03:11

Surrogates	REC (%)	Limits	
C9	116	70-130	09/10/2015 03:11

Analyst(s): TK Analytical Comments: e7,e11,e2

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Analytical Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1509192
Date Received:	9/4/15 18:50	**Extraction Method:**	SW3550B/3630C
Date Prepared:	9/8/15	**Analytical Method:**	SW8015B
Project:	14-003-05; 106-110 Hegenberger	**Unit:**	mg/Kg

Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-14, 6.5-7	1509192-013A	Soil	09/03/2015 12:53	GC11B	109933

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	09/09/2015 03:57
TPH-Motor Oil (C18-C36)	**5.3**	5.0	1	09/09/2015 03:57

Surrogates	REC (%)	Limits	
C9	106	70-130	09/09/2015 03:57

Analyst(s): TK Analytical Comments: e7

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-15, 3.5-4	1509192-014A	Soil	09/04/2015 08:06	GC11A	109933

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**1.3**	1.0	1	09/09/2015 13:12
TPH-Motor Oil (C18-C36)	**12**	5.0	1	09/09/2015 13:12

Surrogates	REC (%)	Limits	
C9	116	70-130	09/09/2015 13:12

Analyst(s): TK Analytical Comments: e7,e2

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-15, 7-7.5	1509192-015A	Soil	09/04/2015 08:09	GC11B	109933

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**2.9**	1.0	1	09/10/2015 12:40
TPH-Motor Oil (C18-C36)	**33**	5.0	1	09/10/2015 12:40

Surrogates	REC (%)	Limits	
C9	112	70-130	09/10/2015 12:40

Analyst(s): TK Analytical Comments: e7,e2

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Analytical Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1509192
Date Received:	9/4/15 18:50	**Extraction Method:**	SW3550B/3630C
Date Prepared:	9/8/15	**Analytical Method:**	SW8015B
Project:	14-003-05; 106-110 Hegenberger	**Unit:**	mg/Kg

Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-16, 3.5-4	1509192-016A	Soil	09/04/2015 09:05	GC11A	109933

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**14**	1.0	1	09/09/2015 02:49
TPH-Motor Oil (C18-C36)	**80**	5.0	1	09/09/2015 02:49

Surrogates	REC (%)	Limits	
C9	113	70-130	09/09/2015 02:49

Analyst(s): TK Analytical Comments: e7,e2

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-16, 6.5-7	1509192-017A	Soil	09/04/2015 09:08	GC11B	109933

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**1.4**	1.0	1	09/09/2015 01:40
TPH-Motor Oil (C18-C36)	**21**	5.0	1	09/09/2015 01:40

Surrogates	REC (%)	Limits	
C9	104	70-130	09/09/2015 01:40

Analyst(s): TK Analytical Comments: e7,e2

CLIENT: ERAS Environmental, Inc.
Work Order: 1509192
Project: 14-003-05; 106-110 Hegenberger

ANALYTICAL QC SUMMARY REPORT

BatchID: 109935

SampleID **MB-109935**	TestCode: **8260GAS_S**	Units: **mg/kg**	Prep Date: **9/8/2015**
Batch ID: **109935**	TestNo: **SW8260B**	Run ID: **GC16_150910B**	Analysis Date: **9/8/2015**

Analyte	Result	PQL	SPKValue	SPKRefVal	%REC	Limits	RPDRefVal	%RPD	RPDLimit	Qual
TPH(g)	ND	0.25				-				
Surrogate Recovery										
Benzene-d6	0.0947		0.1		95	60 - 140				
Dibromofluoromethane	0.112		0.125		90	70 - 130				

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

CLIENT: ERAS Environmental, Inc.
Work Order: 1509192
Project: 14-003-05; 106-110 Hegenberger

ANALYTICAL QC SUMMARY REPORT

BatchID: 109935

SampleID **LCS-109935**	TestCode: **8260GAS_S**			Units: **mg/kg**		Prep Date: **9/8/2015**				
Batch ID: **109935**	TestNo: **SW8260B**			Run ID: **GC16_150910B**		Analysis Date: **9/8/2015**				
Analyte	Result	PQL	SPKValue	SPKRefVal	%REC	Limits	RPDRefVal	%RPD	RPDLimit	Qual
VOC (C6-C12)	2.28	0.25	3.2	0	71	71 - 142				
Surrogate Recovery										
Benzene-d6	0.0935		0.1		94	60 - 140				

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

CDPH ELAP 1644 ♦ NELAP 4033ORELAP

Angela Rydelius, Lab Manager

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Quality Control Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1509192
Date Prepared:	9/8/15	**BatchID:**	109935
Date Analyzed:	9/8/15	**Extraction Method:**	SW5030B
Instrument:	GC16	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	14-003-05; 106-110 Hegenberger	**Sample ID:**	MB/LCS-109935 1509192-017AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	-	0.10	-	-	-	-
tert-Amyl methyl ether (TAME)	ND	0.0354	0.0050	0.050	-	71	53-116
Benzene	ND	0.0467	0.0050	0.050	-	93	63-137
Bromobenzene	ND	-	0.0050	-	-	-	-
Bromochloromethane	ND	-	0.0050	-	-	-	-
Bromodichloromethane	ND	-	0.0050	-	-	-	-
Bromoform	ND	-	0.0050	-	-	-	-
Bromomethane	ND	-	0.0050	-	-	-	-
2-Butanone (MEK)	ND	-	0.020	-	-	-	-
t-Butyl alcohol (TBA)	ND	0.129	0.050	0.20	-	65	41-135
n-Butyl benzene	ND	-	0.0050	-	-	-	-
sec-Butyl benzene	ND	-	0.0050	-	-	-	-
tert-Butyl benzene	ND	-	0.0050	-	-	-	-
Carbon Disulfide	ND	-	0.0050	-	-	-	-
Carbon Tetrachloride	ND	-	0.0050	-	-	-	-
Chlorobenzene	ND	0.0440	0.0050	0.050	-	88	77-121
Chloroethane	ND	-	0.0050	-	-	-	-
Chloroform	ND	-	0.0050	-	-	-	-
Chloromethane	ND	-	0.0050	-	-	-	-
2-Chlorotoluene	ND	-	0.0050	-	-	-	-
4-Chlorotoluene	ND	-	0.0050	-	-	-	-
Dibromochloromethane	ND	-	0.0050	-	-	-	-
1,2-Dibromo-3-chloropropane	ND	-	0.0040	-	-	-	-
1,2-Dibromoethane (EDB)	ND	0.0419	0.0040	0.050	-	84	67-119
Dibromomethane	ND	-	0.0050	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,4-Dichlorobenzene	ND	-	0.0050	-	-	-	-
Dichlorodifluoromethane	ND	-	0.0050	-	-	-	-
1,1-Dichloroethane	ND	-	0.0050	-	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.0443	0.0040	0.050	-	89	58-135
1,1-Dichloroethene	ND	0.0458	0.0050	0.050	-	92	42-145
cis-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
trans-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
1,2-Dichloropropane	ND	-	0.0050	-	-	-	-
1,3-Dichloropropane	ND	-	0.0050	-	-	-	-
2,2-Dichloropropane	ND	-	0.0050	-	-	-	-
1,1-Dichloropropene	ND	-	0.0050	-	-	-	-

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Quality Control Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1509192
Date Prepared:	9/8/15	**BatchID:**	109935
Date Analyzed:	9/8/15	**Extraction Method:**	SW5030B
Instrument:	GC16	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	14-003-05; 106-110 Hegenberger	**Sample ID:**	MB/LCS-109935 1509192-017AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
cis-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-
trans-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-
Diisopropyl ether (DIPE)	ND	0.0424	0.0050	0.050	-	85	52-129
Ethylbenzene	ND	-	0.0050	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	0.0393	0.0050	0.050	-	79	53-125
Freon 113	ND	-	0.0050	-	-	-	-
Hexachlorobutadiene	ND	-	0.0050	-	-	-	-
Hexachloroethane	ND	-	0.0050	-	-	-	-
2-Hexanone	ND	-	0.0050	-	-	-	-
Isopropylbenzene	ND	-	0.0050	-	-	-	-
4-Isopropyl toluene	ND	-	0.0050	-	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.0387	0.0050	0.050	-	77	58-122
Methylene chloride	ND	-	0.0050	-	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	-	0.0050	-	-	-	-
Naphthalene	ND	-	0.0050	-	-	-	-
n-Propyl benzene	ND	-	0.0050	-	-	-	-
Styrene	ND	-	0.0050	-	-	-	-
1,1,1,2-Tetrachloroethane	ND	-	0.0050	-	-	-	-
1,1,2,2-Tetrachloroethane	ND	-	0.0050	-	-	-	-
Tetrachloroethene	ND	-	0.0050	-	-	-	-
Toluene	ND	0.0484	0.0050	0.050	-	97	76-130
1,2,3-Trichlorobenzene	ND	-	0.0050	-	-	-	-
1,2,4-Trichlorobenzene	ND	-	0.0050	-	-	-	-
1,1,1-Trichloroethane	ND	-	0.0050	-	-	-	-
1,1,2-Trichloroethane	ND	-	0.0050	-	-	-	-
Trichloroethene	ND	0.0444	0.0050	0.050	-	89	72-132
Trichlorofluoromethane	ND	-	0.0050	-	-	-	-
1,2,3-Trichloropropane	ND	-	0.0050	-	-	-	-
1,2,4-Trimethylbenzene	ND	-	0.0050	-	-	-	-
1,3,5-Trimethylbenzene	ND	-	0.0050	-	-	-	-
Vinyl Chloride	ND	-	0.0050	-	-	-	-
Xylenes, Total	ND	-	0.0050	-	-	-	-

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Quality Control Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1509192
Date Prepared:	9/8/15	**BatchID:**	109935
Date Analyzed:	9/8/15	**Extraction Method:**	SW5030B
Instrument:	GC16	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	14-003-05; 106-110 Hegenberger	**Sample ID:**	MB/LCS-109935 1509192-017AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Surrogate Recovery							
Dibromofluoromethane	0.121	0.126		0.12	97	101	70-130
Toluene-d8	0.132	0.130		0.12	106	104	70-130
4-BFB	0.0118	0.0120		0.012	94	96	70-130
Benzene-d6	0.0918	0.0908		0.10	92	91	60-140
Ethylbenzene-d10	0.0988	0.100		0.10	99	100	60-140
1,2-DCB-d4	0.0742	0.0777		0.10	74	78	60-140

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
tert-Amyl methyl ether (TAME)	0.0298	0.0320	0.050	ND	60,F1	64,F1	70-130	7.00	20
Benzene	0.0409	0.0427	0.050	ND	82	85	70-130	4.34	20
t-Butyl alcohol (TBA)	0.102	0.112	0.20	ND	51,F1	56,F1	70-130	9.37	20
Chlorobenzene	0.0391	0.0412	0.050	ND	78	82	70-130	5.14	20
1,2-Dibromoethane (EDB)	0.0348	0.0379	0.050	ND	70	76	70-130	8.37	20
1,2-Dichloroethane (1,2-DCA)	0.0377	0.0397	0.050	ND	75	79	70-130	5.24	20
1,1-Dichloroethene	0.0400	0.0413	0.050	ND	80	83	70-130	3.23	20
Diisopropyl ether (DIPE)	0.0360	0.0378	0.050	ND	72	76	70-130	4.89	20
Ethyl tert-butyl ether (ETBE)	0.0331	0.0353	0.050	ND	66,F1	71	70-130	6.36	20
Methyl-t-butyl ether (MTBE)	0.0328	0.0345	0.050	ND	66,F1	69,F1	70-130	5.09	20
Toluene	0.0415	0.0440	0.050	ND	83	88	70-130	5.83	20
Trichloroethene	0.0405	0.0427	0.050	ND	81	85	70-130	5.21	20
Surrogate Recovery									
Dibromofluoromethane	0.125	0.125	0.12		100	100	70-130	0	20
Toluene-d8	0.128	0.129	0.12		103	103	70-130	0	20
4-BFB	0.0114	0.0118	0.012		91	94	70-130	3.64	20
Benzene-d6	0.0833	0.0861	0.10		83	86	60-140	3.25	20
Ethylbenzene-d10	0.0916	0.0912	0.10		92	91	60-140	0.430	20
1,2-DCB-d4	0.0703	0.0715	0.10		70	72	60-140	1.67	20

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Quality Control Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1509192
Date Prepared:	9/8/15	**BatchID:**	109933
Date Analyzed:	9/8/15 - 9/9/15	**Extraction Method:**	SW3550B/3630C
Instrument:	GC2B, GC9b	**Analytical Method:**	SW8015B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	14-003-05; 106-110 Hegenberger	**Sample ID:**	MB/LCS-109933 1509192-016AMS/MSD

QC Report for SW8015B with Silica Gel Clean-Up

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	39.1	1.0	40	-	98	70-130
TPH-Motor Oil (C18-C36)	ND	-	5.0	-	-	-	-
Surrogate Recovery							
C9	28.2	26.0		25	113	104	62-139

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	57.5	56.9	40	14.07	109	107	70-130	1.14	30
Surrogate Recovery									
C9	28.6	28.6	25		114	114	70-130	0	30

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1509192 **ClientCode: ERAS**

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

Report to:
Andrew Savage
ERAS Environmental, Inc.
1533 B Street
Hayward, CA 94541
(510) 247-9885 FAX: (510) 886-5399

Email: info@eras.biz; andrew@eras.biz
cc/3rd Party:
PO:
ProjectNo: 14-003-05; 106-110 Hegenberger

Bill to:
Kasey Cordoza
ERAS Environmental, Inc.
1533 B Street
Hayward, CA 94541

Requested TAT: **5 days;**

Date Received: **09/04/2015**
Date Printed: **09/08/2015**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below) 1	2	3	4	5	6	7	8	9	10	11	12
1509192-001	B-10, 3.5-4	Soil	9/3/2015 9:02	☐	A	A	A									
1509192-002	B-10, 6-6.5	Soil	9/3/2015 9:25	☐	A	A	A									
1509192-004	B-11, 5.5-6	Soil	9/3/2015 10:27	☐	A	A	A									
1509192-005	B-11, 9-9.5	Soil	9/3/2015 10:30	☐	A	A	A									
1509192-007	B-12, 3.5-4	Soil	9/3/2015 11:29	☐	A	A	A									
1509192-008	B-12, 7-7.5	Soil	9/3/2015 11:32	☐	A	A	A									
1509192-010	B-13, 3.5-4	Soil	9/3/2015 13:56	☐	A	A	A									
1509192-011	B-13, 6.5-7	Soil	9/3/2015 14:00	☐	A	A	A									
1509192-012	B-14, 3.5-4	Soil	9/3/2015 12:50	☐	A	A	A									
1509192-013	B-14, 6.5-7	Soil	9/3/2015 12:53	☐	A	A	A									
1509192-014	B-15, 3.5-4	Soil	9/4/2015 8:06	☐	A	A	A									
1509192-015	B-15, 7-7.5	Soil	9/4/2015 8:09	☐	A	A	A									
1509192-016	B-16, 3.5-4	Soil	9/4/2015 9:05	☐	A	A	A									
1509192-017	B-16, 6.5-7	Soil	9/4/2015 9:08	☐	A	A	A									

Test Legend:

1	8260GAS_S	2	8260VOC_S	3	TPH(DMO)WSG_S	4	
5		6		7		8	
9		10		11		12	

The following SampIDs: 001A, 002A, 004A, 005A, 007A, 008A, 010A, 011A, 012A, 013A, 014A, 015A, 016A, 017A contain testgroup.

Prepared by: Maria Venegas

Comments:

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

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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: ERAS ENVIRONMENTAL, INC. **QC Level:** LEVEL 2 **Work Order:** 1509192
Project: 14-003-05; 106-110 Hegenberger **Client Contact:** Andrew Savage **Date Received:** 9/4/2015
Comments: **Contact's Email:** info@eras.biz; andrew@eras.biz

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1509192-001A	B-10, 3.5-4	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	1	Acetate Liner	☐	9/3/2015 9:02	5 days		☐	
			TPH(g) & 8260 (Misc. Compounds) by P&T GCMS			☐		5 days		☐	
1509192-002A	B-10, 6-6.5	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	1	Acetate Liner	☐	9/3/2015 9:25	5 days		☐	
			TPH(g) & 8260 (Misc. Compounds) by P&T GCMS			☐		5 days		☐	
1509192-003A	B-10, 11.5-12	Soil		1	Acetate Liner	☐	9/3/2015 9:29			☑	
1509192-004A	B-11, 5.5-6	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	1	Acetate Liner	☐	9/3/2015 10:27	5 days		☐	
			TPH(g) & 8260 (Misc. Compounds) by P&T GCMS			☐		5 days		☐	
1509192-005A	B-11, 9-9.5	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	1	Acetate Liner	☐	9/3/2015 10:30	5 days		☐	
			TPH(g) & 8260 (Misc. Compounds) by P&T GCMS			☐		5 days		☐	
1509192-006A	B-11, 15.5-16	Soil		1	Acetate Liner	☐	9/3/2015 10:33			☑	
1509192-007A	B-12, 3.5-4	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	1	Acetate Liner	☐	9/3/2015 11:29	5 days		☐	
			TPH(g) & 8260 (Misc. Compounds) by P&T GCMS			☐		5 days		☐	
1509192-008A	B-12, 7-7.5	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	1	Acetate Liner	☐	9/3/2015 11:32	5 days		☐	
			TPH(g) & 8260 (Misc. Compounds) by P&T GCMS			☐		5 days		☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

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WORK ORDER SUMMARY

Client Name: ERAS ENVIRONMENTAL, INC. **QC Level:** LEVEL 2 **Work Order:** 1509192
Project: 14-003-05; 106-110 Hegenberger **Client Contact:** Andrew Savage **Date Received:** 9/4/2015
Comments: **Contact's Email:** info@eras.biz; andrew@eras.biz

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1509192-009A	B-12, 15.5-16	Soil		1	Acetate Liner	☐	9/3/2015 11:28			☑	
1509192-010A	B-13, 3.5-4	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	1	Acetate Liner	☐	9/3/2015 13:56	5 days		☐	
			TPH(g) & 8260 (Misc. Compounds) by P&T GCMS			☐		5 days		☐	
1509192-011A	B-13, 6.5-7	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	1	Acetate Liner	☐	9/3/2015 14:00	5 days		☐	
			TPH(g) & 8260 (Misc. Compounds) by P&T GCMS			☐		5 days		☐	
1509192-012A	B-14, 3.5-4	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	1	Acetate Liner	☐	9/3/2015 12:50	5 days		☐	
			TPH(g) & 8260 (Misc. Compounds) by P&T GCMS			☐		5 days		☐	
1509192-013A	B-14, 6.5-7	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	1	Acetate Liner	☐	9/3/2015 12:53	5 days		☐	
			TPH(g) & 8260 (Misc. Compounds) by P&T GCMS			☐		5 days		☐	
1509192-014A	B-15, 3.5-4	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	1	Acetate Liner	☐	9/4/2015 8:06	5 days		☐	
			TPH(g) & 8260 (Misc. Compounds) by P&T GCMS			☐		5 days		☐	
1509192-015A	B-15, 7-7.5	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	1	Acetate Liner	☐	9/4/2015 8:09	5 days		☐	
			TPH(g) & 8260 (Misc. Compounds) by P&T GCMS			☐		5 days		☐	
1509192-016A	B-16, 3.5-4	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	1	Acetate Liner	☐	9/4/2015 9:05	5 days		☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

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WORK ORDER SUMMARY

Client Name: ERAS ENVIRONMENTAL, INC. **QC Level:** LEVEL 2 **Work Order:** 1509192
Project: 14-003-05; 106-110 Hegenberger **Client Contact:** Andrew Savage **Date Received:** 9/4/2015
Comments: **Contact's Email:** info@eras.biz; andrew@eras.biz

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1509192-016A	B-16, 3.5-4	Soil	TPH(g) & 8260 (Misc. Compounds) by P&T GCMS	1	Acetate Liner	☐	9/4/2015 9:05	5 days		☐	
1509192-017A	B-16, 6.5-7	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	1	Acetate Liner	☐	9/4/2015 9:08	5 days		☐	
			TPH(g) & 8260 (Misc. Compounds) by P&T GCMS			☐		5 days		☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

1509192

CHAIN OF CUSTODY FORM

McCampbell Analytical, Inc
1534 Willow Pass Rd.
Pittsburg, CA 94565
877.252.9262
925.252.9269 - fax

Turnaround Time:	Rush	24Hr	48 Hr	72 Hr	X 5 Day
Geotracker:	PDF	Excel	Write On (DW		

Report To: ERAS **Bill To:** ERAS
Company: ERAS Environmental, Inc.
Email: info@eras.biz
Telephone: 510-247-9885 **Fax:** 510-886-5399
Project # 14-003-05
Project location 106-110 Hegenberger
Sampler: Andrew Savage

Sample ID	Location/Field Point Name	Sampling Date	Sampling Time	# of Containers	Container Type	Matrix: Soil	Water	Waste		Preservative: HCL	H2SO4	HNO3	ICE	None	TPH as diesel and oil range organics by 8015 with silica gel	TPH-gro, BTEX, MTBE, Napthalene by 8260	Other	Comments
B-10, 3.5-4		9/3/2015	9:02	1	Tube	X							X		X	X		
B-10, 6-6.5		9/3/2015	9:25	1	Tube	X							X		X	X		
B-10, 11.5-12		9/3/2015	9:29	1	Tube	X							X		X	X		HOLD
B-11, 5.5-6		9/3/2015	10:27	1	Tube	X							X		X	X		
B-11, 9-9.5		9/3/2015	10:30	1	Tube	X							X		X	X		
B-11, 15.5-16		9/3/2015	10:33	1	Tube	X							X		X	X		HOLD
B-12, 3.5-4		9/3/2015	11:29	1	Tube	X							X		X	X		
B-12, 7-7.5		9/3/2015	11:32	1	Tube	X							X		X	X		
B-12, 15.5-16		9/3/2015	11:28	1	Tube	X							X		X	X		HOLD
B-13, 3.5-4		9/3/2015	13:56	1	Tube	X							X		X	X		
B-13, 6.5-7		9/3/2015	14:00	1	Tube	X							X		X	X		
B-14, 3.5-4		9/3/2015	12:50	1	Tube	X							X		X	X		
B-14, 6.5-7		9/3/2015	12:53	1	Tube	X							X		X	X		

RELINQUISHED BY: **RECEIVED BY:**

Relinquished by:	Date:	Time:	Recieved by:
	9-4-15	1655	
Relinquished by:	Date:	Time:	Recieved by:
	9/4	1850	
Relinquished by:	Date:	Time:	Recieved by:

ICE/t° 3.8
GOOD CONDITION
HEAD SPACE ABSENT
DECHLORINATED IN LAB
APPROPRIATE CONTAINERS
PRESERVED IN LAB

Comments: Please PDF

ICE/t° Condition	VOAS	O&G	METALS	OTHER
Head space absent	PRESERVATION			
Dechlorinated in lab				
Appropriate containers				
Preserved in Lab				
	VOA's	O&G	Metals	Other
Preservation			pH<2	

CHAIN OF CUSTODY FORM

McCampbell Analytical, Inc
1534 Willow Pass Rd.
Pittsburg, CA 94565
877.252.9262
925.252.9269 - fax

Turnaround Time: Rush | 24Hr | 48 Hr | 72 Hr | X 5 Day
Geotracker: PDF | Excel | Write On (DW

Report To: ERAS **Bill To:** ERAS
Company: ERAS Environmental, Inc.
Email: info@eras.biz
Telephone: 510-247-9885 **Fax:** 510-886-5399
Project # 14-003-05
Project location 106-110 Hegenberger
Sampler: Andrew Savage

Sample ID	Location/Field Point Name	Sampling Date	Sampling Time	# of Containers	Container Type	Matrix: Soil	Water	Waste		Preservative: HCL	H2SO4	HNO3	ICE	None	Analysis Requested: TPH as diesel and oil range organics by 8015 with silica gel	TPH-gro, BTEX, MTBE, Napthalene by 8260	Other	Comments
B-15, 3.5-4		9/4/2015	8:06	1	Tube	X							X		X	X		
B-15, 7-7.5		9/4/2015	8:09	1	Tube	X							X		X	X		
B-16, 3.5-4		9/4/2015	9:05	1	Tube	X							X		X	X		
B-16, 6.5-7		9/4/2015	9:08	1	Tube	X							X		X	X		

RELINQUISHED BY: **RECEIVED BY:**

Relinquished by:	Date: 9-4-15	Time: 1655	Recieved by:	
Relinquished by:	Date: 9/4	Time: 1850	Recieved by:	
Relinquished by:	Date:	Time:	Recieved by:	

ICE/t°
Condition
Head space absent
Dechlorinated in lab
Appropriate containers
Preserved in Lab
Preservation VOA's O&G Metals Other pH<2

Comments: Please PDF

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Sample Receipt Checklist

Client Name: **ERAS Environmental, Inc.**
Date and Time Received: **9/4/2015 6:50:00 PM**

Project Name: **14-003-05; 106-110 Hegenberger**
LogIn Reviewed by: Maria Venegas

WorkOrder №: **1509192** Matrix: Soil
Carrier: Benjamin Yslas (MAI Courier)

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐
Chain of custody signed when relinquished and received?	Yes ☑	No ☐
Chain of custody agrees with sample labels?	Yes ☑	No ☐
Sample IDs noted by Client on COC?	Yes ☑	No ☐
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐
Sampler's name noted on COC?	Yes ☑	No ☐

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Sample/Temp Blank temperature	Temp: 3.8°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☐	No ☐	NA ☑
Sample labels checked for correct preservation?	Yes ☑	No ☐	
pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes ☐	No ☐	NA ☑
Samples Received on Ice?	Yes ☑	No ☐	
	(Ice Type: WET ICE)		

UCMR3 Samples:

Total Chlorine tested and acceptable upon receipt for EPA 522?	Yes ☐	No ☐	NA ☑
Free Chlorine tested and acceptable upon receipt for EPA 218.7, 300.1, 537, 539?	Yes ☐	No ☐	NA ☑

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

Comments:

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1509192 A

Report Created for: ERAS Environmental, Inc.

