

Environmental Restoration Services

Site Investigations * Fuel Tank Closures and Installations * Site Remediation * Regulatory Reporting

Alameda County Health Care Services
Department of Environmental Health
1131 Harbor Bay Parkway, Second Floor
Alameda, CA 94502

December 14, 2005

Alameda County

DEC 28 2005

Attn: Mr. Barney Chan; Haz Mat. Specialist for : Precision Lofts
1549 32nd Street, Oakland, CA

Re: Investigative Report
1549 32nd Street, Oakland, CA

1.0 INTRODUCTION

This Report has been prepared by Environmental Restoration Services (ERS), to comply with the request of the Alameda County Environmental Health Services Agency (ACEHS) to investigate the presence of contaminants of concern (COC) at the subject site and at off-site locations

This Report describes the investigation for the presence of petroleum hydrocarbons, metals (Cr,Pb,Ni) and Volatile Organic Compounds (VOCs) in the shallow soil (four and nine foot depths) and groundwater (16 and 25 foot depths) at 15 approved sample locations. The investigation also included soil gas sampling for the presence of VOCs in the shallow soil (3.5 feet depth) at two additional approved sample locations.

Additionally, ERS sampled the imported soil used to replace the hydrocarbon impacted soil removed in 2003 and 2004. A total of 9 soil samples were recovered from 5 random locations at depths of 4 and 9 feet below floor surface within the backfilled excavations.

1.1 Site Location

The site is located in a residential/commercial district of Oakland, California on property at 32nd Street (Figure 1).

1.2 Background and Previous Subsurface Work

In April of 2003, a Phase II Environmental Assessment (ESA) was performed at the site by Eras Environmental (Eras) of Hayward, California, and according to the ESA, elevated levels of TPH as hydraulic oil were found in the shallow soil (above ten feet) and groundwater, in the vicinity of subsurface open top vaults that once contained heated oil used to heat treat metal parts. Additionally, elevated level methylene chloride was found in one soil sample and elevated levels of copper and nickel were found in three of the groundwater grab samples.

Between October of 2003 and January of 2004, ERS excavated and disposed of the TPH as hydraulic oil (TPH/ho) impacted soil from two locations within the subject site building and one on-site location outside the building. Largest interior excavation was excavated to the dimensions of approximately 75' by 75' to an average depth of 10 feet. The second interior excavation was excavated to the dimensions of approximately 45' by 50' to an average depth of 9 feet. The exterior excavation was excavated to the dimensions of approximately 20' by 50' to an average depth of 10 feet. The excavations generated approximately 4275.38 tons of material that was disposed of as non-hazardous petroleum contaminated soil.

During the course of these excavation activities, Eras recovered excavation sidewall and bottom soil samples. The analytical results of the excavation perimeter sampling indicated that soil along the eastern sidewall (below the building foundation and possibly beyond) contained concentrations of TPH/ho above 1000 mg/kg.

2.0 SITE DESCRIPTION

2.1 Site Description and Vicinity Map

The site is located on the southeast corner of Hannah Street and 32nd Street. A vicinity map is given in Figure 1, which includes information on adjacent streets.

2.2 Depth to Groundwater and Assumption of Gradient Direction

Based on the static groundwater found during the September 2003/January 2004 excavation, depth to groundwater at the site is approximately ten feet below ground surface (bgs.) and, based on the April 2003 Eras investigation, is assumed to flow in a west-northwestern direction.

3.0 INVESTIGATIVE SCOPE OF WORK

The investigative scope of work was comprised of soil and groundwater sampling and soil-vapor sampling at on-site and off-site locations. Fifteen soil borings (B-1 through B-14 and B-18) and two soil vapor emplacements were advanced at the locations shown in Figure 2. These sample locations, proposed in the Eras Investigative Workplan and modified in the ACEHS letter approving the Eras Workplan.

3.1 Reconnaissance Boring Installation, Soil and Groundwater Sampling

Prior to mobilization of the drilling and sampling equipment on-site, all associated equipment was thoroughly cleaned to removed all soil, oil, grease, mud, tar, etc. The cleaning process consisted of non-TSP cleaning of the drilling/sampling equipment, a clean water rinse and a final clean water rinse. Before drilling each boring and recovering each sample, all down-hole equipment was cleaned.

3.1.1 Soil Boring and Soil Sampling Procedures

On April 21, 2005, soil borings B-1, B-2, B-4 through B-6 and B-8 through B-13, were advanced by Vironex of San Leandro, Ca., using a 2.5 inch diameter vibra-push, continuous core sampler to a total depth of 15 feet.

Soil samples were cut from the sample tubes at each boring at approximate depths of 4 feet and 9 feet bgs.. An approximate six inch section of sample tube was cut from the five foot sample tube at the desired location. The sample tube ends were capped with Teflon sheet and plastic caps. The soil samples were then immediately stored on crushed ice and maintained at a constant 4 degrees Celsius. The samples were then transported to North State Labs (NSL) of South San Francisco, CA, under proper chain-of-custody procedures.

On April 22, 2005, soil borings B-3, B-7, B-14 and B-18, were advanced by Vironex using a 2.5 inch diameter vibra-push, continuous core sampler to a total depth of 15 feet. Soil samples were cut from the sample tubes at approximate depths of 4 feet and 9 feet bgs.. An approximate six inch section of sample tube was cut from the five foot sample tube at the desired location. The sample tube ends were capped with Teflon sheet and plastic caps. The soil samples were then immediately stored on crushed ice and maintained at a constant 4 degrees Celsius. The samples were then transported to NSL under proper chain-of-custody procedures.

3.1.2 Groundwater Grab Sampling Procedures

On April 21, 2005, after completion of drilling, a new, one-inch diameter well screen and blank casing was inserted into each boring. A groundwater grab sample was recovered from borings B-1, B-2, B-4 through B-6 and B-8 through B-13. However, due to the slow re-charge of groundwater into borings B-1, B-2, B-8, B11, and B-12, only four, 40ml VOAs were collected. These borings had not yielded enough groundwater to fill the one liter amber sample container needed for the Total Recoverable Petroleum Hydrocarbon (TRPH) analysis. The groundwater samples were recovered from a disposable bailer and were emptied into sample containers obtained directly from the analytical laboratory. An effort was made to minimize exposure of the sample to air. The groundwater samples were immediately stored on crushed ice and maintained at a constant 4 degrees Celsius. The samples were transported to NSL under proper chain-of-custody procedures.

On April 22, 2005, groundwater grab samples for TRPH analysis were recovered from borings B-2, B-8, B11, and B-12 at the 15 foot depth. Boring B-1 would only yield one half of the one liter needed for TRPH analysis by the end of the day. Additionally, borings B-3, B-7, B-14 and B-18, advanced on April 22nd, had a new, one inch diameter well screen and blank casing inserted into each boring. A groundwater grab sample recovered borings B-3, B-7 and B-18. Boring B-14 did not yield enough groundwater to sample.

On April 22, 2005, after completion of the groundwater grab sampling from all borings except B-1 and B-14, the one inch casings were removed from all the borings. At each boring, Vironex then advanced a 1.5 inch diameter Hydropunch to an approximate depth of 25 feet bgs.. Groundwater samples were recovered from borings B-3, B-4, B-5, B-6, B-7, B-8, B-9, B-10, B-11, B-13, B-18. Borings B-12 would not yield a groundwater sample at 25 feet bgs. and because of it's location in the neighboring residential backyard and

requirement of only two continuous days of encroachment with the property owner, the boring was backfilled without recovering a groundwater sample at 25 foot depth. Additionally, boring B-2 would not yield enough groundwater for a sample at 25 foot depth. The Hydropunch unit was left in the boring until April 25th.

All groundwater samples were collected using a disposable bailer and were emptied into sample containers obtained directly from the analytical laboratory. An effort was made to minimize exposure of the sample to air. The groundwater samples were immediately stored on crushed ice and maintained at a constant 4 degrees Celsius. The samples were transported to NSL under proper chain-of-custody procedures.

All of the borings, with the exception of borings B-1, B-2 and B-14, were then backfilled with a neat cement grout.

On April 25, 2005, a full liter of groundwater sample was recovered from boring B-1 and a full liter and four 40ml VOAs of groundwater sample was recovered from boring B-14 at the 15 foot depth. The one inch casings were removed from these borings and at each of these borings Vironex advanced a second 1.5 inch diameter Hydropunch to an approximate depth of 25 feet bgs.. Groundwater samples were then recovered from borings B-1, B-14 and B-2. All groundwater samples were collected using a disposable bailer and were emptied into sample containers obtained directly from the analytical laboratory. An effort was made to minimize exposure of the sample to air. The groundwater samples were immediately stored on crushed ice and maintained at a constant 4 degrees Celsius. The samples were transported to NSL under proper chain-of-custody procedures.

The remaining three borings were then backfilled with a neat cement grout. Care was taken to collect all excess water resulting from the sampling and cleaning procedures. The excess water was contained in a pre-labeled 55-gallon drum on-site pending receipt of laboratory analyses.

3.1.3 Laboratory Analyses

Analytical testing of the soil and groundwater samples were as presented to ERS on a spread sheet approved by ACEHS.

Soil samples recovered from borings B-1, B-4, B-5, B-7, B-8, B-10, B-14 and B-18 were analyzed for Total Extractable Petroleum Hydrocarbons (TEPH) with silica gel treatment (EPA Method A5520B).

Soil samples recovered from borings B-1, B-2, B-4, B-5, B-7, B-8, B-11, B-14 and B-18 were analyzed for Total Petroleum Hydrocarbons as gasoline (TPH/g).

Additionally, soil samples recovered from the borings B-1, B-2, B-4, B-5 and B-10 were analyzed for VOCs (EPA Method 8260B).

Analytical results of the soil samples indicated a maximum concentration of TEPH of 120 parts per million (ppm) (sample B-1@9') and a maximum concentration of TPH/g of 3.4 ppm. Analytical results for VOCs in the soil samples indicated trace amounts of BTEX and MTBE.

Groundwater samples recovered from borings B-1 through B-14, and B-18 (with the exception of B-3) at the 16 foot level were analyzed for TEPH with silica gel treatment (EPA Method A5520B) and TPH/g (EPA Method 8020B) with the exception of B-2.

Groundwater samples recovered from borings B-1, B-2, B-4, B-5 and B-10 at the 16 foot level were analyzed for VOCs (EPA Method 8260B).

Additionally, groundwater samples recovered from borings B-1, B-4, B-5 and B-14 at the 16 foot level were analyzed for nickel, chromium and copper. (EPA Method E200.8).

Groundwater samples recovered from borings B-1 through B-14, and B-18 (with the exception of B-12) at the 25 foot level were analyzed for TEPH with silica gel treatment (EPA Method A5520B) and TPH/g (EPA Method 8020B).

Analytical results of the groundwater samples collected at the 16 foot depth indicated no concentrations of TEPH above the 10 ppm detection limit and a maximum concentration of THP/g of 1640 ppb (B-18-GW). Additionally, analytical results for VOCs in of the groundwater samples collected at the 16 foot depth from borings B-1, B-2, B-4, B-5 and B-10 indicated trace concentrations of Toluene, Ethylbenzene, Xylenes and MTBE.

Analytical results of the groundwater samples collected from borings B-1, B-4, B-5 and B-14 at the 16 foot level and analyzed for nickel, chromium and copper indicated a maximum concentration for nickel of 212 ppb, 112 ppb of copper and 51.3 ppb of chromium (all from boring B-14).

Analytical results of the groundwater samples collected at the 25 foot depth indicated no concentrations of TEPH above the 10 ppm detection limit and a maximum concentration of THP/g of 853 ppb (B-4-GW25').

3.2 Soil Sampling of Import Soil Used for Excavation Backfill.

On April 22, 2005, five soil borings, Import-1 through Import-5, were advanced by using a 2.5 inch diameter vibra-push, continuous core sampler to a total depth of up to 8 feet.

Soil samples were cut from the sample tubes at each boring at approximate depths of 4 feet and 8 feet bgs. for borings Import-1 through Import-3, approximate depths of 3 feet and 6 feet bgs. for boring Import-4 and at an approximate depth of 3 feet bgs. for boring Import-5 . An approximate six inch section of sample tube was cut from the five foot sample tube at the desired location. The sample tube ends were capped with Teflon sheet and plastic caps. The soil samples were then immediately stored on crushed ice and maintained at a constant 4 degrees Celsius. The samples were then transported to North State Labs (NSL) of South San Francisco, CA, under proper chain-of-custody procedures.

3.2.1 Laboratory Analyses

All of the soil samples recovered from the five soil borings, Import-1 through Import-5 were analyzed for Fuel Scan (CATFS) for Diesel, Hydraulic Oil, Kerosene and Motor Oils. Additionally, all of the soil samples recovered from the five soil borings, Import-1 through Import-5 were analyzed for THP as gasoline and BTEX (SF8020F) with the exception of sample "Import-1@4".

All of the soil samples recovered from the five soil borings were also analyzed for LUFT 5 Metals (cadmium, chromium, lead, nickel and zinc) (SW6020), with the exception of sample "Import-3@8".

Soil samples "Import-2@8" and "Import-4@3" were also analyzed for VOCs (8260B).

Analytical results of the soil samples indicated a maximum concentration of 29 ppm within the "Fuel Scan" range (Hydraulic Oil, "Import-1@4") and no concentrations of VOCs, TPH/g and BTEX above the detection limit.

Analytical results of the soil samples for metals indicated a maximum concentration of 2.4 ppm for Cadmium (Import-2@4'), 44.8 ppm for Chromium (Import-2@8'), 51.2 ppm for Lead (Import-4@3'), 33.7 ppm for Nickel (Import-4@3'), and 76.6 ppm for Zinc (Import-4@3').

3.3 Reconnaissance Vapor Probe Emplacement and Soil Vapor Sampling

On May 25, 2005, soil vapor probes B-5SV and B-1SV were emplaced using an AMS Gas Vapor Probe Kit to a total depth of 3.5 feet. The soil vapor probe emplacement locations are shown in Figure 2.

3.3.1 Vapor Probe Emplacement, Leak Testing and Purging

At each sample location, prior to installation, the soil gas probes were decontaminated by a 3-stage wash and rinse (wash with non-phosphate detergent, rinse with tap water, rinse with distilled water). Then new Teflon tubing was attached to each probe head and run through the probe rod.

Each probe was then driven into the clay soil using a slide hammer, until the probe sample screen was at a depth of approximately 3.5 feet bgs.. The probe rod was then pulled up to expose the probe sample screen to the soil. The rods were then left for approximately 20 minutes each, allowing for subsurface conditions to equilibrate.

At each sample probe, a summa purge castister was then attached to the sample tube. Probe head and tube for emplacement B-5SV was placed under approximately 20 inches of mercury (" Hg) vacuum and allowed to purge for five minutes. Probe head and tube for emplacement B-1SV was placed under approximately 18.5 " Hg vacuum and allowed to purge for five minutes. After five minutes, sample probe B-5SV had lost only 1.5 "Hg and sample probe B-1SV had lost only 1.75 "Hg, indicating no leaks were occurring in the sampling systems.

3.3.2 Soil Vapor Sampling

At each sample probe, the three way valve between the Summa purge canister and the Summa sample canister was valve closed to the one liter Summa sample canister, and valve open to the purge canister, to purge the sample tube. Once purged, the three way valve between the Summa purge canister and the Summa sample canister was valve open to the one liter Summa sample canister, equipped with a filter and two hour flow rate meter. After sample collection, the sample containers were transported to Air Toxics Ltd. of Folsom, California, under proper chain-of-custody procedures.

