

July 21, 1992

Jon Legallet
Telegraph Business Properties
1401 Griffith Street
San Francisco, CA 94124

Re: Tank Pull/Excavation Activities
Telegraph Business Park
5427 Telegraph Avenue
Oakland, California
SES Project #4-719-03/05

Dear Mr. Legallet:

This letter report documents Sierra Environmental Services' (SES) underground tank removal work completed at the above-referenced site (Figures 1 and 2, Appendix A). Ten underground Stoddard solvent storage tanks, five underground Stoddard solvent waste tanks, one underground diesel tank, and one underground unleaded gasoline tank were removed.

BACKGROUND

SES was retained by Telegraph Business Properties (TBP) to coordinate and oversee the removal of 17 underground storage tanks from the property, collect required confirmation soil samples from the resulting excavations, and coordinate the characterization and disposal of all excavated soil to an appropriate landfill. The on-site underground storage tanks at the site were used by previous occupants/owners to store Stoddard solvent, Stoddard solvent waste, and vehicle fuel for a large-scale dry-cleaning operation.

For ease of reporting, SES has divided this site into four separate work areas. These work areas are shown on Figure 3 (Appendix A).

Work Area I was located in the eastern portion of the business park, near the Telegraph Avenue entrance. A 10,000-gallon unleaded gasoline tank was located in this area. Work Area II was located in a hallway situated within the TBP structure, and contained one 1,000-gallon, one 1,500-gallon, and two 550-gallon Stoddard solvent waste tanks. Work Area III was located in the northwest portion of the site, between the Caltrans property line, and the northwest limit of the



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TBP structure. Work Area III contained one 550-gallon Stoddard solvent waste tank, and one 2,500-gallon diesel fuel tank. Work Area IV was located along the eastern TBP building limit near the eastern limit of the Work Area II hallway. It contained one 1,000-gallon, and nine 3,500 gallon Stoddard solvent tanks.

Underground tanks were individually labeled according to their work area location and the order in which they were removed, i.e., the second tank removed in work area III was numbered IIB. Unless otherwise noted, all of the underground storage tanks were constructed of single-wall welded steel, were cylindrical in shape, and oriented with their long axis on the horizontal.

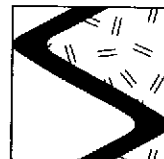
Unless otherwise noted, all tank removal operations were observed by Ms. Susan Hugo of the Alameda County Health Agency (ACHA), Inspector Marion Christian of the Oakland Fire Department (OFD), and Mr. John Trigg of SES. All tanks were visually examined upon removal for evidence of corrosion, leaks and holes. All excavation and tank removal work was conducted by Envirodyne Corporation, Inc. of Martinez, California. All of the underground storage tanks were transported from the site by Erickson, Inc. to an appropriate disposal facility.

TANK REMOVAL

Work Area I

On April 30, 1992, SES personnel were on-site to observe and document the removal of the 10,000-gallon unleaded gasoline tank (Figure 4, Appendix A). On this day, the ACHA representative was Mr. Barney Chan. The tank appeared to be in very good condition. A tar and fabric coating on the outside of the tank was (with the exception of several small areas) intact, and no holes were observed. Free ground water was not observed in the excavation.

Soil excavated during the tank removal process was stockpiled approximately 50 feet northeast of the excavation and covered with polyethylene sheeting pending disposal.



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Work Area II

On May 11, 1992, SES, ACHA, and OFD personnel were on-site to document the removal of two 550-gallon Stoddard solvent waste tanks (IIA & IIB), and obtain soil samples required by the ACHA. A small (<1") corrosion hole was observed in the bottom center of tanks IIA and IIB. Free ground water was not observed in the excavation. Tanks IIA and IIB were wrapped with six-mil polyethylene sheeting prior to transport/disposal by Erickson, Inc.

On May 15, 1992, Ms. Jennifer Eberle of the ACHA, Inspector Gary Collins of the OFD, and SES personnel were on-site to observe and document the removal of one 1,500 gallon (IIC) and one 1,000 gallon (IID) Stoddard solvent waste tank. A tar and fabric coating on the outside of the tanks was observed to be virtually intact and no holes were noted. Free ground water was not observed in the excavation.

Soil excavated during the removal of tanks IIA, IIB, IIC, and IID was stockpiled approximately 100 feet northeast of the excavation and covered with polyethylene sheeting pending disposal.

Work Area III

On May 11, 1992, SES, ACHA, and OFD personnel were on-site to observe and document the removal of one 550-gallon Stoddard waste tank (IIIB) and one 2,500-gallon diesel tank (IIIA). Tank IIIB was constructed of single-wall riveted steel. The tank was oriented with its long axis vertically and the base was conical. No visible evidence of leaks or holes was observed in tank IIIA. Tank IIIB appeared to be significantly corroded, and several holes (up to 3-inch diameter) were observed near the tip of the conical bottom. Free ground water was not observed in either excavation. Both tanks were wrapped with six-mil polyethylene sheeting prior to transport/disposal by Erickson, Inc.

Field observations and organic vapor meter (OVM) readings indicated elevated hydrocarbon levels in the soil in the excavations for tanks IIIA and IIIB. Additional soil was removed from the



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excavations to a maximum depth of about 25 feet below grade. Soil removed during the tank removal process was stockpiled immediately north of the excavation for tank IIIA and covered with polyethylene pending disposal.

Work Area IV

All of the Stoddard solvent storage tanks in Work Area IV were cylindrical, oriented vertically in their long axis, and cone-shaped on the bottom. They were all of single-wall, welded steel construction. Tanks IVA, C, D, E, F, G, H, I, and J had a capacity of approximately 3,500 gallons. Tank IVB had a capacity of approximately 1,000 gallons. All of the tanks from Work Area IV were wrapped with six-mil polyethylene sheeting prior to disposal/transport by Erickson, Inc.

On May 15, 1992, Ms. Jennifer Eberle of the ACHA, Inspector Gary Collins of the OFD, and SES personnel were on-site to observe and document the removal of Tanks IVA and IVB. The tanks were not significantly corroded and appeared to be in excellent condition. One hole (3" to 4" diameter) was observed in each tank at the tip of the conical bottom. No other holes were noted. Free ground water was not observed in the excavation.

On May 19, 1992, SES, ACHA, and OFD personnel were on-site to observe and document the removal of Tanks IVC and IVD. A three- to four-inch hole was observed at the conical tip of tank IVC. Several small (<1" diameter) corrosion holes were observed near the conical tip of tank IVD. Free ground water was not observed in the excavation.

On May 20, 1992, SES, ACHA, and OFD personnel were on-site to observe and document the removal of Tanks IVE and IVF. Several small corrosion (<1" diameter) holes were observed near the conical bottom points of both the tanks. Free ground water was not observed in the excavation.

On May 21, 1992, SES, ACHA, and OFD personnel were on-site to observe and document the removal of Tanks IVG and IVH. Minor corrosion was observed on both tanks, and several



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small (<1" diameter) corrosion holes were observed near the conical tip of both tanks. Free ground water was not observed in the excavation.

On May 22, 1992, SES, and ACHA personnel were on-site to observe and document the removal of Tanks IVI and IVJ. Due to personnel shortages on this day, the OFD (by phone) requested that Susan Hugo of the ACHA stand-in for them to approve the tank Lower Explosive Limit (LEL) levels prior to removal. When LEL readings for both tanks were within acceptable limits, Ms. Hugo authorized removal of them. Minor corrosion was observed on both tanks, and several small (<1" diameter) corrosion holes were observed near the conical bottom tips of both tanks. Free ground water was not observed in the excavation.

Soil excavated during the Work Area IV tank removal process was stockpiled approximately 50 feet north of the excavation and covered with polyethylene pending disposal.

PIPING

The piping associated with the 10,000-gallon tank in Work Area I was completely removed. The piping from tanks located in Work Areas II, III and IV was removed where possible. Several 2", 3", 4" and 6" lines were routed into and out of the adjacent buildings. These pipes were removed whenever possible by attaching a chain or cable and pulling the pipe out.

All exposed pipes were filled with concrete slurry prior to backfilling the excavation.



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SOIL SAMPLING AND ANALYSES

Soil samples were collected from each excavation at locations specified by the ACHA and by the California Regional Water Quality Control Board Tri-Regional Guidelines.¹ Soil sampling locations are shown on Figures 4, 5, 6, and 7 (Appendix A). All soil samples were collected in accordance with SES Standard Operating Procedure - Soil Sampling - Stockpiles and Excavations (Appendix C).

Some of all of the following analyses were used to analyze the soil samples:

Constituent	Method
Total Purgeable Petroleum Hydrocarbons as Gasoline [TPPH(G)]	EPA Method 8015/5030
Stoddard Solvent	EPA Method 8015/5030
Total Petroleum Hydrocarbons as Diesel [TPH(D)]	Modified EPA Method 8015
Benzene, Toluene, Ethylbenzene and Xylenes (BTEX)	EPA Method 8020
Non-polar Oil and Grease (O&G)	EPA Method 5520E&F
Halogenated Volatile Organic Compounds (HVOCs)	EPA Method 8010
Semi-volatile Organic Compounds (SVOCs)	EPA Method 8270
Metals (Cd, Cr, Pb, Ni and Zn)	EPA Method 6010

All analyses were performed by Precision Analytical Laboratory, Inc. of Richmond, California. SES is not responsible for laboratory omissions or errors. Analytic results for soil are shown in Tables 1 and 2 (Appendix B). Chain of custody documents and laboratory analytic reports are included as Appendix D.

¹ California Regional Water Quality Control Board - San Francisco Bay Region, 1990, Tri-Regional Board Staff Recommendations for Preliminary Evaluation and Investigation of Underground Storage Tank Sites, August 10, 1990, 21 pages.



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Work Area I

Two soil samples (IE-1, and IE-2) were collected from approximately two feet beneath the former bottom of the underground unleaded gasoline tank (Figure 4, Appendix A). The samples were analyzed for TPPH(G) and for BTEX.