1533 B Street
Hayward, CA 94541

Project Contact: Andrew Savage
Project P.O.:
Project Name: 14-003-05; 106-110 Hegenberger

Project Received: 09/04/2015

Analytical Report reviewed & approved for release on 09/16/2015 by:

Angela Rydelius,
Laboratory Manager

McCampbell Analytical, Inc.
"When Quality Counts"
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http://www.mccampbell.com / E-mail: main@mccampbell.com

Glossary of Terms & Qualifier Definitions

Client: ERAS Environmental, Inc.
Project: 14-003-05; 106-110 Hegenberger
WorkOrder: 1509192

Glossary Abbreviation

95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DUP	Duplicate
EDL	Estimated Detection Limit
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
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PF	Prep Factor
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
SPLP	Synthetic Precipitation Leachate Procedure
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

Analytical Qualifiers

S	spike recovery outside accepted recovery limits
c2	surrogate recovery outside of the control limits due to matrix interference.
e2	diesel range compounds are significant; no recognizable pattern
e4	gasoline range compounds are significant.
e7	oil range compounds are significant
e11/e8	stoddard solvent/mineral spirit (?); and/or kerosene/kerosene range/jet fuel range
e11	stoddard solvent/mineral spirit (?)

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Glossary of Terms & Qualifier Definitions

Client: ERAS Environmental, Inc.
Project: 14-003-05; 106-110 Hegenberger
WorkOrder: 1509192

Quality Control Qualifiers

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

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

Analytical Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1509192
Date Received:	9/4/15 18:50	**Extraction Method:**	SW5030B
Date Prepared:	9/15/15	**Analytical Method:**	SW8260B
Project:	14-003-05; 106-110 Hegenberger	**Unit:**	mg/kg

Benzene, Toluene, Ethylbenzene & Xylenes (BTEX) by P&T and GC/MS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-12, 15.5-16	1509192-009A	Soil	09/03/2015 11:28	GC18	110208

Analytes	Result	RL	DF	Date Analyzed
Benzene	ND	0.0050	1	09/15/2015 16:32
Ethylbenzene	ND	0.0050	1	09/15/2015 16:32
Toluene	ND	0.0050	1	09/15/2015 16:32
Xylenes, Total	ND	0.0050	1	09/15/2015 16:32
Surrogates	**REC (%)**	**Limits**		
Dibromofluoromethane	97	70-130		09/15/2015 16:32
Toluene-d8	89	70-130		09/15/2015 16:32
Ethylbenzene-d10	114	60-140		09/15/2015 16:32
Benzene-d6	112	60-140		09/15/2015 16:32

Analyst(s): KF

McCampbell Analytical, Inc.
"When Quality Counts"

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Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Quality Control Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1509192
Date Prepared:	9/14/15	**BatchID:**	110208
Date Analyzed:	9/15/15	**Extraction Method:**	SW5030B
Instrument:	GC16	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	14-003-05; 106-110 Hegenberger	**Sample ID:**	MB/LCS-110208 1509474-018AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	-	0.10	-	-	-	-
tert-Amyl methyl ether (TAME)	ND	-	0.0050	-	-	-	-
Benzene	ND	0.0503	0.0050	0.050	-	101	63-137
Bromobenzene	ND	-	0.0050	-	-	-	-
Bromochloromethane	ND	-	0.0050	-	-	-	-
Bromodichloromethane	ND	-	0.0050	-	-	-	-
Bromoform	ND	-	0.0050	-	-	-	-
Bromomethane	ND	-	0.0050	-	-	-	-
2-Butanone (MEK)	ND	-	0.020	-	-	-	-
t-Butyl alcohol (TBA)	ND	-	0.050	-	-	-	-
n-Butyl benzene	ND	-	0.0050	-	-	-	-
sec-Butyl benzene	ND	-	0.0050	-	-	-	-
tert-Butyl benzene	ND	-	0.0050	-	-	-	-
Carbon Disulfide	ND	-	0.0050	-	-	-	-
Carbon Tetrachloride	ND	-	0.0050	-	-	-	-
Chlorobenzene	ND	-	0.0050	-	-	-	-
Chloroethane	ND	-	0.0050	-	-	-	-
Chloroform	ND	-	0.0050	-	-	-	-
Chloromethane	ND	-	0.0050	-	-	-	-
2-Chlorotoluene	ND	-	0.0050	-	-	-	-
4-Chlorotoluene	ND	-	0.0050	-	-	-	-
Dibromochloromethane	ND	-	0.0050	-	-	-	-
1,2-Dibromo-3-chloropropane	ND	-	0.0040	-	-	-	-
1,2-Dibromoethane (EDB)	ND	-	0.0040	-	-	-	-
Dibromomethane	ND	-	0.0050	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,4-Dichlorobenzene	ND	-	0.0050	-	-	-	-
Dichlorodifluoromethane	ND	-	0.0050	-	-	-	-
1,1-Dichloroethane	ND	-	0.0050	-	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	-	0.0040	-	-	-	-
1,1-Dichloroethene	ND	-	0.0050	-	-	-	-
cis-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
trans-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
1,2-Dichloropropane	ND	-	0.0050	-	-	-	-
1,3-Dichloropropane	ND	-	0.0050	-	-	-	-
2,2-Dichloropropane	ND	-	0.0050	-	-	-	-
1,1-Dichloropropene	ND	-	0.0050	-	-	-	-

(Cont.)

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Quality Control Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1509192
Date Prepared:	9/14/15	**BatchID:**	110208
Date Analyzed:	9/15/15	**Extraction Method:**	SW5030B
Instrument:	GC16	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	14-003-05; 106-110 Hegenberger	**Sample ID:**	MB/LCS-110208 1509474-018AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
cis-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-
trans-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-
Diisopropyl ether (DIPE)	ND	-	0.0050	-	-	-	-
Ethylbenzene	ND	-	0.0050	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	-	0.0050	-	-	-	-
Freon 113	ND	-	0.0050	-	-	-	-
Hexachlorobutadiene	ND	-	0.0050	-	-	-	-
Hexachloroethane	ND	-	0.0050	-	-	-	-
2-Hexanone	ND	-	0.0050	-	-	-	-
Isopropylbenzene	ND	-	0.0050	-	-	-	-
4-Isopropyl toluene	ND	-	0.0050	-	-	-	-
Methyl-t-butyl ether (MTBE)	ND	-	0.0050	-	-	-	-
Methylene chloride	ND	-	0.0050	-	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	-	0.0050	-	-	-	-
Naphthalene	ND	-	0.0050	-	-	-	-
n-Propyl benzene	ND	-	0.0050	-	-	-	-
Styrene	ND	-	0.0050	-	-	-	-
1,1,1,2-Tetrachloroethane	ND	-	0.0050	-	-	-	-
1,1,2,2-Tetrachloroethane	ND	-	0.0050	-	-	-	-
Tetrachloroethene	ND	-	0.0050	-	-	-	-
Toluene	ND	0.0524	0.0050	0.050	-	105	76-130
1,2,3-Trichlorobenzene	ND	-	0.0050	-	-	-	-
1,2,4-Trichlorobenzene	ND	-	0.0050	-	-	-	-
1,1,1-Trichloroethane	ND	-	0.0050	-	-	-	-
1,1,2-Trichloroethane	ND	-	0.0050	-	-	-	-
Trichloroethene	ND	-	0.0050	-	-	-	-
Trichlorofluoromethane	ND	-	0.0050	-	-	-	-
1,2,3-Trichloropropane	ND	-	0.0050	-	-	-	-
1,2,4-Trimethylbenzene	ND	-	0.0050	-	-	-	-
1,3,5-Trimethylbenzene	ND	-	0.0050	-	-	-	-
Vinyl Chloride	ND	-	0.0050	-	-	-	-
Xylenes, Total	ND	-	0.0050	-	-	-	-

(Cont.)

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Quality Control Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1509192
Date Prepared:	9/14/15	**BatchID:**	110208
Date Analyzed:	9/15/15	**Extraction Method:**	SW5030B
Instrument:	GC16	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	14-003-05; 106-110 Hegenberger	**Sample ID:**	MB/LCS-110208 1509474-018AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Surrogate Recovery							
Dibromofluoromethane	0.122	0.127		0.12	98	102	70-130
Toluene-d8	0.131	0.130		0.12	105	104	70-130
4-BFB	0.0118	-		0.0125	94	-	-
Benzene-d6	0.0962	0.0949		0.10	96	95	60-140
Ethylbenzene-d10	0.0986	0.104		0.10	99	104	60-140
1,2-DCB-d4	0.0783	-		0.1	78	-	-

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Benzene	0.0426	0.0436	0.050	ND	85	87	70-130	2.50	20
Toluene	0.0400	0.0413	0.050	ND	80	83	70-130	3.14	20
Surrogate Recovery									
Dibromofluoromethane	0.122	0.123	0.12		98	99	70-130	0.872	20
Toluene-d8	0.112	0.112	0.12		89	90	70-130	0.646	20
Benzene-d6	0.102	0.103	0.10		101	103	60-140	1.91	20
Ethylbenzene-d10	0.106	0.108	0.10		106	108	60-140	2.01	20

McCampbell Analytical, Inc.
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Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1509192 A **ClientCode: ERAS**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:
Andrew Savage
ERAS Environmental, Inc.
1533 B Street
Hayward, CA 94541
(510) 247-9885 FAX: (510) 886-5399

Email: info@eras.biz; andrew@eras.biz
cc/3rd Party:
PO:
ProjectNo: 14-003-05; 106-110 Hegenberger

Bill to:
Kasey Cordoza
ERAS Environmental, Inc.
1533 B Street
Hayward, CA 94541

Requested TAT: 2 days;

Date Received: **09/04/2015**
Date Add-On: **09/15/2015**
Date Printed: **09/15/2015**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1509192-009	B-12, 15.5-16	Soil	9/3/2015 11:28	☐	A											

Test Legend:

1	8260B_BTEX_S	2		3		4	
5		6		7		8	
9		10		11		12	

Prepared by: Maria Venegas

Add-On Prepared By: Maria Venegas

Comments: BTEX by 8260 added to sample 009 9/15/15 2day TAT

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

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WORK ORDER SUMMARY

Client Name: ERAS ENVIRONMENTAL, INC.
Project: 14-003-05; 106-110 Hegenberger
Comments: BTEX by 8260 added to sample 009 9/15/15 2day TAT

QC Level: LEVEL 2
Client Contact: Andrew Savage
Contact's Email: info@eras.biz; andrew@eras.biz

Work Order: 1509192
Date Received: 9/4/2015
Date Add-On: 9/15/2015

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1509192-009A	B-12, 15.5-16	Soil	SW8260B (BTEX)	1	Acetate Liner	9/3/2015 11:28	2 days		☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

1509192

CHAIN OF CUSTODY FORM

McCampbell Analytical, Inc
1534 Willow Pass Rd.
Pittsburg, CA 94565
877.252.9262
925.252.9269 - fax

Report To: ERAS **Bill To:** ERAS
Company: ERAS Environmental, Inc.

Email: info@eras.biz
Telephone: 510-247-9885 **Fax:** 510-886-5399
Project # 14-003-05
Project location 106-110 Hegenberger
Sampler: Andrew Savage

Turnaround Time: Rush | 24Hr | 48 Hr | 72 Hr | X 5 Day
Geotracker: PDF | Excel | Write On (DW

Sample ID	Location/Field Point Name	Sampling Date	Sampling Time	# of Containers	Container Type	Matrix: Soil	Water	Waste		Preservative: HCL	H2SO4	HNO3	ICE	None	TPH as diesel and oil range organics by 8015 with silica gel	TPH-gro, BTEX, MTBE, Napthalene by 8260	BTEX by 8260 9/15/15 2day	Other	Comments
B-10, 3.5-4		9/3/2015	9:02	1	Tube	X							X		X	X			
B-10, 6-6.5		9/3/2015	9:25	1	Tube	X							X		X	X			
B-10, 11.5-12		9/3/2015	9:29	1	Tube	X							X		X	X			HOLD
B-11, 5.5-6		9/3/2015	10:27	1	Tube	X							X		X	X			
B-11, 9-9.5		9/3/2015	10:30	1	Tube	X							X		X	X			
B-11, 15.5-16		9/3/2015	10:33	1	Tube	X							X		X	X			HOLD
B-12, 3.5-4		9/3/2015	11:29	1	Tube	X							X		X	X			
B-12, 7-7.5		9/3/2015	11:32	1	Tube	X							X		X	X			
B-12, 15.5-16		9/3/2015	11:28	1	Tube	X							X		X	X	X		HOLD
B-13, 3.5-4		9/3/2015	13:56	1	Tube	X							X		X	X			
B-13, 6.5-7		9/3/2015	14:00	1	Tube	X							X		X	X			
B-14, 3.5-4		9/3/2015	12:50	1	Tube	X							X		X	X			
B-14, 6.5-7		9/3/2015	12:53	1	Tube	X							X		X	X			

RELINQUISHED BY: **RECEIVED BY:**

Relinquished by:	Date: 9-4-15	Time: 1655	Recieved by:	
Relinquished by:	Date: 9/4	Time: 1850	Recieved by:	
Relinquished by:	Date:	Time:	Recieved by:	

ICE/t° 3.8
GOOD CONDITION
HEAD SPACE ABSENT
DECHLORINATED IN LAB
APPROPRIATE CONTAINERS
PRESERVED IN LAB

ICE/t° Condition	PRESERVATION	VOAS	O&G	METALS	OTHER
Head space absent					
Dechlorinated in lab					
Appropriate containers					
Preserved in Lab					
Preservation	VOA's O&G Metals Other pH<2				

Comments: Please PDF

Appendix F

Analytical Results – Groundwater

McCampbell Analytical, Inc.
"When Quality Counts"

Analytical Report

WorkOrder: 1505216

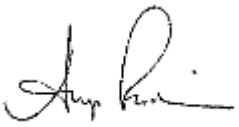
Report Created for: ERAS Environmental, Inc.

1533 B Street
Hayward, CA 94541

Project Contact: Andrew Savage
Project P.O.:
Project Name: #14-003-01; 106-110 Hegenberger

Project Received: 05/06/2015

Analytical Report reviewed & approved for release on 05/12/2015 by:



Angela Rydelius,
Laboratory Manager

McCampbell Analytical, Inc.
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Glossary of Terms & Qualifier Definitions

Client: ERAS Environmental, Inc.
Project: #14-003-01; 106-110 Hegenberger
WorkOrder: 1505216

Glossary Abbreviation

95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DUP	Duplicate
EDL	Estimated Detection Limit
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
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PF	Prep Factor
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
SPLP	Synthetic Precipitation Leachate Procedure
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

Analytical Qualifiers

e2	diesel range compounds are significant; no recognizable pattern
e4	gasoline range compounds are significant.
e7	oil range compounds are significant

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Analytical Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505216
Project:	#14-003-01; 106-110 Hegenberger	**Extraction Method:**	SW5030B
Date Received:	5/6/15 19:11	**Analytical Method:**	SW8260B
Date Prepared:	5/8/15-5/12/15	**Unit:**	µg/L

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

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-1	**1505216-001C**	**Water**	**05/05/2015 10:25**	**GC16**	**104618**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	50	1	05/08/2015 13:34
Surrogates	**REC (%)**	**Limits**		
Dibromofluoromethane	96	70-130		05/08/2015 13:34

Analyst(s): KF

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-2	**1505216-002C**	**Water**	**05/05/2015 11:15**	**GC16**	**104618**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**1400**	1000	20	05/08/2015 14:17
Surrogates	**REC (%)**	**Limits**		
Dibromofluoromethane	97	70-130		05/08/2015 14:17

Analyst(s): KF

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-3	**1505216-003C**	**Water**	**05/05/2015 16:04**	**GC16**	**104618**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**2300**	1200	25	05/08/2015 15:00
Surrogates	**REC (%)**	**Limits**		
Dibromofluoromethane	97	70-130		05/08/2015 15:00

Analyst(s): KF

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-4	**1505216-004C**	**Water**	**05/05/2015 13:39**	**GC16**	**104739**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	50	1	05/12/2015 12:06
Surrogates	**REC (%)**	**Limits**		
Dibromofluoromethane	97	70-130		05/12/2015 12:06

Analyst(s): KF

(Cont.)

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Analytical Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505216
Project:	#14-003-01; 106-110 Hegenberger	**Extraction Method:**	SW5030B
Date Received:	5/6/15 19:11	**Analytical Method:**	SW8260B
Date Prepared:	5/8/15-5/12/15	**Unit:**	µg/L

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

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-4 Shallow	**1505216-005C**	**Water**	**05/05/2015 12:45**	**GC16**	**104739**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	50	1	05/12/2015 12:48

Surrogates	REC (%)	Limits	
Dibromofluoromethane	97	70-130	05/12/2015 12:48

Analyst(s): KF

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-5	**1505216-006C**	**Water**	**05/05/2015 15:19**	**GC16**	**104739**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	50	1	05/12/2015 13:31

Surrogates	REC (%)	Limits	
Dibromofluoromethane	98	70-130	05/12/2015 13:31

Analyst(s): KF

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-6	**1505216-007C**	**Water**	**05/05/2015 15:41**	**GC16**	**104739**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	50	1	05/12/2015 14:14

Surrogates	REC (%)	Limits	
Dibromofluoromethane	98	70-130	05/12/2015 14:14

Analyst(s): KBO

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Analytical Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505216
Project:	#14-003-01; 106-110 Hegenberger	**Extraction Method:**	SW5030B
Date Received:	5/6/15 19:11	**Analytical Method:**	SW8260B
Date Prepared:	5/8/15-5/12/15	**Unit:**	µg/L

Volatile Organics by P&T and GC/MS

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-1	**1505216-001C**	**Water**	**05/05/2015 10:25**	**GC16**	**104618**

Analytes	Result	RL	DF	Date Analyzed
Benzene	ND	0.50	1	05/08/2015 13:34
Ethylbenzene	ND	0.50	1	05/08/2015 13:34
Methyl-t-butyl ether (MTBE)	**0.50**	0.50	1	05/08/2015 13:34
Naphthalene	ND	0.50	1	05/08/2015 13:34
Toluene	ND	0.50	1	05/08/2015 13:34
Xylenes, Total	ND	0.50	1	05/08/2015 13:34
Surrogates	**REC (%)**	**Limits**		
Dibromofluoromethane	87	73-131		05/08/2015 13:34
Toluene-d8	87	72-117		05/08/2015 13:34
4-BFB	95	74-116		05/08/2015 13:34

Analyst(s): KF

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-2	**1505216-002C**	**Water**	**05/05/2015 11:15**	**GC16**	**104618**

Analytes	Result	RL	DF	Date Analyzed
Benzene	**370**	10	20	05/08/2015 14:17
Ethylbenzene	**73**	10	20	05/08/2015 14:17
Methyl-t-butyl ether (MTBE)	ND	10	20	05/08/2015 14:17
Naphthalene	**13**	10	20	05/08/2015 14:17
Toluene	ND	10	20	05/08/2015 14:17
Xylenes, Total	**22**	10	20	05/08/2015 14:17
Surrogates	**REC (%)**	**Limits**		
Dibromofluoromethane	86	73-131		05/08/2015 14:17
Toluene-d8	88	72-117		05/08/2015 14:17
4-BFB	86	74-116		05/08/2015 14:17

Analyst(s): KF

(Cont.)

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Analytical Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505216
Project:	#14-003-01; 106-110 Hegenberger	**Extraction Method:**	SW5030B
Date Received:	5/6/15 19:11	**Analytical Method:**	SW8260B
Date Prepared:	5/8/15-5/12/15	**Unit:**	µg/L

Volatile Organics by P&T and GC/MS

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-3	**1505216-003C**	**Water**	**05/05/2015 16:04**	**GC16**	**104618**

Analytes	Result	RL	DF	Date Analyzed
Benzene	**430**	12	25	05/08/2015 15:00
Ethylbenzene	**210**	12	25	05/08/2015 15:00
Methyl-t-butyl ether (MTBE)	ND	12	25	05/08/2015 15:00
Naphthalene	**29**	12	25	05/08/2015 15:00
Toluene	ND	12	25	05/08/2015 15:00
Xylenes, Total	**150**	12	25	05/08/2015 15:00

Surrogates	REC (%)	Limits	
Dibromofluoromethane	85	73-131	05/08/2015 15:00
Toluene-d8	88	72-117	05/08/2015 15:00
4-BFB	88	74-116	05/08/2015 15:00

Analyst(s): KF

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-4	**1505216-004C**	**Water**	**05/05/2015 13:39**	**GC16**	**104739**

Analytes	Result	RL	DF	Date Analyzed
Benzene	ND	0.50	1	05/12/2015 12:06
Ethylbenzene	ND	0.50	1	05/12/2015 12:06
Methyl-t-butyl ether (MTBE)	ND	0.50	1	05/12/2015 12:06
Naphthalene	ND	0.50	1	05/12/2015 12:06
Toluene	ND	0.50	1	05/12/2015 12:06
Xylenes, Total	ND	0.50	1	05/12/2015 12:06

Surrogates	REC (%)	Limits	
Dibromofluoromethane	86	73-131	05/12/2015 12:06
Toluene-d8	88	72-117	05/12/2015 12:06
4-BFB	87	74-116	05/12/2015 12:06

Analyst(s): KF

(Cont.)