3.3.3 Laboratory Analyses

The following analyses were performed by Air Toxics on the soil vapor samples B-5 SV and B-1SV.

VOCs (EPA Method TO-15 humidified)

Analytical results of both samples indicated trace amounts of Toluene, Ethylbenzene, Xylenes, 1,2,4-Trimethylbenzene, Acetone, Methyl Ethyl Ketone, 1, 4-Dichlorobenzene, Hexane, Heptane, 4 Ethyltoluene and 2,2,4 Trimethylpentane. Additionally, sample B-5SV (only) indicated trace amounts of Benzene, Vinyl Chloride and 1,3 Butadiene. Additionally, sample B-1SV (only) indicated trace amounts of Ethanol.

Of the VOCs detected by the lab in both samples, all appeared to be below the Risk-Based Screening Levels for the constituents listed in Figure E-2a (Soil Gas Screening Levels for Protection of Indoor Air Quality, Emissions from Impacted Soil) or Figure E-2b (Soil Gas Screening Levels for Protection of Indoor Air Quality, Emissions from Impacted Groundwater).

4.0 CONCLUSIONS and RECOMMENDATIONS

On April 21 and 22, 2005, 15 soil borings were advanced by Vironex using a 2.5 inch diameter vibra-push, continuous core sampler to a total depth of 15 feet. Soil samples were recovered from each boring at approximate depths of 4 feet and 9 feet bgs.. Analytical results of the soil samples indicated a maximum concentrations of TEPH, TPH/g and VOCs were all below the San Francisco Bay Regional Water Quality Control Board's Risk-Based Screening Levels (SF-RWQCB RBSL), Table B-1, for surface soil, above three meters in depth, where impacted groundwater is not a current or potential drinking water resource.

On April 21, 22 and 22, 2005, groundwater grab samples were recovered from all of the 15 soil borings at approximate depths of 15 and 25 feet bgs., with the exception of boring B-12 at 25 feet bgs.. Analytical results of the groundwater samples tested for TEPH and VOCs indicated maximum concentrations below the SF-RWQCB RBSL, Table F-1 (components for groundwater screening levels where impacted groundwater is not a current or potential drinking water resource).

Analytical results of the groundwater samples tested for TPH/g, indicated maximum concentrations below the SF-RWQCB RBSL, Table F-1, with the exceptions of samples B-18GW (1640 ppb) and B-4GW@ 25' (853 ppb).

Analytical results of the groundwater samples tested for total dissolved chromium indicated maximum concentrations below the SF-RWQCB RBSL, Table 5. Analytical results of the groundwater samples tested for total dissolved copper indicated maximum concentrations below the Oakland Tier 1 RBSLs, Table 5. Analytical results of the groundwater samples tested for total dissolved nickel indicated maximum concentrations below the Oakland Tier 1 RBSLs, Table 5, with the exception of sample B-14GW (212 ppb).

Analytical results of the import soil samples tested for Fuel Scan, TPH/g and VOCs indicated no concentration above the SF-RWQCB RBSLs Table B-1. Analytical results of the import soil samples tested for LUFT 5 metals indicated an average concentration that was below the Oakland Tier 1 RBSLs, Table 5.

Analytical results of the vapor samples indicted concentrations of VOCs to be below the SF-RWQCB RBSLs for the constituents listed in Figure E-2a (Soil Gas Screening Levels for Protection of Indoor Air Quality, Emissions from Impacted Soil) or Figure E-2b (Soil Gas Screening Levels for Protection of Indoor Air Quality, Emissions from Impacted Groundwater).

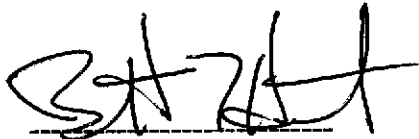
ERS believes that the subject site has been adequately investigated for the contaminates of concern.

ERS recommends that a deed restriction be placed on the subject properties that would prohibit the use of groundwater, or any excavations into groundwater, without oversight from and prior workplan approval by Alameda County Environmental Health staff.

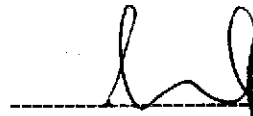
6.0 LIMITATIONS

The observations presented in this report are professional opinions based on the scope of work outlined herein. This report was prepared in accordance with generally accepted standards of environmental geological practice in California at the time this investigation was performed. The observations presented apply to site conditions existing at the time of our study and cannot apply to site conditions or changes of which we are not aware or have not had the opportunity to evaluate. This investigation was conducted solely to evaluate environmental conditions of the soil and groundwater with respect to target contaminants identified during previous work. Evaluation of the geologic conditions at the site for the purpose of this investigation is made from a limited number of observation points. Subsurface conditions may vary away from the data points available. Additional work, including subsurface investigation, can reduce the inherent uncertainties associated with this type of investigation. It must be recognized that any conclusions drawn from these data rely on the integrity of the information available at the time of investigation and that a full and complete determination of environmental contamination and risks cannot be made.

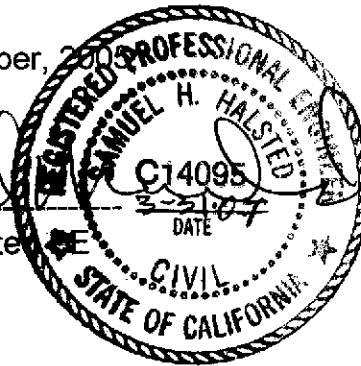
Respectfully submitted this 14th day of December, 2007



Bennett T. Halsted
Project Manager

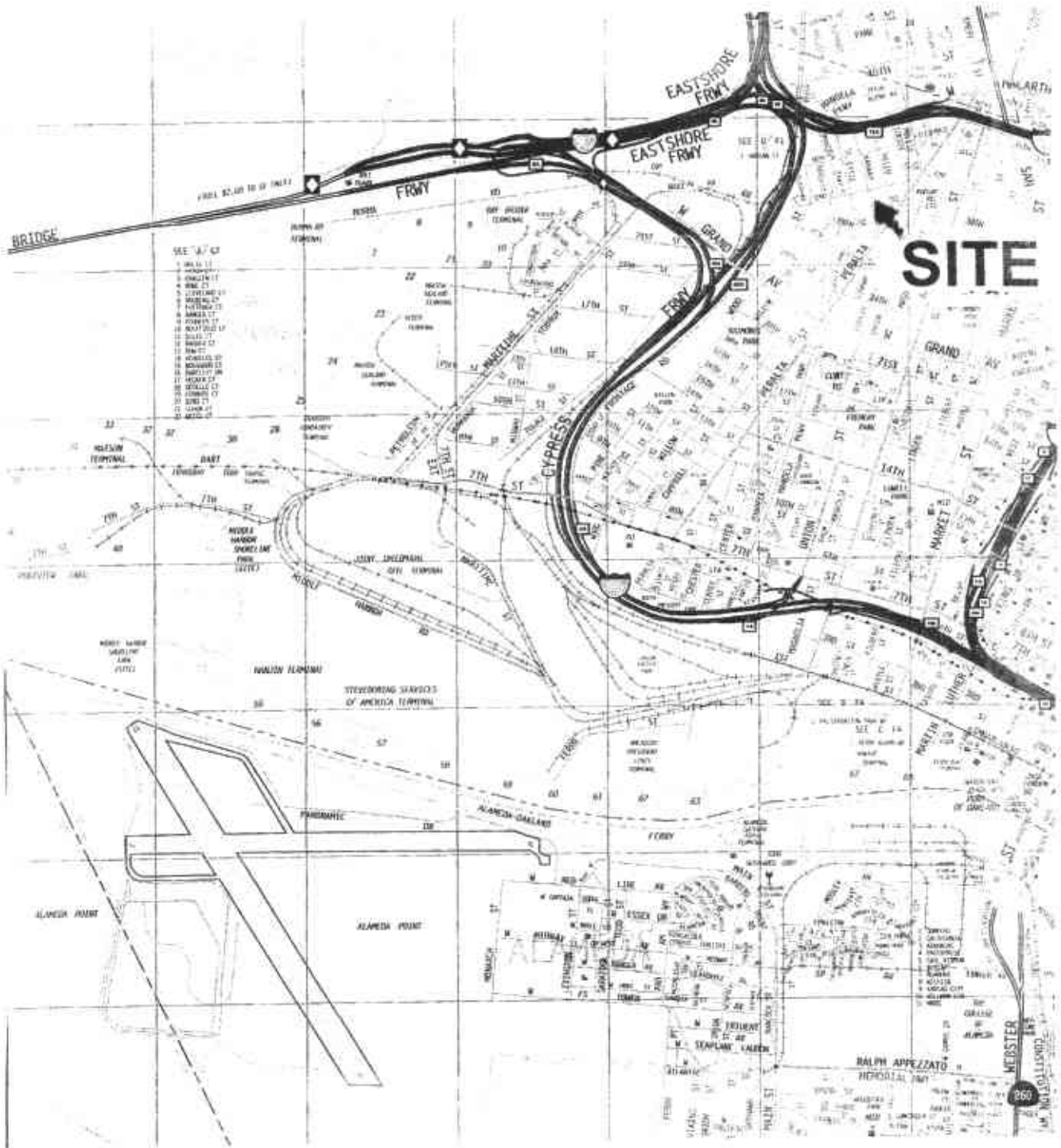


Samuel H. Halsted
C.E. 14095





FIGURES



VICINITY MAP
 1549 32nd Street., Oakland, CA

DATE 8/27/05	SCALE: 1"= 2700'	BY:
<i>Environmental Restoration Services</i>		
500 Santa Cruz Ave., Menlo Park, CA 94025		FIGURE 1

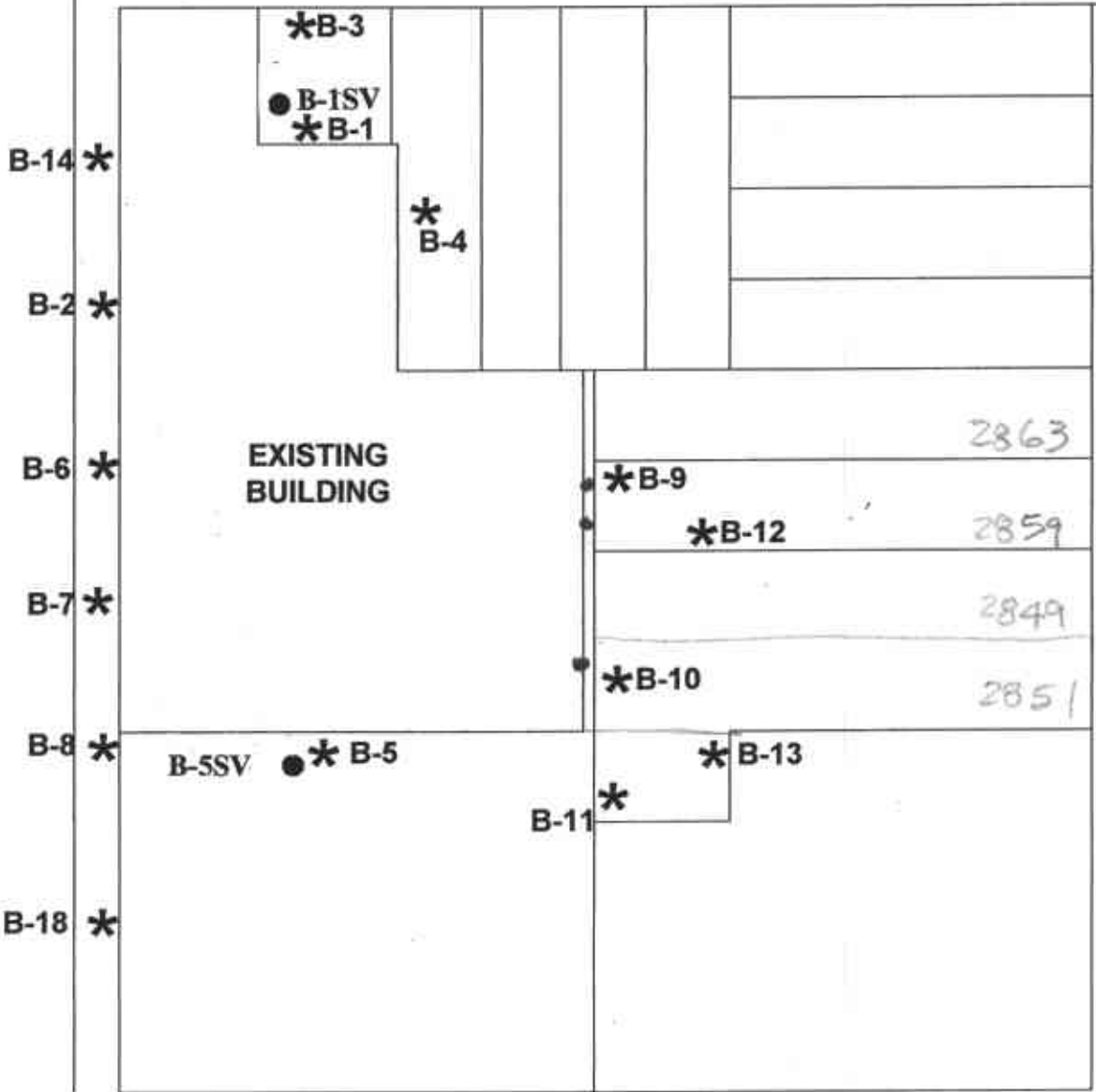
32ND STREET

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SITE PLAN		
1549 32nd Street, Oakland, CA		
DATE 5/20/05	SCALE: 1"= 50'	BY:
<i>Environmental Restoration Services</i>		FIGURE 2
500 Santa Cruz Ave., Menlo Park, CA 94025		



BORING LOGS

Environmental Restoration Services

Boring Log

Location: 1549 32nd St., Oakland Date: 4/22/05 Boring No.: B-3

Drill Method: 2" Geo-Probe Logged By: BTH Page 1 of 1

Sample No.	Blow Count	Sample Type	Location	Depth	USGS	Lithology Description	Well/Boring Completion Detail
						Asphalt/ baserock	
					CH	High plasticity CLAY. 20% silt /fine sand. Stiff, moist. V. dark brown (10YR 2/2). No odor.	
B3@4'	N/A	Soil		5'	CL	Medium plasticity silty CLAY. 30% silt/fine sand. Med. stiff, moist. dark yellowish brown (10YR3/4). No odor.	
B3@9'	N/A	Soil		10'	CL	Low plasticity silty CLAY. 40% silt/fine sand. soft, v. moist. Yellowish brown (10YR5/4). No odor.	
					ML	Low plasticity sandy SILT. 40% fine sand, 10% clay soft, v. moist. Light yellowish brown (10YR6/4). No odor.	
B3-GW		Ground water		15'	CL	Low plasticity silty CLAY. 40% silt/fine sand. soft, v. moist. Yellowish brown (10YR5/4). No odor.	
B3@16'	N/A	Soil				BOH	
				20'			
B3-GW @ 25'		Ground water		25'			
				30'			