Work Area II

Tanks IIA and IIB

Soil samples were collected from approximately two feet beneath the former bottom of tanks IIA and IIB (IIA-1, and IIB-1), and from the end- (IIA-3) and side-walls adjacent to them (IIA-2, IIA-4, IIB-2 and IIB-3). Soil sampling locations are shown on Figure 5 (Appendix A). The soil samples were analyzed for TPPH(G), Stoddard Solvent, TPH(D), BTEX, O&G, HVOCs, and SVOCs.

Tanks IIC and IID

Soil samples were collected from approximately two feet beneath tanks IIC and IID (IIA-1, IIC-2, IID-1 and IID-2), and from the end (IID-5) and side walls adjacent to them (IIC-3, IIC-4, IID-3 and IID-4). Soil sampling locations are shown on Figure 5 (Appendix A). The soil samples were analyzed for TPH(D) and BTEX.

Work Area III

Tank IIIA

Two soil samples (IIIA-1 and IIIA-2) were collected from approximately two feet beneath each end of the former diesel fuel tank. Soil sampling locations are shown on Figure 6 (Appendix A). The soil samples were analyzed for TPH(D) and for BTEX.



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Tank IIIB

One soil sample (IIIB-1) was collected from approximately two feet beneath tank IIIB. The soil sampling location is shown on Figure 6 (Appendix A). The soil sample was analyzed for TPPH(G), Stoddard Solvent, TPH(D), BTEX, O&G, HVOCs, SVOCs and metals (Cd, Cr, Pb, Ni and Zn).

Work Area IV

Soil samples were collected from approximately two feet beneath tanks IVA, B, C, D, E, F, G, H, I, and J; and from the southern side wall adjacent to them (IVD-2, IVF-2, IVH-2, and IVJ-2). Soil sampling locations are shown on Figure 7 (Appendix A). The soil samples were analyzed for TPH(D) and BTEX.

BACKFILL AND COMPACTION

The excavations in Work Areas I, II, III, and IV were backfilled to grade with compacted, clean imported fill. A geotextile membrane was placed in the excavations prior to backfilling.

The excavation in Work Area I was partially backfilled with soil that had been originally removed from around Tank IA. Prior to its use as backfill, the soil stockpile was characterized by obtaining one four-point composite for every 20 cubic yards of soil. The samples were analyzed for TPPH(G), BTEX, and organic lead. None of the analytes were detected in any of the seven composited soil samples analyzed.

SOIL DISPOSAL

Soil samples were collected from the soil stockpiles and analyzed in accordance with landfill requirements. The soil generated during the removal of the Stoddard solvent, Stoddard



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solvent waste, and diesel fuel tanks was transported by Den Beste Trucking of Windsor, California to BFI's Vasco Road Landfill in Livermore, California on June 29, and 30, 1992.

Thank you for allowing us to provide services to Telegraph Business Properties. Please call if you have any questions.



Sincerely,
Sierra Environmental Services

A handwritten signature in black ink, appearing to read 'John M. Trigg'.

John M. Trigg
Project Geologist

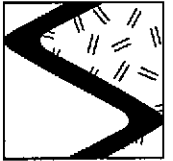
A handwritten signature in black ink, appearing to read 'Chris J. Bramer'.

Chris J. Bramer
Professional Engineer #C48846

JMT/CB/ly
71903LRJL2

Attachments: Appendix A - Figures
Appendix B - Tables
Appendix C - SES Standard Operating Procedure
Appendix D - Chain of Custody Documents and Laboratory Analytic Reports

cc: Susan Hugo, Alameda County Health Agency
Marion Christian, Oakland Fire Department



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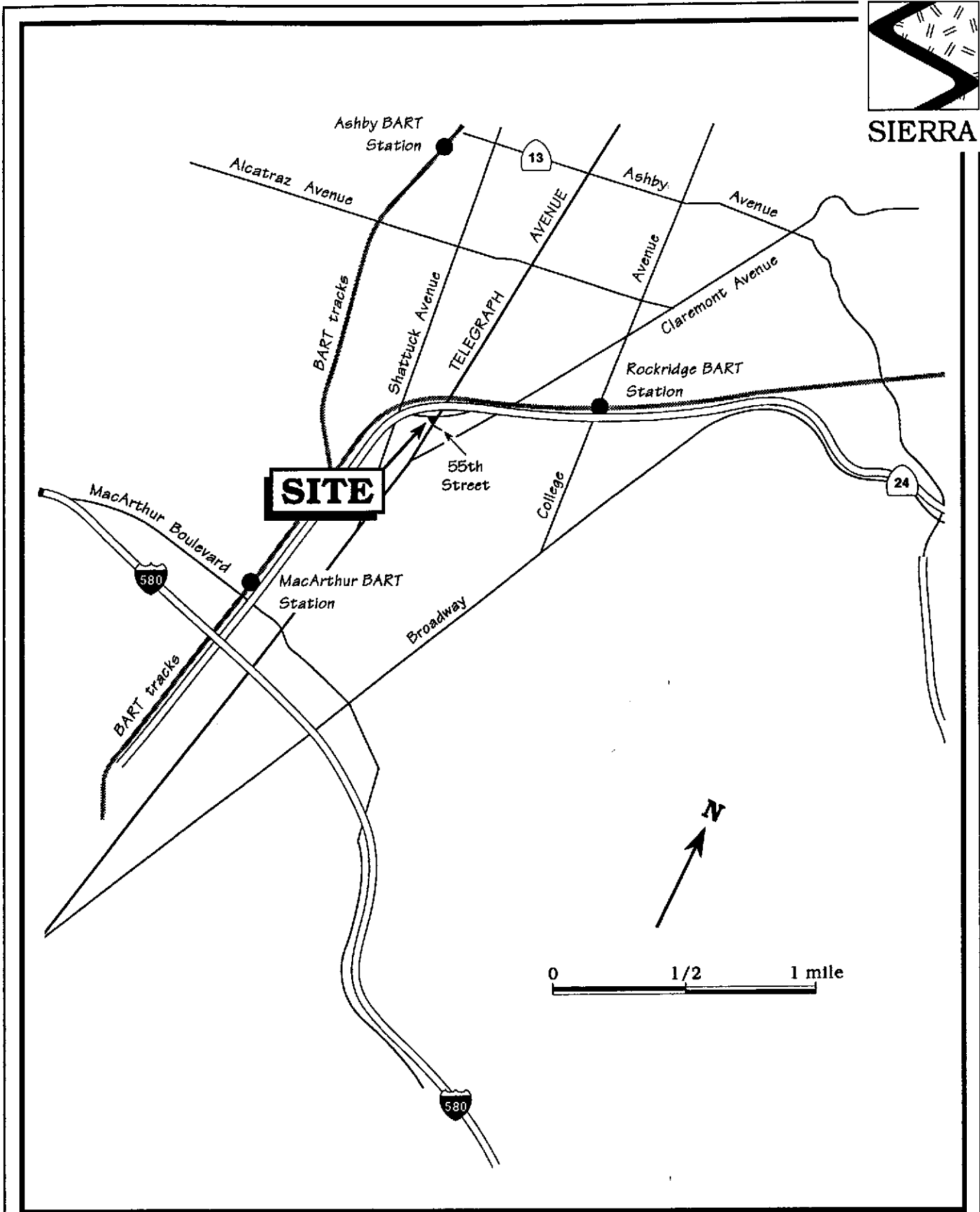


Figure 1. Site Location Map - Telegraph Business Park, 5427 Telegraph Avenue, Oakland, California

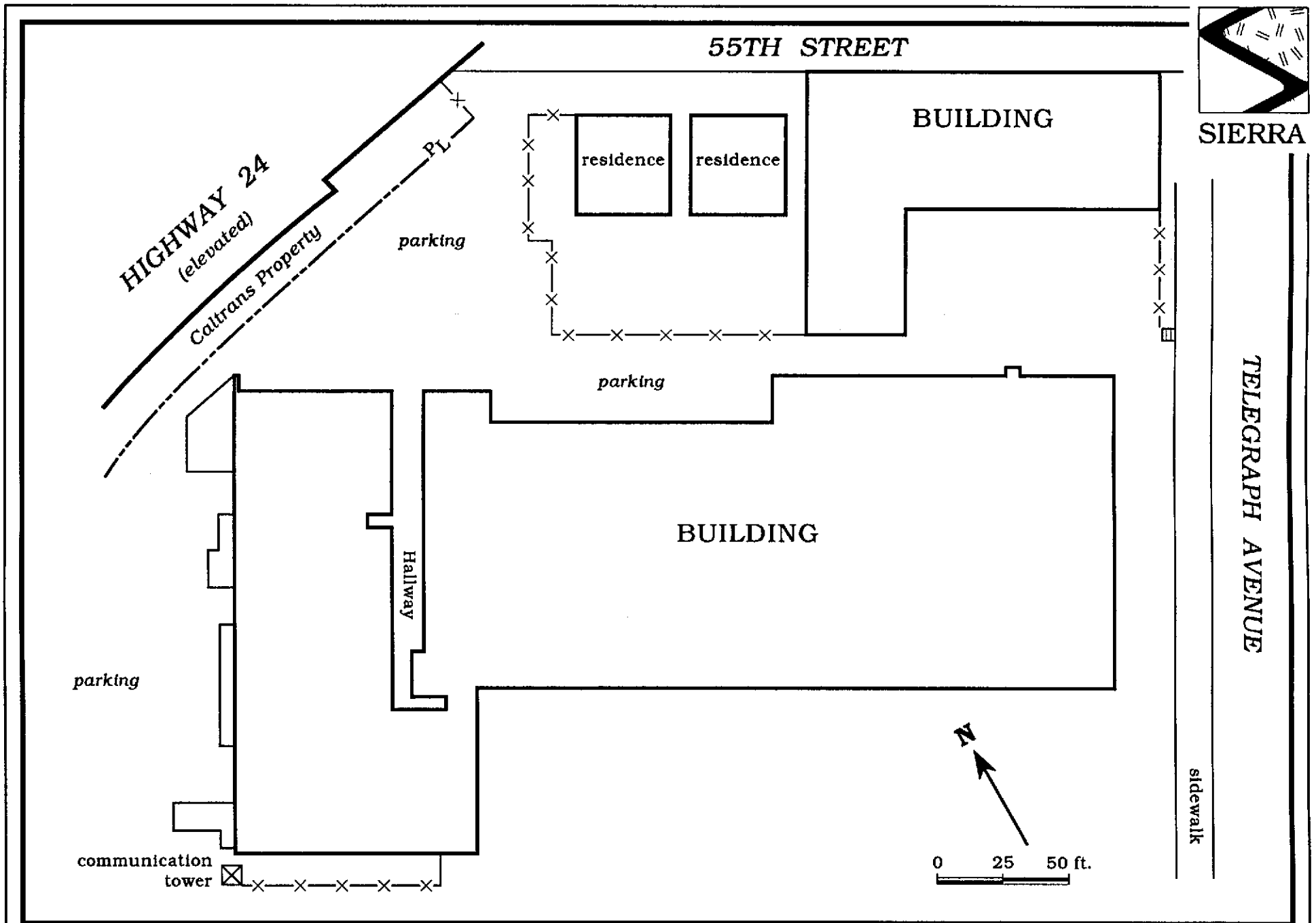


Figure 2. Site Base Map - Telegraph Business Park, 5427 Telegraph Avenue, Oakland, California