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Analytical Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505216
Project:	#14-003-01; 106-110 Hegenberger	**Extraction Method:**	SW5030B
Date Received:	5/6/15 19:11	**Analytical Method:**	SW8260B
Date Prepared:	5/8/15-5/12/15	**Unit:**	µg/L

Volatile Organics by P&T and GC/MS

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-4 Shallow	**1505216-005C**	**Water**	**05/05/2015 12:45**	**GC16**	**104739**

Analytes	Result	RL	DF	Date Analyzed
Benzene	ND	0.50	1	05/12/2015 12:48
Ethylbenzene	ND	0.50	1	05/12/2015 12:48
Methyl-t-butyl ether (MTBE)	ND	0.50	1	05/12/2015 12:48
Naphthalene	ND	0.50	1	05/12/2015 12:48
Toluene	ND	0.50	1	05/12/2015 12:48
Xylenes, Total	ND	0.50	1	05/12/2015 12:48
Surrogates	REC (%)	Limits		
Dibromofluoromethane	85	73-131		05/12/2015 12:48
Toluene-d8	88	72-117		05/12/2015 12:48
4-BFB	86	74-116		05/12/2015 12:48

Analyst(s): KF

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-5	**1505216-006C**	**Water**	**05/05/2015 15:19**	**GC16**	**104739**

Analytes	Result	RL	DF	Date Analyzed
Benzene	ND	0.50	1	05/12/2015 13:31
Ethylbenzene	ND	0.50	1	05/12/2015 13:31
Methyl-t-butyl ether (MTBE)	ND	0.50	1	05/12/2015 13:31
Naphthalene	ND	0.50	1	05/12/2015 13:31
Toluene	ND	0.50	1	05/12/2015 13:31
Xylenes, Total	ND	0.50	1	05/12/2015 13:31
Surrogates	REC (%)	Limits		
Dibromofluoromethane	86	73-131		05/12/2015 13:31
Toluene-d8	86	72-117		05/12/2015 13:31
4-BFB	87	74-116		05/12/2015 13:31

Analyst(s): KF

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Analytical Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505216
Project:	#14-003-01; 106-110 Hegenberger	**Extraction Method:**	SW5030B
Date Received:	5/6/15 19:11	**Analytical Method:**	SW8260B
Date Prepared:	5/8/15-5/12/15	**Unit:**	µg/L

Volatile Organics by P&T and GC/MS

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-6	**1505216-007C**	**Water**	**05/05/2015 15:41**	**GC16**	**104739**

Analytes	Result	RL	DF	Date Analyzed
Benzene	ND	0.50	1	05/12/2015 14:14
Ethylbenzene	ND	0.50	1	05/12/2015 14:14
Methyl-t-butyl ether (MTBE)	ND	0.50	1	05/12/2015 14:14
Naphthalene	ND	0.50	1	05/12/2015 14:14
Toluene	ND	0.50	1	05/12/2015 14:14
Xylenes, Total	ND	0.50	1	05/12/2015 14:14
Surrogates	**REC (%)**	**Limits**		
Dibromofluoromethane	86	73-131		05/12/2015 14:14
Toluene-d8	88	72-117		05/12/2015 14:14
4-BFB	88	74-116		05/12/2015 14:14

Analyst(s): KBO

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Analytical Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505216
Project:	#14-003-01; 106-110 Hegenberger	**Extraction Method:**	E200.8
Date Received:	5/6/15 19:11	**Analytical Method:**	E200.8
Date Prepared:	5/6/15	**Unit:**	µg/L

LUFT 5 Metals

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-1	**1505216-001B**	**Water**	**05/05/2015 10:25**	**ICP-MS1**	**104527**

Analytes	Result	RL	DF	Date Analyzed
Cadmium	ND	0.25	1	05/07/2015 15:49
Chromium	ND	0.50	1	05/07/2015 15:49
Lead	ND	0.50	1	05/07/2015 15:49
Nickel	**3.9**	0.50	1	05/07/2015 15:49
Zinc	ND	15	1	05/07/2015 15:49

Surrogates	REC (%)	Limits	
Terbium	105	70-130	05/07/2015 15:49

Analyst(s): DVH

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-2	**1505216-002B**	**Water**	**05/05/2015 11:15**	**ICP-MS2**	**104527**

Analytes	Result	RL	DF	Date Analyzed
Cadmium	ND	0.25	1	05/08/2015 17:06
Chromium	ND	0.50	1	05/08/2015 17:06
Lead	ND	0.50	1	05/08/2015 17:06
Nickel	**5.2**	0.50	1	05/08/2015 17:06
Zinc	ND	15	1	05/08/2015 17:06

Surrogates	REC (%)	Limits	
Terbium	100	70-130	05/08/2015 17:06

Analyst(s): DVH

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-3	**1505216-003B**	**Water**	**05/05/2015 16:04**	**ICP-MS2**	**104527**

Analytes	Result	RL	DF	Date Analyzed
Cadmium	ND	0.25	1	05/08/2015 17:12
Chromium	**0.70**	0.50	1	05/08/2015 17:12
Lead	**0.53**	0.50	1	05/08/2015 17:12
Nickel	**30**	0.50	1	05/08/2015 17:12
Zinc	ND	15	1	05/08/2015 17:12

Surrogates	REC (%)	Limits	
Terbium	101	70-130	05/08/2015 17:12

Analyst(s): DVH

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Analytical Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505216
Project:	#14-003-01; 106-110 Hegenberger	**Extraction Method:**	E200.8
Date Received:	5/6/15 19:11	**Analytical Method:**	E200.8
Date Prepared:	5/6/15	**Unit:**	µg/L

LUFT 5 Metals

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-4	**1505216-004B**	**Water**	**05/05/2015 13:39**	**ICP-MS2**	**104527**

Analytes	Result	RL	DF	Date Analyzed
Cadmium	ND	0.25	1	05/08/2015 17:19
Chromium	ND	0.50	1	05/08/2015 17:19
Lead	ND	0.50	1	05/08/2015 17:19
Nickel	**2.3**	0.50	1	05/08/2015 17:19
Zinc	ND	15	1	05/08/2015 17:19

Surrogates	REC (%)	Limits	
Terbium	97	70-130	05/08/2015 17:19

Analyst(s): DVH

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-4 Shallow	**1505216-005B**	**Water**	**05/05/2015 12:45**	**ICP-MS1**	**104527**

Analytes	Result	RL	DF	Date Analyzed
Cadmium	ND	0.25	1	05/07/2015 15:55
Chromium	**0.83**	0.50	1	05/07/2015 15:55
Lead	**1.5**	0.50	1	05/07/2015 15:55
Nickel	**1.3**	0.50	1	05/07/2015 15:55
Zinc	ND	15	1	05/07/2015 15:55

Surrogates	REC (%)	Limits	
Terbium	100	70-130	05/07/2015 15:55

Analyst(s): DVH

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-5	**1505216-006B**	**Water**	**05/05/2015 15:19**	**ICP-MS1**	**104527**

Analytes	Result	RL	DF	Date Analyzed
Cadmium	ND	0.25	1	05/07/2015 16:02
Chromium	ND	0.50	1	05/07/2015 16:02
Lead	ND	0.50	1	05/07/2015 16:02
Nickel	**1.8**	0.50	1	05/07/2015 16:02
Zinc	ND	15	1	05/07/2015 16:02

Surrogates	REC (%)	Limits	
Terbium	101	70-130	05/07/2015 16:02

Analyst(s): DVH

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Analytical Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505216
Project:	#14-003-01; 106-110 Hegenberger	**Extraction Method:**	E200.8
Date Received:	5/6/15 19:11	**Analytical Method:**	E200.8
Date Prepared:	5/6/15	**Unit:**	µg/L

LUFT 5 Metals

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-6	**1505216-007B**	**Water**	**05/05/2015 15:41**	**ICP-MS2**	**104527**

Analytes	Result	RL	DF	Date Analyzed
Cadmium	ND	0.25	1	05/08/2015 17:25
Chromium	ND	0.50	1	05/08/2015 17:25
Lead	ND	0.50	1	05/08/2015 17:25
Nickel	**5.3**	0.50	1	05/08/2015 17:25
Zinc	ND	15	1	05/08/2015 17:25

Surrogates	REC (%)	Limits	
Terbium	99	70-130	05/08/2015 17:25

Analyst(s): DVH

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Analytical Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505216
Project:	#14-003-01; 106-110 Hegenberger	**Extraction Method:**	SW3510C/3630C
Date Received:	5/6/15 19:11	**Analytical Method:**	SW8015B
Date Prepared:	5/6/15	**Unit:**	µg/L

Total Extractable Petroleum Hydrocarbons w/ SG Clean-Up

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-1	**1505216-001A**	**Water**	**05/05/2015 10:25**	**GC11B**	**104490**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	50	1	05/07/2015 14:17
TPH-Motor Oil (C18-C36)	ND	250	1	05/07/2015 14:17

Surrogates	REC (%)	Limits	
C9	108	70-130	05/07/2015 14:17

Analyst(s): TK

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-2	**1505216-002A**	**Water**	**05/05/2015 11:15**	**GC11B**	**104490**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**330**	50	1	05/07/2015 16:03
TPH-Motor Oil (C18-C36)	ND	250	1	05/07/2015 16:03

Surrogates	REC (%)	Limits	
C9	110	70-130	05/07/2015 16:03

Analyst(s): TK Analytical Comments: e4,e2

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-3	**1505216-003A**	**Water**	**05/05/2015 16:04**	**GC11B**	**104490**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**510**	50	1	05/07/2015 17:11
TPH-Motor Oil (C18-C36)	ND	250	1	05/07/2015 17:11

Surrogates	REC (%)	Limits	
C9	107	70-130	05/07/2015 17:11

Analyst(s): TK Analytical Comments: e4,e2

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Analytical Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505216
Project:	#14-003-01; 106-110 Hegenberger	**Extraction Method:**	SW3510C/3630C
Date Received:	5/6/15 19:11	**Analytical Method:**	SW8015B
Date Prepared:	5/6/15	**Unit:**	µg/L

Total Extractable Petroleum Hydrocarbons w/ SG Clean-Up

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-4	**1505216-004A**	**Water**	**05/05/2015 13:39**	**GC2A**	**104490**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	50	1	05/08/2015 01:57
TPH-Motor Oil (C18-C36)	ND	250	1	05/08/2015 01:57

Surrogates	REC (%)	Limits	
C9	114	70-130	05/08/2015 01:57

Analyst(s): TK

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-4 Shallow	**1505216-005A**	**Water**	**05/05/2015 12:45**	**GC2A**	**104490**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**200**	50	1	05/08/2015 05:42
TPH-Motor Oil (C18-C36)	**1200**	250	1	05/08/2015 05:42

Surrogates	REC (%)	Limits	
C9	117	70-130	05/08/2015 05:42

Analyst(s): TK Analytical Comments: e7,e2

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-5	**1505216-006A**	**Water**	**05/05/2015 15:19**	**GC2A**	**104490**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	50	1	05/08/2015 03:13
TPH-Motor Oil (C18-C36)	ND	250	1	05/08/2015 03:13

Surrogates	REC (%)	Limits	
C9	112	70-130	05/08/2015 03:13

Analyst(s): TK

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Analytical Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505216
Project:	#14-003-01; 106-110 Hegenberger	**Extraction Method:**	SW3510C/3630C
Date Received:	5/6/15 19:11	**Analytical Method:**	SW8015B
Date Prepared:	5/6/15	**Unit:**	µg/L

Total Extractable Petroleum Hydrocarbons w/ SG Clean-Up

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-6	**1505216-007A**	**Water**	**05/05/2015 15:41**	**GC2A**	**104490**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	50	1	05/08/2015 04:28
TPH-Motor Oil (C18-C36)	ND	250	1	05/08/2015 04:28

Surrogates	REC (%)	Limits	
C9	117	70-130	05/08/2015 04:28

Analyst(s): TK

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Quality Control Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505216
Date Prepared:	5/8/15	**BatchID:**	104618
Date Analyzed:	5/7/15	**Extraction Method:**	SW5030B
Instrument:	GC16	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	#14-003-01; 106-110 Hegenberger	**Sample ID:**	MB/LCS-104618

QC Summary Report for TPH(g)

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
VOC (C6-C12)	ND	508	50	644	-	79	75-105
Surrogate Recovery							
Dibromofluoromethane	24.4	24.7		25	98	99	70-130

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Quality Control Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505216
Date Prepared:	5/12/15	**BatchID:**	104739
Date Analyzed:	5/12/15	**Extraction Method:**	SW5030B
Instrument:	GC16	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	#14-003-01; 106-110 Hegenberger	**Sample ID:**	MB/LCS-104739

QC Summary Report for TPH(g)

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
VOC (C6-C12)	ND	490	50	644	-	76	75-105
Surrogate Recovery							
Dibromofluoromethane	24.4	24.6		25	97	98	70-130

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Quality Control Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505216
Date Prepared:	5/8/15	**BatchID:**	104618
Date Analyzed:	5/7/15 - 5/8/15	**Extraction Method:**	SW5030B
Instrument:	GC16	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	#14-003-01; 106-110 Hegenberger	**Sample ID:**	MB/LCS-104618 1505216-001CMS/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	8.21	0.50	10	-	82	54-140
Benzene	ND	8.23	0.50	10	-	82	47-158
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	27.1	2.0	40	-	68	42-140
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	8.68	0.50	10	-	87	43-157
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	8.09	0.50	10	-	81	44-155
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	7.96	0.50	10	-	80	66-125
1,1-Dichloroethene	ND	7.88	0.50	10	-	79	47-149
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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Quality Control Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505216
Date Prepared:	5/8/15	**BatchID:**	104618
Date Analyzed:	5/7/15 - 5/8/15	**Extraction Method:**	SW5030B
Instrument:	GC16	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	#14-003-01; 106-110 Hegenberger	**Sample ID:**	MB/LCS-104618 1505216-001CMS/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	8.43	0.50	10	-	84	57-136
Ethylbenzene	ND	-	0.50	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	8.46	0.50	10	-	85	55-137
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	7.67	0.50	10	-	77	53-139
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	8.75	0.50	10	-	87	52-137
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	8.30	0.50	10	-	83	43-157
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	21.3	21.7		25	85	87	65-135
Toluene-d8	21.8	21.8		25	87	87	64-127
4-BFB	2.18	2.17		2.5	87	87	59-139

(Cont.)

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Quality Control Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505216
Date Prepared:	5/8/15	**BatchID:**	104618
Date Analyzed:	5/7/15 - 5/8/15	**Extraction Method:**	SW5030B
Instrument:	GC16	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	#14-003-01; 106-110 Hegenberger	**Sample ID:**	MB/LCS-104618 1505216-001CMS/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)	8.78	9.12	10	ND	88	91	69-139	3.78	20
Benzene	8.78	9.04	10	ND	88	90	69-141	2.92	20
t-Butyl alcohol (TBA)	28.0	29.1	40	4.9	58	60	41-152	3.58	20
Chlorobenzene	9.23	9.47	10	ND	92	95	77-120	2.66	20
1,2-Dibromoethane (EDB)	8.44	8.66	10	ND	84	87	76-135	2.53	20
1,2-Dichloroethane (1,2-DCA)	8.48	8.82	10	ND	85	88	73-139	3.93	20
1,1-Dichloroethene	8.51	8.70	10	ND	85	87	59-140	2.20	20
Diisopropyl ether (DIPE)	9.02	9.35	10	ND	90	94	72-140	3.59	20
Ethyl tert-butyl ether (ETBE)	8.95	9.29	10	ND	90	93	71-140	3.73	20
Methyl-t-butyl ether (MTBE)	8.21	8.59	10	0.5012	77	81	73-139	4.48	20
Toluene	9.30	9.42	10	ND	93	94	71-128	1.25	20
Trichloroethene	8.79	9.07	10	ND	88	91	64-132	3.10	20
Surrogate Recovery									
Dibromofluoromethane	22.0	21.8	25		88	87	73-131	0.619	0
Toluene-d8	21.9	21.5	25		88	86	72-117	1.78	0
4-BFB	2.16	2.29	2.5		87	92	74-116	5.57	0

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Quality Control Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505216
Date Prepared:	5/12/15	**BatchID:**	104739
Date Analyzed:	5/12/15	**Extraction Method:**	SW5030B
Instrument:	GC16	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	#14-003-01; 106-110 Hegenberger	**Sample ID:**	MB/LCS-104739 1505259-003CMS/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	8.72	0.50	10	-	87	54-140
Benzene	ND	8.76	0.50	10	-	88	47-158
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	27.5	2.0	40	-	69	42-140
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	9.48	0.50	10	-	95	43-157
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	8.59	0.50	10	-	86	44-155
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	8.44	0.50	10	-	84	66-125
1,1-Dichloroethene	ND	8.49	0.50	10	-	85	47-149
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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Quality Control Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505216
Date Prepared:	5/12/15	**BatchID:**	104739
Date Analyzed:	5/12/15	**Extraction Method:**	SW5030B
Instrument:	GC16	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	#14-003-01; 106-110 Hegenberger	**Sample ID:**	MB/LCS-104739 1505259-003CMS/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	8.94	0.50	10	-	89	57-136
Ethylbenzene	ND	-	0.50	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	8.92	0.50	10	-	89	55-137
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	8.20	0.50	10	-	82	53-139
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	9.39	0.50	10	-	94	52-137
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	8.90	0.50	10	-	89	43-157
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	21.5	21.5		25	86	86	65-135
Toluene-d8	21.5	21.7		25	86	87	64-127
4-BFB	2.12	2.15		2.5	85	86	59-139

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Quality Control Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505216
Date Prepared:	5/12/15	**BatchID:**	104739
Date Analyzed:	5/12/15	**Extraction Method:**	SW5030B
Instrument:	GC16	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	#14-003-01; 106-110 Hegenberger	**Sample ID:**	MB/LCS-104739 1505259-003CMS/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)	10.6	10.2	10	ND	106	102	69-139	4.32	20
Benzene	10.3	9.67	10	ND	103	96	69-141	6.45	20
t-Butyl alcohol (TBA)	35.4	34.4	40	2.5	82	80	41-152	3.10	20
Chlorobenzene	10.7	10.0	10	ND	107	100	77-120	7.08	20
1,2-Dibromoethane (EDB)	10.2	9.85	10	ND	102	98	76-135	3.40	20
1,2-Dichloroethane (1,2-DCA)	10.2	9.73	10	ND	102	97	73-139	4.20	20
1,1-Dichloroethene	9.86	9.10	10	ND	99	91	59-140	8.11	20
Diisopropyl ether (DIPE)	10.7	10.0	10	ND	107	101	72-140	6.14	20
Ethyl tert-butyl ether (ETBE)	10.7	10.2	10	ND	107	103	71-140	4.36	20
Methyl-t-butyl ether (MTBE)	9.96	9.69	10	ND	100	97	73-139	2.75	20
Toluene	10.6	9.88	10	ND	106	99	71-128	7.04	20
Trichloroethene	10.6	9.77	10	ND	106	98	64-132	8.48	20
Surrogate Recovery									
Dibromofluoromethane	21.8	22.0	25		87	88	73-131	0.792	20
Toluene-d8	21.2	21.1	25		85	84	72-117	0.632	20
4-BFB	2.18	2.10	2.5		87	84	74-116	3.84	20

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Quality Control Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505216
Date Prepared:	5/6/15	**BatchID:**	104527
Date Analyzed:	5/7/15	**Extraction Method:**	E200.8
Instrument:	ICP-MS2	**Analytical Method:**	E200.8
Matrix:	Water	**Unit:**	µg/L
Project:	#14-003-01; 106-110 Hegenberger	**Sample ID:**	MB/LCS-104527 1505193-001BMS/MSD

QC Summary Report for Metals

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Cadmium	ND	48.7	0.25	50	-	97	85-115
Chromium	ND	49.0	0.50	50	-	98	85-115
Lead	ND	49.9	0.50	50	-	100	85-115
Nickel	ND	50.6	0.50	50	-	101	85-115
Zinc	ND	505	15	500	-	100	85-115
Surrogate Recovery							
Terbium	722	723		750	96	96	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Cadmium	48.5	49.7	50	ND	97	99	70-130	2.46	20
Chromium	50.3	50.1	50	ND	100	100	70-130	0	20
Lead	51.2	52.0	50	0.50	101	103	70-130	1.47	20
Nickel	51.9	52.4	50	3.0	98	99	70-130	0.939	20
Zinc	540	548	500	47	98	100	70-130	1.58	20
Surrogate Recovery									
Terbium	730	759	750		97	101	70-130	3.87	20

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Quality Control Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505216
Date Prepared:	5/5/15	**BatchID:**	104490
Date Analyzed:	5/6/15	**Extraction Method:**	SW3510C/3630C
Instrument:	GC2A	**Analytical Method:**	SW8015B
Matrix:	Water	**Unit:**	µg/L
Project:	#14-003-01; 106-110 Hegenberger	**Sample ID:**	MB/LCS-104490

QC Report for SW8015B w/ SG Clean-Up

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	795	50	1000	-	80	59-151
TPH-Motor Oil (C18-C36)	ND	-	250	-	-	-	-
Surrogate Recovery							
C9	708	707		625	113	113	77-130

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CHAIN-OF-CUSTODY RECORD

WorkOrder: 1505216 **ClientCode: ERAS**

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

Report to:
Andrew Savage
ERAS Environmental, Inc.
1533 B Street
Hayward, CA 94541
(510) 247-9885 FAX: (510) 886-5399

Email: info@eras.biz; andrew@eras.biz
cc/3rd Party:
PO:
ProjectNo: #14-003-01; 106-110 Hegenberger

Bill to:
Kasey Cordoza
ERAS Environmental, Inc.
1533 B Street
Hayward, CA 94541

Requested TAT: 5 days

Date Received: **05/06/2015**
Date Printed: **05/14/2015**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1505216-001	B-1	Water	5/5/2015 10:25	☐	C	C	B	A								
1505216-002	B-2	Water	5/5/2015 11:15	☐	C	C	B	A								
1505216-003	B-3	Water	5/5/2015 16:04	☐	C	C	B	A								
1505216-004	B-4	Water	5/5/2015 13:39	☐	C	C	B	A								
1505216-005	B-4 Shallow	Water	5/5/2015 12:45	☐	C	C	B	A								
1505216-006	B-5	Water	5/5/2015 15:19	☐	C	C	B	A								
1505216-007	B-6	Water	5/5/2015 15:41	☐	C	C	B	A								

Test Legend:

1	8260GAS_W	2	8260VOC_W	3	LUFTMS_W	4	TPH(DMO)WSG_W	5	
6		7		8		9		10	
11		12							

The following SampIDs: 001C, 002C, 003C, 004C, 005C, 006C, 007C contain testgroup.