Portland Cement Sanitary Seal



**CHAIN-OF-CUSTODY
ANALYTICAL RESULTS
Boring Soil and
Groundwater Samples
4/21/05**



North State Labs

815 Dubuque Avenue, South San Francisco, CA 94080
Phone: (650) 266-4563 Fax: (650) 266-4560

05-0604

Chain of Custody / Request for Analysis
Lab Job No.: _____ Page / of 3

Client: <u>Environmental Restoration Services</u>	Report to: <u>ERS</u>	Phone: <u>650-325-3216</u>	Turnaround Time
Mailing Address: <u>500 Santa Cruz Ave Menlo Park Ca 94025</u>	Billing to: <u>ERS</u>	Fax: <u>650-325-3238</u>	<u>Normal</u>
		email: <u>envinest@aol.com</u>	Date: <u>4/21/05</u>
		PO#	Sampler: <u>B. Haldsted</u>

Project / Site Address / Global ID:					Analysis Requested				EDF <input type="checkbox"/>		PDF <input type="checkbox"/>	
<u>1549 32nd St., Oakland</u>					<u>TPH</u> <u>TPHA</u> <u>TCOS</u> <u>Ni/Cu</u> <u>As/Pb</u> <small>(Full Scan) (1015m) (7000) (SARs)</small>							
Sample ID	Sample Type	Container No. / Type	Pres.	Sampling Date / Time	TPH	TPHA	TCOS	Ni/Cu	As/Pb	Field Point ID		
1 B4e4'	Soil	(1) 15" plastic	on ice	4/21/05 / 9:30	X	X	X					
2 B4e9'				7:31	X	X	X					
26 B9e4'				8:10						Hold		
27 B9e9'				8:17						Hold		
28 B12e4'				8:29						Hold		
29 B12e9'				8:36						Hold		
3 B10e4'				8:50	X		X					
4 B10e9'				9:02	X		X					
30 B13e4'				9:27						Hold		
31 B13e9'				9:34						Hold		
5 B11e4'				9:52			X					
6 B11e9'				10:01			X					
7 B5e4'				10:33	X	X	X					
8 B5e9'				10:45	X	X	X					

Relinquished by: <u>[Signature]</u>	Date: <u>4/21/05</u>	Time: <u>5:30</u>	Received by: <u>[Signature]</u>	Lab Comments/ Hazards
Relinquished by:	Date:	Time:	Received by:	
Relinquished by:	Date:	Time:	Received by:	



North State Labs

815 Dubuque Avenue, South San Francisco, CA 94080
Phone: (650) 266-4563 Fax: (650) 266-4560

05-0604

Chain of Custody / Request for Analysis
Lab Job No.: _____ Page 2 of 3

Client: <u>Environmental Restoration Services</u>	Report to: <u>ERS</u>	Phone: <u>650-325-3216</u>	Turnaround Time <u>normal</u>
Mailing Address: <u>500 Santa Cruz Menlo Park Ca 94025</u>	Billing to: <u>ERS</u>	Fax: <u>650-325-3238</u>	
		email: <u>enviro@nsl.com</u>	Date: <u>4/21/05</u>
		PO#	Sampler: <u>B. Halsted</u>

Project / Site Address / Global ID: <u>1549 32nd St. Oakland.</u>					Analysis Requested							EDF <input type="checkbox"/>	PDF <input type="checkbox"/>	Field Point ID		
Sample ID	Sample Type	Container No. / Type	Pres.	Sampling Date / Time	<u>fuel, sea, base</u> <u>TEPH</u> <u>with silica gel can</u>	<u>TALG</u> <u>BOISM</u>	<u>TLG</u> <u>TLG</u>	<u>Ni/Cr</u> <u>W</u> <u>(1000 ppm)</u>	<u>IPAH</u> <u>STEF</u> <u>STEF</u>	<u>NO</u>	<u>NO</u>	<u>NO</u>				
9 <u>B8Q4'</u>	<u>soil</u>	<u>(1) 1.5" Plast.</u>	<u>on ice</u>	<u>4/21/05 / 11:3</u>	X	X										
10 <u>B8Q9'</u>				<u>11:28</u>	X	X										
32 <u>B6Q4'</u>				<u>11:43</u>												<u>Hold</u>
33 <u>B6Q9'</u>				<u>11:57</u>												<u>Hold</u>
11 <u>B2Q4'</u>				<u>12:40</u>			X	X								
12 <u>B2Q9'</u>				<u>12:56</u>			X	X								
13 <u>B1Q4'</u>				<u>12</u>	X	X	X									
14 <u>B1Q9'</u>				<u>12</u>	X	X	X									
15 <u>B9-GW</u>	<u>water</u>	<u>(2) 1 liter Am (4) 40ml Vac</u>	<u>HST</u>	<u>3:15</u>	X	X										
16 <u>B10-GW</u>				<u>3:26</u>	X	X	X									
17 <u>B13-GW</u>				<u>3:33</u>	X	X										
18 <u>B5-GW</u>				<u>3:49</u>	X	X	X	X								<u>Filter metals w/ 0.45 micron</u>
19 <u>B6-GW</u>				<u>4:10</u>	X	X										
20 <u>B4-GW</u>				<u>4:21</u>	X	X	X	X								<u>Filter metals w/ 0.45 micron</u>

Relinquished by: <u>[Signature]</u>	Date: <u>4/21/05</u>	Time: <u>5:30</u>	Received by: <u>[Signature]</u>	Lab Comments/ Hazards
Relinquished by:	Date:	Time:	Received by:	
Relinquished by:	Date:	Time:	Received by:	



North State Labs

815 Dubuque Avenue, South San Francisco, CA 94080
Phone: (650) 266-4563 Fax: (650) 266-4560

05-0504

Chain of Custody / Request for Analysis
Lab Job No.: _____ Page 3 of 3

Client: Environmental Restoration Services	Report to: ERS	Phone: 650-325-3214	Turnaround Time
Mailing Address: 500 Santa Cruz Ave Marin Park CA 94025	Billing to: ERS	Fax: 650-325-3238	Normal
		email: envrest@ad.com	Date: 4/21/05
		PO#	Sampler: B. [Signature]

Project / Site Address / Global ID:					Analysis Requested		EDF <input type="checkbox"/>		PDF <input type="checkbox"/>		Field Point ID	
1549 32nd St., Oakland												
Sample ID	Sample Type	Container No. / Type	Pres.	Sampling Date / Time	PCOB	TRH	TRH	TRH	TRH	TRH	TRH	TRH
21 B8-GW	water	(4) 90-ml VOA	on ice HCE	4/21/05 4:30								
22 B2-GW	water			4:35								
23 B1-GW				4:41								
24 B11-GW				4:48								
25 B12-GW				4:53								

Relinquished by: [Signature]	Date: 4/21/05	Time: 5:30	Received by: [Signature]	Lab Comments/ Hazards
Relinquished by:	Date:	Time:	Received by:	
Relinquished by:	Date:	Time:	Received by:	



C E R T I F I C A T E O F A N A L Y S I S

Lab Number: 05-0604
Client: Env. Restoration Services
Project: 1549 32ND ST OAKLAND

Date Reported: 05/10/2005

Fuel Scan by 8015B with Silica Gel Treatment
(8015B Modified for Motor Oil,Hydraulic Oil and Kerosene /
client's request)
Gasoline Range Hydrocarbons by Method 8015B
TEPH by method 5520B with silica gel treatment
Dissolved metals by ICP-MS Method 200.8

Table with 6 columns: Analyte, Method, Result, Unit, Date Sampled, Date Analyzed. Contains two main sample sections (05-0604-01 and 05-0604-02) listing various hydrocarbons and their analysis results.



C E R T I F I C A T E O F A N A L Y S I S

Lab Number: 05-0604
Client: Env. Restoration Services
Project: 1549 32ND ST OAKLAND

Date Reported: 05/10/2005

Fuel Scan by 8015B with Silica Gel Treatment
(8015B Modified for Motor Oil, Hydraulic Oil and Kerosene /
client's request)
Gasoline Range Hydrocarbons by Method 8015B
TEPH by method 5520B with silica gel treatment
Dissolved metals by ICP-MS Method 200.8

Analyte	Method	Result	Unit	Date Sampled	Date Analyzed
Sample: 05-0604-02	Client ID: B4@9'			04/21/2005	SO
1,4-Dichlorobenzene	SW8260B	ND<5	UG/KG		05/02/2005
2,2-Dichloropropane	SW8260B	ND<5	UG/KG		05/02/2005
2-Butanone	SW8260B	ND<50	UG/KG		05/02/2005
2-Chlorotoluene	SW8260B	ND<5	UG/KG		05/02/2005
2-Hexanone	SW8260B	ND<50	UG/KG		05/02/2005
4-Chlorotoluene	SW8260B	ND<5	UG/KG		05/02/2005
4-Methyl-2-pentanone	SW8260B	ND<50	UG/KG		05/02/2005
Acetone	SW8260B	ND<250	UG/KG		05/02/2005
Acetonitrile	SW8260B	ND<250	UG/KG		05/02/2005
Acrylonitrile	SW8260B	ND<250	UG/KG		05/02/2005
Benzene	SW8260B	ND<5	UG/KG		05/02/2005
Bromobenzene	SW8260B	ND<5	UG/KG		05/02/2005
Bromochloromethane	SW8260B	ND<25	UG/KG		05/02/2005
Bromodichloromethane	SW8260B	ND<5	UG/KG		05/02/2005
Bromoform	SW8260B	ND<5	UG/KG		05/02/2005
Bromomethane	SW8260B	ND<25	UG/KG		05/02/2005
Carbon tetrachloride	SW8260B	ND<5	UG/KG		05/02/2005
Chlorobenzene	SW8260B	ND<10	UG/KG		05/02/2005
Chloroethane	SW8260B	ND<25	UG/KG		05/02/2005
Chloroform	SW8260B	ND<5	UG/KG		05/02/2005
Chloromethane	SW8260B	ND<50	UG/KG		05/02/2005



C E R T I F I C A T E O F A N A L Y S I S

Lab Number: 05-0604
Client: Env. Restoration Services
Project: 1549 32ND ST OAKLAND

Date Reported: 05/10/2005

Fuel Scan by 8015B with Silica Gel Treatment
(8015B Modified for Motor Oil,Hydraulic Oil and Kerosene /
client's request)
Gasoline Range Hydrocarbons by Method 8015B
TEPH by method 5520B with silica gel treatment
Dissolved metals by ICP-MS Method 200.8

Table with 6 columns: Analyte, Method, Result, Unit, Date Sampled, Date Analyzed. Rows include various hydrocarbons and solvents like Dibromochloromethane, Ethylbenzene, and Xylene.



C E R T I F I C A T E O F A N A L Y S I S

Lab Number: 05-0604
Client: Env. Restoration Services
Project: 1549 32ND ST OAKLAND
Date Reported: 05/10/2005

Fuel Scan by 8015B with Silica Gel Treatment
(8015B Modified for Motor Oil,Hydraulic Oil and Kerosene /
client's request)
Gasoline Range Hydrocarbons by Method 8015B
TEPH by method 5520B with silica gel treatment
Dissolved metals by ICP-MS Method 200.8

Table with 6 columns: Analyte, Method, Result, Unit, Date Sampled, Date Analyzed. Rows include various hydrocarbons and their results, such as Bromochloromethane (ND<25 UG/KG) and Chloroethane (ND<25 UG/KG).



C E R T I F I C A T E O F A N A L Y S I S

Lab Number: 05-0604
Client: Env. Restoration Services
Project: 1549 32ND ST OAKLAND
Date Reported: 05/10/2005

Fuel Scan by 8015B with Silica Gel Treatment
(8015B Modified for Motor Oil,Hydraulic Oil and Kerosene /
client's request)
Gasoline Range Hydrocarbons by Method 8015B
TEPH by method 5520B with silica gel treatment
Dissolved metals by ICP-MS Method 200.8

Table with 6 columns: Analyte, Method, Result, Unit, Date Sampled, Date Analyzed. Contains 20 rows of chemical analysis data including compounds like 1,1,1,2-Tetrachloroethane and 1,1,1-Trichloroethane.



C E R T I F I C A T E O F A N A L Y S I S

Lab Number: 05-0604
Client: Env. Restoration Services
Project: 1549 32ND ST OAKLAND
Date Reported: 05/10/2005

Fuel Scan by 8015B with Silica Gel Treatment
(8015B Modified for Motor Oil, Hydraulic Oil and Kerosene /
client's request)
Gasoline Range Hydrocarbons by Method 8015B
TEPH by method 5520B with silica gel treatment
Dissolved metals by ICP-MS Method 200.8

Analyte	Method	Result	Unit	Date Sampled	Date Analyzed
Sample: 05-0604-04	Client ID: B10@9'			04/21/2005	SO
1-Chlorotoluene	SW8260B	ND<5	UG/KG		04/26/2005
2-Hexanone	SW8260B	ND<50	UG/KG		04/26/2005
3-Chlorotoluene	SW8260B	ND<5	UG/KG		04/26/2005
4-Methyl-2-pentanone	SW8260B	ND<50	UG/KG		04/26/2005
Acetone	SW8260B	ND<250	UG/KG		04/26/2005
Acetonitrile	SW8260B	ND<250	UG/KG		04/26/2005
Acrylonitrile	SW8260B	ND<250	UG/KG		04/26/2005
Benzene	SW8260B	ND<5	UG/KG		04/26/2005
Bromobenzene	SW8260B	ND<5	UG/KG		04/26/2005
Bromochloromethane	SW8260B	ND<25	UG/KG		04/26/2005
Bromodichloromethane	SW8260B	ND<5	UG/KG		04/26/2005
Bromoform	SW8260B	ND<5	UG/KG		04/26/2005
Bromomethane	SW8260B	ND<25	UG/KG		04/26/2005
Carbon tetrachloride	SW8260B	ND<5	UG/KG		04/26/2005
Chlorobenzene	SW8260B	ND<10	UG/KG		04/26/2005
Chloroethane	SW8260B	ND<25	UG/KG		04/26/2005
Chloroform	SW8260B	ND<5	UG/KG		04/26/2005
Chloromethane	SW8260B	ND<50	UG/KG		04/26/2005
Dibromochloromethane	SW8260B	ND<5	UG/KG		04/26/2005
Dibromomethane	SW8260B	ND<5	UG/KG		04/26/2005
Dichlorodifluoromethane	SW8260B	ND<25	UG/KG		04/26/2005



C E R T I F I C A T E O F A N A L Y S I S

Lab Number: 05-0604
Client: Env. Restoration Services
Project: 1549 32ND ST OAKLAND
Date Reported: 05/10/2005

Fuel Scan by 8015B with Silica Gel Treatment
(8015B Modified for Motor Oil,Hydraulic Oil and Kerosene /
client's request)
Gasoline Range Hydrocarbons by Method 8015B
TEPH by method 5520B with silica gel treatment
Dissolved metals by ICP-MS Method 200.8

Table with 6 columns: Analyte, Method, Result, Unit, Date Sampled, Date Analyzed. Contains multiple rows for different samples and analytes like n-Propylbenzene, o-Xylene, etc.



C E R T I F I C A T E O F A N A L Y S I S

Lab Number: 05-0604
Client: Env. Restoration Services
Project: 1549 32ND ST OAKLAND

Date Reported: 05/10/2005

Fuel Scan by 8015B with Silica Gel Treatment
(8015B Modified for Motor Oil,Hydraulic Oil and Kerosene /
client's request)
Gasoline Range Hydrocarbons by Method 8015B
TEPH by method 5520B with silica gel treatment
Dissolved metals by ICP-MS Method 200.8

Table with 6 columns: Analyte, Method, Result, Unit, Date Sampled, Date Analyzed. Rows include various hydrocarbons and solvents like 1,2,3-Trichlorobenzene, 1,2,3-Trichloropropane, etc., with results mostly ND<5.