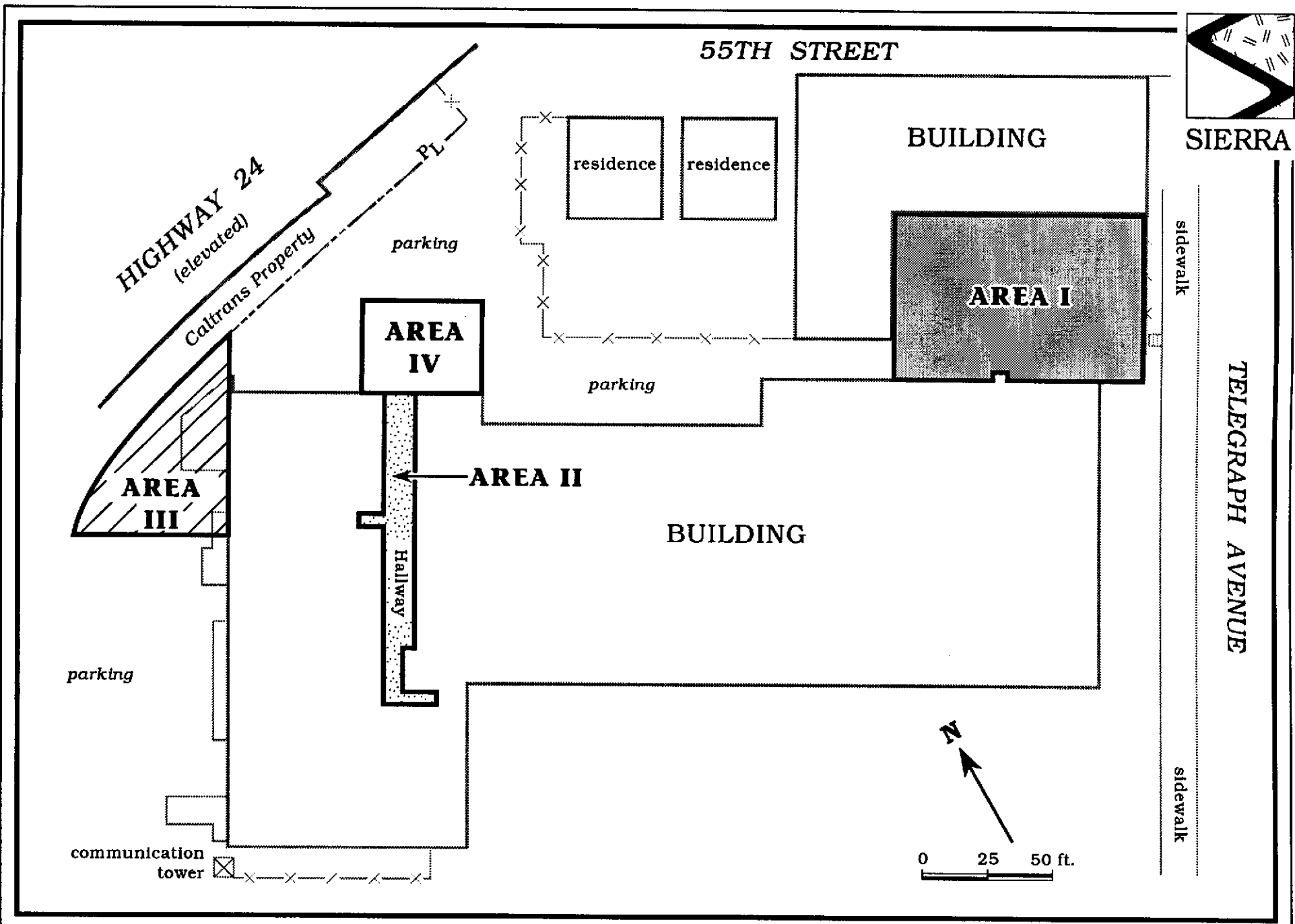
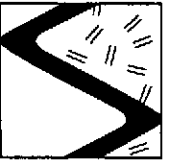
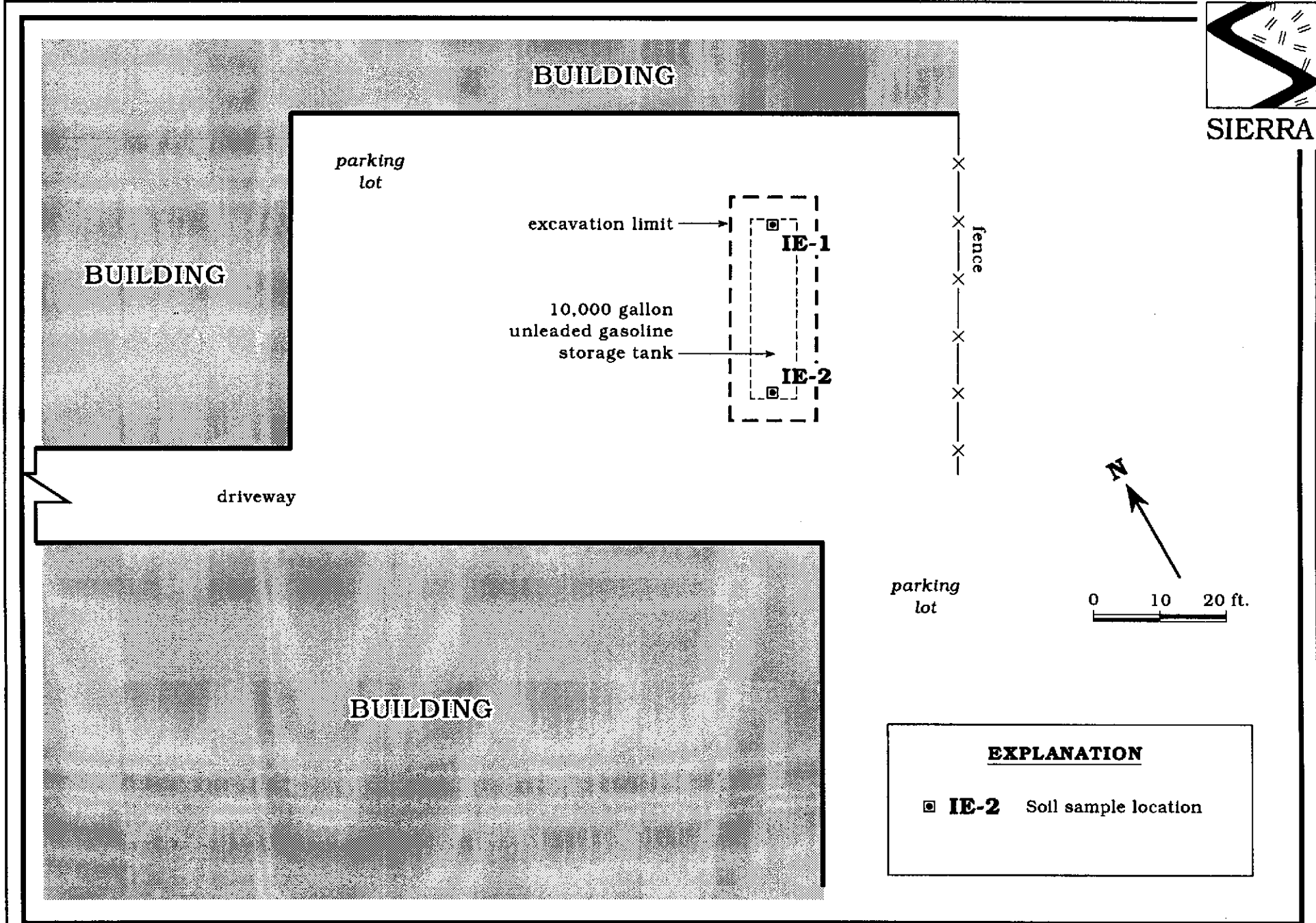


Figure 3. Work Areas 1 through 4 - Telegraph Business Park, 5427 Telegraph Avenue, Oakland, California