Prepared by: Jena Alfaro

Comments: 1505216-005A and -005C were re-analyzed with different VOAs to confirm.

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

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WORK ORDER SUMMARY

Client Name: ERAS ENVIRONMENTAL, INC. **QC Level:** LEVEL 2 **Work Order:** 1505216

Project: #14-003-01; 106-110 Hegenberger **Client Contact:** Andrew Savage **Date Received:** 5/6/2015

Comments: 1505216-005A and -005C were re-analyzed with different VOAs to confirm. **Contact's Email:** info@eras.biz; andrew@eras.biz

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1505216-001A	B-1	Water	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	2	1LA	☐	5/5/2015 10:25	5 days	Present	☐	
1505216-001B	B-1	Water	E200.8 (LUFT)	2	250mL HDPE w/ HNO3	☐	5/5/2015 10:25	5 days	Present	☐	
1505216-001C	B-1	Water	TPH(g) & 8260 (Basic List) by P&T GCMS	6	VOA w/ HCl	☐	5/5/2015 10:25	5 days	Present	☐	
1505216-002A	B-2	Water	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	2	1LA	☐	5/5/2015 11:15	5 days	Present	☐	
1505216-002B	B-2	Water	E200.8 (LUFT)	2	250mL HDPE w/ HNO3	☐	5/5/2015 11:15	5 days	Present	☐	
1505216-002C	B-2	Water	TPH(g) & 8260 (Basic List) by P&T GCMS	6	VOA w/ HCl	☐	5/5/2015 11:15	5 days	Present	☐	
1505216-003A	B-3	Water	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	2	1LA	☐	5/5/2015 16:04	5 days	Present	☐	
1505216-003B	B-3	Water	E200.8 (LUFT)	1	250mL HDPE w/ HNO3	☐	5/5/2015 16:04	5 days	Present	☐	
1505216-003C	B-3	Water	TPH(g) & 8260 (Basic List) by P&T GCMS	6	VOA w/ HCl	☐	5/5/2015 16:04	5 days	Present	☐	
1505216-004A	B-4	Water	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	2	1LA	☐	5/5/2015 13:39	5 days	Present	☐	
1505216-004B	B-4	Water	E200.8 (LUFT)	2	250mL HDPE w/ HNO3	☐	5/5/2015 13:39	5 days	Present	☐	
1505216-004C	B-4	Water	TPH(g) & 8260 (Basic List) by P&T GCMS	6	VOA w/ HCl	☐	5/5/2015 13:39	5 days	Present	☐	
1505216-005A	B-4 Shallow	Water	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	2	1LA	☐	5/5/2015 12:45	5 days	Present	☐	
1505216-005B	B-4 Shallow	Water	E200.8 (LUFT)	2	250mL HDPE w/ HNO3	☐	5/5/2015 12:45	5 days	Present	☐	
1505216-005C	B-4 Shallow	Water	TPH(g) & 8260 (Basic List) by P&T GCMS	6	VOA w/ HCl	☐	5/5/2015 12:45	5 days	Present	☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

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

WORK ORDER SUMMARY

Client Name: ERAS ENVIRONMENTAL, INC. **QC Level:** LEVEL 2 **Work Order:** 1505216

Project: #14-003-01; 106-110 Hegenberger **Client Contact:** Andrew Savage **Date Received:** 5/6/2015

Comments: 1505216-005A and -005C were re-analyzed with different VOAs to confirm. **Contact's Email:** info@eras.biz; andrew@eras.biz

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1505216-006A	B-5	Water	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	2	1LA	☐	5/5/2015 15:19	5 days	Present	☐	
1505216-006B	B-5	Water	E200.8 (LUFT)	2	250mL HDPE w/ HNO3	☐	5/5/2015 15:19	5 days	Present	☐	
1505216-006C	B-5	Water	TPH(g) & 8260 (Basic List) by P&T GCMS	6	VOA w/ HCl	☐	5/5/2015 15:19	5 days	Present	☐	
1505216-007A	B-6	Water	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	2	1LA	☐	5/5/2015 15:41	5 days	Present	☐	
1505216-007B	B-6	Water	E200.8 (LUFT)	2	250mL HDPE w/ HNO3	☐	5/5/2015 15:41	5 days	Present	☐	
1505216-007C	B-6	Water	TPH(g) & 8260 (Basic List) by P&T GCMS	6	VOA w/ HCl	☐	5/5/2015 15:41	5 days	Present	☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

1505 214

Page 1 of 2

CHAIN OF CUSTODY FORM

McCampbell Analytical, Inc
1534 Willow Pass Rd.
Pittsburg, CA 94565
877.252.9262
925.252.9269 - fax

Turnaround Time:	Rush	24Hr	48 Hr	72 Hr	X 5 Day
Geotracker:	PDF	Excel	Write On (DW		

Report To: ERAS **Bill To:** ERAS
Company: ERAS Environmental, Inc.

Email: info@eras.biz
Telephone: 510-247-9885 **Fax:** 510-886-5399
Project # 14-003-01
Project location 106-110 Hegenberger
Sampler: Andrew Savage

Sample ID	Location/Field Point Name	Sampling Date	Sampling Time	# of Containers	Container Type	Matrix: Soil	Water	Waste		Preservative: HCL	H2SO4	HNO3	ICE	None
B-1		5/5/2015	10:25	2	1L		X							X
B-1		5/5/2015	10:25	2	Poly		X					X		
B-1		5/5/2015	10:25	6	VOA		X			X				
B-2		5/5/2015	11:15	2	1L		X							X
B-2		5/5/2015	11:15	2	Poly		X					X		
B-2		5/5/2015	11:15	6	VOA		X			X				
B-3		5/5/2015	16:04	2	1L		X							X
B-3		5/5/2015	16:04	1	Poly		X					X		
B-3		5/5/2015	16:04	6	VOA		X			X				
B-4		5/5/2015	13:39	2	1L		X							X
B-4		5/5/2015	13:39	2	Poly		X					X		
B-4		5/5/2015	13:39	6	VOA		X			X				

Analysis Requested

TPH as diesel and oil range organics by 8015 with silica gel	LUFT 5 Metals	TPH-gro, BTEX, MTBE, Napthalene by 8260	Other	Comments
X				
	X			
		X		
X				
	X			
		X		
X				
	X			
		X		
X				
	X			
		X		

RELINQUISHED BY: **RECEIVED BY:**

Relinquished by:		Date: 5/6/15	Time: 12p	Recieved by:	
Relinquished by:		Date: 5/6	Time: 1705	Recieved by:	
Relinquished by:		Date:	Time:	Recieved by:	

ICE/t° 2.0
Condition
Head space absent
Dechlorinated in lab
Appropriate containers
Preserved in Lab

Preservation	VOA's	O&G	Metals	Other
			pH<2	

Comments: Please PDF

CHAIN OF CUSTODY FORM

McCampbell Analytical, Inc
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Pittsburg, CA 94565
877.252.9262
925.252.9269 - fax

Turnaround Time: Rush | 24Hr | 48 Hr | 72 Hr | X 5 Day

Geotracker: PDF | Excel | Write On (DW

Report To: ERAS **Bill To:** ERAS
Company: ERAS Environmental, Inc.

Email: info@eras.biz
Telephone: 510-247-9885 **Fax:** 510-886-5399
Project # 14-003-01
Project location 106-110 Hegenberger
Sampler: Andrew Savage

Sample ID	Location/Field Point Name	Sampling Date	Sampling Time	# of Containers	Container Type	Matrix: Soil	Matrix: Water	Matrix: Waste	Matrix:	Preservative: HCL	Preservative: H2SO4	Preservative: HNO3	Preservative: ICE	Preservative: None
B-4 Shallow		5/5/2015	12:45	2	1L		X							X
B-4 Shallow		5/5/2015	12:45	2	Poly		X					X		
B-4 Shallow		5/5/2015	12:45	6	VOA		X			X				
B-5		5/5/2015	15:19	2	1L		X							X
B-5		5/5/2015	15:19	2	Poly		X					X		
B-5		5/5/2015	15:19	6	VOA		X			X				
B-6		5/5/2015	15:41	2	1L		X							X
B-6		5/5/2015	15:41	2	Poly		X					X		
B-6		5/5/2015	15:41	6	VOA		X			X				

Analysis Requested: TPH as diesel and oil range organics by 8015 with silica gel	LUFT 5 Metals	TPH-gro, BTEX, MTBE, Napthalene by 8260	Other	Comments
X				
	X			
		X		
X				
	X			
		X		
X				
	X			
		X		

RELINQUISHED BY: **RECEIVED BY:**

Relinquished by:	Date:	Time:	Recieved By:
Relinquished by:	Date:	Time:	Recieved by:
Relinquished by:	Date:	Time:	Recieved by:

ICE/t° Condition	
Head space absent	
Dechlorinated in lab	
Appropriate containers	
Preserved in Lab	
Preservation	VOA's O&G Metals Other pH<2

Comments: Please PDF

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Sample Receipt Checklist

Client Name: **ERAS Environmental, Inc.** Date and Time Received: **5/6/2015 7:11:47 PM**

Project Name: **#14-003-01; 106-110 Hegenberger** LogIn Reviewed by: Jena Alfaro

WorkOrder №: **1505216** Matrix: Water Carrier: Benjamin Yslas (MAI Courier)

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐
Chain of custody signed when relinquished and received?	Yes ☑	No ☐
Chain of custody agrees with sample labels?	Yes ☑	No ☐
Sample IDs noted by Client on COC?	Yes ☑	No ☐
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐
Sampler's name noted on COC?	Yes ☑	No ☐

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Sample/Temp Blank temperature	Temp: 2°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☑	No ☐	NA ☐
Sample labels checked for correct preservation?	Yes ☑	No ☐	
pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes ☐	No ☑	NA ☐
Samples Received on Ice?	Yes ☑	No ☐	
	(Ice Type: WET ICE)		

UCMR3 Samples:

Total Chlorine tested and acceptable upon receipt for EPA 522?	Yes ☐	No ☐	NA ☑
Free Chlorine tested and acceptable upon receipt for EPA 218.7, 300.1, 537, 539?	Yes ☐	No ☐	NA ☑

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

Comments: pH adjusted in Lab.

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"When Quality Counts"

Analytical Report

WorkOrder: 1505259

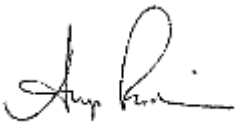
Report Created for: ERAS Environmental, Inc.

1533 B Street
Hayward, CA 94541

Project Contact: Andrew Savage
Project P.O.:
Project Name: #14-003-01; 106-110 Hegenberger

Project Received: 05/07/2015

Analytical Report reviewed & approved for release on 05/14/2015 by:



Angela Rydelius,
Laboratory Manager

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Glossary of Terms & Qualifier Definitions

Client: ERAS Environmental, Inc.
Project: #14-003-01; 106-110 Hegenberger
WorkOrder: 1505259

Glossary Abbreviation

95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DUP	Duplicate
EDL	Estimated Detection Limit
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
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PF	Prep Factor
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
SPLP	Synthetic Precipitation Leachate Procedure
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

Analytical Qualifiers

a1	sample diluted due to matrix interference
c9	Internal standard is out of acceptance criteria due to matrix interference therefore values are estimated
e2	diesel range compounds are significant; no recognizable pattern
e3	aged diesel is significant
e4	gasoline range compounds are significant.
e7	oil range compounds are significant

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Glossary of Terms & Qualifier Definitions

Client: ERAS Environmental, Inc.
Project: #14-003-01; 106-110 Hegenberger
WorkOrder: 1505259

Quality Control Qualifiers

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

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Analytical Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505259
Project:	#14-003-01; 106-110 Hegenberger	**Extraction Method:**	SW5030B
Date Received:	5/7/15 17:06	**Analytical Method:**	SW8260B
Date Prepared:	5/12/15	**Unit:**	µg/L

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

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-7	**1505259-001C**	**Water**	**05/06/2015 09:00**	**GC16**	**104739**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**13,000**	500	10	05/12/2015 14:56

Surrogates	REC (%)	Limits	
Dibromofluoromethane	103	70-130	05/12/2015 14:56

Analyst(s): KF

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-8-Shallow	**1505259-002C**	**Water**	**05/06/2015 09:54**	**GC16**	**104739**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**860**	50	1	05/12/2015 15:38

Surrogates	REC (%)	Limits	
Dibromofluoromethane	100	70-130	05/12/2015 15:38

Analyst(s): KF

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-8	**1505259-003C**	**Water**	**05/06/2015 10:51**	**GC16**	**104739**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	50	1	05/12/2015 16:21

Surrogates	REC (%)	Limits	
Dibromofluoromethane	98	70-130	05/12/2015 16:21

Analyst(s): KF

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-9-Shallow	**1505259-004C**	**Water**	**05/06/2015 11:32**	**GC16**	**104739**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**260**	50	1	05/12/2015 17:03

Surrogates	REC (%)	Limits	
Dibromofluoromethane	98	70-130	05/12/2015 17:03

Analyst(s): KF

(Cont.)

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Analytical Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505259
Project:	#14-003-01; 106-110 Hegenberger	**Extraction Method:**	SW5030B
Date Received:	5/7/15 17:06	**Analytical Method:**	SW8260B
Date Prepared:	5/12/15	**Unit:**	µg/L

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

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-9	**1505259-005C**	**Water**	**05/06/2015 12:08**	**GC16**	**104739**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	50	1	05/12/2015 17:46
Surrogates	**REC (%)**	**Limits**		
Dibromofluoromethane	98	70-130		05/12/2015 17:46

Analyst(s): KF

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Analytical Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505259
Project:	#14-003-01; 106-110 Hegenberger	**Extraction Method:**	SW5030B
Date Received:	5/7/15 17:06	**Analytical Method:**	SW8260B
Date Prepared:	5/12/15-5/13/15	**Unit:**	µg/L

Volatile Organics by P&T and GC/MS

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-7	**1505259-001C**	**Water**	**05/06/2015 09:00**	**GC16**	**104739**

Analytes	Result	RL	DF	Date Analyzed
Benzene	**3900**	50	100	05/13/2015 03:47
Ethylbenzene	**2000**	50	100	05/13/2015 03:47
Methyl-t-butyl ether (MTBE)	ND	50	100	05/13/2015 03:47
Naphthalene	**240**	50	100	05/13/2015 03:47
Toluene	**69**	50	100	05/13/2015 03:47
Xylenes, Total	ND	50	100	05/13/2015 03:47

Surrogates	REC (%)	Limits	
Dibromofluoromethane	86	73-131	05/13/2015 03:47
Toluene-d8	87	72-117	05/13/2015 03:47
4-BFB	93	74-116	05/13/2015 03:47

Analyst(s): KF

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-8-Shallow	**1505259-002C**	**Water**	**05/06/2015 09:54**	**GC16**	**104739**

Analytes	Result	RL	DF	Date Analyzed
Benzene	**0.60**	0.50	1	05/13/2015 04:29
Ethylbenzene	ND	0.50	1	05/13/2015 04:29
Methyl-t-butyl ether (MTBE)	ND	0.50	1	05/13/2015 04:29
Naphthalene	ND	0.50	1	05/13/2015 04:29
Toluene	ND	0.50	1	05/13/2015 04:29
Xylenes, Total	**0.91**	0.50	1	05/13/2015 04:29

Surrogates	REC (%)	Limits	
Dibromofluoromethane	87	73-131	05/13/2015 04:29
Toluene-d8	86	72-117	05/13/2015 04:29
4-BFB	88	74-116	05/13/2015 04:29

Analyst(s): KF

(Cont.)

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Analytical Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505259
Project:	#14-003-01; 106-110 Hegenberger	**Extraction Method:**	SW5030B
Date Received:	5/7/15 17:06	**Analytical Method:**	SW8260B
Date Prepared:	5/12/15-5/13/15	**Unit:**	µg/L

Volatile Organics by P&T and GC/MS

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-8	**1505259-003C**	**Water**	**05/06/2015 10:51**	**GC16**	**104739**

Analytes	Result	RL	DF	Date Analyzed
Benzene	ND	0.50	1	05/12/2015 16:21
Ethylbenzene	ND	0.50	1	05/12/2015 16:21
Methyl-t-butyl ether (MTBE)	ND	0.50	1	05/12/2015 16:21
Naphthalene	ND	0.50	1	05/12/2015 16:21
Toluene	ND	0.50	1	05/12/2015 16:21
Xylenes, Total	ND	0.50	1	05/12/2015 16:21

Surrogates	REC (%)	Limits	
Dibromofluoromethane	86	73-131	05/12/2015 16:21
Toluene-d8	86	72-117	05/12/2015 16:21
4-BFB	86	74-116	05/12/2015 16:21

Analyst(s): KF

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-9-Shallow	**1505259-004C**	**Water**	**05/06/2015 11:32**	**GC16**	**104739**

Analytes	Result	RL	DF	Date Analyzed
Benzene	ND	0.50	1	05/12/2015 17:03
Ethylbenzene	ND	0.50	1	05/12/2015 17:03
Methyl-t-butyl ether (MTBE)	ND	0.50	1	05/12/2015 17:03
Naphthalene	ND	0.50	1	05/12/2015 17:03
Toluene	ND	0.50	1	05/12/2015 17:03
Xylenes, Total	ND	0.50	1	05/12/2015 17:03

Surrogates	REC (%)	Limits	
Dibromofluoromethane	87	73-131	05/12/2015 17:03
Toluene-d8	85	72-117	05/12/2015 17:03
4-BFB	85	74-116	05/12/2015 17:03

Analyst(s): KF

(Cont.)

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Analytical Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505259
Project:	#14-003-01; 106-110 Hegenberger	**Extraction Method:**	SW5030B
Date Received:	5/7/15 17:06	**Analytical Method:**	SW8260B
Date Prepared:	5/12/15-5/13/15	**Unit:**	µg/L

Volatile Organics by P&T and GC/MS

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-9	**1505259-005C**	**Water**	**05/06/2015 12:08**	**GC16**	**104739**

Analytes	Result	RL	DF	Date Analyzed
Benzene	ND	0.50	1	05/12/2015 17:46
Ethylbenzene	ND	0.50	1	05/12/2015 17:46
Methyl-t-butyl ether (MTBE)	ND	0.50	1	05/12/2015 17:46
Naphthalene	ND	0.50	1	05/12/2015 17:46
Toluene	ND	0.50	1	05/12/2015 17:46
Xylenes, Total	ND	0.50	1	05/12/2015 17:46
Surrogates	**REC (%)**	**Limits**		
Dibromofluoromethane	87	73-131		05/12/2015 17:46
Toluene-d8	85	72-117		05/12/2015 17:46
4-BFB	86	74-116		05/12/2015 17:46

Analyst(s): KF

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Analytical Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505259
Project:	#14-003-01; 106-110 Hegenberger	**Extraction Method:**	E200.8
Date Received:	5/7/15 17:06	**Analytical Method:**	E200.8
Date Prepared:	5/7/15	**Unit:**	µg/L

LUFT 5 Metals

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-7	**1505259-001B**	**Water**	**05/06/2015 09:00**	**ICP-MS1**	**104564**

Analytes	Result	RL	DF	Date Analyzed
Cadmium	ND	2.5	10	05/11/2015 19:26
Chromium	ND	5.0	10	05/11/2015 19:26
Lead	**12**	5.0	10	05/11/2015 19:26
Nickel	**21**	5.0	10	05/11/2015 19:26
Zinc	**210**	150	10	05/11/2015 19:26

Surrogates	REC (%)	Limits	
Terbium	111	70-130	05/11/2015 19:26

Analyst(s): DB Analytical Comments: a1

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-8-Shallow	**1505259-002B**	**Water**	**05/06/2015 09:54**	**ICP-MS2**	**104564**

Analytes	Result	RL	DF	Date Analyzed
Cadmium	ND	0.25	1	05/08/2015 20:49
Chromium	ND	0.50	1	05/08/2015 20:49
Lead	**1.3**	0.50	1	05/08/2015 20:49
Nickel	**3.9**	0.50	1	05/08/2015 20:49
Zinc	ND	15	1	05/08/2015 20:49

Surrogates	REC (%)	Limits	
Terbium	99	70-130	05/08/2015 20:49

Analyst(s): DB

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-8	**1505259-003B**	**Water**	**05/06/2015 10:51**	**ICP-MS2**	**104564**

Analytes	Result	RL	DF	Date Analyzed
Cadmium	**0.42**	0.25	1	05/08/2015 20:55
Chromium	ND	0.50	1	05/08/2015 20:55
Lead	ND	0.50	1	05/08/2015 20:55
Nickel	**88**	0.50	1	05/08/2015 20:55
Zinc	ND	15	1	05/08/2015 20:55

Surrogates	REC (%)	Limits	
Terbium	96	70-130	05/08/2015 20:55

Analyst(s): DB

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Analytical Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505259
Project:	#14-003-01; 106-110 Hegenberger	**Extraction Method:**	E200.8
Date Received:	5/7/15 17:06	**Analytical Method:**	E200.8
Date Prepared:	5/7/15	**Unit:**	µg/L

LUFT 5 Metals

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-9-Shallow	**1505259-004B**	**Water**	**05/06/2015 11:32**	**ICP-MS2**	**104564**

Analytes	Result	RL	DF	Date Analyzed
Cadmium	ND	0.25	1	05/08/2015 21:01
Chromium	ND	0.50	1	05/08/2015 21:01
Lead	ND	0.50	1	05/08/2015 21:01
Nickel	**2.5**	0.50	1	05/08/2015 21:01
Zinc	ND	15	1	05/08/2015 21:01

Surrogates	REC (%)	Limits	
Terbium	98	70-130	05/08/2015 21:01

Analyst(s): DB

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-9	**1505259-005B**	**Water**	**05/06/2015 12:08**	**ICP-MS2**	**104564**

Analytes	Result	RL	DF	Date Analyzed
Cadmium	**0.32**	0.25	1	05/08/2015 21:07
Chromium	**1.2**	0.50	1	05/08/2015 21:07
Lead	ND	0.50	1	05/08/2015 21:07
Nickel	**100**	0.50	1	05/08/2015 21:07
Zinc	ND	15	1	05/08/2015 21:07

Surrogates	REC (%)	Limits	
Terbium	97	70-130	05/08/2015 21:07

Analyst(s): DB

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Analytical Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505259
Project:	#14-003-01; 106-110 Hegenberger	**Extraction Method:**	SW3510C/3630C
Date Received:	5/7/15 17:06	**Analytical Method:**	SW8015B
Date Prepared:	5/7/15	**Unit:**	µg/L

Total Extractable Petroleum Hydrocarbons w/ SG Clean-Up

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-7	**1505259-001A**	**Water**	**05/06/2015 09:00**	**GC9a**	**104592**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**4600**	50	1	05/11/2015 18:23
TPH-Motor Oil (C18-C36)	**720**	250	1	05/11/2015 18:23

Surrogates	REC (%)	Limits	
C9	124	70-130	05/11/2015 18:23

Analyst(s): TK Analytical Comments: e4,e7,e2

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-8-Shallow	**1505259-002A**	**Water**	**05/06/2015 09:54**	**GC6B**	**104592**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**2000**	500	10	05/14/2015 12:17
TPH-Motor Oil (C18-C36)	**3600**	2500	10	05/14/2015 12:17