C E R T I F I C A T E O F A N A L Y S I S

Lab Number: 05-0604
Client: Env. Restoration Services
Project: 1549 32ND ST OAKLAND

Date Reported: 05/10/2005

Fuel Scan by 8015B with Silica Gel Treatment
(8015B Modified for Motor Oil,Hydraulic Oil and Kerosene /
client's request)
Gasoline Range Hydrocarbons by Method 8015B
TEPH by method 5520B with silica gel treatment
Dissolved metals by ICP-MS Method 200.8

Table with 6 columns: Analyte, Method, Result, Unit, Date Sampled, Date Analyzed. Rows include Benzene, Bromobenzene, Bromochloromethane, Bromodichloromethane, Bromoform, Bromomethane, Carbon tetrachloride, Chlorobenzene, Chloroethane, Chloroform, Chloromethane, Dibromochloromethane, Dibromomethane, Dichlorodifluoromethane, Ethylbenzene, Hexachlorobutadiene, Isobutanol, Isopropylbenzene, Methyl-tert-butyl ether, Methylene chloride, Naphthalene.



C E R T I F I C A T E O F A N A L Y S I S

Lab Number: 05-0604
Client: Env. Restoration Services
Project: 1549 32ND ST OAKLAND
Date Reported: 05/10/2005

Fuel Scan by 8015B with Silica Gel Treatment
(8015B Modified for Motor Oil,Hydraulic Oil and Kerosene /
client's request)
Gasoline Range Hydrocarbons by Method 8015B
TEPH by method 5520B with silica gel treatment
Dissolved metals by ICP-MS Method 200.8

Table with 6 columns: Analyte, Method, Result, Unit, Date Sampled, Date Analyzed. Rows include various hydrocarbons like Dichloroethane, Bromofluorobenzene, Dibromofluoromethane, Toluene, Styrene, etc., with their respective results and units.



C E R T I F I C A T E O F A N A L Y S I S

Lab Number: 05-0604
Client: Env. Restoration Services
Project: 1549 32ND ST OAKLAND

Date Reported: 05/10/2005

Fuel Scan by 8015B with Silica Gel Treatment
(8015B Modified for Motor Oil,Hydraulic Oil and Kerosene /
client's request)
Gasoline Range Hydrocarbons by Method 8015B
TEPH by method 5520B with silica gel treatment
Dissolved metals by ICP-MS Method 200.8

Table with 6 columns: Analyte, Method, Result, Unit, Date Sampled, Date Analyzed. Contains data for Gasoline Range Organics and various hydrocarbons.



C E R T I F I C A T E O F A N A L Y S I S

Lab Number: 05-0604
Client: Env. Restoration Services
Project: 1549 32ND ST OAKLAND

Date Reported: 05/10/2005

Fuel Scan by 8015B with Silica Gel Treatment
(8015B Modified for Motor Oil,Hydraulic Oil and Kerosene /
client's request)
Gasoline Range Hydrocarbons by Method 8015B
TEPH by method 5520B with silica gel treatment
Dissolved metals by ICP-MS Method 200.8

Table with 6 columns: Analyte, Method, Result, Unit, Date Sampled, Date Analyzed. Contains a list of chemical analytes and their corresponding test results.



C E R T I F I C A T E O F A N A L Y S I S

Lab Number: 05-0604
Client: Env. Restoration Services
Project: 1549 32ND ST OAKLAND

Date Reported: 05/10/2005

Fuel Scan by 8015B with Silica Gel Treatment
(8015B Modified for Motor Oil, Hydraulic Oil and Kerosene /
client's request)
Gasoline Range Hydrocarbons by Method 8015B
TEPH by method 5520B with silica gel treatment
Dissolved metals by ICP-MS Method 200.8

Analyte	Method	Result	Unit	Date Sampled	Date Analyzed
Sample: 05-0604-08	Client ID: B509'			04/21/2005	SO
Dibromomethane	SW8260B	ND<5	UG/KG		04/26/2005
Dichlorodifluoromethane	SW8260B	ND<25	UG/KG		04/26/2005
Ethylbenzene	SW8260B	ND<5	UG/KG		04/26/2005
Hexachlorobutadiene	SW8260B	ND<5	UG/KG		04/26/2005
Isobutanol	SW8260B	ND<250	UG/KG		04/26/2005
Isopropylbenzene	SW8260B	ND<5	UG/KG		04/26/2005
Methyl-tert-butyl ether	SW8260B	ND<5	UG/KG		04/26/2005
Methylene chloride	SW8260B	ND<50	UG/KG		04/26/2005
Naphthalene	SW8260B	ND<10	UG/KG		04/26/2005
SUR-1,2-Dichloroethane-d4	SW8260B	103	PERCENT		04/26/2005
SUR-4-Bromofluorobenzene	SW8260B	89	PERCENT		04/26/2005
SUR-Dibromofluoromethane	SW8260B	113	PERCENT		04/26/2005
SUR-Toluene-d8	SW8260B	109	PERCENT		04/26/2005
Styrene	SW8260B	ND<5	UG/KG		04/26/2005
Tetrachloroethene	SW8260B	ND<5	UG/KG		04/26/2005
Toluene	SW8260B	ND<5	UG/KG		04/26/2005
Trichloroethene	SW8260B	ND<5	UG/KG		04/26/2005
Trichlorofluoromethane	SW8260B	ND<25	UG/KG		04/26/2005
Vinyl chloride	SW8260B	ND<25	UG/KG		04/26/2005
Xylene, Isomers m & p	SW8260B	ND<10	UG/KG		04/26/2005
cis-1,2-Dichloroethene	SW8260B	ND<5	UG/KG		04/26/2005



C E R T I F I C A T E O F A N A L Y S I S

Lab Number: 05-0604
Client: Env. Restoration Services
Project: 1549 32ND ST OAKLAND

Date Reported: 05/10/2005

Fuel Scan by 8015B with Silica Gel Treatment
(8015B Modified for Motor Oil,Hydraulic Oil and Kerosene /
client's request)
Gasoline Range Hydrocarbons by Method 8015B
TEPH by method 5520B with silica gel treatment
Dissolved metals by ICP-MS Method 200.8

Table with 7 columns: Analyte, Method, Result, Unit, Date Sampled, Date Analyzed. It lists three sample groups (05-0604-08, 05-0604-09, 05-0604-10) and their respective analytes and results.



C E R T I F I C A T E O F A N A L Y S I S

Lab Number: 05-0604
Client: Env. Restoration Services
Project: 1549 32ND ST OAKLAND

Date Reported: 05/10/2005

Fuel Scan by 8015B with Silica Gel Treatment
(8015B Modified for Motor Oil,Hydraulic Oil and Kerosene /
client's request)
Gasoline Range Hydrocarbons by Method 8015B
TEPH by method 5520B with silica gel treatment
Dissolved metals by ICP-MS Method 200.8

Analyte	Method	Result	Unit	Date Sampled	Date Analyzed
Sample: 05-0604-11 Client ID: B2@4'				04/21/2005	SO
1,1,1,2-Tetrachloroethane	SW8260B	ND<5	UG/KG		05/02/2005
1,1,1-Trichloroethane	SW8260B	ND<5	UG/KG		05/02/2005
1,1,2,2-Tetrachloroethane	SW8260B	ND<5	UG/KG		05/02/2005
1,1,2-Trichloroethane	SW8260B	ND<5	UG/KG		05/02/2005
1,1-Dichloroethane	SW8260B	ND<5	UG/KG		05/02/2005
1,1-Dichloroethene	SW8260B	ND<5	UG/KG		05/02/2005
1,1-Dichloropropene	SW8260B	ND<5	UG/KG		05/02/2005
1,2,3-Trichlorobenzene	SW8260B	ND<5	UG/KG		05/02/2005
1,2,3-Trichloropropane	SW8260B	ND<5	UG/KG		05/02/2005
1,2,4-Trichlorobenzene	SW8260B	ND<5	UG/KG		05/02/2005
1,2,4-Trimethylbenzene	SW8260B	ND<5	UG/KG		05/02/2005
1,2-Dibromoethane	SW8260B	ND<5	UG/KG		05/02/2005
1,2-Dichlorobenzene	SW8260B	ND<5	UG/KG		05/02/2005
1,2-Dichloroethane	SW8260B	ND<5	UG/KG		05/02/2005
1,2-Dichloropropane	SW8260B	ND<5	UG/KG		05/02/2005
1,3,5-Trimethylbenzene	SW8260B	ND<5	UG/KG		05/02/2005
1,3-Dichlorobenzene	SW8260B	ND<5	UG/KG		05/02/2005
1,3-Dichloropropane	SW8260B	ND<5	UG/KG		05/02/2005
1,4-Dichlorobenzene	SW8260B	ND<5	UG/KG		05/02/2005
2,2-Dichloropropane	SW8260B	ND<5	UG/KG		05/02/2005
2-Butanone	SW8260B	ND<50	UG/KG		05/02/2005



C E R T I F I C A T E O F A N A L Y S I S

Lab Number: 05-0604
Client: Env. Restoration Services
Project: 1549 32ND ST OAKLAND
Date Reported: 05/10/2005

Fuel Scan by 8015B with Silica Gel Treatment
(8015B Modified for Motor Oil,Hydraulic Oil and Kerosene /
client's request)
Gasoline Range Hydrocarbons by Method 8015B
TEPH by method 5520B with silica gel treatment
Dissolved metals by ICP-MS Method 200.8

Analyte	Method	Result	Unit	Date Sampled	Date Analyzed
Sample: 05-0604-11	Client ID: B2@4'			04/21/2005	SO
2-Chlorotoluene	SW8260B	ND<5	UG/KG		05/02/2005
2-Hexanone	SW8260B	ND<50	UG/KG		05/02/2005
4-Chlorotoluene	SW8260B	ND<5	UG/KG		05/02/2005
4-Methyl-2-pentanone	SW8260B	ND<50	UG/KG		05/02/2005
Acetone	SW8260B	ND<250	UG/KG		05/02/2005
Acetonitrile	SW8260B	ND<250	UG/KG		05/02/2005
Acrylonitrile	SW8260B	ND<250	UG/KG		05/02/2005
Benzene	SW8260B	ND<5	UG/KG		05/02/2005
Bromobenzene	SW8260B	ND<5	UG/KG		05/02/2005
Bromochloromethane	SW8260B	ND<25	UG/KG		05/02/2005
Bromodichloromethane	SW8260B	ND<5	UG/KG		05/02/2005
Bromoform	SW8260B	ND<5	UG/KG		05/02/2005
Bromomethane	SW8260B	ND<25	UG/KG		05/02/2005
Carbon tetrachloride	SW8260B	ND<5	UG/KG		05/02/2005
Chlorobenzene	SW8260B	ND<10	UG/KG		05/02/2005
Chloroethane	SW8260B	ND<25	UG/KG		05/02/2005
Chloroform	SW8260B	ND<5	UG/KG		05/02/2005
Chloromethane	SW8260B	ND<50	UG/KG		05/02/2005
Dibromochloromethane	SW8260B	ND<5	UG/KG		05/02/2005
Dibromomethane	SW8260B	ND<5	UG/KG		05/02/2005
Dichlorodifluoromethane	SW8260B	ND<25	UG/KG		05/02/2005



C E R T I F I C A T E O F A N A L Y S I S

Lab Number: 05-0604
Client: Env. Restoration Services
Project: 1549 32ND ST OAKLAND

Date Reported: 05/10/2005

Fuel Scan by 8015B with Silica Gel Treatment
(8015B Modified for Motor Oil, Hydraulic Oil and Kerosene /
client's request)
Gasoline Range Hydrocarbons by Method 8015B
TEPH by method 5520B with silica gel treatment
Dissolved metals by ICP-MS Method 200.8

Analyte	Method	Result	Unit	Date Sampled	Date Analyzed
Sample: 05-0604-11	Client ID: B2@4'			04/21/2005	SO
Ethylbenzene	SW8260B	ND<5	UG/KG		05/02/2005
Hexachlorobutadiene	SW8260B	ND<5	UG/KG		05/02/2005
Isobutanol	SW8260B	ND<250	UG/KG		05/02/2005
Isopropylbenzene	SW8260B	ND<5	UG/KG		05/02/2005
Methyl-tert-butyl ether	SW8260B	ND<5	UG/KG		05/02/2005
Methylene chloride	SW8260B	ND<50	UG/KG		05/02/2005
Naphthalene	SW8260B	ND<10	UG/KG		05/02/2005
SUR-1,2-Dichloroethane-d4	SW8260B	116	PERCENT		05/02/2005
SUR-4-Bromofluorobenzene	SW8260B	100	PERCENT		05/02/2005
SUR-Dibromofluoromethane	SW8260B	110	PERCENT		05/02/2005
SUR-Toluene-d8	SW8260B	98	PERCENT		05/02/2005
Styrene	SW8260B	ND<5	UG/KG		05/02/2005
Tetrachloroethene	SW8260B	ND<5	UG/KG		05/02/2005
Toluene	SW8260B	ND<5	UG/KG		05/02/2005
Trichloroethene	SW8260B	ND<5	UG/KG		05/02/2005
Trichlorofluoromethane	SW8260B	ND<25	UG/KG		05/02/2005
Vinyl chloride	SW8260B	ND<25	UG/KG		05/02/2005
Xylene, Isomers m & p	SW8260B	ND<10	UG/KG		05/02/2005
cis-1,2-Dichloroethene	SW8260B	ND<5	UG/KG		05/02/2005
cis-1,3-Dichloropropene	SW8260B	ND<5	UG/KG		05/02/2005
n-Butylbenzene	SW8260B	ND<5	UG/KG		05/02/2005



C E R T I F I C A T E O F A N A L Y S I S

Lab Number: 05-0604
Client: Env. Restoration Services
Project: 1549 32ND ST OAKLAND

Date Reported: 05/10/2005

Fuel Scan by 8015B with Silica Gel Treatment
(8015B Modified for Motor Oil,Hydraulic Oil and Kerosene /
client's request)
Gasoline Range Hydrocarbons by Method 8015B
TEPH by method 5520B with silica gel treatment
Dissolved metals by ICP-MS Method 200.8

Table with columns: Analyte, Method, Result, Unit, Date Sampled, Date Analyzed. Contains data for three samples (05-0604-11, 05-0604-12, 05-0604-13) listing various hydrocarbons and their results.