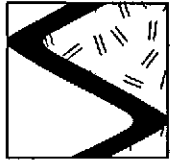
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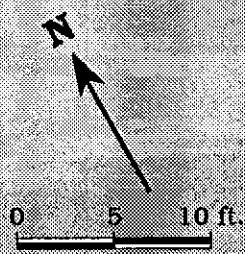
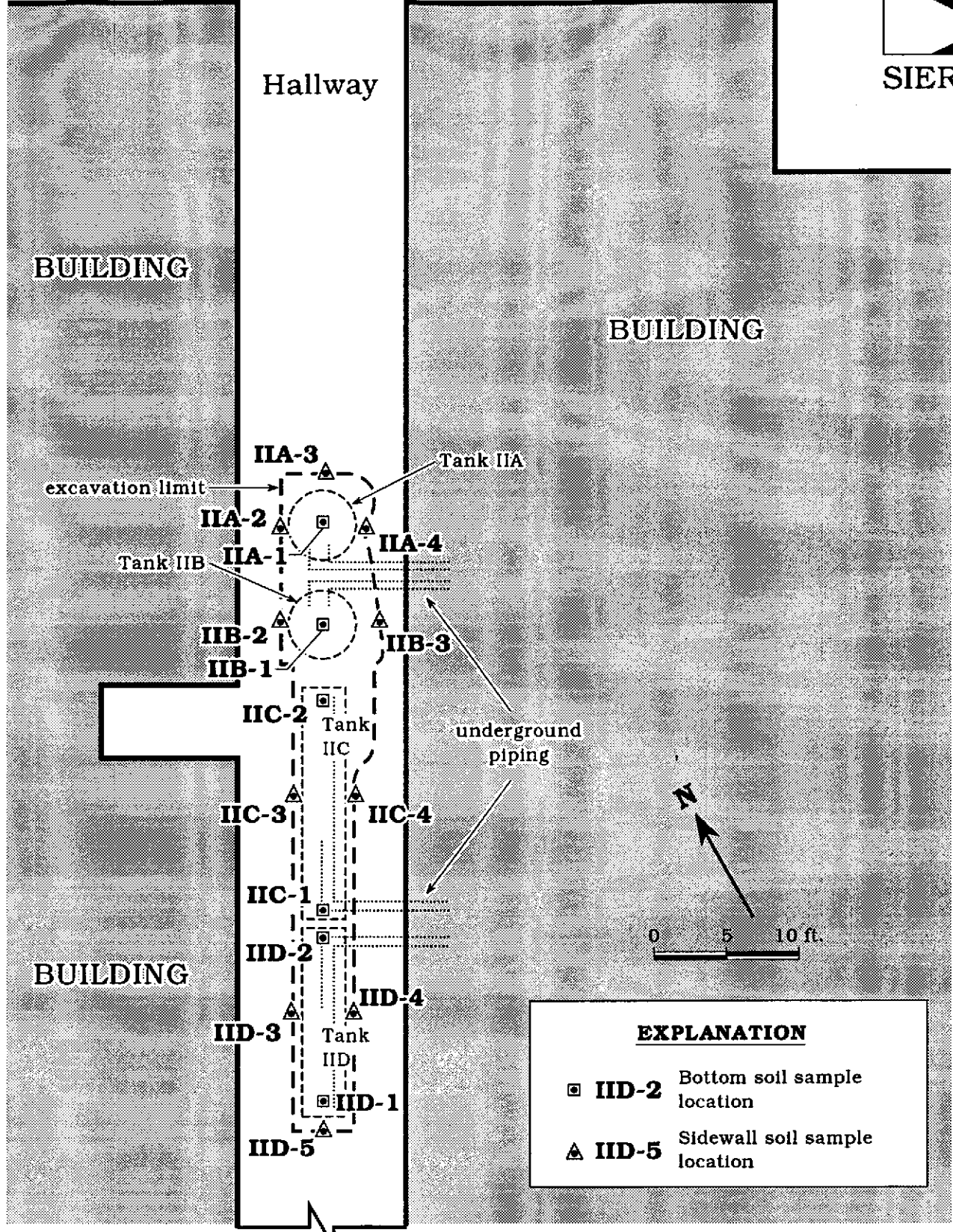
EXPLANATION

■ **IE-2** Soil sample location

Figure 4. Work Area I - Telegraph Business Park, 5427 Telegraph Avenue, Oakland, California



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EXPLANATION	
□ IID-2	Bottom soil sample location
△ IID-5	Sidewall soil sample location

Figure 5. Work Area II - Telegraph Business Park, 5427 Telegraph Avenue, Oakland, California

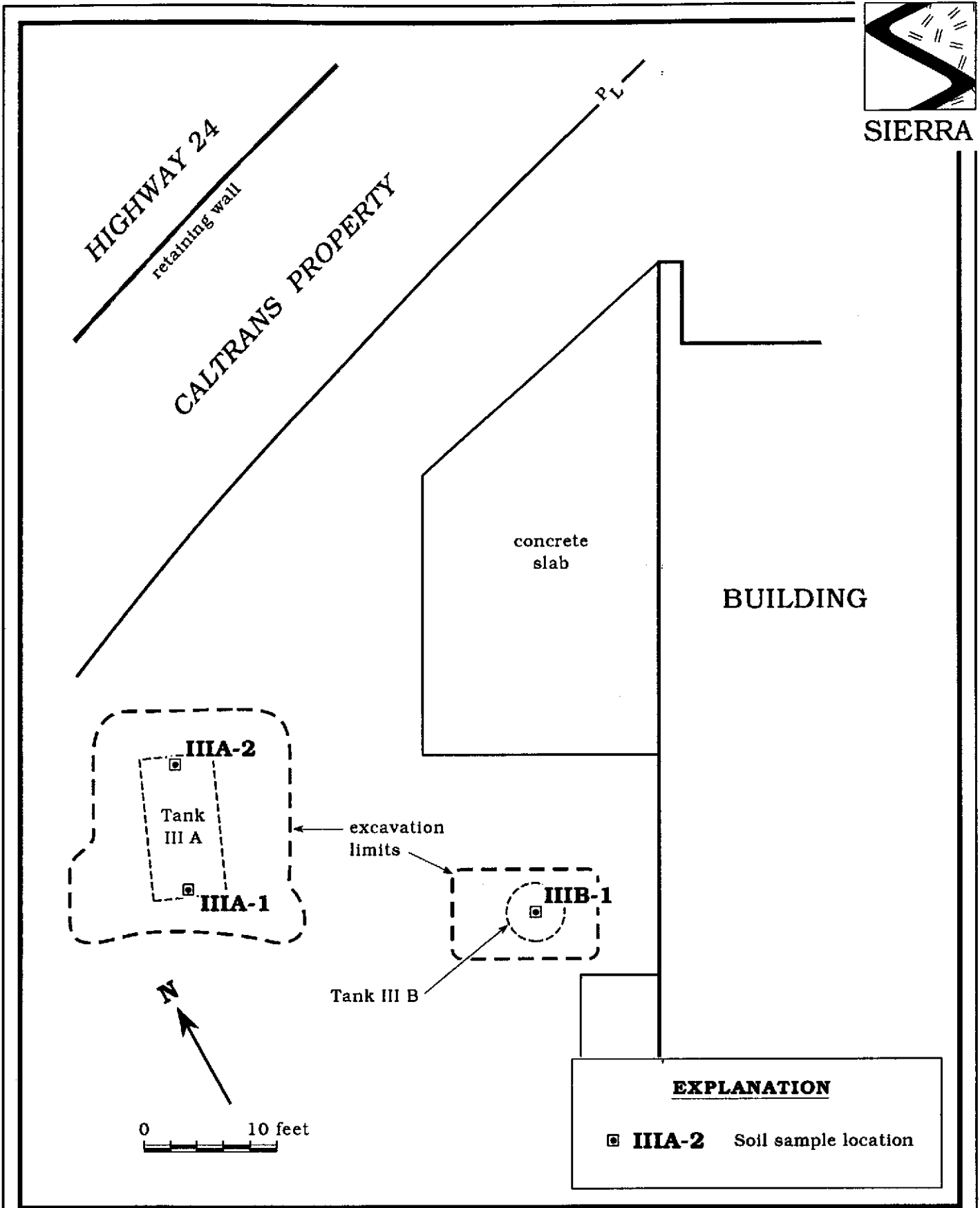
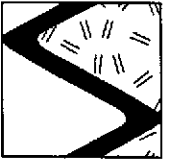


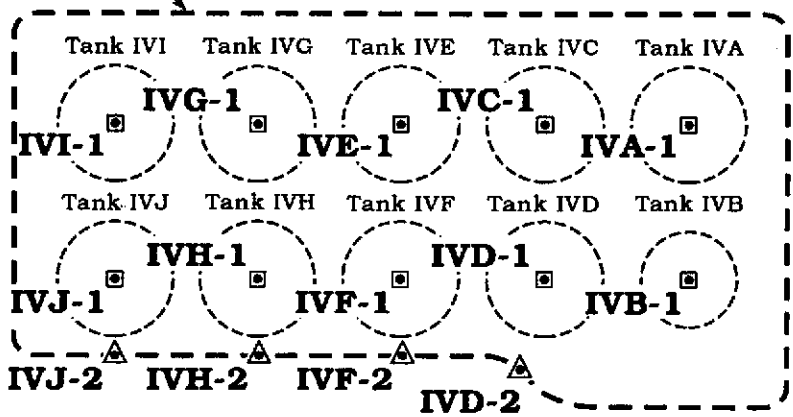
Figure 6. Work Area III - Telegraph Business Park, 5427 Telegraph Avenue, Oakland, California



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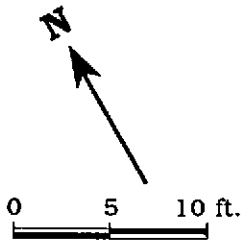
Parking

excavation limit

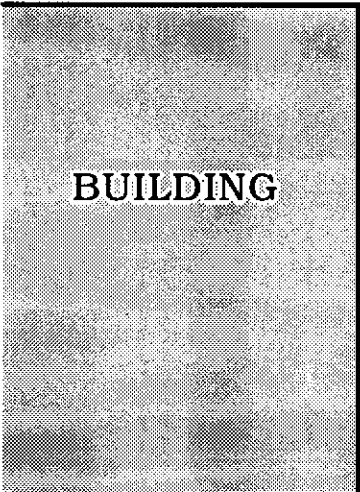


Parking

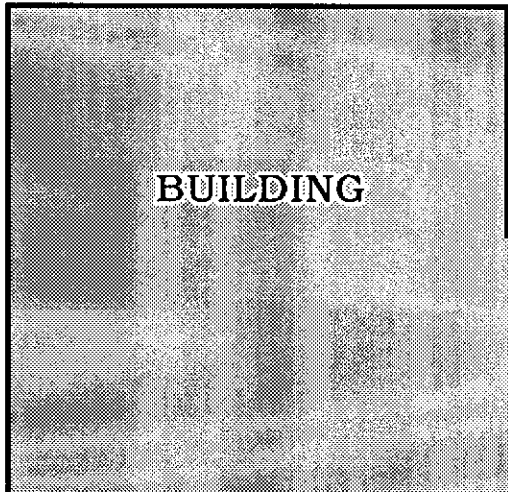
Parking



Hallway



BUILDING



BUILDING

EXPLANATION

☐ **IVJ-1** Bottom soil sample location

▲ **IVJ-2** Sidewall soil sample location

Figure 7. Work Area IV - Telegraph Business Park, 5427 Telegraph Avenue, Oakland, California