Surrogates	REC (%)	Limits	
C9	110	70-130	05/14/2015 12:17

Analyst(s): TK Analytical Comments: e7,e4,e2

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-8	**1505259-003A**	**Water**	**05/06/2015 10:51**	**GC6B**	**104592**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	50	1	05/10/2015 02:35
TPH-Motor Oil (C18-C36)	ND	250	1	05/10/2015 02:35

Surrogates	REC (%)	Limits	
C9	114	70-130	05/10/2015 02:35

Analyst(s): TK

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Analytical Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505259
Project:	#14-003-01; 106-110 Hegenberger	**Extraction Method:**	SW3510C/3630C
Date Received:	5/7/15 17:06	**Analytical Method:**	SW8015B
Date Prepared:	5/7/15	**Unit:**	µg/L

Total Extractable Petroleum Hydrocarbons w/ SG Clean-Up

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-9-Shallow	**1505259-004A**	**Water**	**05/06/2015 11:32**	**GC9a**	**104592**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**120**	50	1	05/11/2015 15:59
TPH-Motor Oil (C18-C36)	**260**	250	1	05/11/2015 15:59

Surrogates	REC (%)	Limits	
C9	110	70-130	05/11/2015 15:59

Analyst(s): TK Analytical Comments: e7,e2,e4

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-9	**1505259-005A**	**Water**	**05/06/2015 12:08**	**GC9a**	**104592**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	50	1	05/12/2015 07:28
TPH-Motor Oil (C18-C36)	ND	250	1	05/12/2015 07:28

Surrogates	REC (%)	Limits	
C9	121	70-130	05/12/2015 07:28

Analyst(s): TK

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Quality Control Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505259
Date Prepared:	5/12/15	**BatchID:**	104739
Date Analyzed:	5/12/15	**Extraction Method:**	SW5030B
Instrument:	GC16	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	#14-003-01; 106-110 Hegenberger	**Sample ID:**	MB/LCS-104739

QC Summary Report for TPH(g)

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
VOC (C6-C12)	ND	490	50	644	-	76	75-105
Surrogate Recovery							
Dibromofluoromethane	24.4	24.6		25	97	98	70-130

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Quality Control Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505259
Date Prepared:	5/7/15	**BatchID:**	104588
Date Analyzed:	5/7/15	**Extraction Method:**	SW5030B
Instrument:	GC16	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	#14-003-01; 106-110 Hegenberger	**Sample ID:**	MB/LCS-104588 1505255-001AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
VOC (C6-C12)	ND	2.91	0.25	3.2	-	91	74-142
Acetone	ND	-	0.10	-	-	-	-
tert-Amyl methyl ether (TAME)	ND	0.0406	0.0050	0.050	-	81	53-116
Benzene	ND	0.0454	0.0050	0.050	-	91	63-137
Bromobenzene	ND	-	0.0050	-	-	-	-
Bromochloromethane	ND	-	0.0050	-	-	-	-
Bromodichloromethane	ND	-	0.0050	-	-	-	-
Bromoform	ND	-	0.0050	-	-	-	-
Bromomethane	ND	-	0.0050	-	-	-	-
2-Butanone (MEK)	ND	-	0.020	-	-	-	-
t-Butyl alcohol (TBA)	ND	0.161	0.050	0.20	-	81	41-135
n-Butyl benzene	ND	-	0.0050	-	-	-	-
sec-Butyl benzene	ND	-	0.0050	-	-	-	-
tert-Butyl benzene	ND	-	0.0050	-	-	-	-
Carbon Disulfide	ND	-	0.0050	-	-	-	-
Carbon Tetrachloride	ND	-	0.0050	-	-	-	-
Chlorobenzene	ND	0.0488	0.0050	0.050	-	98	77-121
Chloroethane	ND	-	0.0050	-	-	-	-
Chloroform	ND	-	0.0050	-	-	-	-
Chloromethane	ND	-	0.0050	-	-	-	-
2-Chlorotoluene	ND	-	0.0050	-	-	-	-
4-Chlorotoluene	ND	-	0.0050	-	-	-	-
Dibromochloromethane	ND	-	0.0050	-	-	-	-
1,2-Dibromo-3-chloropropane	ND	-	0.0040	-	-	-	-
1,2-Dibromoethane (EDB)	ND	0.0433	0.0040	0.050	-	87	67-119
Dibromomethane	ND	-	0.0050	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,4-Dichlorobenzene	ND	-	0.0050	-	-	-	-
Dichlorodifluoromethane	ND	-	0.0050	-	-	-	-
1,1-Dichloroethane	ND	-	0.0050	-	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.0449	0.0040	0.050	-	90	58-135
1,1-Dichloroethene	ND	0.0434	0.0050	0.050	-	87	42-145
cis-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
trans-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
1,2-Dichloropropane	ND	-	0.0050	-	-	-	-
1,3-Dichloropropane	ND	-	0.0050	-	-	-	-
2,2-Dichloropropane	ND	-	0.0050	-	-	-	-
1,1-Dichloropropene	ND	-	0.0050	-	-	-	-
cis-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-

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Quality Control Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505259
Date Prepared:	5/7/15	**BatchID:**	104588
Date Analyzed:	5/7/15	**Extraction Method:**	SW5030B
Instrument:	GC16	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	#14-003-01; 106-110 Hegenberger	**Sample ID:**	MB/LCS-104588 1505255-001AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
trans-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-
Diisopropyl ether (DIPE)	ND	0.0438	0.0050	0.050	-	88	52-129
Ethylbenzene	ND	-	0.0050	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	0.0431	0.0050	0.050	-	86	53-125
Freon 113	ND	-	0.0050	-	-	-	-
Hexachlorobutadiene	ND	-	0.0050	-	-	-	-
Hexachloroethane	ND	-	0.0050	-	-	-	-
2-Hexanone	ND	-	0.0050	-	-	-	-
Isopropylbenzene	ND	-	0.0050	-	-	-	-
4-Isopropyl toluene	ND	-	0.0050	-	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.0412	0.0050	0.050	-	82	58-122
Methylene chloride	ND	-	0.0050	-	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	-	0.0050	-	-	-	-
Naphthalene	ND	-	0.0050	-	-	-	-
n-Propyl benzene	ND	-	0.0050	-	-	-	-
Styrene	ND	-	0.0050	-	-	-	-
1,1,1,2-Tetrachloroethane	ND	-	0.0050	-	-	-	-
1,1,2,2-Tetrachloroethane	ND	-	0.0050	-	-	-	-
Tetrachloroethene	ND	-	0.0050	-	-	-	-
Toluene	ND	0.0518	0.0050	0.050	-	104	76-130
1,2,3-Trichlorobenzene	ND	-	0.0050	-	-	-	-
1,2,4-Trichlorobenzene	ND	-	0.0050	-	-	-	-
1,1,1-Trichloroethane	ND	-	0.0050	-	-	-	-
1,1,2-Trichloroethane	ND	-	0.0050	-	-	-	-
Trichloroethene	ND	0.0467	0.0050	0.050	-	93	72-132
Trichlorofluoromethane	ND	-	0.0050	-	-	-	-
1,2,3-Trichloropropane	ND	-	0.0050	-	-	-	-
1,2,4-Trimethylbenzene	ND	-	0.0050	-	-	-	-
1,3,5-Trimethylbenzene	ND	-	0.0050	-	-	-	-
Vinyl Chloride	ND	-	0.0050	-	-	-	-
Xylenes, Total	ND	-	0.0050	-	-	-	-
Surrogate Recovery							
Dibromofluoromethane	0.103	0.104		0.12	82	83	72-126
Toluene-d8	0.119	0.118		0.12	95	94	81-115
4-BFB	0.0126	0.0118		0.012	101	95	55-127

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Quality Control Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505259
Date Prepared:	5/7/15	**BatchID:**	104588
Date Analyzed:	5/7/15	**Extraction Method:**	SW5030B
Instrument:	GC16	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	#14-003-01; 106-110 Hegenberger	**Sample ID:**	MB/LCS-104588 1505255-001AMS/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)	0.0343	0.0324	0.050	ND	69,F1	65,F1	70-130	5.91	20
Benzene	0.0401	0.0382	0.050	ND	80	76	70-130	5.01	20
t-Butyl alcohol (TBA)	0.162	0.156	0.20	ND	81	78	70-130	3.45	20
Chlorobenzene	0.0389	0.0368	0.050	ND	78	74	70-130	5.36	20
1,2-Dibromoethane (EDB)	0.0343	0.0322	0.050	ND	69,F1	64,F1	70-130	6.25	20
1,2-Dichloroethane (1,2-DCA)	0.0376	0.0359	0.050	ND	75	72	70-130	4.47	20
1,1-Dichloroethene	0.0358	0.0342	0.050	ND	72	68,F1	70-130	4.57	20
Diisopropyl ether (DIPE)	0.0380	0.0364	0.050	ND	76	73	70-130	4.29	20
Ethyl tert-butyl ether (ETBE)	0.0373	0.0357	0.050	ND	75	71	70-130	4.17	20
Methyl-t-butyl ether (MTBE)	0.0370	0.0353	0.050	ND	74	71	70-130	4.76	20
Toluene	0.0401	0.0380	0.050	ND	80	76	70-130	5.56	20
Trichloroethene	0.0385	0.0362	0.050	ND	77	72	70-130	6.19	20
Surrogate Recovery									
Dibromofluoromethane	0.114	0.115	0.12		91	92	70-130	1.24	20
Toluene-d8	0.120	0.119	0.12		96	95	70-130	0.388	20
4-BFB	0.0120	0.0116	0.012		96	93	70-130	3.16	20

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QA/QC Officer

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Quality Control Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505259
Date Prepared:	5/7/15	**BatchID:**	104595
Date Analyzed:	5/8/15	**Extraction Method:**	SW5030B
Instrument:	GC16	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	#14-003-01; 106-110 Hegenberger	**Sample ID:**	MB/LCS-104595 1505259-024AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
VOC (C6-C12)	ND	2.84	0.25	3.2	-	89	74-142
Acetone	ND	-	0.10	-	-	-	-
tert-Amyl methyl ether (TAME)	ND	0.0393	0.0050	0.050	-	79	53-116
Benzene	ND	0.0444	0.0050	0.050	-	89	63-137
Bromobenzene	ND	-	0.0050	-	-	-	-
Bromochloromethane	ND	-	0.0050	-	-	-	-
Bromodichloromethane	ND	-	0.0050	-	-	-	-
Bromoform	ND	-	0.0050	-	-	-	-
Bromomethane	ND	-	0.0050	-	-	-	-
2-Butanone (MEK)	ND	-	0.020	-	-	-	-
t-Butyl alcohol (TBA)	ND	0.162	0.050	0.20	-	81	41-135
n-Butyl benzene	ND	-	0.0050	-	-	-	-
sec-Butyl benzene	ND	-	0.0050	-	-	-	-
tert-Butyl benzene	ND	-	0.0050	-	-	-	-
Carbon Disulfide	ND	-	0.0050	-	-	-	-
Carbon Tetrachloride	ND	-	0.0050	-	-	-	-
Chlorobenzene	ND	0.0468	0.0050	0.050	-	94	77-121
Chloroethane	ND	-	0.0050	-	-	-	-
Chloroform	ND	-	0.0050	-	-	-	-
Chloromethane	ND	-	0.0050	-	-	-	-
2-Chlorotoluene	ND	-	0.0050	-	-	-	-
4-Chlorotoluene	ND	-	0.0050	-	-	-	-
Dibromochloromethane	ND	-	0.0050	-	-	-	-
1,2-Dibromo-3-chloropropane	ND	-	0.0040	-	-	-	-
1,2-Dibromoethane (EDB)	ND	0.0426	0.0040	0.050	-	85	67-119
Dibromomethane	ND	-	0.0050	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,4-Dichlorobenzene	ND	-	0.0050	-	-	-	-
Dichlorodifluoromethane	ND	-	0.0050	-	-	-	-
1,1-Dichloroethane	ND	-	0.0050	-	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.0434	0.0040	0.050	-	87	58-135
1,1-Dichloroethene	ND	0.0426	0.0050	0.050	-	85	42-145
cis-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
trans-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
1,2-Dichloropropane	ND	-	0.0050	-	-	-	-
1,3-Dichloropropane	ND	-	0.0050	-	-	-	-
2,2-Dichloropropane	ND	-	0.0050	-	-	-	-
1,1-Dichloropropene	ND	-	0.0050	-	-	-	-
cis-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-

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Quality Control Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505259
Date Prepared:	5/7/15	**BatchID:**	104595
Date Analyzed:	5/8/15	**Extraction Method:**	SW5030B
Instrument:	GC16	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	#14-003-01; 106-110 Hegenberger	**Sample ID:**	MB/LCS-104595 1505259-024AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
trans-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-
Diisopropyl ether (DIPE)	ND	0.0424	0.0050	0.050	-	85	52-129
Ethylbenzene	ND	-	0.0050	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	0.0423	0.0050	0.050	-	85	53-125
Freon 113	ND	-	0.0050	-	-	-	-
Hexachlorobutadiene	ND	-	0.0050	-	-	-	-
Hexachloroethane	ND	-	0.0050	-	-	-	-
2-Hexanone	ND	-	0.0050	-	-	-	-
Isopropylbenzene	ND	-	0.0050	-	-	-	-
4-Isopropyl toluene	ND	-	0.0050	-	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.0402	0.0050	0.050	-	80	58-122
Methylene chloride	ND	-	0.0050	-	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	-	0.0050	-	-	-	-
Naphthalene	ND	-	0.0050	-	-	-	-
n-Propyl benzene	ND	-	0.0050	-	-	-	-
Styrene	ND	-	0.0050	-	-	-	-
1,1,1,2-Tetrachloroethane	ND	-	0.0050	-	-	-	-
1,1,2,2-Tetrachloroethane	ND	-	0.0050	-	-	-	-
Tetrachloroethene	ND	-	0.0050	-	-	-	-
Toluene	ND	0.0506	0.0050	0.050	-	101	76-130
1,2,3-Trichlorobenzene	ND	-	0.0050	-	-	-	-
1,2,4-Trichlorobenzene	ND	-	0.0050	-	-	-	-
1,1,1-Trichloroethane	ND	-	0.0050	-	-	-	-
1,1,2-Trichloroethane	ND	-	0.0050	-	-	-	-
Trichloroethene	ND	0.0468	0.0050	0.050	-	94	72-132
Trichlorofluoromethane	ND	-	0.0050	-	-	-	-
1,2,3-Trichloropropane	ND	-	0.0050	-	-	-	-
1,2,4-Trimethylbenzene	ND	-	0.0050	-	-	-	-
1,3,5-Trimethylbenzene	ND	-	0.0050	-	-	-	-
Vinyl Chloride	ND	-	0.0050	-	-	-	-
Xylenes, Total	ND	-	0.0050	-	-	-	-
Surrogate Recovery							
Dibromofluoromethane	0.102	0.104		0.12	82	83	70-130
Toluene-d8	0.120	0.118		0.12	96	94	70-130
4-BFB	0.0122	0.0119		0.012	97	95	70-130

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Quality Control Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505259
Date Prepared:	5/7/15	**BatchID:**	104595
Date Analyzed:	5/8/15	**Extraction Method:**	SW5030B
Instrument:	GC16	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	#14-003-01; 106-110 Hegenberger	**Sample ID:**	MB/LCS-104595 1505259-024AMS/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)	0.0332	0.0324	0.050	ND	66,F1	65,F1	70-130	2.27	20
Benzene	0.0429	0.0413	0.050	ND	86	83	70-130	3.92	20
t-Butyl alcohol (TBA)	0.158	0.154	0.20	ND	79	77	70-130	2.07	20
Chlorobenzene	0.0409	0.0393	0.050	ND	82	79	70-130	3.99	20
1,2-Dibromoethane (EDB)	0.0338	0.0325	0.050	ND	68,F1	65,F1	70-130	3.85	20
1,2-Dichloroethane (1,2-DCA)	0.0383	0.0377	0.050	ND	77	75	70-130	1.62	20
1,1-Dichloroethene	0.0387	0.0376	0.050	ND	77	75	70-130	2.89	20
Diisopropyl ether (DIPE)	0.0407	0.0394	0.050	ND	81	79	70-130	3.10	20
Ethyl tert-butyl ether (ETBE)	0.0392	0.0380	0.050	ND	78	76	70-130	3.16	20
Methyl-t-butyl ether (MTBE)	0.0375	0.0364	0.050	ND	75	73	70-130	3.12	20
Toluene	0.0434	0.0407	0.050	ND	87	81	70-130	6.29	20
Trichloroethene	0.0600	0.0572	0.050	ND	120	115	70-130	4.75	20
Surrogate Recovery									
Dibromofluoromethane	0.111	0.114	0.12		89	91	70-130	2.79	20
Toluene-d8	0.120	0.118	0.12		96	94	70-130	2.08	20
4-BFB	0.0107	0.0113	0.012		86	90	70-130	4.92	20

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Quality Control Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505259
Date Prepared:	5/12/15	**BatchID:**	104739
Date Analyzed:	5/12/15	**Extraction Method:**	SW5030B
Instrument:	GC16	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	#14-003-01; 106-110 Hegenberger	**Sample ID:**	MB/LCS-104739 1505259-003CMS/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	8.72	0.50	10	-	87	54-140
Benzene	ND	8.76	0.50	10	-	88	47-158
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	27.5	2.0	40	-	69	42-140
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	9.48	0.50	10	-	95	43-157
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	8.59	0.50	10	-	86	44-155
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	8.44	0.50	10	-	84	66-125
1,1-Dichloroethene	ND	8.49	0.50	10	-	85	47-149
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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Quality Control Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505259
Date Prepared:	5/12/15	**BatchID:**	104739
Date Analyzed:	5/12/15	**Extraction Method:**	SW5030B
Instrument:	GC16	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	#14-003-01; 106-110 Hegenberger	**Sample ID:**	MB/LCS-104739 1505259-003CMS/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	8.94	0.50	10	-	89	57-136
Ethylbenzene	ND	-	0.50	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	8.92	0.50	10	-	89	55-137
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	8.20	0.50	10	-	82	53-139
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	9.39	0.50	10	-	94	52-137
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	8.90	0.50	10	-	89	43-157
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	21.5	21.5		25	86	86	65-135
Toluene-d8	21.5	21.7		25	86	87	64-127
4-BFB	2.12	2.15		2.5	85	86	59-139

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Quality Control Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505259
Date Prepared:	5/12/15	**BatchID:**	104739
Date Analyzed:	5/12/15	**Extraction Method:**	SW5030B
Instrument:	GC16	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	#14-003-01; 106-110 Hegenberger	**Sample ID:**	MB/LCS-104739 1505259-003CMS/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)	10.6	10.2	10	ND	106	102	69-139	4.32	20
Benzene	10.3	9.67	10	ND	103	96	69-141	6.45	20
t-Butyl alcohol (TBA)	35.4	34.4	40	2.5	82	80	41-152	3.10	20
Chlorobenzene	10.7	10.0	10	ND	107	100	77-120	7.08	20
1,2-Dibromoethane (EDB)	10.2	9.85	10	ND	102	98	76-135	3.40	20
1,2-Dichloroethane (1,2-DCA)	10.2	9.73	10	ND	102	97	73-139	4.20	20
1,1-Dichloroethene	9.86	9.10	10	ND	99	91	59-140	8.11	20
Diisopropyl ether (DIPE)	10.7	10.0	10	ND	107	101	72-140	6.14	20
Ethyl tert-butyl ether (ETBE)	10.7	10.2	10	ND	107	103	71-140	4.36	20
Methyl-t-butyl ether (MTBE)	9.96	9.69	10	ND	100	97	73-139	2.75	20
Toluene	10.6	9.88	10	ND	106	99	71-128	7.04	20
Trichloroethene	10.6	9.77	10	ND	106	98	64-132	8.48	20
Surrogate Recovery									
Dibromofluoromethane	21.8	22.0	25		87	88	73-131	0.792	20
Toluene-d8	21.2	21.1	25		85	84	72-117	0.632	20
4-BFB	2.18	2.10	2.5		87	84	74-116	3.84	20

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Quality Control Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505259
Date Prepared:	5/6/15	**BatchID:**	104541
Date Analyzed:	5/8/15	**Extraction Method:**	SW3050B
Instrument:	ICP-MS2	**Analytical Method:**	SW6020
Matrix:	Soil	**Unit:**	mg/Kg
Project:	#14-003-01; 106-110 Hegenberger	**Sample ID:**	MB/LCS-104541 1505215-006AMS/MSD

QC Summary Report for Metals

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Cadmium	ND	50.6	0.25	50	-	101	75-125
Chromium	ND	53.0	0.50	50	-	106	75-125
Lead	ND	52.1	0.50	50	-	104	75-125
Nickel	ND	54.1	0.50	50	-	108	75-125
Zinc	ND	539	5.0	500	-	108	75-125
Surrogate Recovery							
Terbium	533	515		500	107	103	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Cadmium	47.8	48.0	50	0.88	94	94	75-125	0	20
Chromium	85.0	96.4	50	49	72,F1	95	75-125	12.7	20
Lead	NR	NR	50	113.0	NR	NR	75-125	NR	20
Nickel	NR	NR	50	71	NR	NR	75-125	NR	20
Zinc	NR	NR	500	550	NR	NR	75-125	NR	20
Surrogate Recovery									
Terbium	497	503	500		99	101	70-130	1.30	20

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Quality Control Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505259
Date Prepared:	5/7/15	**BatchID:**	104564
Date Analyzed:	5/8/15	**Extraction Method:**	E200.8
Instrument:	ICP-MS2	**Analytical Method:**	E200.8
Matrix:	Water	**Unit:**	µg/L
Project:	#14-003-01; 106-110 Hegenberger	**Sample ID:**	MB/LCS-104564 1505230-007AMS/MSD

QC Summary Report for Metals

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Cadmium	ND	48.6	0.25	50	-	97	85-115
Chromium	ND	50.2	0.50	50	-	100	85-115
Lead	ND	49.9	0.50	50	-	100	85-115
Nickel	ND	50.9	0.50	50	-	102	85-115
Zinc	ND	516	15	500	-	102	85-115
Surrogate Recovery							
Terbium	748	710		750	100	95	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Cadmium	47.9	46.1	50	ND	96	92	70-130	3.89	20
Chromium	50.1	50.5	50	ND	100	101	70-130	0.835	20
Lead	49.7	47.0	50	ND	99	94	70-130	5.65	20
Nickel	48.6	49.4	50	ND	97	99	70-130	1.45	20
Zinc	497	504	500	ND	97	98	70-130	1.44	20
Surrogate Recovery									
Terbium	749	729	750		100	97	70-130	2.64	20

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Quality Control Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505259
Date Prepared:	5/7/15	**BatchID:**	104594
Date Analyzed:	5/8/15	**Extraction Method:**	SW3050B
Instrument:	ICP-MS1	**Analytical Method:**	SW6020
Matrix:	Soil	**Unit:**	mg/Kg
Project:	#14-003-01; 106-110 Hegenberger	**Sample ID:**	MB/LCS-104594 1505259-015AMS/MSD