C E R T I F I C A T E O F A N A L Y S I S

Lab Number: 05-0604
Client: Env. Restoration Services
Project: 1549 32ND ST OAKLAND
Date Reported: 05/10/2005

Fuel Scan by 8015B with Silica Gel Treatment
(8015B Modified for Motor Oil, Hydraulic Oil and Kerosene /
client's request)
Gasoline Range Hydrocarbons by Method 8015B
TEPH by method 5520B with silica gel treatment
Dissolved metals by ICP-MS Method 200.8

Analyte	Method	Result	Unit	Date Sampled	Date Analyzed
Sample: 05-0604-13	Client ID: B1@4'			04/21/2005	SO
1,2,4-Trimethylbenzene	SW8260B	ND<5	UG/KG		04/26/2005
1,2-Dibromoethane	SW8260B	ND<5	UG/KG		04/26/2005
1,2-Dichlorobenzene	SW8260B	ND<5	UG/KG		04/26/2005
1,2-Dichloroethane	SW8260B	ND<5	UG/KG		04/26/2005
1,2-Dichloropropane	SW8260B	ND<5	UG/KG		04/26/2005
1,3,5-Trimethylbenzene	SW8260B	ND<5	UG/KG		04/26/2005
1,3-Dichlorobenzene	SW8260B	ND<5	UG/KG		04/26/2005
1,3-Dichloropropane	SW8260B	ND<5	UG/KG		04/26/2005
1,4-Dichlorobenzene	SW8260B	ND<5	UG/KG		04/26/2005
2,2-Dichloropropane	SW8260B	ND<5	UG/KG		04/26/2005
2-Butanone	SW8260B	ND<50	UG/KG		04/26/2005
2-Chlorotoluene	SW8260B	ND<5	UG/KG		04/26/2005
2-Hexanone	SW8260B	ND<50	UG/KG		04/26/2005
4-Chlorotoluene	SW8260B	ND<5	UG/KG		04/26/2005
4-Methyl-2-pentanone	SW8260B	ND<50	UG/KG		04/26/2005
Acetone	SW8260B	ND<250	UG/KG		04/26/2005
Acetonitrile	SW8260B	ND<250	UG/KG		04/26/2005
Acrylonitrile	SW8260B	ND<250	UG/KG		04/26/2005
Benzene	SW8260B	ND<5	UG/KG		04/26/2005
Bromobenzene	SW8260B	ND<5	UG/KG		04/26/2005
Bromochloromethane	SW8260B	ND<25	UG/KG		04/26/2005



C E R T I F I C A T E O F A N A L Y S I S

Lab Number: 05-0604
Client: Env. Restoration Services
Project: 1549 32ND ST OAKLAND

Date Reported: 05/10/2005

Fuel Scan by 8015B with Silica Gel Treatment
(8015B Modified for Motor Oil,Hydraulic Oil and Kerosene /
client's request)
Gasoline Range Hydrocarbons by Method 8015B
TEPH by method 5520B with silica gel treatment
Dissolved metals by ICP-MS Method 200.8

Table with 6 columns: Analyte, Method, Result, Unit, Date Sampled, Date Analyzed. Rows include various chemical compounds like Bromodichloromethane, Chlorobenzene, and SUR-1,2-Dichloroethane-d4.



C E R T I F I C A T E O F A N A L Y S I S

Lab Number: 05-0604
Client: Env. Restoration Services
Project: 1549 32ND ST OAKLAND

Date Reported: 05/10/2005

Fuel Scan by 8015B with Silica Gel Treatment
(8015B Modified for Motor Oil, Hydraulic Oil and Kerosene /
client's request)
Gasoline Range Hydrocarbons by Method 8015B
TEPH by method 5520B with silica gel treatment
Dissolved metals by ICP-MS Method 200.8

Analyte	Method	Result	Unit	Date Sampled	Date Analyzed
Sample: 05-0604-13	Client ID: B1@4'			04/21/2005	SO
SUR-Toluene-d8	SW8260B	108	PERCENT		04/26/2005
Styrene	SW8260B	ND<5	UG/KG		04/26/2005
Tetrachloroethene	SW8260B	ND<5	UG/KG		04/26/2005
Toluene	SW8260B	ND<5	UG/KG		04/26/2005
Trichloroethene	SW8260B	ND<5	UG/KG		04/26/2005
Trichlorofluoromethane	SW8260B	ND<25	UG/KG		04/26/2005
Vinyl chloride	SW8260B	ND<25	UG/KG		04/26/2005
Xylene, Isomers m & p	SW8260B	ND<10	UG/KG		04/26/2005
cis-1,2-Dichloroethene	SW8260B	ND<5	UG/KG		04/26/2005
cis-1,3-Dichloropropene	SW8260B	ND<5	UG/KG		04/26/2005
n-Butylbenzene	SW8260B	ND<5	UG/KG		04/26/2005
n-Propylbenzene	SW8260B	ND<5	UG/KG		04/26/2005
o-Xylene	SW8260B	ND<5	UG/KG		04/26/2005
sec-Butylbenzene	SW8260B	ND<5	UG/KG		04/26/2005
tert-Butylbenzene	SW8260B	ND<5	UG/KG		04/26/2005
trans-1,2-Dichloroethene	SW8260B	ND<5	UG/KG		04/26/2005
trans-1,3-Dichloropropene	SW8260B	ND<5	UG/KG		04/26/2005
TEPH with silica gel treatment	A5520B	ND<50	MG/KG		04/27/2005
Gasoline Range Organics	SW8020F	ND<500	UG/KG		05/05/2005



C E R T I F I C A T E O F A N A L Y S I S

Lab Number: 05-0604
Client: Env. Restoration Services
Project: 1549 32ND ST OAKLAND

Date Reported: 05/10/2005

Fuel Scan by 8015B with Silica Gel Treatment
(8015B Modified for Motor Oil,Hydraulic Oil and Kerosene /
client's request)
Gasoline Range Hydrocarbons by Method 8015B
TEPH by method 5520B with silica gel treatment
Dissolved metals by ICP-MS Method 200.8

Table with 6 columns: Analyte, Method, Result, Unit, Date Sampled, Date Analyzed. Contains 20 rows of chemical analysis data including compounds like 1,1,1,2-Tetrachloroethane and 2-Butanone.



C E R T I F I C A T E O F A N A L Y S I S

Lab Number: 05-0604
Client: Env. Restoration Services
Project: 1549 32ND ST OAKLAND

Date Reported: 05/10/2005

Fuel Scan by 8015B with Silica Gel Treatment
(8015B Modified for Motor Oil,Hydraulic Oil and Kerosene /
client's request)
Gasoline Range Hydrocarbons by Method 8015B
TEPH by method 5520B with silica gel treatment
Dissolved metals by ICP-MS Method 200.8

Analyte	Method	Result	Unit	Date Sampled	Date Analyzed
Sample: 05-0604-14	Client ID: B1@9'			04/21/2005	SO
2-Chlorotoluene	SW8260B	ND<5	UG/KG		04/26/2005
2-Hexanone	SW8260B	ND<50	UG/KG		04/26/2005
4-Chlorotoluene	SW8260B	ND<5	UG/KG		04/26/2005
4-Methyl-2-pentanone	SW8260B	ND<50	UG/KG		04/26/2005
Acetone	SW8260B	ND<250	UG/KG		04/26/2005
Acetonitrile	SW8260B	ND<250	UG/KG		04/26/2005
Acrylonitrile	SW8260B	ND<250	UG/KG		04/26/2005
Benzene	SW8260B	ND<5	UG/KG		04/26/2005
Bromobenzene	SW8260B	ND<5	UG/KG		04/26/2005
Bromochloromethane	SW8260B	ND<25	UG/KG		04/26/2005
Bromodichloromethane	SW8260B	ND<5	UG/KG		04/26/2005
Bromoform	SW8260B	ND<5	UG/KG		04/26/2005
Bromomethane	SW8260B	ND<25	UG/KG		04/26/2005
Carbon tetrachloride	SW8260B	ND<5	UG/KG		04/26/2005
Chlorobenzene	SW8260B	ND<10	UG/KG		04/26/2005
Chloroethane	SW8260B	ND<25	UG/KG		04/26/2005
Chloroform	SW8260B	ND<5	UG/KG		04/26/2005
Chloromethane	SW8260B	ND<50	UG/KG		04/26/2005
Dibromochloromethane	SW8260B	ND<5	UG/KG		04/26/2005
Dibromomethane	SW8260B	ND<5	UG/KG		04/26/2005
Dichlorodifluoromethane	SW8260B	ND<25	UG/KG		04/26/2005



C E R T I F I C A T E O F A N A L Y S I S

Lab Number: 05-0604
Client: Env. Restoration Services
Project: 1549 32ND ST OAKLAND

Date Reported: 05/10/2005

Fuel Scan by 8015B with Silica Gel Treatment
(8015B Modified for Motor Oil, Hydraulic Oil and Kerosene /
client's request)
Gasoline Range Hydrocarbons by Method 8015B
TEPH by method 5520B with silica gel treatment
Dissolved metals by ICP-MS Method 200.8

Analyte	Method	Result	Unit	Date Sampled	Date Analyzed
Sample: 05-0604-14	Client ID: B1@9'			04/21/2005	SO
Ethylbenzene	SW8260B	ND<5	UG/KG		04/26/2005
Hexachlorobutadiene	SW8260B	ND<5	UG/KG		04/26/2005
Isobutanol	SW8260B	ND<250	UG/KG		04/26/2005
Isopropylbenzene	SW8260B	ND<5	UG/KG		04/26/2005
Methyl-tert-butyl ether	SW8260B	ND<5	UG/KG		04/26/2005
Methylene chloride	SW8260B	ND<50	UG/KG		04/26/2005
Naphthalene	SW8260B	99	PERCENT		04/26/2005
SUR-1,2-Dichloroethane-d4	SW8260B	92	PERCENT		04/26/2005
SUR-4-Bromofluorobenzene	SW8260B	111	PERCENT		04/26/2005
SUR-Dibromofluoromethane	SW8260B	108	PERCENT		04/26/2005
SUR-Toluene-d8	SW8260B	ND<5	UG/KG		04/26/2005
Styrene	SW8260B	ND<5	UG/KG		04/26/2005
Tetrachloroethene	SW8260B	ND<5	UG/KG		04/26/2005
Toluene	SW8260B	ND<5	UG/KG		04/26/2005
Trichloroethene	SW8260B	ND<5	UG/KG		04/26/2005
Trichlorofluoromethane	SW8260B	ND<25	UG/KG		04/26/2005
Vinyl chloride	SW8260B	ND<25	UG/KG		04/26/2005
Xylene, Isomers m & p	SW8260B	ND<10	UG/KG		04/26/2005
cis-1,2-Dichloroethene	SW8260B	ND<5	UG/KG		04/26/2005
cis-1,3-Dichloropropene	SW8260B	ND<5	UG/KG		04/26/2005
n-Butylbenzene	SW8260B	ND<5	UG/KG		04/26/2005



C E R T I F I C A T E O F A N A L Y S I S

Lab Number: 05-0604
Client: Env. Restoration Services
Project: 1549 32ND ST OAKLAND
Date Reported: 05/10/2005

Fuel Scan by 8015B with Silica Gel Treatment
(8015B Modified for Motor Oil, Hydraulic Oil and Kerosene /
client's request)
Gasoline Range Hydrocarbons by Method 8015B
TEPH by method 5520B with silica gel treatment
Dissolved metals by ICP-MS Method 200.8

Table with 6 columns: Analyte, Method, Result, Unit, Date Sampled, Date Analyzed. Contains data for samples 05-0604-14, 05-0604-15, 05-0604-16, and 05-0604-17.



C E R T I F I C A T E O F A N A L Y S I S

Lab Number: 05-0604
Client: Env. Restoration Services
Project: 1549 32ND ST OAKLAND

Date Reported: 05/10/2005

Fuel Scan by 8015B with Silica Gel Treatment
(8015B Modified for Motor Oil,Hydraulic Oil and Kerosene /
client's request)
Gasoline Range Hydrocarbons by Method 8015B
TEPH by method 5520B with silica gel treatment
Dissolved metals by ICP-MS Method 200.8

Table with 6 columns: Analyte, Method, Result, Unit, Date Sampled, Date Analyzed. Contains data for three samples (05-0604-18, 05-0604-19, 05-0604-20, 05-0604-21) and their respective analytes like Chromium, Copper, Nickel, TEPH, and Gasoline Range Organics.



C E R T I F I C A T E O F A N A L Y S I S

Lab Number: 05-0604
Client: Env. Restoration Services
Project: 1549 32ND ST OAKLAND

Date Reported: 05/10/2005

Fuel Scan by 8015B with Silica Gel Treatment
(8015B Modified for Motor Oil, Hydraulic Oil and Kerosene /
client's request)

Gasoline Range Hydrocarbons by Method 8015B
TEPH by method 5520B with silica gel treatment
Dissolved metals by ICP-MS Method 200.8

Analyte	Method	Result	Unit	Date Sampled	Date Analyzed
Sample: 05-0604-23	Client ID: B1-GW			04/21/2005	W
Gasoline Range Organics	SW8020F	ND<50	UG/L		04/26/2005
Sample: 05-0604-24	Client ID: B11-GW			04/21/2005	W
Gasoline Range Organics	SW8020F	ND<50	UG/L		04/26/2005
Sample: 05-0604-25	Client ID: B12-GW			04/21/2005	W
Gasoline Range Organics	SW8020F	ND<50	UG/L		04/26/2005



North State Labs

CA ELAP# 1753

815 Dubuque Avenue • South San Francisco, CA 94080 • (650) 266-4563 • FAX (650) 266-4560

C E R T I F I C A T E O F A N A L Y S I S

Quality Control/Quality Assurance

Lab Number: 05-0604
 Client: Env. Restoration Services
 Project: 1549 32ND ST OAKLAND

Date Reported: 05/10/2005

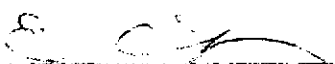
Fuel Scan by 8015B with Silica Gel Treatment
 (8015B Modified for Motor Oil, Hydraulic Oil and Kerosene /
 client's request)

Gasoline Range Hydrocarbons by Method 8015B
 TEPH by method 5520B with silica gel treatment
 Dissolved metals by ICP-MS Method 200.8

Analyte	Method	Reporting Unit Limit	Blank	MS/MSD Recovery	RPD
Gasoline Range Organics	SW8020F	50 UG/L	ND	105/106	1
TEPH with silica gel	A5520B	50 MG/KG	ND	96/88	9
TEPH with silica gel	A5520B	5 MG/L	ND	83/90	8
Gasoline Range Organics	SW8020F	500 UG/KG	ND	114/112	2
Chromium	E200.8	0.50 UG/L	ND<0.50	100/100	0
Nickel	E200.8	0.50 UG/L	ND<0.50	98/100	2
Gasoline Range Organics	SW8020F	500 UG/KG	ND	112/101	10

ELAP Certificate NO:1753

Reviewed and Approved


 Erin Cunniffe, Laboratory Director



**CHAIN-OF-CUSTODY
ANALYTICAL RESULTS
Boring Soil and
Groundwater Samples
4/22/05**



North State Labs

815 Dubuque Avenue, South San Francisco, CA 94080
Phone: (650) 286-4563 Fax: (650) 286-4560

05-064

Chain of Custody / Request for Analysis

Lab Job No.: _____ Page 2 of 3

Client: <u>Environmental Restoration Services</u>	Report to: <u>ERS</u>	Phone: <u>650-325-3216</u>	Turnaround Time <u>normal</u>
Mailing Address: <u>500 Santa Cruz Ave Munlo Park, Ca. 94025</u>	Billing to: <u>ERS</u>	Fax: <u>650-325-3238</u>	
		email: <u>enviro@nsl.com</u>	Date: <u>4-22-05</u>
		PO#	Sampler: <u>Babelster</u>