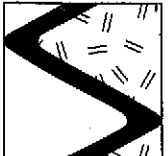
Table 1. Analytic Results for Soil - Telegraph Business Park, 5427 Telegraph Avenue, Oakland, California

Sample ID	Date Sampled	Analytic Method	TPPH(G)	TPH(D)	Stoddard	5520E O&G ppm	B	T	E	X	Metals
IE-1	4/29/92	8015/8020	<1 ¹	---	---	---	<0.005	<0.005	<0.005	0.007	---
IE-2	4/29/92	8015/8020	<1 ¹	---	---	---	<0.005	<0.005	<0.005	0.009	---
IIA-1	5/11/92	8015/8020/5520	<6	45	1,430	<50	<0.3	<0.3	<0.3	6.4	---
IIA-2	5/11/92	8015/8020/5520	<6	120	1,470	105 550	<0.3	<0.3	<0.3	5.8	---
IIA-3	5/11/92	8015/8020/5520	<6	47	1,390	<50	<0.3	<0.3	<0.3	4.8	---
IIA-4	5/11/92	8015/8020/5520	<6	24	1,320	<50	<0.3	<0.3	<0.3	4.4	---
IIB-1	5/11/92	8015/8020/5520	<6	33	1,720	2402 2,285	<0.3	<0.3	<0.3	11	---
IIB-2	5/11/92	8015/8020/5520	<6	32	200	5070	<0.06	<0.06	<0.06	0.54	---
IIB-3	5/11/92	8015/8020/5520	<6	120	1,580	240 6%	<0.06	<0.06	<0.06	9	---
IIC-1	5/15/92	8015/8020	---	17 ¹	---	---	<0.03	<0.03	<0.03	14	---
IIC-2	5/15/92	8015/8020	---	60 ¹	---	---	<0.03	<0.03	<0.03	12	---
IIC-3	5/15/92	8015/8020	---	220 ¹	---	---	<0.03	<0.03	<0.03	5.6	---
IIC-4	5/15/92	8015/8020	---	3.8 ¹	---	---	<0.005	<0.005	<0.005	<0.005	---
IID-1	5/15/92	8015/8020	---	14 ¹	---	---	<0.03	<0.03	<0.03	8.1	---
IID-2	5/15/92	8015/8020	---	31 ¹	---	---	<0.03	<0.03	<0.03	26	---
IID-3	5/15/92	8015/8020	---	<1 ¹	---	---	<0.005	<0.005	<0.005	<0.005	---
IID-4	5/15/92	8015/8020	---	<1 ¹	---	---	<0.005	<0.005	<0.005	<0.005	---



Table 1. Analytic Results for Soil - Telegraph Business Park, 5427 Telegraph Avenue, Oakland, California (continued)

Sample ID	Date Sampled	Analytic Method	TPPH(G)	TPH(D)	Stoddard	O&G	B	T	E	X	Metals
-----ppm----->											
IID-5	5/15/92	8015/8020	---	<1 ¹	---	---	<0.005	<0.005	<0.005	0.038	---
IIIA-1	5/11/92	8015/8020	---	260*	---	---	<0.3	<0.3	<0.3	1.8	---
IIIA-2	5/11/92	8015/8020	---	<1	---	---	<0.03	<0.03	<0.03	0.62	---
IIIB-1	5/11/92	8015/8020/5520 6010	<6 ---	<1 ---	570 ---	<50 ---	<0.3 ---	<0.3 ---	<0.3 ---	1.9 ---	---
IVB-1	5/15/92	8015/8020	---	<1 ¹	---	---	<0.005	<0.005	<0.005	0.22	---
IVC-1	5/19/92	8015/8020	---	21 ¹	---	---	<0.03	<0.03	<0.03	5.2	---
IVD-1	5/19/92	8015/8020	---	3.9 ¹	---	---	<0.03	<0.03	<0.03	9.4	---
IVD-2	5/19/92	8015/8020	---	16 ¹	---	---	<0.03	<0.03	<0.03	14	---
IVE-1	5/20/92	8015/8020	---	130 ¹	---	---	<0.03	<0.03	<0.03	15	---
IVF-1	5/20/92	8015/8020	---	100 ¹	---	---	<0.03	<0.03	<0.03	4.4	---
IVF-2	5/20/92	8015/8020	---	40 ¹	---	---	<0.03	<0.03	<0.03	5.8	---
IVG-1	5/21/92	8015/8020	---	<1 ¹	---	---	<0.03	<0.03	<0.03	5.7	---
IVH-1	5/21/92	8015/8020	---	<1 ¹	---	---	<0.03	<0.03	<0.03	6.9	---
IVH-2	5/21/92	8015/8020	---	<1 ¹	---	---	<0.03	<0.03	<0.03	4.6	---
IVI-1	5/22/92	8015/8020	---	50 ¹	---	---	<0.03	<0.03	<0.03	27	---



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Table 1. Analytic Results for Soil - Telegraph Business Park, 5427 Telegraph Avenue, Oakland, California (continued)

Sample ID	Date Sampled	Analytic Method	TPPH(G)	TPH(D)	Stoddard	O&G	B	T	E	X	Metals
-----ppm----->											
IVJ-1	5/22/92	8015/8020	---	12 ¹	---	---	<0.03	<0.03	<0.03	3.9	---
IVJ-2	5/22/92	8015/8020	---	<1 ¹	---	---	<0.03	<0.03	<0.03	0.58	---

EXPLANATION:

TPPH(G) = Total Purgeable Petroleum Hydrocarbons as Gasoline
 TPH(D) = Total Petroleum Hydrocarbons as Diesel
 Stoddard = Stoddard Solvent
 O&G = Oil and Grease (non-polar)
 B = Benzene
 T = Toluene
 E = Ethylbenzene
 X = Xylenes
 Metals = Cadmium (Cd), Chromium (Cr), Nickel (Ni), Lead (Pb) and Zinc (Zn)
 ppm = Parts per million
 --- = Not analyzed

ANALYTIC METHODS:

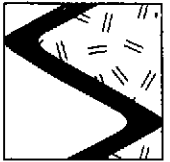
8015 = EPA Method 8015/5030 for TPPH(G)/Stoddard Solvent
 8015 = Modified EPA Method 8015/3550 for TPH(D)
 8020 = EPA Method 8020 for BTEX
 5520 = EPA Method 5520E&F for O&G
 6010 = EPA Method 6010 for Cd, Cr, Pb, Ni and Zn

ANALYTIC LABORATORY:

All samples were analyzed by Precision Analytical Laboratory, Inc. of Richmond, California

NOTES:

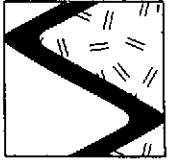
- * Quantified by the analytical laboratory as "diesel range" hydrocarbons.
- ** Cadmium, chromium, nickel, lead and zinc detected at 20, 47.5, <1.5, <3, and 67.8 ppm, respectively.
- ¹ The analytic laboratory reported that a stoddard solvent pattern was observed in the chromatogram.



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Table 2. Analytic Results for Soil - Volatile Organic Compounds - Telegraph Business Park, 5427 Telegraph Avenue, Oakland, California

Sample ID	Date Sampled	Analytic Method	1,2-DCE	TCE	PCE	BEP	PA	DNO	Other VOCs
			-----ppm-----						
IIA-1	5/11/92	8010	1.6	3.9	43	---	---	---	ND ¹
		8270	---	---	---	0.35	<0.1	<0.13	ND ²
IIA-2	5/11/92	8010	0.86	2.1	6.0	---	---	---	ND ¹
		8270	---	---	---	2	0.23	<0.13	ND ²
IIA-3	5/11/92	8010	2.1	0.54	1.4	---	---	---	ND ¹
		8270	---	---	---	0.82	<0.1	0.49	ND ²
IIA-4	5/11/92	8010	1.9	0.1	0.18	---	---	---	ND ¹
		8270	---	---	---	0.7	<0.1	0.9	ND ²
IIB-1	5/11/92	8010	1.8	---	---	---	---	---	ND ¹
		8270	---	---	---	<0.1	0.32	<0.13	ND ²
IIB-2	5/11/92	8010	3.4	0.034	0.16	---	---	---	ND ¹
		8270	---	---	---	0.9	0.1	<0.13	ND ²
IIB-3	5/11/92	8010	5.2	1.2	4.6	---	---	---	ND ¹
		8270	---	---	---	3.0	<0.1	<0.13	ND ²
IIIB-1	5/11/92	8010	<0.008	<0.005	<0.018	---	---	---	ND ¹
		8270	---	---	---	<0.1	<0.1	<0.13	ND ²



SIERRA

Table 2. Analytic Results for Soil - Volatile Organic Compounds - Telegraph Business Park, 5427 Telegraph Avenue, Oakland, California
(continued)

EXPLANATION:

1,2-DCE = Cis-1,2-dichloroethene
TCE = Trichloroethene
PCE = Tetrachloroethene
BEP = Bis-(2-ethylhexyl)phthalate
PA = Phenanthracene
DNO = Di-n-octylphthalate
ppm = Parts per million
ND = Not detected
HVOCs = Halogenated Volatile Organic Compounds
SVOCs = Semi-volatile Organic Compounds

ANALYTIC METHODS:

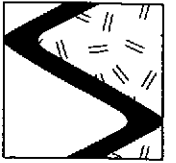
8010 = EPA Method 8010 for HVOCs
8270 = EPA Method 8270 for SVOCs

ANALYTIC LABORATORY:

All samples were analyzed by Precision Analytical Laboratory, Inc. of Richmond, California

NOTES:

- ¹ Other HVOCs were not detected at detection limits ranging from 0.003 to 0.0251 ppm.
- ² Other SVOCs were not detected at detection limits ranging from 0.04 to 1 ppm.



SIERRA

APPENDIX C
SIERRA ENVIRONMENTAL SERVICES
STANDARD OPERATING PROCEDURE



STANDARD OPERATING PROCEDURE

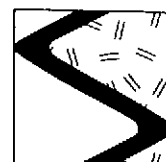
SOIL SAMPLING - STOCKPILES AND EXCAVATIONS

The following describes sampling procedures used by SES field personnel to collect, handle, and transport soil samples from stockpiles and excavations. Before samples are collected, careful consideration is given to the type of analysis to be performed so that precautions are taken to prevent loss of volatile components or contamination of the sample, and to preserve the sample for subsequent analysis.