QC Summary Report for Metals

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Cadmium	ND	49.3	0.25	50	-	99	75-125
Chromium	ND	49.4	0.50	50	-	99	75-125
Lead	ND	49.3	0.50	50	-	99	75-125
Nickel	ND	47.9	0.50	50	-	96	75-125
Zinc	ND	500	5.0	500	-	100	75-125
Surrogate Recovery							
Terbium	496	506		500	99	101	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Cadmium	50.7	51.6	50	ND	101	103	75-125	1.82	20
Chromium	88.4	97.4	50	34.33	108	126,F1	75-125	9.78	20
Lead	55.0	56.5	50	5.155	100	103	75-125	2.78	20
Nickel	94.5	104	50	43.25	103	122	75-125	9.93	20
Zinc	542	562	500	36.18	101	105	75-125	3.57	20
Surrogate Recovery									
Terbium	530	542	500		106	108	70-130	2.31	20

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Quality Control Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505259
Date Prepared:	5/7/15	**BatchID:**	104563
Date Analyzed:	5/7/15 - 5/8/15	**Extraction Method:**	SW3550B/3630C
Instrument:	GC11B, GC2A	**Analytical Method:**	SW8015B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	#14-003-01; 106-110 Hegenberger	**Sample ID:**	MB/LCS-104563 1505241-006AMS/MSD

QC Report for SW8015B w/ SG Clean-Up

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	38.7	1.0	40	-	97	70-130
TPH-Motor Oil (C18-C36)	ND	-	5.0	-	-	-	-
Surrogate Recovery							
C9	27.9	28.0		25	112	112	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	54.6	55.7	40	7.999	116	119	70-130	2.14	30
Surrogate Recovery									
C9	27.9	27.5	25		112	110	70-130	1.48	30

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Quality Control Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505259
Date Prepared:	5/7/15	**BatchID:**	104593
Date Analyzed:	5/8/15	**Extraction Method:**	SW3550B/3630C
Instrument:	GC2B, GC6A	**Analytical Method:**	SW8015B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	#14-003-01; 106-110 Hegenberger	**Sample ID:**	MB/LCS-104593 1505259-020AMS/MSD

QC Report for SW8015B w/ SG Clean-Up

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	40.3	1.0	40	-	101	70-130
TPH-Motor Oil (C18-C36)	ND	-	5.0	-	-	-	-
Surrogate Recovery							
C9	24.5	28.2		25	98	113	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	50.2	53.2	40	5.536	112	119	70-130	5.78	30
Surrogate Recovery									
C9	26.6	30.6	25		107	122	70-130	13.9	30

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Quality Control Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1505259
Date Prepared:	5/7/15	**BatchID:**	104592
Date Analyzed:	5/8/15	**Extraction Method:**	SW3510C/3630C
Instrument:	GC11B, GC2A	**Analytical Method:**	SW8015B
Matrix:	Water	**Unit:**	µg/L
Project:	#14-003-01; 106-110 Hegenberger	**Sample ID:**	MB/LCS-104592

QC Report for SW8015B w/ SG Clean-Up

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	1040	50	1000	-	104	59-151
TPH-Motor Oil (C18-C36)	ND	-	250	-	-	-	-
Surrogate Recovery							
C9	694	706		625	111	113	77-130

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CHAIN-OF-CUSTODY RECORD

WorkOrder: 1505259 **ClientCode: ERAS**

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Report to:
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(510) 247-9885 FAX: (510) 886-5399

Email: info@eras.biz; andrew@eras.biz
cc/3rd Party:
PO:
ProjectNo: #14-003-01; 106-110 Hegenberger

Bill to:
Kasey Cordoza
ERAS Environmental, Inc.
1533 B Street
Hayward, CA 94541

Requested TAT: 5 days

Date Received: **05/07/2015**
Date Printed: **05/11/2015**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1505259-001	B-7	Water	5/6/2015 9:00	☐		C		C		B		A				
1505259-002	B-8-Shallow	Water	5/6/2015 9:54	☐		C		C		B		A				
1505259-003	B-8	Water	5/6/2015 10:51	☐		C		C		B		A				
1505259-004	B-9-Shallow	Water	5/6/2015 11:32	☐		C		C		B		A				
1505259-005	B-9	Water	5/6/2015 12:08	☐		C		C		B		A				
1505259-006	B-1, 1.5-2	Soil	5/5/2015 9:16	☐	A		A		A		A					
1505259-007	B-1, 11.5-12	Soil	5/5/2015 9:24	☐	A		A		A		A					
1505259-008	B-2, 3.5-4	Soil	5/5/2015 10:33	☐	A		A		A		A					
1505259-009	B-2, 6-6.5	Soil	5/5/2015 10:34	☐	A		A		A		A					
1505259-010	B-2, 10-10.5	Soil	5/5/2015 10:37	☐	A		A		A		A					
1505259-011	B-3, 2.5-4	Soil	5/5/2015 11:23	☐	A		A		A		A					
1505259-012	B-3, 7.5-8	Soil	5/5/2015 11:26	☐	A		A		A		A					
1505259-013	B-3, 10.5-11	Soil	5/5/2015 11:28	☐	A		A		A		A					
1505259-014	B-4, 5.5-6	Soil	5/5/2015 11:52	☐	A		A		A		A					
1505259-015	B-4, 11.5-12	Soil	5/5/2015 13:01	☐	A		A		A		A					

Test Legend:

1	8260GAS_S	2	8260GAS_W	3	8260VOC_S	4	8260VOC_W	5	LUFTMS_S
6	LUFTMS_W	7	TPH(DMO)WSG_S	8	TPH(DMO)WSG_W	9		10	
11		12							

The following SampIDs: 001C, 002C, 003C, 004C, 005C, 006A, 007A, 008A, 009A, 010A, 011A, 012A, 013A, 014A, 015A, 016A, 017A, 018A, 019A, 020A, 021A, 022A, 023A, 024A, 025A, 026A contain testgroup.

Prepared by: Jena Alfaro

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.

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1505259 **ClientCode: ERAS**

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

Report to:
Andrew Savage
ERAS Environmental, Inc.
1533 B Street
Hayward, CA 94541
(510) 247-9885 FAX: (510) 886-5399

Email: info@eras.biz; andrew@eras.biz
cc/3rd Party:
PO:
ProjectNo: #14-003-01; 106-110 Hegenberger

Bill to:
Kasey Cordoza
ERAS Environmental, Inc.
1533 B Street
Hayward, CA 94541

Requested TAT: 5 days

Date Received: **05/07/2015**
Date Printed: **05/11/2015**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1505259-016	B-5, 3-3.5	Soil	5/5/2015 13:53	☐	A		A		A		A					
1505259-017	B-5, 10.5-11	Soil	5/5/2015 13:59	☐	A		A		A		A					
1505259-018	B-6, 3.5-4	Soil	5/5/2015 14:30	☐	A		A		A		A					
1505259-019	B-6, 7.5-8	Soil	5/5/2015 14:35	☐	A		A		A		A					
1505259-020	B-7, 3.5-4	Soil	5/6/2015 7:58	☐	A		A		A		A					
1505259-021	B-7, 6.5-7	Soil	5/6/2015 7:59	☐	A		A		A		A					
1505259-022	B-7, 11-11.5	Soil	5/6/2015 8:01	☐	A		A		A		A					
1505259-023	B-8, 3.5-4	Soil	5/6/2015 9:14	☐	A		A		A		A					
1505259-024	B-8, 11.5-12	Soil	5/6/2015 9:25	☐	A		A		A		A					
1505259-025	B-9, 2.5-3	Soil	5/6/2015 11:02	☐	A		A		A		A					
1505259-026	B-9, 11.5-12	Soil	5/6/2015 11:37	☐	A		A		A		A					

Test Legend:

1	8260GAS_S	2	8260GAS_W	3	8260VOC_S	4	8260VOC_W	5	LUFTMS_S
6	LUFTMS_W	7	TPH(DMO)WSG_S	8	TPH(DMO)WSG_W	9		10	
11		12							

The following SampIDs: 001C, 002C, 003C, 004C, 005C, 006A, 007A, 008A, 009A, 010A, 011A, 012A, 013A, 014A, 015A, 016A, 017A, 018A, 019A, 020A, 021A, 022A, 023A, 024A, 025A, 026A contain testgroup.

Prepared by: Jena Alfaro

Comments:

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

WORK ORDER SUMMARY

Client Name: ERAS ENVIRONMENTAL, INC. **QC Level:** LEVEL 2 **Work Order:** 1505259
Project: #14-003-01; 106-110 Hegenberger **Client Contact:** Andrew Savage **Date Received:** 5/7/2015
Comments: **Contact's Email:** info@eras.biz; andrew@eras.biz

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1505259-001A	B-7	Water	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	2	1LA	☐	5/6/2015 9:00	5 days	Present	☐	
1505259-001B	B-7	Water	E200.8 (LUFT)	2	250mL HDPE w/ HNO3	☐	5/6/2015 9:00	5 days	Present	☐	
1505259-001C	B-7	Water	TPH(g) & 8260 (Basic List) by P&T GCMS	6	VOA w/ HCl	☐	5/6/2015 9:00	5 days	Present	☐	
1505259-002A	B-8-Shallow	Water	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	1	1LA	☐	5/6/2015 9:54	5 days	Present	☐	
1505259-002B	B-8-Shallow	Water	E200.8 (LUFT)	1	250mL HDPE w/ HNO3	☐	5/6/2015 9:54	5 days	Present	☐	
1505259-002C	B-8-Shallow	Water	TPH(g) & 8260 (Basic List) by P&T GCMS	6	VOA w/ HCl	☐	5/6/2015 9:54	5 days	Present	☐	
1505259-003A	B-8	Water	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	2	1LA	☐	5/6/2015 10:51	5 days	Present	☐	
1505259-003B	B-8	Water	E200.8 (LUFT)	2	250mL HDPE w/ HNO3	☐	5/6/2015 10:51	5 days	Present	☐	
1505259-003C	B-8	Water	TPH(g) & 8260 (Basic List) by P&T GCMS	6	VOA w/ HCl	☐	5/6/2015 10:51	5 days	Present	☐	
1505259-004A	B-9-Shallow	Water	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	2	1LA	☐	5/6/2015 11:32	5 days	Present	☐	
1505259-004B	B-9-Shallow	Water	E200.8 (LUFT)	2	250mL HDPE w/ HNO3	☐	5/6/2015 11:32	5 days	Present	☐	
1505259-004C	B-9-Shallow	Water	TPH(g) & 8260 (Basic List) by P&T GCMS	6	VOA w/ HCl	☐	5/6/2015 11:32	5 days	Present	☐	
1505259-005A	B-9	Water	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	2	1LA	☐	5/6/2015 12:08	5 days	Present	☐	
1505259-005B	B-9	Water	E200.8 (LUFT)	2	250mL HDPE w/ HNO3	☐	5/6/2015 12:08	5 days	Present	☐	
1505259-005C	B-9	Water	TPH(g) & 8260 (Basic List) by P&T GCMS	6	VOA w/ HCl	☐	5/6/2015 12:08	5 days	Present	☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

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WORK ORDER SUMMARY

Client Name: ERAS ENVIRONMENTAL, INC. **QC Level:** LEVEL 2 **Work Order:** 1505259
Project: #14-003-01; 106-110 Hegenberger **Client Contact:** Andrew Savage **Date Received:** 5/7/2015
Comments: **Contact's Email:** info@eras.biz; andrew@eras.biz

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1505259-006A	B-1, 1.5-2	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	1	Acetate Liner	☐	5/5/2015 9:16	5 days		☐	
			SW6020 (LUFT)			☐		5 days		☐	
			TPH(g) & 8260 (Basic List) by P&T GCMS			☐		5 days		☐	
1505259-007A	B-1, 11.5-12	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	1	Acetate Liner	☐	5/5/2015 9:24	5 days		☐	
			SW6020 (LUFT)			☐		5 days		☐	
			TPH(g) & 8260 (Basic List) by P&T GCMS			☐		5 days		☐	
1505259-008A	B-2, 3.5-4	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	1	Acetate Liner	☐	5/5/2015 10:33	5 days		☐	
			SW6020 (LUFT)			☐		5 days		☐	
			TPH(g) & 8260 (Basic List) by P&T GCMS			☐		5 days		☐	
1505259-009A	B-2, 6-6.5	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	1	Acetate Liner	☐	5/5/2015 10:34	5 days		☐	
			SW6020 (LUFT)			☐		5 days		☐	
			TPH(g) & 8260 (Basic List) by P&T GCMS			☐		5 days		☐	
1505259-010A	B-2, 10-10.5	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	1	Acetate Liner	☐	5/5/2015 10:37	5 days		☐	
			SW6020 (LUFT)			☐		5 days		☐	
			TPH(g) & 8260 (Basic List) by P&T GCMS			☐		5 days		☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

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WORK ORDER SUMMARY

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Project: #14-003-01; 106-110 Hegenberger **Client Contact:** Andrew Savage **Date Received:** 5/7/2015
Comments: **Contact's Email:** info@eras.biz; andrew@eras.biz

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1505259-011A	B-3, 2.5-4	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	1	Acetate Liner	☐	5/5/2015 11:23	5 days		☐	
			SW6020 (LUFT)			☐		5 days		☐	
			TPH(g) & 8260 (Basic List) by P&T GCMS			☐		5 days		☐	
1505259-012A	B-3, 7.5-8	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	1	Acetate Liner	☐	5/5/2015 11:26	5 days		☐	
			SW6020 (LUFT)			☐		5 days		☐	
			TPH(g) & 8260 (Basic List) by P&T GCMS			☐		5 days		☐	
1505259-013A	B-3, 10.5-11	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	1	Acetate Liner	☐	5/5/2015 11:28	5 days		☐	
			SW6020 (LUFT)			☐		5 days		☐	
			TPH(g) & 8260 (Basic List) by P&T GCMS			☐		5 days		☐	
1505259-014A	B-4, 5.5-6	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	1	Acetate Liner	☐	5/5/2015 11:52	5 days		☐	
			SW6020 (LUFT)			☐		5 days		☐	
			TPH(g) & 8260 (Basic List) by P&T GCMS			☐		5 days		☐	
1505259-015A	B-4, 11.5-12	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	1	Acetate Liner	☐	5/5/2015 13:01	5 days		☐	
			SW6020 (LUFT)			☐		5 days		☐	
			TPH(g) & 8260 (Basic List) by P&T GCMS			☐		5 days		☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

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WORK ORDER SUMMARY

Client Name: ERAS ENVIRONMENTAL, INC. **QC Level:** LEVEL 2 **Work Order:** 1505259
Project: #14-003-01; 106-110 Hegenberger **Client Contact:** Andrew Savage **Date Received:** 5/7/2015
Comments: **Contact's Email:** info@eras.biz; andrew@eras.biz

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1505259-016A	B-5, 3-3.5	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	1	Acetate Liner	☐	5/5/2015 13:53	5 days		☐	
			SW6020 (LUFT)			☐		5 days		☐	
			TPH(g) & 8260 (Basic List) by P&T GCMS			☐		5 days		☐	
1505259-017A	B-5, 10.5-11	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	1	Acetate Liner	☐	5/5/2015 13:59	5 days		☐	
			SW6020 (LUFT)			☐		5 days		☐	
			TPH(g) & 8260 (Basic List) by P&T GCMS			☐		5 days		☐	
1505259-018A	B-6, 3.5-4	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	1	Acetate Liner	☐	5/5/2015 14:30	5 days		☐	
			SW6020 (LUFT)			☐		5 days		☐	
			TPH(g) & 8260 (Basic List) by P&T GCMS			☐		5 days		☐	
1505259-019A	B-6, 7.5-8	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	1	Acetate Liner	☐	5/5/2015 14:35	5 days		☐	
			SW6020 (LUFT)			☐		5 days		☐	
			TPH(g) & 8260 (Basic List) by P&T GCMS			☐		5 days		☐	
1505259-020A	B-7, 3.5-4	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	1	Acetate Liner	☐	5/6/2015 7:58	5 days		☐	
			SW6020 (LUFT)			☐		5 days		☐	
			TPH(g) & 8260 (Basic List) by P&T GCMS			☐		5 days		☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

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WORK ORDER SUMMARY

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Project: #14-003-01; 106-110 Hegenberger **Client Contact:** Andrew Savage **Date Received:** 5/7/2015
Comments: **Contact's Email:** info@eras.biz; andrew@eras.biz

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1505259-021A	B-7, 6.5-7	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	1	Acetate Liner	☐	5/6/2015 7:59	5 days		☐	
			SW6020 (LUFT)			☐		5 days		☐	
			TPH(g) & 8260 (Basic List) by P&T GCMS			☐		5 days		☐	
1505259-022A	B-7, 11-11.5	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	1	Acetate Liner	☐	5/6/2015 8:01	5 days		☐	
			SW6020 (LUFT)			☐		5 days		☐	
			TPH(g) & 8260 (Basic List) by P&T GCMS			☐		5 days		☐	
1505259-023A	B-8, 3.5-4	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	1	Acetate Liner	☐	5/6/2015 9:14	5 days		☐	
			SW6020 (LUFT)			☐		5 days		☐	
			TPH(g) & 8260 (Basic List) by P&T GCMS			☐		5 days		☐	
1505259-024A	B-8, 11.5-12	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	1	Acetate Liner	☐	5/6/2015 9:25	5 days		☐	
			SW6020 (LUFT)			☐		5 days		☐	
			TPH(g) & 8260 (Basic List) by P&T GCMS			☐		5 days		☐	
1505259-025A	B-9, 2.5-3	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	1	Acetate Liner	☐	5/6/2015 11:02	5 days		☐	
			SW6020 (LUFT)			☐		5 days		☐	
			TPH(g) & 8260 (Basic List) by P&T GCMS			☐		5 days		☐	

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WORK ORDER SUMMARY

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Project: #14-003-01; 106-110 Hegenberger **Client Contact:** Andrew Savage **Date Received:** 5/7/2015
Comments: **Contact's Email:** info@eras.biz; andrew@eras.biz

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1505259-026A	B-9, 11.5-12	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	1	Acetate Liner	☐	5/6/2015 11:37	5 days		☐	
			SW6020 (LUFT)			☐		5 days		☐	
			TPH(g) & 8260 (Basic List) by P&T GCMS			☐		5 days		☐	

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1505259

Page 1 of 3

CHAIN OF CUSTODY FORM

McCampbell Analytical, Inc
1534 Willow Pass Rd.
Pittsburg, CA 94565
877.252.9262
925.252.9269 - fax

Turnaround Time: Rush | 24Hr | 48 Hr | 72 Hr | X 5 Day

Geotracker: PDF | Excel | Write On (DW

Report To: ERAS **Bill To:** ERAS

Company: ERAS Environmental, Inc.

Email: info@eras.biz

Telephone: 510-247-9885 **Fax:** 510-886-5399

Project # 14-003-01

Project location 106-110 Hegenberger

Sampler: Andrew Savage

Sample ID	Location/Field Point Name	Sampling Date	Sampling Time	# of Containers	Container Type	Matrix: Soil	Matrix: Water	Matrix: Waste	Matrix:	Preservative: HCL	Preservative: H2SO4	Preservative: HNO3	Preservative: ICE	Preservative: None	Analysis Requested: TPH as diesel and oil range organics by 8015 with silica gel	Analysis Requested: LUFT 5 Metals	Analysis Requested: TPH-gro, BTEX, MTBE, Napthalene by 8260	Other	Comments
B-7		5/6/2015	9:00	2	1L		X							X	X				
B-7		5/6/2015	9:00	2	Poly		X					X				X			
B-7		5/6/2015	9:00	6	VOA		X			X							X		
B-8-Shallow		5/6/2015	9:54	1	1L		X							X	X				
B-8-Shallow		5/6/2015	9:54	1	Poly		X					X				X			
B-8-Shallow		5/6/2015	9:54	6	VOA		X			X							X		
B-8		5/6/2015	10:51	2	1L		X							X	X				
B-8		5/6/2015	10:51	1	Poly		X					X				X			
B-8		5/6/2015	10:51	6	VOA		X			X							X		
B-9-Shallow		5/6/2015	11:32	2	1L		X							X	X				
B-9-Shallow		5/6/2015	11:32	2	Poly		X					X				X			
B-9-Shallow		5/6/2015	11:32	6	VOA		X			X							X		

RELINQUISHED BY: **RECEIVED BY:**

Relinquished by:	Date: 5/7/15	Time: 1115	Recieved by:	
Relinquished by:	Date: 5/7	Time: 1645	Recieved by:	
Relinquished by:	Date:	Time:	Recieved by:	

ICE/t°	3.2	Comments: Please PDF
Condition		
Head space absent		
Dechlorinated in lab		
Appropriate containers		
Preserved in Lab		
	VOA's O&G Metals Other	
Preservation	pH<2	

CHAIN OF CUSTODY FORM

McCampbell Analytical, Inc
1534 Willow Pass Rd.
Pittsburg, CA 94565
877.252.9262
925.252.9269 - fax

Turnaround Time: Rush | 24Hr | 48 Hr | 72 Hr | X 5 Day
Geotracker: PDF | Excel | Write On (DW

Report To: ERAS **Bill To:** ERAS
Company: ERAS Environmental, Inc.
Email: info@eras.biz
Telephone: 510-247-9885 **Fax:** 510-886-5399
Project # 14-003-01
Project location 106-110 Hegenberger
Sampler: Andrew Savage

Sample ID	Location/Field Point Name	Sampling Date	Sampling Time	# of Containers	Container Type	Matrix: Soil	Water	Waste		Preservative: HCL	H2SO4	HNO3	ICE	None	TPH as diesel and oil range organics by 8015 with silica gel	LUFT 5 Metals	TPH-gro, BTEX, MTBE, Napthalene by 8260	Other	Comments
B-9		5/6/2015	12:08	2	1L		X							X	X				
B-9		5/6/2015	12:08	2	Poly		X					X				X			
B-9		5/6/2015	12:08	6	VOA		X			X							X		
B-1, 1.5-2		5/5/2015	9:16	1	Tube	X							X		X	X	X		
B-1, 11.5-12		5/5/2015	9:24	1	Tube	X							X		X	X	X		
B-2, 3.5-4		5/5/2015	10:33	1	Tube	X							X		X	X	X		
B-2, 6-6.5		5/5/2015	10:34	1	Tube	X							X		X	X	X		
B-2, 10-105		5/5/2015	10:37	1	Tube	X							X		X	X	X		
B-3, 2.5-4 *		5/5/2015	11:23	1	Tube	X							X		X	X	X		
B-3, 7.5-8		5/5/2015	11:26	1	Tube	X							X		X	X	X		
B-3, 10.5-11		5/5/2015	11:28	1	Tube	X							X		X	X	X		
B-4, 5.5-6		5/5/2015	11:52	1	Tube	X							X		X	X	X		
B-4, 11.5-12		5/5/2015	13:01	1	Tube	X							X		X	X	X		
~~B-6~~ B-5, 3-3.5 * 3.5-4		5/5/2015	13:53	1	Tube	X							X		X	X	X		

RELINQUISHED BY: **RECEIVED BY:**

Relinquished by:	Date:	Time:	Recieved by:
	5/7/15	1115	
Relinquished by:	Date:	Time:	Recieved by:
	5/7	1645	
Relinquished by:	Date:	Time:	Recieved by:

ICE/t° Condition	3.2	Comments: Please PDF
Head space absent		
Dechlorinated in lab		
Appropriate containers		
Preserved in Lab		
Preservation	VOA's O&G Metals Other pH<2	

CHAIN OF CUSTODY FORM

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Pittsburg, CA 94565
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Turnaround Time: Rush | 24Hr | 48 Hr | 72 Hr | X 5 Day
Geotracker: PDF | Excel | Write On (DW

Report To: ERAS **Bill To:** ERAS
Company: ERAS Environmental, Inc.