Project / Site Address / Global ID:					Analysis Requested		Ni/Cr/Co (7000) (series)		EDF <input type="checkbox"/>	PDF <input type="checkbox"/>	Field Point ID
Sample ID	Sample Type	Container No. / Type	Pres.	Sampling Date / Time	Free Soil w/ oil/grease get cleanup	TPH (BOLSA)					
13 B10-GWE25'	water	11 liter Amber 60ml VOA	HCT service	4/22/05 11:21	X	X					
14 B11-GWE25'				11:53	X	X					
15 B9-GWE25'				12:28	X	X					
16 B13-GWE25'				12:49	X	X					
17 B6-GWE25'				12:56	X	X					
18 B4-GWE25'				2:04	X	X					
19 B18-GW				2:45	X	X					
20 B7-GW				2:59	X	X					
31 B3-GW				5:10							Hold
24 B18-GWE25'				3:15	X	X					
25 B7-GWE25'				4:32	X	X					
26 B3-GWE25'				5:00	X	X					
27 B1-GW		11 liter Amber 60ml VOA	on ice	4/25/05 6:15	X	X	200	X			
28 B1-GWE25'		11 liter Amber 60ml VOA	HCT	11 6:35	X	X					

Relinquished by: <u>[Signature]</u>	Date: <u>4/25/05</u> Time: <u>1645</u>	Received by: <u>[Signature]</u>	Lab Comments/ Hazards
Relinquished by:	Date: _____ Time: _____	Received by:	
Relinquished by:	Date: _____ Time: _____	Received by:	



North State Labs

815 Dubuque Avenue, South San Francisco, CA 94080
Phone: (650) 266-4563 Fax: (650) 266-4560

05-064

Chain of Custody / Request for Analysis
Lab Job No.: _____ Page 1 of 3

Client: <u>Environmental Restoration Services</u>	Report to: <u>ERS</u>	Phone: <u>650-325-3216</u>	Turnaround Time <u>Normal</u>
Mailing Address: <u>500 Santa Cruz Ave Menlo Park Ca 94025</u>	Billing to: <u>ERS</u>	Fax: <u>650-325-5238</u>	
		email: <u>enviro@nsl.com</u>	Date: <u>4/22/05</u>
		PO#	Sampler: <u>B. Halsted</u>

Project / Site Address / Global ID:					Analysis		Requested		Field Point ID		
<u>1549 32nd St. Oakland</u>					Requested	Final Scan w/ 0.166gms Substrate cleaning	8260	TPH (9015M)			EDF <input type="checkbox"/>
Sample ID	Sample Type	Container No. / Type	Pres.	Sampling Date / Time							PDF <input type="checkbox"/>
1 <u>B1404'</u>	<u>Soil</u>	<u>(1) 1.5L plastic</u>	<u>on ice</u>	<u>4/22/05 0710</u>	X						
2 <u>B1404'</u>				<u>721</u>	X			X			
3 <u>B704'</u>				<u>752</u>	X			X			
4 <u>B709'</u>				<u>743</u>	X			X			
5 <u>B804'</u>				<u>805</u>	X			X			
6 <u>B1809'</u>				<u>807</u>	X			X			
29 <u>B304'</u>				<u>822</u>						Hold	
30 <u>B309'</u>				<u>822</u>						Hold	
7 <u>B8-GW</u>	<u>Water</u>	<u>(1) 1L Amber</u>	<u>on ice</u>	<u>822</u>	X			<u>467b</u>			
8 <u>B12-GW</u>				<u>835</u>	X			<u>467b</u>			
9 <u>B2-GW</u>				<u>843</u>	X			<u>467b</u>			
10 <u>B11-GW</u>				<u>856</u>	X			<u>467b</u>			
11 <u>B8-GW@25'</u>		<u>(1) 1L Amber</u>	<u>on ice</u>	<u>1030</u>	X			X			
12 <u>B5-GW@25'</u>		<u>(1) 1L Amber</u>	<u>on ice</u>	<u>1030</u>	X			X			

Relinquished by: <u>[Signature]</u>	Date: <u>4-22-05</u> Time: <u>1605</u>	Received by: <u>[Signature]</u>	Lab Comments/ Hazards
Relinquished by:	Date: _____ Time: _____	Received by:	
Relinquished by:	Date: _____ Time: _____	Received by:	



C E R T I F I C A T E O F A N A L Y S I S

Lab Number: 05-0614
Client: Env. Restoration Services
Project: 1549 32ND ST OAKLAND
Date Reported: 05/12/2005

Diesel, Motor Oil, Kerosene Range by 8015B with Silica Gel
TEPH by method 5520B with silica gel treatment
Gasoline Range Hydrocarbons by Method 8015B
Dissolved Ni,Cr,Cu by ICP-MS Method 200.8

Analyte	Method	Result	Unit	Date Sampled	Date Analyzed
Sample: 05-0614-01 Client ID: B14@4'				04/22/2005	SO
TEPH with silica gel treatment	A5520B	ND<50	MG/KG		04/28/2005
Gasoline Range Organics	SW8020F	ND<500	UG/KG		05/11/2005
Sample: 05-0614-02 Client ID: B14@9'				04/22/2005	SO
TEPH with silica gel treatment	A5520B	ND<50	MG/KG		04/28/2005
Gasoline Range Organics	SW8020F	ND<500	UG/KG		05/10/2005
Sample: 05-0614-03 Client ID: B7@4'				04/22/2005	SO
TEPH with silica gel treatment	A5520B	ND<50	MG/KG		04/28/2005
Gasoline Range Organics	SW8020F	ND<500	UG/KG		05/09/2005
Sample: 05-0614-04 Client ID: B7@9'				04/22/2005	SO
TEPH with silica gel treatment	A5520B	70	MG/KG		04/28/2005
Gasoline Range Organics	SW8020F	3440	UG/KG		05/09/2005
Sample: 05-0614-05 Client ID: B18@4'				04/22/2005	SO
TEPH with silica gel treatment	A5520B	ND<50	MG/KG		04/28/2005
Gasoline Range Organics	SW8020F	ND<500	UG/KG		05/09/2005

*Does not match pattern;**Result due to single peak



C E R T I F I C A T E O F A N A L Y S I S

Lab Number: 05-0614
Client: Env. Restoration Services
Project: 1549 32ND ST OAKLAND

Date Reported: 05/12/2005

Diesel, Motor Oil, Kerosene Range by 8015B with Silica Gel
TEPH by method 5520B with silica gel treatment
Gasoline Range Hydrocarbons by Method 8015B
Dissolved Ni,Cr,Cu by ICP-MS Method 200.8

Analyte	Method	Result	Unit	Date Sampled	Date Analyzed
Sample: 05-0614-06	Client ID: B18@9'			04/22/2005	SO
TEPH with silica gel treatment	A5520B	ND<50	MG/KG		04/28/2005
Gasoline Range Organics	SW8020F	ND<500	UG/KG		05/09/2005
Sample: 05-0614-09	Client ID: B2-GW			04/22/2005	W
TEPH with silica gel treatment	A5520B	ND<10	MG/L		05/04/2005
Sample: 05-0614-10	Client ID: B11-GW			04/22/2005	W
TEPH with silica gel treatment	A5520B	ND<10	MG/L		05/04/2005
Sample: 05-0614-11	Client ID: B8-GW@25'			04/22/2005	W
TEPH with silica gel treatment	A5520B	ND<17	MG/L		05/04/2005
Gasoline Range Organics	SW8020F	62	UG/L		04/28/2005
Sample: 05-0614-12	Client ID: B5-GW@25'			04/22/2005	W
TEPH with silica gel treatment	A5520B	ND<10	MG/L		05/04/2005
Gasoline Range Organics	SW8020F	ND<50	UG/L		04/28/2005
Sample: 05-0614-13	Client ID: B10-GW@25'			04/22/2005	W
TEPH with silica gel treatment	A5520B	ND<10	MG/L		05/04/2005
Gasoline Range Organics	SW8020F	ND<50	UG/L		04/28/2005

*Does not match pattern;**Result due to single peak



C E R T I F I C A T E O F A N A L Y S I S

Lab Number: 05-0614
Client: Env. Restoration Services
Project: 1549 32ND ST OAKLAND
Date Reported: 05/12/2005

Diesel, Motor Oil, Kerosene Range by 8015B with Silica Gel
TEPH by method 5520B with silica gel treatment
Gasoline Range Hydrocarbons by Method 8015B
Dissolved Ni,Cr,Cu by ICP-MS Method 200.8

Table with 6 columns: Analyte, Method, Result, Unit, Date Sampled, Date Analyzed. Contains data for samples 05-0614-14 through 05-0614-18, listing analytes like TEPH and Gasoline Range Organics with their respective methods and results.

*Does not match pattern;**Result due to single peak



C E R T I F I C A T E O F A N A L Y S I S

Lab Number: 05-0614
Client: Env. Restoration Services
Project: 1549 32ND ST OAKLAND

Date Reported: 05/12/2005

Diesel, Motor Oil, Kerosene Range by 8015B with Silica Gel
TEPH by method 5520B with silica gel treatment
Gasoline Range Hydrocarbons by Method 8015B
Dissolved Ni,Cr,Cu by ICP-MS Method 200.8

Table with columns: Analyte, Method, Result, Unit, Date Sampled, Date Analyzed. Contains data for samples 05-0614-19, 20, 21, 22, and 23.

*Does not match pattern;**Result due to single peak



C E R T I F I C A T E O F A N A L Y S I S

Lab Number: 05-0614
Client: Env. Restoration Services
Project: 1549 32ND ST OAKLAND

Date Reported: 05/12/2005

Diesel, Motor Oil, Kerosene Range by 8015B with Silica Gel
TEPH by method 5520B with silica gel treatment
Gasoline Range Hydrocarbons by Method 8015B
Dissolved Ni,Cr,Cu by ICP-MS Method 200.8

Analyte	Method	Result	Unit	Date Sampled	Date Analyzed
Sample: 05-0614-24	Client ID: B18-GW@25'			04/22/2005	W
TEPH with silica gel treatment	A5520B	ND<10	MG/L		05/05/2005
Gasoline Range Organics	SW8020F	**285	UG/L		04/29/2005
Sample: 05-0614-25	Client ID: B7-GW@25'			04/22/2005	W
TEPH with silica gel treatment	A5520B	ND<19	MG/L		05/05/2005
Gasoline Range Organics	SW8020F	ND<50	UG/L		04/29/2005
Sample: 05-0614-26	Client ID: B3-GW@25'			04/22/2005	W
TEPH with silica gel treatment	A5520B	ND<10	MG/L		05/05/2005
Gasoline Range Organics	SW8020F	ND<50	UG/L		04/29/2005
Sample: 05-0614-27	Client ID: B1-GW			04/25/2005	W
Chromium	E200.8	2.0	UG/L		05/03/2005
Copper	E200.8	1.4	UG/L		05/03/2005
Nickel	E200.8	1.5	UG/L		05/03/2005
TEPH with silica gel treatment	A5520B	ND<10	MG/L		05/05/2005
Gasoline Range Organics	SW8020F	ND<50	UG/L		04/29/2005

*Does not match pattern;**Result due to single peak



C E R T I F I C A T E O F A N A L Y S I S

Lab Number: 05-0614
Client: Env. Restoration Services
Project: 1549 32ND ST OAKLAND
Date Reported: 05/12/2005

Diesel, Motor Oil, Kerosene Range by 8015B with Silica Gel
TEPH by method 5520B with silica gel treatment
Gasoline Range Hydrocarbons by Method 8015B
Dissolved Ni,Cr,Cu by ICP-MS Method 200.8

Analyte	Method	Result	Unit	Date Sampled	Date Analyzed
Sample: 05-0614-28 Client ID: B1-GW@25'				04/25/2005	W
TEPH with silica gel treatment	A5520B	ND<10	MG/L		05/05/2005
Gasoline Range Organics	SW8020F	ND<50	UG/L		04/29/2005

*Does not match pattern;**Result due to single peak



North State Labs

CA ELAP#1753

815 Dubuque Avenue • South San Francisco, CA 94080 • (650) 266-4563 • FAX (650) 266-4560

C E R T I F I C A T E O F A N A L Y S I S

Quality Control/Quality Assurance

Lab Number: 05-0614
 Client: Env. Restoration Services
 Project: 1549 32ND ST OAKLAND

Date Reported: 05/12/2005

Diesel, Motor Oil, Kerosene Range by 8015B with Silica Gel
 TEPH by method 5520B with silica gel treatment
 Gasoline Range Hydrocarbons by Method 8015B
 Dissolved Ni,Cr,Cu by ICP-MS Method 200.8

Analyte	Method	Reporting Unit	Blank	MS/MSD Recovery	RPD
TEPH with silica gel	A5520B	50 MG/KG	ND	96/88	9
Chromium	E200.8	0.50 UG/L	ND<0.50	100/100	0
Copper	E200.8	0.50 UG/L	ND<0.50	88/83	6
Nickel	E200.8	0.50 UG/L	ND<0.50	98/100	2
TEPH with silica gel	A5520B	5 MG/L	ND	82/87	6
TEPH with silica gel	A5520B	5 MG/L	ND	87/91	4
Gasoline (05/09/05)	SW8020F	500 UG/KG	ND	85/102	18
Gasoline (05/11/05)	SW8020F	500 UG/KG	ND	110/106	4

ELAP Certificate NO:1753

Reviewed and Approved


 Erin Cunniff, Laboratory Director



**CHAIN-OF-CUSTODY
ANALYTICAL RESULTS
Import Soil Samples**



North State Labs

815 Dubuque Avenue, South San Francisco, CA 94080
Phone: (650) 266-4563 Fax: (650) 266-4560

05-065

Chain of Custody / Request for Analysis

Lab Job No.: _____ Page 1 of 1

Client: <u>Environmental Restoration Services</u>	Report to: <u>ERS</u>	Phone: <u>650-325-3216</u>	Turnaround Time <u>Normal</u>	
Billing Address: <u>500 S. Lincoln Ave Menlo Park CA 94025</u>	Billing to: <u>ERS</u>	Fax: <u>650-325-3238</u>		
		email: <u>envrest@acsl.com</u>		Date: <u>4/22/05</u>
		PO#		Sampler: <u>B. H. H. H.</u>

Object / Site Address / Global ID: 549 32nd St. Oakland

Analysis Requested: TPH Fuel SCAN WAX silica gel Leak metals BZ60 TPH/g BTEX

EDF
PDF
Field Point ID

Sample ID	Sample Type	Container No. / Type	Pres.	Sampling Date / Time	TPH Fuel SCAN WAX silica gel	Leak metals	BZ60	TPH/g BTEX	Field Point ID	
port-104'	↓	(1) plastic	envir	4/22/05 9:22	X					
port-108'				902	X					
port-204'				913	X					
port-208'				912	X		X			
port-304'				931	X					
port-308'				932	X					
port-403'				947	X		X	X		X
port-406'				953	X		X			X
port-504'				10:05	X					

Relinquished by: <u>[Signature]</u>	Date: <u>4-25-05</u> Time: <u>10:45</u>	Received by: <u>[Signature]</u>	Lab Comments/ Hazards
Relinquished by:	Date: Time:	Received by:	
Relinquished by:	Date: Time:	Received by:	



C E R T I F I C A T E O F A N A L Y S I S

Lab Number: 05-0615
Client: Env. Restoration Services
Project: 1549 32ND ST OAKLAND

Date Reported: 05/10/2005

Diesel, Motor Oil, Kerosene Range by 8015B with Silica Gel
Hydraulic Oil Range by 8015B with Silica Gel
(Modified for Motor Oil, Kerosene, and Hydraulic Oil/
client's request)
TEPH by method 5520B with silica gel treatment
Metals by ICP-MS Method 6020
Gasoline and BTEX by Methods 8015B/8021B

Table with columns: Analyte, Method, Result, Unit, Date Sampled, Date Analyzed. Contains two main sections of data for different samples (02 and 03).