All sampling equipment is washed with an EPA-approved detergent (such as liquinox or trisodium phosphate) between samples. Sample collection methods specific to excavations and stockpiles are presented below.

Samples for both stockpiles and excavations are collected using 2- or 2.5-inch I.D. x 4- or 6-inch long steam-cleaned or new stainless steel or brass tubes. Approximately three inches of soil are removed from the surface of the stockpile or the sidewall or bottom of the excavation immediately prior to sample collection. A backhoe or other machinery may be used to collect a bucket sample from a deep (greater than 5 feet) excavation. The brass tube is driven into the sidewall or bottom of the excavation (or bucket sample), twisted and removed when it has been filled. The soil material is immediately trimmed flush with the tube ends, and sealed with Teflon tape beneath polyethylene end caps. The caps are hermetically sealed to the brass tube with duct tape. The sample is then labeled to include the date, location and number of sample, project number, SES (company name), and the SES field personnel's initials. The samples are put into a plastic "zip-lock" type bag and placed into an ice chest maintained below 4°C with blue ice or dry ice, for transport under chain of custody to the laboratory.

The chain of custody form includes the project number, analysis requested, sample ID, date analysis and the SES field personnel's name. The form is signed, dated and timed by each person who yields or receives the samples beginning with the field personnel and ending with the laboratory personnel.



SIERRA

APPENDIX D
CHAIN OF CUSTODY DOCUMENTS AND
LABORATORY ANALYTIC REPORTS

CHAIN OF CUSTODY

Sierra Environmental Services - P.O. Box 2546, Martinez, CA 94553 (510) 370-1280

John Trigg or
Att'n: Chris Braner

PROJECT NO. 4-719-03		SAMPLERS (Signature) <i>J.F. Leung</i> (J.F. Leung)				ANALYSIS REQUESTED TPH - Gas or Diesel BTX - (8020) Halogenated (8010) Oil & Grease PCB - (8080) Metals (CAM-17) 8240							
PROJECT NAME AND ADDRESS: <u>Telegraph Business Park</u>													
CROSS REFERENCE NUMBER	DATE	TIME	Soil	Water	STATION LOCATION	TPH - Gas or Diesel	BTX - (8020)	Halogenated (8010)	Oil & Grease	PCB - (8080)	Metals (CAM-17)	8240	REMARKS
	4/30/92	11:00			IE-1 (SW end of trench)	✓	✓						
	↓	11:15			IE-2 (NE end of trench)	✓	✓						
RELINQUISHED BY: (Signature) <i>J.F. Leung</i>					DATE 4/30/92	RECEIVED BY: (Signature) <i>John Trigg</i>					DATE 4/30/92		
					TIME 15:04						TIME 3:04 PM		
RELINQUISHED BY: (Signature)					DATE	RECEIVED BY: (Signature)					DATE		
					TIME						TIME		
RELINQUISHED BY: (Signature)					DATE	RECEIVED BY: (Signature)					DATE		
					TIME						TIME		
RELINQUISHED BY: (Signature)					DATE	RECEIVED BY: (Signature)					DATE		
					TIME						TIME		

Turnaround Time: * 24 hrs _____ * 2/3 days 3 * 4/5 _____ Normal _____ * Surcharge Applies

Special Instructions: _____

Possible Sample Hazards: _____

Chain-of-Custody Record

Facility **Telegraph Business Park**
 Facility Address **5427 Telegraph Ave, Oakland, CA**
 Consultant Project Number **4-719-03**
 Consultant Name **SIERRA ENVIRONMENTAL SERVICES**
 Address **P.O. Box 2546, Martinez, CA 94553**
 Project Contact (Name) **John Trigg**
 (Phone) **(415) 370-1280**
 (FAX Number) **(415) 370-7959**

Client Contact (Name) **N/A**
 (Company) **N/A**
 (Phone) **N/A**
 Laboratory Name **Precision Analytical**
 Samples Collected by (Name) **John Trigg**
 Collection Date **5/11/92**
 Signature *John Trigg*

Laboratory Number	Sample Identification	# - size of Container(s)	Matrix S = Soil W = Water C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (yes or no)	ANALYSIS TO BE PERFORMED										Remarks
								BTEX + TPH Gas (802/8020 + 8015/5030)	TPH Diesel (8015/3550/3510)	Oil and Grease (Non-polar) (5520 B/E/F)	Halogenated Hydrocarbons (601/8010)	Volatile Organic Compounds (624/8240)	Total Lead (AA)	Metals: Cd, Cr, Ni, Pb, Zn (ICAP or AA)	Organic lead (DHS LUFT)	Semi - VOCs 8270	BTEX Only 8020	
IIA-1	ICA 2X6	S	N/A	-	None	Y	X	X	X	X		X		X			Analyze	
IIA-2							X	X	X	X		X		X			↓	
IIA-3							X	X	X	X		X		X				
IIA-4							X	X	X	X		X		X				
IIB-1							X	X	X	X		X		X				
IIB-2							X	X	X	X		X		X				
IIB-3							X	X	X	X		X		X				
IIIA-1								X							X			
IIIA-2								X							X			
IIIB-1							X	X	X	X		X		X				

Relinquished By (Signature) <i>John Trigg</i>	Organization SES	Date/Time 5/12/92-0900	Received By (Signature) <i>Gregg Miller</i>	Organization SES	Date/Time 0900 12 MAY '92	Turn Around Time (Circle One) 24 hours 48 hours 5 days 7-10 days As Contracted
Relinquished By (Signature) <i>Gregg Miller</i>	Organization SES	Date/Time 1446 12 MAY '92	Received By (Signature) <i>Katherine Sidhu</i>	Organization	Date/Time	
Relinquished By (Signature)	Organization	Date/Time	Received for Laboratory by (Signature)	Organization	Date/Time 5-12-92 1446	

Chain-of-Custody Record

Facility Telegraph Business Park
 Facility Address Oakland, CA
 Consultant Project Number 4-719-03
 Consultant Name SIERRA ENVIRONMENTAL SERVICES
 Address P.O. Box 2546, Martinez, CA 94553
 Project Contact (Name) John Trigg
 (Phone) (415) 370-1280
 (FAX Number) (415) 370-7959

Client Contact (Name) J.L.
 (Company) -
 (Phone) -
 Laboratory Name Precision Analytical Lab
 Samples Collected by (Name) J. Trigg
 Collection Date 5/15/92
 Signature [Signature]

Laboratory Number	Sample Identification	# - size of Container(s)	Matrix S = Soil W = Water A = Air C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (yes or no)	ANALYSIS TO BE PERFORMED										Remarks	
								BTEX + TPH Gas (602/8020 + 8015/5030)	TPH Diesel (8015/3550/3510)	Oil and Grease (Non-polar) (5520 B/E/F)	Halogenated Hydrocarbons (601/8010)	Volatile Organic Compounds (624/8240)	Total Lead (AA)	Metals: Cd, Cr, Ni, Pb, Zn (ICAP or AA)	Organic lead (DHS LUFT)	8020 BTX Only			
	TC-1	1 ea 2"X6"	S	N/A	-	None	Y	X										X	Analyze
	2				-			X										X	
	3				-			X										X	
	4				-			X										X	
	TCD-1				-			X										X	
	2				-			X										X	
	3				-			X										X	
	4				-			X										X	
	5				-			X										X	
	TVA-1				-			X										X	
	TVB-1				-			X										X	

Relinquished By (Signature) <u>[Signature]</u>	Organization <u>SES</u>	Date/Time <u>5/12/92-</u>	Received By (Signature) <u>[Signature]</u>	Organization	Date/Time	Turn Around Time (Circle One) 24 hours 48 hours 5 days <u>10 days</u> As Contracted
Relinquished By (Signature) <u>[Signature]</u>	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	
Relinquished By (Signature)	Organization	Date/Time	Received for Laboratory by (Signature) <u>[Signature]</u>		Date/Time <u>5-13-92 10:10 AM</u>	

Chain-of-Custody Record

Facility No. <u>Telegraph Business Park.</u> Facility Address <u>Oakland, CA</u> Consultant Project Number <u>4-719-03</u> Consultant Name <u>SIERRA ENVIRONMENTAL SERVICES</u> Address <u>P.O. Box 2546, Martinez, CA 94553</u> Project Contact (Name) <u>John Trigg</u> (Phone) <u>(415) 370-1280</u> (FAX Number) <u>(415) 370-7959</u>	Client Contact (Name) <u>J.L.</u> (Company) <u>-</u> (Phone) <u>-</u> Laboratory Name <u>Precision Analytical Lab</u> Samples Collected by (Name) <u>John Trigg</u> Collection Date <u>5/19/92</u> Signature <u>John Trigg</u>
---	--

Laboratory Number	Sample Identification	# - size of Container(s)	Matrix S = Soil W = Water A = Air C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (yes or no)	ANALYSIS TO BE PERFORMED										Remarks		
								BTEX + TPH Gas (602/8020 + 8015/5030)	TPH Diesel (8015/3550/3510)	Oil and Grease (Non-polar) (5520 B/E/F)	Halogenated hydrocarbons (601/8010)	Volatile Organic Compounds (624/8240)	Total Lead (AA)	Metals: Cd, Ni, Pb, Zn (ICAP or AA)	Organic lead (DHS LUFT)	8020	BTEX Only			
	TRC-1	1 ea 2x6	S	N/A	-	None	Y		X									X		Analyze
	TRD-1	↓	↓	↓	-	↓	↓		X									X		↓
	TRD-2	↓	↓	↓	-	↓	↓		X									X		↓
<div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); opacity: 0.5; font-size: 4em;">/</div>																				

Relinquished By (Signature)	Organization <u>SES</u>	Date/Time <u>5/19/92 1050</u>	Received By (Signature)	Organization <u>SES</u>	Date/Time <u>1050 5/19/92</u>	Turn Around Time (Circle One) 24 hours 48 hours 5 days <u>10 days</u> As Contracted
Relinquished By (Signature)	Organization <u>SES</u>	Date/Time <u>5/19/92 1515</u>	Received By (Signature)	Organization	Date/Time	
Relinquished By (Signature)	Organization	Date/Time	Received for Laboratory by (Signature)		Date/Time <u>5/19/92 3:15pm</u>	