Email: info@eras.biz
Telephone: 510-247-9885 **Fax:** 510-886-5399
Project # 14-003-01
Project location 106-110 Hegenberger
Sampler: Andrew Savage

Sample ID	Location/Field Point Name	Sampling Date	Sampling Time	# of Containers	Container Type	Matrix: Soil	Water	Waste		Preservative: HCL	H2SO4	HNO3	ICE	None	TPH as diesel and oil range organics by 8015 with silica gel	LUFT 5 Metals	TPH-gro, BTEX, MTBE, Napthalene by 8260	Other	Comments
B-5, 10.5-11		5/5/2015	13:59	1	Tube	X							X		X	X	X		
B-6, 3.5-4		5/5/2015	14:30	1	Tube	X							X		X	X	X		
B-6, 7.5-8 ★		5/5/2015	14:35	1	Tube	X							X		X	X	X		
B-7, 3.5-4		5/6/2015	7:58	1	Tube	X							X		X	X	X		
B-7, 6.5-7		5/6/2015	7:59	1	Tube	X							X		X	X	X		
B-7, 11-11.5		5/6/2015	8:01	1	Tube	X							X		X	X	X		
B-8, 3.5-4		5/6/2015	9:14	1	Tube	X							X		X	X	X		
B-8, 11.5-12		5/6/2015	9:25	1	Tube	X							X		X	X	X		
B-9, 2.5-3		5/6/2015	11:02	1	Tube	X							X		X	X	X		
B-9, 11.5-12		5/6/2015	11:37	1	Tube	X							X		X	X	X		

★ 11.5-12

RELINQUISHED BY: **RECEIVED BY:**

Relinquished by:	Date: 5/7/15	Time: 1115	Recieved by:	
Relinquished by:	Date: 5/7	Time: 1645	Recieved by:	
Relinquished by:	Date:	Time:	Recieved by:	

ICE/t°	3.2	Comments: Please PDF
Condition		
Head space absent		
Dechlorinated in lab		
Appropriate containers		
Preserved in Lab		
Preservation	VOA's O&G Metals Other pH<2	

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Sample Receipt Checklist

Client Name: **ERAS Environmental, Inc.** Date and Time Received: **5/7/2015 5:06:02 PM**

Project Name: **#14-003-01; 106-110 Hegenberger** LogIn Reviewed by: Jena Alfaro

WorkOrder №: **1505259** Matrix: Soil/Water Carrier: Benjamin Yslas (MAI Courier)

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐
Chain of custody signed when relinquished and received?	Yes ☑	No ☐
Chain of custody agrees with sample labels?	Yes ☑	No ☐
Sample IDs noted by Client on COC?	Yes ☑	No ☐
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐
Sampler's name noted on COC?	Yes ☑	No ☐

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Sample/Temp Blank temperature	Temp: 3.2°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☑	No ☐	NA ☐
Sample labels checked for correct preservation?	Yes ☑	No ☐	
pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes ☐	No ☑	NA ☐
Samples Received on Ice?	Yes ☑	No ☐	

(Ice Type: WET ICE)

UCMR3 Samples:

Total Chlorine tested and acceptable upon receipt for EPA 522?	Yes ☐	No ☐	NA ☑
Free Chlorine tested and acceptable upon receipt for EPA 218.7, 300.1, 537, 539?	Yes ☐	No ☐	NA ☑

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

Comments: pH adjusted in Lab.

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Analytical Report

WorkOrder: 1509193

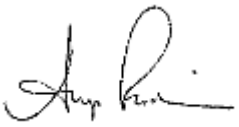
Report Created for: ERAS Environmental, Inc.

1533 B Street
Hayward, CA 94541

Project Contact: Andrew Savage
Project P.O.:
Project Name: 14-003-05; 106-110 Hegenberger

Project Received: 09/04/2015

Analytical Report reviewed & approved for release on 09/14/2015 by:



Angela Rydelius,
Laboratory Manager

McCampbell Analytical, Inc.
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Glossary of Terms & Qualifier Definitions

Client: ERAS Environmental, Inc.
Project: 14-003-05; 106-110 Hegenberger
WorkOrder: 1509193

Glossary Abbreviation

95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DUP	Duplicate
EDL	Estimated Detection Limit
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
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PF	Prep Factor
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
SPLP	Synthetic Precipitation Leachate Procedure
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

Analytical Qualifiers

b1	aqueous sample that contains greater than ~1 vol. % sediment
e2	diesel range compounds are significant; no recognizable pattern

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Analytical Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1509193
Date Received:	9/4/15 18:50	**Extraction Method:**	SW5030B
Date Prepared:	9/9/15-9/10/15	**Analytical Method:**	SW8260B
Project:	14-003-05; 106-110 Hegenberger	**Unit:**	µg/L

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

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-10	1509193-001B	Water	09/03/2015 10:06	GC28	110053

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	50	1	09/09/2015 21:21

Surrogates	REC (%)	Limits	
Dibromofluoromethane	98	70-130	09/09/2015 21:21

Analyst(s): KF Analytical Comments: b1

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-11	1509193-002B	Water	09/03/2015 11:05	GC28	110053

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	50	1	09/09/2015 21:59

Surrogates	REC (%)	Limits	
Dibromofluoromethane	98	70-130	09/09/2015 21:59

Analyst(s): KF Analytical Comments: b1

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-12	1509193-003B	Water	09/03/2015 12:19	GC28	110053

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**53**	50	1	09/09/2015 22:37

Surrogates	REC (%)	Limits	
Dibromofluoromethane	98	70-130	09/09/2015 22:37

Analyst(s): KF Analytical Comments: b1

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-13	1509193-004B	Water	09/03/2015 14:42	GC28	110053

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	50	1	09/09/2015 23:15

Surrogates	REC (%)	Limits	
Dibromofluoromethane	97	70-130	09/09/2015 23:15

Analyst(s): KF Analytical Comments: b1

(Cont.)

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Analytical Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1509193
Date Received:	9/4/15 18:50	**Extraction Method:**	SW5030B
Date Prepared:	9/9/15-9/10/15	**Analytical Method:**	SW8260B
Project:	14-003-05; 106-110 Hegenberger	**Unit:**	µg/L

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

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-14	1509193-005B	Water	09/03/2015 13:41	GC28	110053

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	50	1	09/09/2015 23:53

Surrogates	REC (%)	Limits	
Dibromofluoromethane	96	70-130	09/09/2015 23:53

Analyst(s): KF

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-15	1509193-006B	Water	09/04/2015 08:55	GC28	110053

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	50	1	09/10/2015 00:31

Surrogates	REC (%)	Limits	
Dibromofluoromethane	96	70-130	09/10/2015 00:31

Analyst(s): KF Analytical Comments: b1

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-16	1509193-007B	Water	09/04/2015 10:14	GC28	110053

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	50	1	09/10/2015 01:09

Surrogates	REC (%)	Limits	
Dibromofluoromethane	96	70-130	09/10/2015 01:09

Analyst(s): KF Analytical Comments: b1

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Analytical Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1509193
Date Received:	9/4/15 18:50	**Extraction Method:**	SW5030B
Date Prepared:	9/9/15-9/10/15	**Analytical Method:**	SW8260B
Project:	14-003-05; 106-110 Hegenberger	**Unit:**	µg/L

Volatile Organics by P&T and GC/MS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-10	1509193-001B	Water	09/03/2015 10:06	GC28	110053

Analytes	Result	RL	DF	Date Analyzed
Benzene	ND	0.50	1	09/09/2015 21:21
Ethylbenzene	ND	0.50	1	09/09/2015 21:21
Methyl-t-butyl ether (MTBE)	ND	0.50	1	09/09/2015 21:21
Naphthalene	ND	0.50	1	09/09/2015 21:21
Toluene	ND	0.50	1	09/09/2015 21:21
Xylenes, Total	ND	0.50	1	09/09/2015 21:21
Surrogates	**REC (%)**	**Limits**		
Dibromofluoromethane	111	70-130		09/09/2015 21:21
Toluene-d8	109	70-130		09/09/2015 21:21
4-BFB	103	70-130		09/09/2015 21:21

Analyst(s): KF Analytical Comments: b1

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-11	1509193-002B	Water	09/03/2015 11:05	GC28	110053

Analytes	Result	RL	DF	Date Analyzed
Benzene	ND	0.50	1	09/09/2015 21:59
Ethylbenzene	**1.0**	0.50	1	09/09/2015 21:59
Methyl-t-butyl ether (MTBE)	ND	0.50	1	09/09/2015 21:59
Naphthalene	ND	0.50	1	09/09/2015 21:59
Toluene	ND	0.50	1	09/09/2015 21:59
Xylenes, Total	**0.84**	0.50	1	09/09/2015 21:59
Surrogates	**REC (%)**	**Limits**		
Dibromofluoromethane	112	70-130		09/09/2015 21:59
Toluene-d8	108	70-130		09/09/2015 21:59
4-BFB	100	70-130		09/09/2015 21:59

Analyst(s): KF Analytical Comments: b1

(Cont.)

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Analytical Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1509193
Date Received:	9/4/15 18:50	**Extraction Method:**	SW5030B
Date Prepared:	9/9/15-9/10/15	**Analytical Method:**	SW8260B
Project:	14-003-05; 106-110 Hegenberger	**Unit:**	µg/L

Volatile Organics by P&T and GC/MS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-12	1509193-003B	Water	09/03/2015 12:19	GC28	110053

Analytes	Result	RL	DF	Date Analyzed
Benzene	**2.4**	0.50	1	09/09/2015 22:37
Ethylbenzene	**5.7**	0.50	1	09/09/2015 22:37
Methyl-t-butyl ether (MTBE)	ND	0.50	1	09/09/2015 22:37
Naphthalene	**0.79**	0.50	1	09/09/2015 22:37
Toluene	ND	0.50	1	09/09/2015 22:37
Xylenes, Total	**1.7**	0.50	1	09/09/2015 22:37

Surrogates	REC (%)	Limits	
Dibromofluoromethane	112	70-130	09/09/2015 22:37
Toluene-d8	107	70-130	09/09/2015 22:37
4-BFB	102	70-130	09/09/2015 22:37

Analyst(s): KF Analytical Comments: b1

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-13	1509193-004B	Water	09/03/2015 14:42	GC28	110053

Analytes	Result	RL	DF	Date Analyzed
Benzene	ND	0.50	1	09/09/2015 23:15
Ethylbenzene	ND	0.50	1	09/09/2015 23:15
Methyl-t-butyl ether (MTBE)	ND	0.50	1	09/09/2015 23:15
Naphthalene	ND	0.50	1	09/09/2015 23:15
Toluene	ND	0.50	1	09/09/2015 23:15
Xylenes, Total	ND	0.50	1	09/09/2015 23:15

Surrogates	REC (%)	Limits	
Dibromofluoromethane	110	70-130	09/09/2015 23:15
Toluene-d8	109	70-130	09/09/2015 23:15
4-BFB	101	70-130	09/09/2015 23:15

Analyst(s): KF Analytical Comments: b1

(Cont.)

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Analytical Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1509193
Date Received:	9/4/15 18:50	**Extraction Method:**	SW5030B
Date Prepared:	9/9/15-9/10/15	**Analytical Method:**	SW8260B
Project:	14-003-05; 106-110 Hegenberger	**Unit:**	µg/L

Volatile Organics by P&T and GC/MS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-14	1509193-005B	Water	09/03/2015 13:41	GC28	110053

Analytes	Result	RL	DF	Date Analyzed
Benzene	ND	0.50	1	09/09/2015 23:53
Ethylbenzene	ND	0.50	1	09/09/2015 23:53
Methyl-t-butyl ether (MTBE)	ND	0.50	1	09/09/2015 23:53
Naphthalene	ND	0.50	1	09/09/2015 23:53
Toluene	ND	0.50	1	09/09/2015 23:53
Xylenes, Total	ND	0.50	1	09/09/2015 23:53
Surrogates	**REC (%)**	**Limits**		
Dibromofluoromethane	110	70-130		09/09/2015 23:53
Toluene-d8	108	70-130		09/09/2015 23:53
4-BFB	101	70-130		09/09/2015 23:53

Analyst(s): KF

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-15	1509193-006B	Water	09/04/2015 08:55	GC28	110053

Analytes	Result	RL	DF	Date Analyzed
Benzene	ND	0.50	1	09/10/2015 00:31
Ethylbenzene	ND	0.50	1	09/10/2015 00:31
Methyl-t-butyl ether (MTBE)	ND	0.50	1	09/10/2015 00:31
Naphthalene	ND	0.50	1	09/10/2015 00:31
Toluene	ND	0.50	1	09/10/2015 00:31
Xylenes, Total	ND	0.50	1	09/10/2015 00:31
Surrogates	**REC (%)**	**Limits**		
Dibromofluoromethane	111	70-130		09/10/2015 00:31
Toluene-d8	107	70-130		09/10/2015 00:31
4-BFB	98	70-130		09/10/2015 00:31

Analyst(s): KF Analytical Comments: b1

(Cont.)

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Analytical Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1509193
Date Received:	9/4/15 18:50	**Extraction Method:**	SW5030B
Date Prepared:	9/9/15-9/10/15	**Analytical Method:**	SW8260B
Project:	14-003-05; 106-110 Hegenberger	**Unit:**	µg/L

Volatile Organics by P&T and GC/MS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-16	1509193-007B	Water	09/04/2015 10:14	GC28	110053

Analytes	Result	RL	DF	Date Analyzed
Benzene	ND	0.50	1	09/10/2015 01:09
Ethylbenzene	ND	0.50	1	09/10/2015 01:09
Methyl-t-butyl ether (MTBE)	ND	0.50	1	09/10/2015 01:09
Naphthalene	ND	0.50	1	09/10/2015 01:09
Toluene	ND	0.50	1	09/10/2015 01:09
Xylenes, Total	ND	0.50	1	09/10/2015 01:09
Surrogates	**REC (%)**	**Limits**		
Dibromofluoromethane	109	70-130		09/10/2015 01:09
Toluene-d8	108	70-130		09/10/2015 01:09
4-BFB	98	70-130		09/10/2015 01:09

Analyst(s): KF Analytical Comments: b1

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Analytical Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1509193
Date Received:	9/4/15 18:50	**Extraction Method:**	SW3510C/3630C
Date Prepared:	9/8/15	**Analytical Method:**	SW8015B
Project:	14-003-05; 106-110 Hegenberger	**Unit:**	µg/L

Total Extractable Petroleum Hydrocarbons w/ SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-10	1509193-001A	Water	09/03/2015 10:06	GC6A	109939

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	50	1	09/09/2015 14:45
TPH-Motor Oil (C18-C36)	ND	250	1	09/09/2015 14:45

Surrogates	REC (%)	Limits	
C9	91	70-130	09/09/2015 14:45

Analyst(s): TK Analytical Comments: b1

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-11	1509193-002A	Water	09/03/2015 11:05	GC9b	109939

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	50	1	09/09/2015 11:30
TPH-Motor Oil (C18-C36)	ND	250	1	09/09/2015 11:30

Surrogates	REC (%)	Limits	
C9	104	70-130	09/09/2015 11:30

Analyst(s): TK Analytical Comments: b1

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-12	1509193-003A	Water	09/03/2015 12:19	GC6A	109939

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	50	1	09/09/2015 12:14
TPH-Motor Oil (C18-C36)	ND	250	1	09/09/2015 12:14

Surrogates	REC (%)	Limits	
C9	89	70-130	09/09/2015 12:14

Analyst(s): TK Analytical Comments: b1

(Cont.)

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Analytical Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1509193
Date Received:	9/4/15 18:50	**Extraction Method:**	SW3510C/3630C
Date Prepared:	9/8/15	**Analytical Method:**	SW8015B
Project:	14-003-05; 106-110 Hegenberger	**Unit:**	µg/L

Total Extractable Petroleum Hydrocarbons w/ SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-13	1509193-004A	Water	09/03/2015 14:42	GC6A	109939

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	50	1	09/09/2015 00:35
TPH-Motor Oil (C18-C36)	ND	250	1	09/09/2015 00:35
Surrogates	REC (%)	Limits		
C9	83	70-130		09/09/2015 00:35

Analyst(s): TK Analytical Comments: b1

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-14	1509193-005A	Water	09/03/2015 13:41	GC6A	109939

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**54**	50	1	09/08/2015 22:10
TPH-Motor Oil (C18-C36)	ND	250	1	09/08/2015 22:10
Surrogates	REC (%)	Limits		
C9	87	70-130		09/08/2015 22:10

Analyst(s): TK Analytical Comments: e2

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-15	1509193-006A	Water	09/04/2015 08:55	GC6A	109939

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	50	1	09/09/2015 13:29
TPH-Motor Oil (C18-C36)	ND	250	1	09/09/2015 13:29
Surrogates	REC (%)	Limits		
C9	71	70-130		09/09/2015 13:29

Analyst(s): TK Analytical Comments: b1

(Cont.)

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Analytical Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1509193
Date Received:	9/4/15 18:50	**Extraction Method:**	SW3510C/3630C
Date Prepared:	9/8/15	**Analytical Method:**	SW8015B
Project:	14-003-05; 106-110 Hegenberger	**Unit:**	µg/L

Total Extractable Petroleum Hydrocarbons w/ SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-16	**1509193-007A**	**Water**	**09/04/2015 10:14**	**GC6B**	**109939**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	50	1	09/09/2015 00:35
TPH-Motor Oil (C18-C36)	ND	250	1	09/09/2015 00:35

Surrogates	REC (%)	Limits	
C9	86	70-130	09/09/2015 00:35

Analyst(s): TK Analytical Comments: b1

CLIENT: ERAS Environmental, Inc.
Work Order: 1509193
Project: 14-003-05; 106-110 Hegenberger

ANALYTICAL QC SUMMARY REPORT

BatchID: 110053

SampleID **MB-110053**	TestCode: **8260gas_w**	Units: **µg/L**	Prep Date: **9/9/2015**
Batch ID: **110053**	TestNo: **SW8260B**	Run ID: **GC28_150914F**	Analysis Date: **9/9/2015**

Analyte	Result	PQL	SPKValue	SPKRefVal	%REC	Limits	RPDRefVal	%RPD	RPDLimit	Qual
TPH(g)	ND	50				-				
Surrogate Recovery										
Dibromofluoromethane	24.0		25		96	70 - 130				

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

CDPH ELAP 1644 ♦ NELAP 4033ORELAP

Angela Rydelius, Lab Manager

CLIENT: ERAS Environmental, Inc.
Work Order: 1509193
Project: 14-003-05; 106-110 Hegenberger

ANALYTICAL QC SUMMARY REPORT

BatchID: 110053

SampleID **LCS-110053**	TestCode: **8260gas_w**			Units: **µg/L**			Prep Date: **9/9/2015**			
Batch ID: **110053**	TestNo: **SW8260B**			Run ID: **GC28_150914F**			Analysis Date: **9/9/2015**			
Analyte	Result	PQL	SPKValue	SPKRefVal	%REC	Limits	RPDRefVal	%RPD	RPDLimit	Qual
VOC (C6-C12)	492	50	644	0	76	75 - 105				
Surrogate Recovery										
Dibromofluoromethane	24.1		25		96	70 - 130				

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

CDPH ELAP 1644 ♦ NELAP 4033ORELAP

Angela Rydelius, Lab Manager

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Quality Control Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1509193
Date Prepared:	9/9/15	**BatchID:**	110053
Date Analyzed:	9/9/15	**Extraction Method:**	SW5030B
Instrument:	GC28	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	14-003-05; 106-110 Hegenberger	**Sample ID:**	MB/LCS-110053 1509200-001BMS/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	9.74	0.50	10	-	97	54-140
Benzene	ND	9.84	0.50	10	-	98	47-158
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	37.0	2.0	40	-	93	42-140
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	9.45	0.50	10	-	94	43-157
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	9.21	0.50	10	-	92	44-155
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	9.50	0.50	10	-	95	66-125
1,1-Dichloroethene	ND	10.2	0.50	10	-	102	47-149
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	-	-	-	-

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Quality Control Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1509193
Date Prepared:	9/9/15	**BatchID:**	110053
Date Analyzed:	9/9/15	**Extraction Method:**	SW5030B
Instrument:	GC28	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	14-003-05; 106-110 Hegenberger	**Sample ID:**	MB/LCS-110053 1509200-001BMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
cis-1,3-Dichloropropene	ND	-	0.50	-	-	-	-
trans-1,3-Dichloropropene	ND	-	0.50	-	-	-	-
Diisopropyl ether (DIPE)	ND	9.76	0.50	10	-	98	57-136
Ethylbenzene	ND	-	0.50	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	9.36	0.50	10	-	94	55-137
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	9.43	0.50	10	-	94	53-139
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	9.88	0.50	10	-	99	52-137
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	9.62	0.50	10	-	96	43-157
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	-	-	-	-

(Cont.)

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Quality Control Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1509193
Date Prepared:	9/9/15	**BatchID:**	110053
Date Analyzed:	9/9/15	**Extraction Method:**	SW5030B
Instrument:	GC28	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	14-003-05; 106-110 Hegenberger	**Sample ID:**	MB/LCS-110053 1509200-001BMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Surrogate Recovery							
Dibromofluoromethane	26.6	27.1		25	107	108	70-130
Toluene-d8	27.5	27.2		25	110	109	70-130
4-BFB	2.54	2.63		2.5	102	105	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
tert-Amyl methyl ether (TAME)	11.4	11.8	10	ND	114	118	69-139	3.60	20
Benzene	10.0	10.3	10	ND	100	103	69-141	2.33	20
t-Butyl alcohol (TBA)	51.2	54.8	40	ND	128	137	41-152	6.86	20
Chlorobenzene	9.44	9.64	10	ND	94	96	77-120	2.15	20
1,2-Dibromoethane (EDB)	10.5	10.8	10	ND	105	108	76-135	2.75	20
1,2-Dichloroethane (1,2-DCA)	10.8	11.1	10	ND	108	111	73-139	2.79	20
1,1-Dichloroethene	10.2	10.6	10	ND	102	106	59-140	3.36	20
Diisopropyl ether (DIPE)	10.7	11.0	10	ND	107	110	72-140	2.60	20
Ethyl tert-butyl ether (ETBE)	10.6	10.9	10	ND	106	109	71-140	3.06	20
Methyl-t-butyl ether (MTBE)	11.4	11.7	10	ND	114	117	73-139	2.94	20
Toluene	9.64	9.88	10	ND	96	99	71-128	2.46	20
Trichloroethene	9.74	10.1	10	ND	95	99	64-132	3.50	20
Surrogate Recovery									
Dibromofluoromethane	27.7	28.1	25		111	112	70-130	1.29	20
Toluene-d8	26.4	26.6	25		106	106	70-130	0	20
4-BFB	2.55	2.52	2.5		102	101	70-130	1.16	20

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Quality Control Report

Client:	ERAS Environmental, Inc.	**WorkOrder:**	1509193
Date Prepared:	9/8/15	**BatchID:**	109939
Date Analyzed:	9/8/15	**Extraction Method:**	SW3510C/3630C
Instrument:	GC9a, GC9b	**Analytical Method:**	SW8015B
Matrix:	Water	**Unit:**	µg/L
Project:	14-003-05; 106-110 Hegenberger	**Sample ID:**	MB/LCS-109939

QC Report for SW8015B w/ SG Clean-Up

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	924	50	1000	-	92	59-151
TPH-Motor Oil (C18-C36)	ND	-	250	-	-	-	-
Surrogate Recovery							
C9	651	664		625	104	106	65-122

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CHAIN-OF-CUSTODY RECORD

WorkOrder: 1509193 **ClientCode: ERAS**

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

Report to:
Andrew Savage
ERAS Environmental, Inc.
1533 B Street
Hayward, CA 94541
(510) 247-9885 FAX: (510) 886-5399

Email: info@eras.biz; andrew@eras.biz
cc/3rd Party:
PO:
ProjectNo: 14-003-05; 106-110 Hegenberger

Bill to:
Kasey Cordoza
ERAS Environmental, Inc.
1533 B Street
Hayward, CA 94541

Requested TAT: **5 days;**

Date Received: **09/04/2015**
Date Printed: **09/08/2015**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1509193-001	B-10	Water	9/3/2015 10:06	☐	B	B	A									
1509193-002	B-11	Water	9/3/2015 11:05	☐	B	B	A									
1509193-003	B-12	Water	9/3/2015 12:19	☐	B	B	A									
1509193-004	B-13	Water	9/3/2015 14:42	☐	B	B	A									
1509193-005	B-14	Water	9/3/2015 13:41	☐	B	B	A									
1509193-006	B-15	Water	9/4/2015 8:55	☐	B	B	A									
1509193-007	B-16	Water	9/4/2015 10:14	☐	B	B	A									

Test Legend:

1	8260GAS_W	2	8260VOC_W	3	TPH(DMO)WSG_W	4	
5		6		7		8	
9		10		11		12	

The following SampIDs: 001B, 002B, 003B, 004B, 005B, 006B, 007B contain testgroup.