*Does not match diesel pattern.



C E R T I F I C A T E O F A N A L Y S I S

Lab Number: 05-0615
Client: Env. Restoration Services
Project: 1549 32ND ST OAKLAND
Date Reported: 05/10/2005

Diesel, Motor Oil, Kerosene Range by 8015B with Silica Gel
Hydraulic Oil Range by 8015B with Silica Gel
(Modified for Motor Oil, Kerosene, and Hydraulic Oil/
client's request)
TEPH by method 5520B with silica gel treatment
Metals by ICP-MS Method 6020
Gasoline and BTEX by Methods 8015B/8021B

Table with 6 columns: Analyte, Method, Result, Unit, Date Sampled, Date Analyzed. Contains two main sections for samples 05-0615-04 and 05-0615-05, listing various analytes like Benzene, Ethylbenzene, Gasoline Range Organics, etc.

*Does not match diesel pattern.



C E R T I F I C A T E O F A N A L Y S I S

Lab Number: 05-0615
Client: Env. Restoration Services
Project: 1549 32ND ST OAKLAND

Date Reported: 05/10/2005

Diesel, Motor Oil, Kerosene Range by 8015B with Silica Gel
Hydraulic Oil Range by 8015B with Silica Gel
(Modified for Motor Oil, Kerosene, and Hydraulic Oil/
client's request)
TEPH by method 5520B with silica gel treatment
Metals by ICP-MS Method 6020
Gasoline and BTEX by Methods 8015B/8021B

Table with columns: Analyte, Method, Result, Unit, Date Sampled, Date Analyzed. Contains two main sections of data for samples 05-0615-05 and 05-0615-06.

*Does not match diesel pattern.



C E R T I F I C A T E O F A N A L Y S I S

Lab Number: 05-0615
Client: Env. Restoration Services
Project: 1549 32ND ST OAKLAND
Date Reported: 05/10/2005

Diesel, Motor Oil, Kerosene Range by 8015B with Silica Gel
Hydraulic Oil Range by 8015B with Silica Gel
(Modified for Motor Oil, Kerosene, and Hydraulic Oil/
client's request)
TEPH by method 5520B with silica gel treatment
Metals by ICP-MS Method 6020
Gasoline and BTEX by Methods 8015B/8021B

Table with 6 columns: Analyte, Method, Result, Unit, Date Sampled, Date Analyzed. Rows include Benzene, Ethylbenzene, Gasoline Range Organics, etc.

*Does not match diesel pattern.



C E R T I F I C A T E O F A N A L Y S I S

Lab Number: 05-0615
Client: Env. Restoration Services
Project: 1549 32ND ST OAKLAND

Date Reported: 05/10/2005

Diesel, Motor Oil, Kerosene Range by 8015B with Silica Gel
Hydraulic Oil Range by 8015B with Silica Gel
(Modified for Motor Oil, Kerosene, and Hydraulic Oil/
client's request)
TEPH by method 5520B with silica gel treatment
Metals by ICP-MS Method 6020
Gasoline and BTEX by Methods 8015B/8021B

Table with 6 columns: Analyte, Method, Result, Unit, Date Sampled, Date Analyzed. Contains two main sections of data for samples 05-0615-08 and 05-0615-09.

*Does not match diesel pattern.



C E R T I F I C A T E O F A N A L Y S I S

Lab Number: 05-0615
Client: Env. Restoration Services
Project: 1549 32ND ST OAKLAND
Date Reported: 05/10/2005

Diesel, Motor Oil, Kerosene Range by 8015B with Silica Gel
Hydraulic Oil Range by 8015B with Silica Gel
(Modified for Motor Oil, Kerosene, and Hydraulic Oil/
client's request)
TEPH by method 5520B with silica gel treatment
Metals by ICP-MS Method 6020
Gasoline and BTEX by Methods 8015B/8021B

Table with 6 columns: Analyte, Method, Result, Unit, Date Sampled, Date Analyzed. Rows include various analytes like Xylenes, Cadmium, Chromium, Lead, Nickel, Zinc, Diesel Fuel #2, Hydraulic Oil, Kerosene, and Motor Oils.

*Does not match diesel pattern.



North State Labs

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CA ELAP# 1753

C E R T I F I C A T E O F A N A L Y S I S

Quality Control/Quality Assurance

Lab Number: 05-0615
Client: Env. Restoration Services
Project: 1549 32ND ST OAKLAND

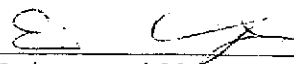
Date Reported: 05/10/2005

Diesel, Motor Oil, Kerosene Range by 8015B with Silica Gel
Hydraulic Oil Range by 8015B with Silica Gel
(Modified for Motor Oil, Kerosene, and Hydraulic Oil/
client's request)
TEPH by method 5520B with silica gel treatment
Metals by ICP-MS Method 6020

Analyte	Method	Reporting Unit	Blank	MS/MSD Recovery	RPD
Cadmium	SW6020	0.5 MG/KG	ND<0.5	98/94	4
Chromium	SW6020	0.5 MG/KG	ND<0.5	94/92	2
Lead	SW6020	0.5 MG/KG	ND<0.5	86/88	2
Nickel	SW6020	0.5 MG/KG	ND<0.5	96/90	6
Zinc	SW6020	1.0 MG/KG	ND<1.0	108/102	6
Diesel Fuel #2	CATFH	1 MG/KG	ND	90/106	16
Motor Oils	CATFH	10 MG/KG	ND	NA	NA
Kerosene	CATFH	1 MG/KG	ND	NA	NA
Hydraulic Oil	CATFH	10 MG/KG	ND	NA	NA
Gasoline Range Organics	SW8020F	500 UG/KG	ND	85/102	18
Benzene	SW8020F	5 UG/KG	ND	85/107	23
Toluene	SW8020F	5 UG/KG	ND	76/99	26
Ethylbenzene	SW8020F	5 UG/KG	ND	77/88	13
Xylenes	SW8020F	10 UG/KG	ND	72/87	19
BUR-a, a, a-Trifluorotoluene	SW8020F	PERCENT 88		102/110	8

ELAP Certificate NO:1753

Reviewed and Approved


Erin Cunniffe, Laboratory Director



C E R T I F I C A T E O F A N A L Y S I S

Job Number: 05-0615
Client : Env. Restoration Services
Project : 1549 32ND ST OAKLAND

Date Sampled : 04/22/2005
Date Analyzed: 04/29/2005
Date Reported: 05/10/2005

Volatile Organics by GC/MS Method 8260B

Laboratory Number	05-0615-04	05-0615-07
Client ID	IMPORT-2@8'	IMPORT-4@3'
Matrix	SO	SO
Analyte	UG/KG	UG/KG
Bromochloromethane	ND<25	ND<25
Dichlorodifluoromethane	ND<25	ND<25
Chloromethane	ND<50	ND<50
Vinyl chloride	ND<25	ND<25
Bromomethane	ND<25	ND<25
Chloroethane	ND<25	ND<25
Trichlorofluoromethane	ND<25	ND<25
1,1-Dichloroethene	ND<5	ND<5
Acetone	ND<250	ND<250
Methylene chloride	ND<50	ND<50
trans-1,2-Dichloroethene	ND<5	ND<5
Methyl-tert-butyl ether	ND<5	ND<5
1,1-Dichloroethane	ND<5	ND<5
2,2-Dichloropropane	ND<5	ND<5
cis-1,2-Dichloroethene	ND<5	ND<5
2-Butanone	ND<50	ND<50
Chloroform	ND<5	ND<5
Carbon tetrachloride	ND<5	ND<5
1,1-Dichloropropene	ND<5	ND<5
Benzene	ND<5	ND<5
1,2-Dichloroethane	ND<5	ND<5
Trichloroethene	ND<5	ND<5
1,2-Dichloropropane	ND<5	ND<5
Dibromomethane	ND<5	ND<5
Bromodichloromethane	ND<5	ND<5
trans-1,3-Dichloropropene	ND<5	ND<5
4-Methyl-2-pentanone	ND<50	ND<50
Toluene	ND<5	ND<5
cis-1,3-Dichloropropene	ND<5	ND<5
1,1,2-Trichloroethane	ND<5	ND<5
Tetrachloroethene	ND<5	ND<5
1,3-Dichloropropane	ND<5	ND<5
2-Hexanone	ND<50	ND<50
Dibromochloromethane	ND<5	ND<5
1,2-Dibromoethane	ND<5	ND<5

Comments:



C E R T I F I C A T E O F A N A L Y S I S

Job Number: 05-0615
Client : Env. Restoration Services
Project : 1549 32ND ST OAKLAND

Date Sampled : 04/22/2005
Date Analyzed: 04/29/2005
Date Reported: 05/10/2005

Volatile Organics by GC/MS Method 8260B

Laboratory Number	05-0615-04	05-0615-07
Client ID	IMPORT-2@8'	IMPORT-4@3'
Matrix	SO	SO
Analyte	UG/KG	UG/KG
Chlorobenzene	ND<10	ND<10
1,1,1,2-Tetrachloroethane	ND<5	ND<5
Ethylbenzene	ND<5	ND<5
Xylene, Isomers m & p	ND<10	ND<10
o-Xylene	ND<5	ND<5
Styrene	ND<5	ND<5
Bromoform	ND<5	ND<5
Isopropylbenzene	ND<5	ND<5
Bromobenzene	ND<5	ND<5
1,1,2,2-Tetrachloroethane	ND<5	ND<5
n-Propylbenzene	ND<5	ND<5
2-Chlorotoluene	ND<5	ND<5
4-Chlorotoluene	ND<5	ND<5
1,3,5-Trimethylbenzene	ND<5	ND<5
tert-Butylbenzene	ND<5	ND<5
1,2,4-Trimethylbenzene	ND<5	ND<5
1,3-Dichlorobenzene	ND<5	ND<5
1,4-Dichlorobenzene	ND<5	ND<5
sec-Butylbenzene	ND<5	ND<5
1,2-Dichlorobenzene	ND<5	ND<5
n-Butylbenzene	ND<5	ND<5
Naphthalene	ND<10	ND<10
1,2,4-Trichlorobenzene	ND<5	ND<5
Hexachlorobutadiene	ND<5	ND<5
1,2,3-Trichlorobenzene	ND<5	ND<5
1,2,3-Trichloropropane	ND<5	ND<5
Acetonitrile	ND<250	ND<250
Acrylonitrile	ND<250	ND<250
Isobutanol	ND<250	ND<250
1,1,1-Trichloroethane	ND<5	ND<5
SUR-Dibromofluoromethane	118	115
SUR-Toluene-d8	108	106
SUR-4-Bromofluorobenzene	88	89
SUR-1,2-Dichloroethane-d4	113	114

Comments:



C E R T I F I C A T E O F A N A L Y S I S

Job Number: 05-0615
Client : Env. Restoration Services
Project : 1549 32ND ST OAKLAND

Date Sampled : 04/22/2005
Date Analyzed: 04/29/2005
Date Reported: 05/10/2005

Volatile Organics by GC/MS Method 8260B
Quality Control/Quality Assurance Summary

Table with columns: Laboratory Number, Client ID, Matrix, Analyte, Results UG/KG, %Recoveries, RPD, Recovery Limit, RPD Limit. Lists various chemical analytes and their corresponding results and recovery percentages.



C E R T I F I C A T E O F A N A L Y S I S

Job Number: 05-0615 Date Sampled : 04/22/2005
Client : Env. Restoration Services Date Analyzed: 04/29/2005
Project : 1549 32ND ST OAKLAND Date Reported: 05/10/2005

Volatile Organics by GC/MS Method 8260B
Quality Control/Quality Assurance Summary

Laboratory Number 05-0615 MS/MSD RPD Recovery RPD
Client ID Blank Recovery Limit Limit
Matrix SO SO

Analyte Results %Recoveries
UG/KG

Table with 6 columns: Analyte, Results, %Recoveries, RPD, Recovery Limit, RPD Limit. Lists various organic compounds and their detection levels and recovery percentages.

Reviewed and Approved

Erin Cunniffe
Laboratory Director



**CHAIN-OF-CUSTODY
ANALYTICAL RESULTS
Vapor Samples**



AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0505571

Work Order Summary

CLIENT: Mr. Ben Halsted
Environmental Restoration Services
500 Santa Cruz Ave.
Menlo Park, CA 94025

BILL TO: Mr. Ben Halsted
Environmental Restoration Services
500 Santa Cruz Ave.
Menlo Park, CA 94025

PHONE: 650-325-3216

FAX:

DATE RECEIVED: 05/26/2005

DATE COMPLETED: 06/09/2005

P.O. #

PROJECT # Precision Lofts

CONTACT: Taryn Badal

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>
01A	B-5 SV	Modified TO-15	2.0 "Hg
02A	B-1 SV	Modified TO-15	3.5 "Hg
03A	Lab Blank	Modified TO-15	NA
04A	CCV	Modified TO-15	NA
05A	LCS	Modified TO-15	NA

CERTIFIED BY:

Laboratory Director

DATE: 06/09/05

Certification numbers: AR DEQ - 03-084-0, CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,

Accreditation number: E87680, Effective date: 07/01/04, Expiration date: 06/30/05

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-15
Environmental Restoration Services
Workorder# 0505571

One 1 Liter Summa Canister and One 1 Liter Silonite Canister samples were received on May 26, 2005. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

Method modifications taken to run these samples include:

<i>Requirement</i>	<i>TO-15</i>	<i>ATL Modifications</i>
BFB acceptance criteria	CLP protocol (TO-15)	SW-846 protocol
Concentration of IS spike	10 ppbv (TO-15)	25 ppbv
Dilutions for initial calibration	Dynamic dilutions or static using canisters	Syringe dilutions
Daily CCV	+/- 30% Difference	<= 30% Difference with two allowed out up to <=40%; flag and narrate outliers
Primary ions for Quantification	Freon 114: 85, Carbon Tetrachloride: 117, Trichloroethene: 130, Ethyl Benzene, m,p- and o-Xylene: 91, Vinyl Acetate: 43, 2-Butanone: 43, 4-Methyl-2-Pentanone: 43.	Freon 114: 135, Carbon Tetrachloride: 119, Trichloroethene: 95, Ethyl Benzene, m,p- and o-Xylene: 106, Vinyl Acetate: 86, 2-Butanone: 72, 4-Methyl-2-Pentanone: 58.
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Sample Drying System	Nafion Dryer (TO-14A)	Multisorbent
Sample Load Volume	400 mL (TO-14A)	Varied to 0.2 L.
Blank Acceptance Criteria.	< 0.20 ppbv (TO-14A)	< RL
BFB Absolute Abundance Criteria (TO-14A)	Within 10% of that from the previous day.	CCV internal standard area counts are compared to ICAL, corrective action for > 40 % D.
Initial Calibration	+/- 30 %RSD (TO-14A)	<= 30 % RSD with 2 compounds allowed out to <= 40 % RSD.
IS Recoveries	Within 40% of mean over ICAL for blanks, and within 40 % of daily CCV for samples. (TO-15)	Within 40% of CCV recoveries for blank and samples.

Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases. A list of these compounds is available.
------------------------	-------------------------------	--

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated Peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

AIR TOXICS LTD.

Summary of Detected Compounds MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: B-5 SV

Lab ID#: 0505371-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	1.1	2.4	2.8	6.2
Benzene	1.1	1.6	3.4	5.0
Toluene	1.1	8.7	4.1	33
Ethyl Benzene	1.1	2.1	4.7	9.1
m,p-Xylene	1.1	9.2	4.7	40
o-Xylene	1.1	2.7	4.7	12
1,2,4-Trimethylbenzene	1.1	3.5	5.3	17
1,4-Dichlorobenzene	1.1	9.6	6.5	58
1,3-Butadiene	1.1	3.4	2.4	7.5
Hexane	1.1	54	3.8	190
Heptane	1.1	1.8	4.4	7.6
Acetone	4.3	22	10	52
2-Butanone (Methyl Ethyl Ketone)	1.1	3.2	3.2	9.5
4-Ethyltoluene	1.1	3.3	5.3	16
2,2,4-Trimethylpentane	1.1	3.4	5.0	16

Client Sample ID: B-1 SV

Lab ID#: 0505371-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Toluene	1.1	8.0	4.3	30
Ethyl Benzene	1.1	1.6	5.0	6.9
m,p-Xylene	1.1	6.4	5.0	28
o-Xylene	1.1	1.8	5.0	8.0
1,2,4-Trimethylbenzene	1.1	1.7	5.6	8.5
1,4-Dichlorobenzene	1.1	5.0	6.9	30
Hexane	1.1	57	4.0	200
Heptane	1.1	1.7	4.7	6.9
Acetone	4.6	53	11	120
2-Butanone (Methyl Ethyl Ketone)	1.1	5.6	3.4	17
4-Ethyltoluene	1.1	1.8	5.6	9.1
Ethanol	4.6	5.8	8.6	11
2,2,4-Trimethylpentane	1.1	4.7	5.3	22

AIR TOXICS LTD.

Client Sample ID: B-5 SV

Lab ID#: 0505571-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	0505571-01A	Date of Collection: 5/20/98
Dil. Factor:	2.16	Date of Analysis: 5/20/98 11:36 PM

Table 6-2

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.1	Not Detected	5.3	Not Detected
Freon 114	1.1	Not Detected	7.6	Not Detected
Vinyl Chloride	1.1	2.4	2.8	6.2
Bromomethane	1.1	Not Detected	4.2	Not Detected
Chloroethane	1.1	Not Detected	2.8	Not Detected
Freon 11	1.1	Not Detected	6.1	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.3	Not Detected
Freon 113	1.1	Not Detected	8.3	Not Detected
Methylene Chloride	1.1	Not Detected	3.8	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.4	Not Detected
cis-1,2-Dichloroethene	1.1	Not Detected	4.3	Not Detected
Chloroform	1.1	Not Detected	5.3	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	5.9	Not Detected
Carbon Tetrachloride	1.1	Not Detected	6.8	Not Detected
Benzene	1.1	1.6	3.4	5.0
1,2-Dichloroethane	1.1	Not Detected	4.4	Not Detected
Trichloroethene	1.1	Not Detected	5.8	Not Detected
1,2-Dichloropropane	1.1	Not Detected	5.0	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	4.9	Not Detected
Toluene	1.1	8.7	4.1	33
trans-1,3-Dichloropropene	1.1	Not Detected	4.9	Not Detected
1,1,2-Trichloroethane	1.1	Not Detected	5.9	Not Detected
Tetrachloroethene	1.1	Not Detected	7.3	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.3	Not Detected
Chlorobenzene	1.1	Not Detected	5.0	Not Detected
Ethyl Benzene	1.1	2.1	4.7	9.1
m,p-Xylene	1.1	9.2	4.7	40
o-Xylene	1.1	2.7	4.7	12
Styrene	1.1	Not Detected	4.6	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.4	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.3	Not Detected
1,2,4-Trimethylbenzene	1.1	3.5	5.3	17
1,3-Dichlorobenzene	1.1	Not Detected	6.5	Not Detected
1,4-Dichlorobenzene	1.1	9.6	6.5	58
alpha-Chlorofluorene	1.1	Not Detected	5.6	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.5	Not Detected
1,3-Butadiene	1.1	3.4	2.4	7.5
Hexane	1.1	54	3.8	190
Cyclohexane	1.1	Not Detected	3.7	Not Detected
Heptane	1.1	1.8	4.4	7.6
Bromodichloromethane	1.1	Not Detected	7.2	Not Detected
Dibromochloromethane	1.1	Not Detected	9.2	Not Detected

31 ug/m³

84

83000

2200

21000

220

AIR TOXICS LTD.

Client Sample ID: B-5 SV

Lab ID#: 0505571-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Number:	0505571-01A	Date of Collection: 5/22/05
DR. Factor:	2.15	Date of Analysis: 5/26/05 11:38 PM

Compound	Rot. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Cumene	1.1	Not Detected	5.3	Not Detected
Propylbenzene	1.1	Not Detected	5.3	Not Detected
Chloromethane	4.3	Not Detected	8.9	Not Detected
1,2,4-Trichlorobenzene	4.3	Not Detected	32	Not Detected
Hexachlorobutadiene	4.3	Not Detected	46	Not Detected
Acetone	4.3	22	10	52 73000
Carbon Disulfide	1.1	Not Detected	3.4	Not Detected
2-Propanol	4.3	Not Detected	11	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.1	3.2	3.2	9.5 17000
Tetrahydrofuran	1.1	Not Detected	3.2	Not Detected
1,4-Dioxane	4.3	Not Detected	16	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.4	Not Detected
2-Hexanone	4.3	Not Detected	18	Not Detected
Bromoform	1.1	Not Detected	11	Not Detected
4-Ethyltoluene	1.1	3.3	5.3	16
Ethanol	4.3	Not Detected	8.1	Not Detected
Methyl tert-butyl ether	1.1	Not Detected	3.9	Not Detected
3-Chloropropene	4.3	Not Detected	14	Not Detected
2,2,4-Trimethylpentane	1.1	3.4	5.0	16
Naphthalene	22	Not Detected	110	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	100	70-130

AIR TOXICS LTD.

Client Sample ID: B-1 SV

Lab ID#: 0505571-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	0505571-02A	Date of Collection: 05/08/05
Lab. Folder:	2-23	Date of Analytic: 05/08/05 12:59 AM

Compound	Rot. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.1	Not Detected	5.7	Not Detected
Freon 114	1.1	Not Detected	8.0	Not Detected
Vinyl Chloride	1.1	Not Detected	2.9	Not Detected
Bromomethane	1.1	Not Detected	4.4	Not Detected
Chloroethane	1.1	Not Detected	3.0	Not Detected
Freon 11	1.1	Not Detected	6.4	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Freon 113	1.1	Not Detected	8.8	Not Detected
Methylene Chloride	1.1	Not Detected	4.0	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.6	Not Detected
cis-1,2-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Chloroform	1.1	Not Detected	5.6	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	6.2	Not Detected
Carbon Tetrachloride	1.1	Not Detected	7.2	Not Detected
Benzene	1.1	Not Detected	3.6	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.6	Not Detected
Trichloroethene	1.1	Not Detected	6.2	Not Detected
1,2-Dichloropropane	1.1	Not Detected	5.3	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	5.2	Not Detected
Toluene	1.1	8.0	4.3	30
trans-1,3-Dichloropropene	1.1	Not Detected	5.2	Not Detected
1,1,2-Trichloroethane	1.1	Not Detected	6.2	Not Detected
Tetrachloroethene	1.1	Not Detected	7.8	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.8	Not Detected
Chlorobenzene	1.1	Not Detected	5.3	Not Detected
Ethyl Benzene	1.1	1.6	5.0	6.9
m,p-Xylene	1.1	6.4	5.0	28
o-Xylene	1.1	1.8	5.0	8.0
Styrene	1.1	Not Detected	4.9	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.9	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.6	Not Detected
1,2,4-Trimethylbenzene	1.1	1.7	5.6	8.5
1,3-Dichlorobenzene	1.1	Not Detected	6.9	Not Detected
1,4-Dichlorobenzene	1.1	5.0	6.9	30
alpha-Chlorotoluene	1.1	Not Detected	5.9	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.9	Not Detected
1,3-Butadiene	1.1	Not Detected	2.5	Not Detected
Hexane	1.1	57	4.0	200
Cyclohexane	1.1	Not Detected	3.9	Not Detected
Heptane	1.1	1.7	4.7	6.9
Bromodichloromethane	1.1	Not Detected	7.7	Not Detected
Dibromochloromethane	1.1	Not Detected	9.8	Not Detected

83000

2200
21000

220

AIR TOXICS LTD.

Client Sample ID: B-1 SV

Lab ID#: 0505571-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	0505571-02A	Date of Collection: 05/08/00
File Folder:	2000	Date of Analysis: 05/08 12:29 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Cumene	1.1	Not Detected	5.6	Not Detected
Propylbenzene	1.1	Not Detected	5.6	Not Detected
Chloromethane	4.6	Not Detected	9.4	Not Detected
1,2,4-Trichlorobenzene	4.6	Not Detected	34	Not Detected
Hexachlorobutadiene	4.6	Not Detected	49	Not Detected
Acetone	4.6	53	11	120
Carbon Disulfide	1.1	Not Detected	3.6	Not Detected
2-Propanol	4.6	Not Detected	11	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.5	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.1	5.6	3.4	17
Tetrahydrofuran	1.1	Not Detected	3.4	Not Detected
1,4-Dioxane	4.6	Not Detected	16	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.7	Not Detected
2-Hexanone	4.6	Not Detected	19	Not Detected
Bromoform	1.1	Not Detected	12	Not Detected
4-Ethyltoluene	1.1	1.8	5.6	9.1
Ethanol	4.6	5.8	8.6	11
Methyl tert-butyl ether	1.1	Not Detected	4.1	Not Detected
3-Chloropropene	4.6	Not Detected	14	Not Detected
2,2,4-Trimethylpentane	1.1	4.7	5.3	22
Naphthalene	23	Not Detected	120	Not Detected

73000

17000

Container Type: 1 Liter Silonite Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	97	70-130
4-Bromofluorobenzene	98	70-130

AIR TOXICS LTD.

Client Sample ID: Lab Blank

Lab ID#: 0505571-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN



Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
Methylene Chloride	0.50	Not Detected	1.7	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected

AIR TOXICS LTD.

Client Sample ID: Lab Blank

Lab ID#: 0505571-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Date Analyzed:	05/05/2005	Date of Collection: NA
Lab. Project:	105	Analysis Completed: 05/12/05 PM

Compound	Ret. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Cumene	0.50	Not Detected	2.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
Chloromethane	2.0	Not Detected	4.1	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Naphthalene	10	Not Detected	52	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	98	70-130

AIR TOXICS LTD.

Client Sample ID: CCV

Lab ID#: 0505571-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name	0505571-04A	Client Name	CCV
Lab Name	AIR TOXICS LTD	Lab Analyst	SPRINGER, J

Compound	%Recovery
Freon 12	120
Freon 114	111
Vinyl Chloride	115
Bromomethane	114
Chloroethane	121
Freon 11	106
1,1-Dichloroethene	104
Freon 113	107
Methylene Chloride	104
1,1-Dichloroethane	104
cis-1,2-Dichloroethene	104
Chloroform	103
1,1,1-Trichloroethane	104
Carbon Tetrachloride	109
Benzene	100
1,2-Dichloroethane	104
Trichloroethene	98
1,2-Dichloropropane	103
cis-1,3-Dichloropropene	105
Toluene	100
trans-1,3-Dichloropropene	108
1,1,2-Trichloroethane	102
Tetrachloroethene	104
1,2-Dibromoethane (EDB)	108
Chlorobenzene	106
Ethyl Benzene	104
m,p-Xylene	106
o-Xylene	103
Styrene	104
1,1,1,2-Tetrachloroethane	110
1,3,5-Trimethylbenzene	104
1,2,4-Trimethylbenzene	103
1,3-Dichlorobenzene	106
1,4-Dichlorobenzene	106
alpha-Chlorotoluene	116
1,2-Dichlorobenzene	101
1,3-Butadiene	104
Hexane	103
Cyclohexane	103
Heptane	103
Bromodichloromethane	108
Dibromochloromethane	113

AIR TOXICS LTD.

Client Sample ID: CCV

Lab ID#: 0505571-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN



Compound	%Recovery
Cumene	102
Propylbenzene	107
Chloromethane	110
1,2,4-Trichlorobenzene	92
Hexachlorobutadiene	93
Acetone	102
Carbon Disulfide	106
2-Propanol	101
trans-1,2-Dichloroethene	104
2-Butanone (Methyl Ethyl Ketone)	108
Tetrahydrofuran	90
1,4-Dioxane	99
4-Methyl-2-pentanone	104
2-Hexanone	103
Bromoform	121
4-Ethyltoluene	104
Ethanol	107
Methyl tert-butyl ether	93
3-Chloropropene	102
2,2,4-Trimethylpentane	100
Naphthalene	92

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	103	70-130

AIR TOXICS LTD.

Client Sample ID: LCS

Lab ID#: 0505571-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Compound	%Recovery
Freon 12	122
Freon 114	113
Vinyl Chloride	116
Bromomethane	116
Chloroethane	118
Freon 11	108
1,1-Dichloroethene	106
Freon 113	110
Methylene Chloride	107
1,1-Dichloroethane	101
cis-1,2-Dichloroethene	116
Chloroform	100
1,1,1-Trichloroethane	92
Carbon Tetrachloride	104
Benzene	89
1,2-Dichloroethane	91
Trichloroethene	89
1,2-Dichloropropane	86
cis-1,3-Dichloropropene	97
Toluene	97
trans-1,3-Dichloropropene	108
1,1,2-Trichloroethane	94
Tetrachloroethene	100
1,2-Dibromoethane (EDB)	99
Chlorobenzene	102
Ethyl Benzene	101
m,p-Xylene	104
o-Xylene	100
Styrene	133 Q
1,1,2,2-Tetrachloroethane	104
1,3,5-Trimethylbenzene	102
1,2,4-Trimethylbenzene	107
1,3-Dichlorobenzene	103
1,4-Dichlorobenzene	103
alpha-Chlorotoluene	101
1,2-Dichlorobenzene	101
1,3-Butadiene	121
Hexane	104
Cyclohexane	106
Heptane	103
Bromodichloromethane	104
Dibromochloromethane	115

AIR TOXICS LTD.

Client Sample ID: LCS

Lab ID#: 0505571-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN



Compound	%Recovery
Cumene	105
Propylbenzene	158 Q
Chloromethane	118
1,2,4-Trichlorobenzene	92
Hexachlorobutadiene	92
Acetone	102
Carbon Disulfide	111
2-Propanol	104
trans-1,2-Dichloroethene	120
2-Butanone (Methyl Ethyl Ketone)	102
Tetrahydrofuran	88
1,4-Dioxane	79
4-Methyl-2-pentanone	85
2-Hexanone	66
Bromoform	128
4-Ethyltoluene	93
Ethanol	88
Methyl tert-butyl ether	97
3-Chloropropene	105
2,2,4-Trimethylpentane	108
Naphthalene	98

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	104	70-130