Direct Bill to John Legallet Chain-of-Custody Record

Facility <u>Telegraph Business Park</u> Facility Address <u>Oakland, CA.</u> Consultant Project Number <u>4-219-03</u> Consultant Name <u>SIERRA ENVIRONMENTAL SERVICES</u> Address <u>P.O. Box 2546, Martinez, CA 94553</u> Project Contact (Name) <u>John Trigg</u> (Phone) <u>(415) 370-1280</u> (FAX Number) <u>(415) 370-7959</u>	Client Contact (Name) <u>John Legallet</u> (Company) <u>Telegraph Business Properties</u> (Phone) _____ Laboratory Name <u>Precision Analytical Lab</u> Samples Collected by (Name) <u>John Trigg</u> Collection Date <u>5/20/92</u> Signature <u>John Trigg</u>
---	--

Laboratory Number	Sample Identification	# - size of Container(s)	Matrix S = Soil W = Water C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (yes or no)	ANALYSIS TO BE PERFORMED										Remarks
								BTEX + TPH Gas (602/8020 + 8015/5030)	TPH Diesel (8015/3550/3510)	Oil and Grease (Non-polar) (5520 B/E/F)	Halogenated Hydrocarbons (601/8010)	Volatile Organic Compounds (624/8240)	Total Lead (AA)	Metals: Cd, Cr, Ni, Pb, Zn (ICAP or AA)	Organic lead (DHS LUFT)	BTEX only 8020		
IVE-1		S	N/A	-	None	Y	X								X	Analyze		
IVF-1		S	N/A	-	None	Y	X								X	Analyze		
IVF-2		S	N/A	-	None	Y	X								X	Analyze		

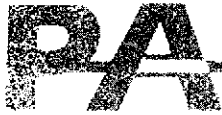
Relinquished By (Signature) <u>[Signature]</u>	Organization <u>SES</u>	Date/Time <u>5/21/92 9:30 am</u>	Received by (Signature) <u>[Signature]</u>	Organization <u>SES</u>	Date/Time <u>5/21/92 9:30 am</u>	Turn Around Time (Circle One) 24 hours 48 hours 5 days <u>10 days</u> As Contracted
Relinquished By (Signature) <u>[Signature]</u>	Organization <u>SES</u>	Date/Time <u>5/21/92 11:15 am</u>	Received by (Signature) <u>[Signature]</u>	Organization <u>SES</u>	Date/Time <u>5/21/92 11:15 am</u>	
Relinquished By (Signature) <u>[Signature]</u>	Organization <u>SES</u>	Date/Time <u>5/21/92 11:15 am</u>	Received for Laboratory by (Signature) <u>[Signature]</u>	Organization <u>SES</u>	Date/Time <u>5/21/92 11:15 am</u>	

Chain-of-Custody Record

Facility ● <u>Telegraph Business Park</u> Facility Address <u>Oakland, CA</u> Consultant Project Number <u>4-719-05</u> Consultant Name <u>SIERRA ENVIRONMENTAL SERVICES</u> Address <u>P.O. Box 2546, Martinez, CA 94553</u> Project Contact (Name) <u>John Trigg</u> (Phone) <u>(415) 370-1280</u> (FAX Number) <u>(415) 370-7959</u>	Client Contact (Name) <u>J. Legallet</u> (Company) _____ (Phone) _____ Laboratory Name <u>Precision Analytical</u> Samples Collected by (Name) <u>John Trigg</u> Collection Date <u>5/21+22/92</u> Signature <u>[Signature]</u>
--	---

Laboratory Number	Sample Identification	# - size of Container(s)	Matrix S = Soil A = Air W = Water C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (yes or no)	ANALYSIS TO BE PERFORMED										Remarks				
								BTEX + TPH Gas (602/8020 + 8015/5030)	TPH Diesel (8015/3550/3510)	Oil and Grease (Non-polar) (5520 B/E/F)	Halogenated Hydrocarbons (601/8010)	Volatile Organic Compounds (624/8240)	Total Lead (AA)	Metals: Cd, Cr, Ni, Pb, Zn (ICAP or AA)	Organic lead (DHS LUFT)	BTEX ONLY 8020						
IVG-1	1 ea	2x6	S	N/A	-	None	Y		X													* Note Sample Date *
IVH-1									X													↓
IVH-2									X													
IVI-1									X													
IVJ-1									X													
IVJ-2									X													

Relinquished By (Signature)	Organization <u>SES</u>	Date/Time <u>11:40 A</u> <u>May 26, 92</u>	Received By (Signature)	Organization <u>SES</u>	Date/Time <u>May 26, 92</u>	Turn Around Time (Circle One) 24 hours 48 hours 5 days <u>10 days</u> As Contracted
Relinquished By (Signature)	Organization <u>SES</u>	Date/Time <u>11:04 A</u> <u>May 26, 92</u>	Received By (Signature)	Organization	Date/Time	
Relinquished By (Signature)	Organization	Date/Time	Received for Laboratory by (Signature)		Date/Time <u>5-26-92 11:00 AM</u>	



Precision Analytical Laboratory, Inc.

4136 LAKESIDE DRIVE, RICHMOND, CA 94806

PHONE (510) 222-3002

FAX (510) 222-1251

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. E 750

Received: 04/30/92
Reported: 05/05/92
Job #: 73480

Attn: John Trigg
Sierra Environmental Services
P.O. Box 2546
Martinez, CA 94553

Project: Telegraph Business Park
#4-719-03
Matrix: Soil

Total Petroleum Hydrocarbon Analysis
EPA Method 5030
mg/Kg

<u>Lab ID</u>	<u>Client ID</u>	<u>Gasoline</u>	<u>MDL</u>
73480-1	IE-1 (SW end of trench)	ND<1.0	1.0
73480-2	IE-2 (NE end of trench)	ND<1.0	1.0

QA/QC: Spike Recovery: 94%

MDL: Method Detection Limit. Compound below this level would not be detected.

Jaime Chow
Laboratory Director

JC/td



Precision Analytical Laboratory, Inc.

4136 LAKESIDE DRIVE, RICHMOND, CA 94806

PHONE (510) 222-3002

FAX (510) 222-1251

REVISED CERTIFICATE OF ANALYSIS

STATE LICENSE NO. E 750

Received: 04/30/92
 Reported: 06/04/92
 Job #: 73480

Attn: John Trigg
 Sierra Environmental Services
 P.O. Box 2546
 Martinez, CA 94553

Project: Telegraph Business Park
 #4-719-03
 Matrix: Soil

Aromatic Volatile Hydrocarbon Analysis *
 EPA Method 8020
 mg/Kg

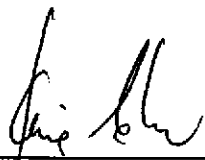
<u>Lab ID</u>	<u>Client ID</u>	<u>Benzene</u>	<u>MDL</u>	<u>Toluene</u>	<u>MDL</u>
73480-1	IE-1 (SW end of trench)	ND<0.005	0.005	ND<0.005	0.005
73480-2	IE-2 (NE end of trench)	ND<0.005	0.005	ND<0.005	0.005

<u>Lab ID</u>	<u>Client ID</u>	<u>Ethyl-benzene</u>	<u>MDL</u>	<u>Xylenes</u>	<u>MDL</u>
73480-1	IE-1 (SW end of trench)	ND<0.005	0.005	0.007	0.005
73480-2	IE-2 (NE end of trench)	ND<0.005	0.005	0.009	0.005

* All Samples Contain Stoddard Solvent

QA/QC: Spike Recovery for Benzene: 75%
 Spike Recovery for Toluene: 88%
 Spike Recovery for Xylene: 81%

MDL: Method Detection Limit. Compound below this level would not be detected.



 Jaime Chow
 Laboratory Director

OUTSTANDING QUALITY AND SERVICE
 CALIFORNIA STATE CERTIFIED LABORATORY

JC/td



Precision Analytical Laboratory, Inc.

4136 LAKESIDE DRIVE, RICHMOND, CA 94806

PHONE (510) 222-3002

FAX (510) 222-1251

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. E 750

Received: 05/12/92
Reported: 06/02/92
Job #: 73532

Attn: John Trigg
Sierra Environmental Services
P.O. Box 2546
Martinez, CA 94553

Project: Telegraph Business Park/#4-719-03
5427 Telegraph Avenue
Oakland, CA

Matrix: Soil

Total Petroleum Hydrocarbon Analysis
EPA Method 5030
mg/Kg

Table with 4 columns: Lab ID, Client ID, Gasoline, MDL. Rows include sample IDs like 73532-1 to 73532-10 and their corresponding results.

QA/QC: Spike Recovery: 114%

MDL: Method Detection Limit. Compound below this level would not be detected.

Signature of Jaime Chow
Jaime Chow
Laboratory Director

JC/td



Precision Analytical Laboratory, Inc.

4136 LAKESIDE DRIVE, RICHMOND, CA 94806

PHONE (510) 222-3002

FAX (510) 222-1251

REVISED CERTIFICATE OF ANALYSIS

STATE LICENSE NO. E 750

Received: 05/12/92
Reported: 06/02/92
Job #: 73532

Attn: John Trigg
Sierra Environmental Services
P.O. Box 2546
Martinez, CA 94553

Project: Telegraph Business Park/#4-719-03
5427 Telegraph Avenue
Oakland, CA


Matrix: Soil

Total Petroleum Hydrocarbon Analysis
EPA Method 5030
mg/Kg

<u>Lab ID</u>	<u>Client ID</u>	<u>Stoddard Solvent</u>	<u>MDL</u>
73532-1	IIA-1	1,430	60
73532-2	IIA-2	1,470	60
73532-3	IIA-3	1,390	60
73532-4	IIA-4	1,320	60
73532-5	IIB-1	1,720	60
73532-6	IIB-2	200	6.0
73532-7	IIB-3	1,580	60
73532-10	IIIB-1	570	12.0

QA/QC: Spike Recovery: 104%

MDL: Method Detection Limit. Compound below this level would not be detected.