Prepared by: Maria Venegas

Comments:

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

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WORK ORDER SUMMARY

Client Name: ERAS ENVIRONMENTAL, INC. **QC Level:** LEVEL 2 **Work Order:** 1509193
Project: 14-003-05; 106-110 Hegenberger **Client Contact:** Andrew Savage **Date Received:** 9/4/2015
Comments: **Contact's Email:** info@eras.biz; andrew@eras.biz

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1509193-001A	B-10	Water	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	2	VOA w/ HCl	☐	9/3/2015 10:06	5 days	1%+	☐	
				2	1LA	☐			1%+	☐	
1509193-001B	B-10	Water	TPH(g) & 8260 (Misc. Compounds) by P&T GCMS	4	VOA w/ HCl	☐	9/3/2015 10:06	5 days	1%+	☐	
1509193-002A	B-11	Water	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	2	VOA w/ HCl	☐	9/3/2015 11:05	5 days	1%+	☐	
				2	1LA	☐			1%+	☐	
1509193-002B	B-11	Water	TPH(g) & 8260 (Misc. Compounds) by P&T GCMS	4	VOA w/ HCl	☐	9/3/2015 11:05	5 days	1%+	☐	
1509193-003A	B-12	Water	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	2	VOA w/ HCl	☐	9/3/2015 12:19	5 days	1%+	☐	
				2	1LA	☐			1%+	☐	
1509193-003B	B-12	Water	TPH(g) & 8260 (Misc. Compounds) by P&T GCMS	4	VOA w/ HCl	☐	9/3/2015 12:19	5 days	1%+	☐	
1509193-004A	B-13	Water	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	2	VOA w/ HCl	☐	9/3/2015 14:42	5 days	1%+	☐	
				2	1LA	☐			1%+	☐	
1509193-004B	B-13	Water	TPH(g) & 8260 (Misc. Compounds) by P&T GCMS	4	VOA w/ HCl	☐	9/3/2015 14:42	5 days	1%+	☐	
1509193-005A	B-14	Water	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	2	VOA w/ HCl	☐	9/3/2015 13:41	5 days	Present	☐	
				2	1LA	☐			Present	☐	
1509193-005B	B-14	Water	TPH(g) & 8260 (Misc. Compounds) by P&T GCMS	4	VOA w/ HCl	☐	9/3/2015 13:41	5 days	Present	☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

McCampbell Analytical, Inc.
"When Quality Counts"

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

WORK ORDER SUMMARY

Client Name: ERAS ENVIRONMENTAL, INC. **QC Level:** LEVEL 2 **Work Order:** 1509193
Project: 14-003-05; 106-110 Hegenberger **Client Contact:** Andrew Savage **Date Received:** 9/4/2015
Comments: **Contact's Email:** info@eras.biz; andrew@eras.biz

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1509193-006A	B-15	Water	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	2	VOA w/ HCl	☐	9/4/2015 8:55	5 days	2%+	☐	
				2	1LA	☐			2%+	☐	
1509193-006B	B-15	Water	TPH(g) & 8260 (Misc. Compounds) by P&T GCMS	4	VOA w/ HCl	☐	9/4/2015 8:55	5 days	2%+	☐	
1509193-007A	B-16	Water	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	2	VOA w/ HCl	☐	9/4/2015 10:14	5 days	5%+	☐	
				2	1LA	☐			5%+	☐	
1509193-007B	B-16	Water	TPH(g) & 8260 (Misc. Compounds) by P&T GCMS	4	VOA w/ HCl	☐	9/4/2015 10:14	5 days	5%+	☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

1509193

CHAIN OF CUSTODY FORM

McCampbell Analytical, Inc
1534 Willow Pass Rd.
Pittsburg, CA 94565
877.252.9262
925.252.9269 - fax

Turnaround Time:	Rush	24Hr	48 Hr	72 Hr	5 Day
					X
Geotracker:	PDF	Excel	Write On (DW		

Report To: ERAS **Bill To:** ERAS
Company: ERAS Environmental, Inc.

Email: info@eras.biz
Telephone: 510-247-9885 **Fax:** 510-886-5399
Project # 14-003-05
Project location 106-110 Hegenberger
Sampler: Andrew Savage

	Sample ID	Location/Field Point Name	Sampling Date	Sampling Time	# of Containers	Container Type	Matrix: Soil	Matrix: Water	Matrix: Waste	Preservative: HCL	Preservative: H2SO4	Preservative: HNO3	Preservative: ICE	Preservative: None	Analysis Requested: TPH as diesel and oil range organics by 8015 with silica gel	Analysis Requested: TPH-gro, BTEX, MTBE, Napthalene by 8260	Other	Comments
+1	B-10		9/3/2015	10:06	2	1L		X						X	X			
	B-10		9/3/2015	10:06	6	VOA		X		X						X		
+1	B-11		9/3/2015	11:05	2	1L		X						X	X			
	B-11		9/3/2015	11:05	6	VOA		X		X						X		
+1	B-12		9/3/2015	12:19	2	1L		X						X	X			
	B-12		9/3/2015	12:19	6	VOA		X		X						X		
+	B-13		9/3/2015	14:42	2	1L		X						X	X			
	B-13		9/3/2015	14:42	6	VOA		X		X						X		
+1	B-14		9/3/2015	13:41	2	1L		X						X	X			
	B-14		9/3/2015	13:41	6	VOA		X		X						X		
+2	B-15		9/4/2015	8:55	2	1L		X						X	X			
	B-15		9/4/2015	8:55	6	VOA		X		X						X		
+5	B-16		9/4/2015	10:14	2	L		X						X	X			
	B-16		9/4/2015	10:14	6	VOA		X		X						X		

RELINQUISHED BY: **RECEIVED BY:**

Relinquished by:	Date: 9-4-15	Time: 1650	Recieved by:	
Relinquished by:	Date: 9/4	Time: 1650	Recieved by:	
Relinquished by:	Date:	Time:	Recieved by:	

ICE/t°	ICE/t° 3.0				Comments: Please PDF
Condition	GOOD CONDITION				APPROPRIATE
Head space absent	HEAD SPACE ABSENT				CONTAINERS
Dechlorinated in lab	DECHLORINATED IN LAB				PRESERVED IN LAB
Appropriate containers	VOAS	O&G	METALS	OTHER	
Preserved in Lab	PRESERVATION				
	VOA's	O&G	Metals	Other	
Preservation	pH<2				

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

Sample Receipt Checklist

Client Name: **ERAS Environmental, Inc.**
Date and Time Received: **9/4/2015 6:50:00 PM**

Project Name: **14-003-05; 106-110 Hegenberger**
LogIn Reviewed by: Maria Venegas

WorkOrder №: **1509193** Matrix: Water
Carrier: Benjamin Yslas (MAI Courier)

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐
Chain of custody signed when relinquished and received?	Yes ☑	No ☐
Chain of custody agrees with sample labels?	Yes ☑	No ☐
Sample IDs noted by Client on COC?	Yes ☑	No ☐
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐
Sampler's name noted on COC?	Yes ☑	No ☐

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Sample/Temp Blank temperature	Temp: 3.8°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☑	No ☐	NA ☐
Sample labels checked for correct preservation?	Yes ☑	No ☐	
pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes ☐	No ☐	NA ☑
Samples Received on Ice?	Yes ☑	No ☐	

(Ice Type: WET ICE)

UCMR3 Samples:

Total Chlorine tested and acceptable upon receipt for EPA 522?	Yes ☐	No ☐	NA ☑
Free Chlorine tested and acceptable upon receipt for EPA 218.7, 300.1, 537, 539?	Yes ☐	No ☐	NA ☑

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

Comments:

Appendix G

Analytical Results – Soil Vapor

K PRIME, Inc.

CONSULTING ANALYTICAL CHEMISTS

3621 Westwind Blvd.
Santa Rosa CA 95403
Phone: 707 527 7574
FAX: 707 527 7879

TRANSMITTAL

DATE: 9/16/2015

TO: MR. ANDREW SAVAGE
ERAS ENVIRONMENTAL, INC.
1533 B STREET
HAYWARD, CA 94541

Phone: 510-247-9885
Fax: 510-886-5399
Email: andrew@eras.biz

ACCT: 4730
PROJ: 14-003-05

CC: MR. KASEY CORDOZA

Email: info@eras.biz

FROM: Richard A. Kagel, Ph.D. RAK 9/16/2015
Laboratory Director

SUBJECT: LABORATORY RESULTS FOR YOUR PROJECT 14-003-05

Enclosed please find K Prime's laboratory reports for the following samples:

SAMPLE ID	TYPE	DATE	TIME	KPI LAB #
SV-15	AIR	9/10/2015	8:36	136650
SV-16	AIR	9/10/2015	9:57	136651

The above listed sample group was received 9/11/2015 and tested as requested on the chain of custody document.

Please call me if you have any questions or need further information.
Thank you for this opportunity to be of service.

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 4730
CLIENT PROJECT: 14-003-05

METHOD: VOC'S IN AIR
REFERENCE: EPA METHOD TO 15 (GC-MS-SCAN)

SAMPLE ID:	SV-15
LAB NO:	136650
SAMPLE TYPE:	AIR
DATE SAMPLED:	09/10/2015
TIME SAMPLED:	08:36
BATCH ID:	091415A1
DATE ANALYZED:	09/15/2015

		PPB (V/V)		µg/cu. m	
COMPOUND NAME	**CAS NO.**	**MRL**	**SAMPLE CONC**	**MRL**	**SAMPLE CONC**
BENZENE	71-43-2	2.00	2.38	6.39	7.60
TOLUENE	108-88-3	2.00	2.91	7.54	11.0
ETHYLBENZENE	100-41-4	2.00	ND	8.68	ND
XYLENE (M+P)	1330-20-7	2.00	4.40	8.68	19.1
XYLENE (O)	95-47-6	2.00	ND	8.68	ND

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
MRL - METHOD REPORTING LIMIT
NA - NOT APPLICABLE OR AVAILABLE
µg/cu. m VALUES ARE CALCULATED FROM PPB RESULTS USING NORMAL TEMPERATURE AND PRESSURE (NPT).

APPROVED BY: RMC
DATE: 9/16/15

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 4730
CLIENT PROJECT: 14-003-05

METHOD: VOC'S IN AIR
REFERENCE: EPA METHOD TO 15 (GC-MS-SCAN)

SAMPLE ID:	SV-16
LAB NO:	136651
SAMPLE TYPE:	AIR
DATE SAMPLED:	09/10/2015
TIME SAMPLED:	09:57
BATCH ID:	091415A1
DATE ANALYZED:	09/14/2015

		PPB (V/V)		µg/cu. m	
COMPOUND NAME	**CAS NO.**	**MRL**	**SAMPLE CONC**	**MRL**	**SAMPLE CONC**
BENZENE	71-43-2	1.00	1.19	3.19	3.80
TOLUENE	108-88-3	1.00	2.02	3.77	7.61
ETHYLBENZENE	100-41-4	1.00	ND	4.34	ND
XYLENE (M+P)	1330-20-7	1.00	1.56	4.34	6.77
XYLENE (O)	95-47-6	1.00	ND	4.34	ND

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
MRL - METHOD REPORTING LIMIT
NA - NOT APPLICABLE OR AVAILABLE
µg/cu. m VALUES ARE CALCULATED FROM PPB RESULTS USING NORMAL TEMPERATURE AND PRESSURE (NPT).

APPROVED BY: _____
DATE: 9/16/15

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 4730
CLIENT PROJECT: 14-003-05

METHOD: TVH C2-C10 AS HEXANE
REFERENCE: EPA TO 3

UNITS: PPM-V

SAMPLE ID	LAB NO.	SAMPLE TYPE	DATE SAMPLED	BATCH ID	DATE ANALYZED	MRL	SAMPLE CONC
SV-15	136650	AIR	09/10/2015	091015A1	09/11/2015	5.00	ND
SV-16	136651	AIR	09/10/2015	091015A1	09/11/2015	5.00	ND

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED METHOD REPORTING LIMIT
NA - NOT APPLICABLE OR AVAILABLE
MRL - METHOD REPORTING LIMIT

APPROVED BY: [signature]
DATE: 9/16/15

K PRIME, INC.

LABORATORY REPORT

K PRIME PROJECT: 4730
CLIENT PROJECT: 14-003-05

METHOD: TVH C2-C10 AS HEXANE
REFERENCE: EPA TO 3

UNITS: MG/M3

SAMPLE ID	LAB NO.	SAMPLE TYPE	DATE SAMPLED	BATCH ID	DATE ANALYZED	MRL	SAMPLE CONC
SV-15	136650	AIR	09/10/2015	091015A1	09/11/2015	17.6	ND
SV-16	136651	AIR	09/10/2015	091015A1	09/11/2015	17.6	ND

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED METHOD REPORTING LIMIT
NA - NOT APPLICABLE OR AVAILABLE
MRL - METHOD REPORTING LIMIT

APPROVED BY: _____
DATE: 9/16/15

K PRIME, INC.

LABORATORY REPORT

K PRIME PROJECT: 4730
CLIENT PROJECT: 14-003-05

METHOD: 1,1-DIFLUOROETHANE
REFERENCE: EPA TO 3

UNITS: PPMV

SAMPLE ID	LAB NO.	SAMPLE TYPE	DATE SAMPLED	BATCH ID	DATE ANALYZED	MRL	SAMPLE CONC
SV-15	136650	AIR	09/10/2015	091015A1	09/11/2015	10.0	49.5
SV-16	136651	AIR	09/10/2015	091015A1	09/11/2015	10.0	171

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED METHOD REPORTING LIMIT
NA - NOT APPLICABLE OR AVAILABLE
MRL - METHOD REPORTING LIMIT

APPROVED BY: [signature]
DATE: 9/16/15

K PRIME, INC.

LABORATORY METHOD BLANK REPORT

METHOD BLANK ID: B091415A1
SAMPLE TYPE: AIR

BATCH ID: 091415A1
DATE ANALYZED: 09/14/2015

METHOD: VOC'S IN AIR
REFERENCE: EPA METHOD TO 15 (GC-MS-SCAN)

		PPB (V/V)		µg/cu. m	
COMPOUND NAME	CAS NO.	MRL	SAMPLE CONC	MRL	SAMPLE CONC
BENZENE	71-43-2	0.500	ND	1.60	ND
TOLUENE	108-88-3	0.500	ND	1.88	ND
ETHYLBENZENE	100-41-4	0.500	ND	2.17	ND
XYLENE (M+P)	1330-20-7	0.500	ND	2.17	ND
XYLENE (O)	95-47-6	0.500	ND	2.17	ND

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
MRL - METHOD REPORTING LIMIT
NA - NOT APPLICABLE OR AVAILABLE
µg/cu. m VALUES ARE CALCULATED FROM PPB RESULTS USING NORMAL TEMPERATURE AND PRESSURE (NPT).

K PRIME, INC.
LABORATORY QUALITY CONTROL REPORT

LAB CONTROL ID: L091415A1
LAB CONTROL DUPLICATE ID: D091415A1

SAMPLE TYPE: AIR
BATCH ID: 091415A1
DATE ANALYZED: 09/14/2015

METHOD: VOC'S IN AIR
REFERENCE: EPA METHOD TO 15 (GC-MS-SCAN)

COMPOUND NAME	SPIKE ADDED (PPB)	REPORTING LIMIT (PPB)	SAMPLE CONC (PPB)	SPIKE CONC (PPB)	SPIKE REC (%)	REC LIMITS (%)
1,1-DICHLOROETHENE	10.0	0.500	ND	7.46	75	60 - 140
TRICHLOROETHENE	10.0	0.500	ND	10.8	108	60 - 140
BENZENE	10.0	0.500	ND	7.01	70	60 - 140
TOLUENE	10.0	0.500	ND	8.98	90	60 - 140
TETRACHLOROETHENE	10.0	0.500	ND	12.4	124	60 - 140

COMPOUND NAME	SPIKE ADDED (PPB)	SPIKE DUP CONC (PPB)	SPIKE DUP REC (%)	RPD (%)	QC LIMITS RPD (%)	QC LIMITS REC (%)
1,1-DICHLOROETHENE	10.0	7.42	74	0.5	25	60 - 140
TRICHLOROETHENE	10.0	10.5	105	2.5	25	60 - 140
BENZENE	10.0	7.05	71	0.6	25	60 - 140
TOLUENE	10.0	8.83	88	1.7	25	60 - 140
TETRACHLOROETHENE	10.0	12.0	120	3.0	25	60 - 140

NOTES:
NA - NOT APPLICABLE OR AVAILABLE
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

K PRIME, INC.
LABORATORY QC REPORT

METHOD BLANK ID:	B091015A1
LAB CONTROL SAMPLE ID:	L091015A1
LAB CONTROL DUPLICATE ID:	D091015A1
BATCH ID:	091015A1

METHOD: TVH C2-C10 AS HEXANE
REFERENCE: EPA TO 3

SAMPLE TYPE:	AIR
UNITS:	PPM-V

METHOD BLANK

COMPOUNDNAME	REPORTING LIMIT	SAMPLE CONC
TVH	2.50	ND

ACCURACY (LAB CONTROL SAMPLE)

COMPOUNDNAME	EXPECTED CONC	MEASURED CONC	PERCENT RECOVERY	LIMITS (PERCENT)
TVH	167	186	111	60-140

PRECISION (LAB CONTROL DUPLICATE)

COMPOUNDNAME	SAMPLE RESULT	DUPLICATE RESULT	RPD (PERCENT)	LIMITS (PERCENT)
TVH	186	183	1.4	±30

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED METHOD REPORTING LIMIT
NA - NOT APPLICABLE OR AVAILABLE
TVH - TOTAL VOLATILE HYDROCARBONS

K PRIME, INC.
LABORATORY QC REPORT

METHOD BLANK ID:	B091015A1
LAB CONTROL SAMPLE ID:	L091015A1
LAB CONTROL DUPLICATE ID:	D091015A1
BATCH ID:	091015A1

METHOD: TVH C2-C10 AS HEXANE
REFERENCE: EPA TO 3

SAMPLE TYPE:	AIR
UNITS:	MG/M3

METHOD BLANK

COMPOUNDNAME	REPORTING LIMIT	SAMPLE CONC
TVH	8.79	ND

ACCURACY (LAB CONTROL SAMPLE)

COMPOUNDNAME	EXPECTED CONC	MEASURED CONC	PERCENT RECOVERY	LIMITS (PERCENT)
TVH	586	653	111	60-140

PRECISION (LAB CONTROL DUPLICATE)

COMPOUNDNAME	SAMPLE RESULT	DUPLICATE RESULT	RPD (PERCENT)	LIMITS (PERCENT)
TVH	653	644	1.4	±30

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED METHOD REPORTING LIMIT
NA - NOT APPLICABLE OR AVAILABLE
TVH - TOTAL VOLATILE HYDROCARBONS

K PRIME, INC.
LABORATORY QC REPORT

METHOD BLANK ID: B091015A1
LAB CONTROL SAMPLE ID: L091015A1
LAB CONTROL DUPLICATE ID: D091015A1
BATCH ID: 091015A1

METHOD: 1,1-DIFLUOROETHANE
REFERENCE: EPA TO 3

SAMPLE TYPE: AIR
UNITS: PPM -V/V

METHOD BLANK

COMPOUND NAME	REPORTING LIMIT	SAMPLE CONC
1,1-DIFLUOROETHANE	10.0	ND

ACCURACY (LAB CONTROL SAMPLE)

COMPOUND NAME	EXPECTED CONC	MEASURED CONC	PERCENT RECOVERY	LIMITS (PERCENT)
1,1-DIFLUOROETHANE	10000	10200	102	60-140

PRECISION (LAB CONTROL DUPLICATE)

COMPOUND NAME	SAMPLE RESULT	DUPLICATE RESULT	RPD (PERCENT)	LIMITS (PERCENT)
1,1-DIFLUOROETHANE	10200	10100	1.0	±30

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED METHOD REPORTING LIMIT
NA - NOT APPLICABLE OR AVAILABLE

K PRIME, INC.

CHAIN OF CUSTODY RECORD

CONSULTING ANALYTICAL CHEMISTS 3621 Westwind Blvd., Santa Rosa, CA 95403 PHONE: (707) 527-7574 FAX: (707) 527-7879

ERAS

Client/Project ID	Address/Phone	ANALYSES	KPI Project No.
14-003-05	1533 B Street, Hayward 510-247-988-5 x302	TPH-G/BTEX 8015 / DFA - Leak Compound	4730
Project Location: 106-110 Hegenberger	Client Project No.: 14-003-05		☐ EDF Log Code:
Contact: Andrew	Sampler (Signature):		Global ID

Sample Identification No.	Date	Time	Lab Sample No.	Type of Sample	No. of Containers	TPH-G/BTEX 8015	DFA - Leak Compound	Expected Turnaround Time	Remarks
SV-15	9-10-15	8:36	S-267	Soil Vapor	1	X	X	5 day	KPI# 136650
SV-16	9-10-15	9:57	S-358	Soil Vapor	1	X	X	5 day	136651

Relinquished by: (Signature) 9-10-15		Received by: (Signature)	Date / Time
Relinquished by: (Signature) FED EX 8430 9384 1839		Received by: (Signature) ZAC MAYER KPI	Date 9/11/15 Time 10:24
Relinquished by: (Signature)		Received by: (Signature)	Date / Time
Disposal Method			
Disposed by: (Signature)	Date / Time		

White Copy : Accompanies Samples
Yellow Copy : Sampler