Jaime Chow
Laboratory Director

JC/td



Precision Analytical Laboratory, Inc.

4136 LAKESIDE DRIVE, RICHMOND, CA 94806

PHONE (510) 222-3002

FAX (510) 222-1251

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. E 750

Received: 05/12/92
Extraction: 05/13/92
Reported: 05/26/92
Job #: 73532

Attn: John Trigg
Sierra Environmental Services
P.O. Box 2546
Martinez, CA 94553

Project: Telegraph Business Park/#4-719-03
5427 Telegraph Avenue, Oakland, CA
Matrix: Soil

Total Petroleum Hydrocarbon Analysis
DHS Extraction Method (LUFT)
mg/Kg

Table with 4 columns: Lab ID, Client ID, Diesel, MDL. Rows 1-10 showing analysis results for various samples.

* TPH in Diesel Range

QA/QC: Spike Recovery: 115%

MDL: Method Detection Limit. Compound below this level would not be detected.

Signature of Jaime Chow
Jaime Chow
Laboratory Director

JC/td



Precision Analytical Laboratory, Inc.

4136 LAKESIDE DRIVE, RICHMOND, CA 94806

PHONE (510) 222-3002

FAX (510) 222-1251

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. E 750

Received: 05/12/92

Reported: 05/26/92

Job #: 73532

Attn: John Trigg
Sierra Environmental Services
P.O. Box 2546
Martinez, CA 94553

Project: Telegraph Business Park/#4-719-03
5427 Telegraph Avenue
Oakland, CA

Matrix: Soil

Total Oil and Grease
EPA Method 5520E
mg/Kg

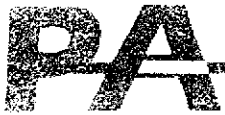
<u>Lab ID</u>	<u>Client ID</u>	<u>Oil and Grease</u>	<u>MDL</u>
73532-1	IIA-1	ND<50	50
73532-2	IIA-2	105	50
73532-3	IIA-3	ND<50	50
73532-4	IIA-4	ND<50	50
73532-5	IIB-1	8,400	50
73532-6	IIB-2	70	50
73532-7	IIB-3	695	50
73532-10	IIIB-1	60	50

QA/QC: Spike Recovery: 91.4%

MDL: Method Detection Limit. Compound below this level would not be detected.

Jaime Chow
Laboratory Director

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STATE LICENSE NO. E 750

Received: 05/12/92

Reported: 05/26/92

Job #: 73532

Attn: John Trigg
Sierra Environmental Services
P.O. Box 2546
Martinez, CA 94553

Project: Telegraph Business Park/#4-719-03
5427 Telegraph Avenue
Oakland, CA

Matrix: Soil

Total Hydrocarbons
EPA Method 5520F
mg/Kg

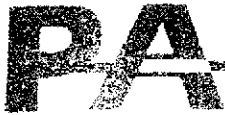
<u>Lab ID</u>	<u>Client ID</u>	<u>Total Hydrocarbons</u>	<u>MDL</u>
73532-1	IIA-1	ND<50	50
73532-2	IIA-2	ND<50	50
73532-3	IIA-3	ND<50	50
73532-4	IIA-4	ND<50	50
73532-5	IIB-1	2,285	50
73532-6	IIB-2	ND<50	50
73532-7	IIB-3	240	50
73532-10	IIIB-1	ND<50	50

QA/QC: Spike Recovery: 98.3%

MDL: Method Detection Limit. Compound below this level would not be detected.

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Project: Telegraph Business Park/#4-719-03
 5427 Telegraph Avenue, Oakland, CA
 Matrix: Soil

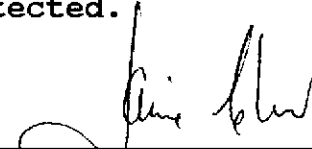
Aromatic Volatile Hydrocarbon Analysis
 EPA Method 8020
 mg/Kg

<u>Lab ID</u>	<u>Client ID</u>	<u>Benzene</u>	<u>MDL</u>	<u>Toluene</u>	<u>MDL</u>
73532-1	IIA-1	ND<0.3	0.3	ND<0.3	0.3
73532-2	IIA-2	ND<0.3	0.3	ND<0.3	0.3
73532-3	IIA-3	ND<0.3	0.3	ND<0.3	0.3
73532-4	IIA-4	ND<0.3	0.3	ND<0.3	0.3
73532-5	IIB-1	ND<0.3	0.3	ND<0.3	0.3
73532-6	IIB-2	ND<0.06	0.06	ND<0.06	0.06

<u>Lab ID</u>	<u>Client ID</u>	<u>Ethyl- benzene</u>	<u>MDL</u>	<u>Xylenes</u>	<u>MDL</u>
73532-1	IIA-1	ND<0.3	0.3	6.4	0.3
73532-2	IIA-2	ND<0.3	0.3	5.8	0.3
73532-3	IIA-3	ND<0.3	0.3	4.8	0.3
73532-4	IIA-4	ND<0.3	0.3	4.4	0.3
73532-5	IIB-1	ND<0.3	0.3	11	0.3
73532-6	IIB-2	ND<0.06	0.06	0.54	0.06

QA/QC: Spike Recovery for Benzene: 113%
 Spike Recovery for Toluene: 105%
 Spike Recovery for Xylene: 93%

MDL: Method Detection Limit. Compound below this level would not be detected.



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 Matrix: Soil

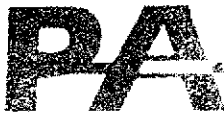
Aromatic Volatile Hydrocarbon Analysis
 EPA Method 8020
 mg/Kg

<u>Lab ID</u>	<u>Client ID</u>	<u>Benzene</u>	<u>MDL</u>	<u>Toluene</u>	<u>MDL</u>
73532-7	IIB-3	ND<0.06	0.06	ND<0.06	0.06
73532-8	IIIA-1	ND<0.3	0.3	ND<0.3	0.3
73532-9	IIIA-2	ND<0.03	0.03	ND<0.03	0.03
73532-10	IIIB-1	ND<0.3	0.3	ND<0.3	0.3

<u>Lab ID</u>	<u>Client ID</u>	<u>Ethyl- benzene</u>	<u>MDL</u>	<u>Xylenes</u>	<u>MDL</u>
73532-7	IIB-3	ND<0.06	0.06	9.0	0.06
73532-8	IIIA-1	ND<0.3	0.3	1.8	0.3
73532-9	IIIA-2	ND<0.03	0.03	0.62	0.03
73532-10	IIIB-1	ND<0.3	0.3	1.9	0.3

QA/QC: Spike Recovery for Benzene: 113%
 Spike Recovery for Toluene: 105%
 Spike Recovery for Xylene: 93%

MDL: Method Detection Limit. Compound below this level would not be detected.



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Project: Telegraph Business Park/#4-719-03
5427 Telegraph Avenue, Oakland, CA
Matrix: Soil

PURGEABLE HALOCARBONS
EPA Method 8010
mg/Kg

Table with 3 columns: Lab ID, Client ID, and MDL. Lists various chemical compounds and their detection levels.

Average Spike Recovery: 96%

MDL: Method Detection Limit. Compound below this level would not be detected.

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Jaime Chow

Laboratory Director

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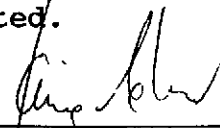
Project: Telegraph Business Park/#4-719-03
5427 Telegraph Avenue, Oakland, CA
Matrix: Soil

PURGEABLE HALOCARBONS
EPA Method 8010
mg/Kg

Lab ID:	73532-2	
Client ID:	IIA-2	MDL
Bromomethane & Chloromethane	ND<0.023	0.023
Vinyl Chloride & Chloromethane	ND<0.251	0.251
Freon 113	ND<0.012	0.012
1,1-Dichloroethene	ND<0.011	0.011
Methylene Chloride	ND<0.104	0.104
Trans-1,2-Dichloroethene	ND<0.068	0.068
1,1-Dichloroethane	ND<0.021	0.021
Cis-1,2-Dichloroethene	0.86	0.008
Chloroform	ND<0.003	0.003
1,1,1-Trichloroethane	ND<0.009	0.009
Carbon Tetrachloride	ND<0.011	0.011
1,2-Dichloroethane	ND<0.004	0.004
Trichloroethene	2.1	0.005
1,2-Dichloropropene	ND<0.003	0.003
2-Chloro-vinyl ether	ND<0.008	0.008
Bromodichloromethane	ND<0.003	0.003
T-1,3-Dichloropropene	ND<0.003	0.003
Cis-1,3-Dichloropropene	ND<0.010	0.010
1,1,2-Trichloroethane	ND<0.006	0.006
Tetrachloroethene	6.0	0.006
Dibromochloromethane	ND<0.005	0.005
Chlorobenzene	ND<0.007	0.007
Bromoform	ND<0.003	0.003
1,1,2,2-Tetrachloroethane	ND<0.005	0.005
1,3-Dichlorobenzene	ND<0.003	0.003
1,4-Dichlorobenzene	ND<0.005	0.005
1,2-Dichlorobenzene	ND<0.004	0.004

Average Spike Recovery: 96%

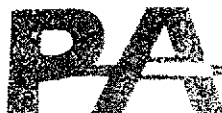
MDL: Method Detection Limit. Compound below this level would not be detected.



Jaime Chow
Laboratory Director

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Job #: 73532

Project: Telegraph Business Park/#4-719-03
5427 Telegraph Avenue, Oakland, CA
Matrix: Soil

PURGEABLE HALOCARBONS
EPA Method 8010
mg/Kg

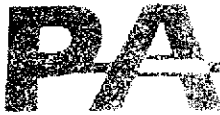
Table with 3 columns: Lab ID, Client ID, and MDL. Lists various chemical compounds and their detection levels.

Average Spike Recovery: 96%
MDL: Method Detection Limit. Compound below this level would not be detected.

Signature of Jaime Chow
Jaime Chow
Laboratory Director

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Matrix: Soil

PURGEABLE HALOCARBONS
EPA Method 8010
mg/Kg

Lab ID:	73532-4	
Client ID:	<u>IIA-4</u>	<u>MDL</u>
Bromomethane & Chloromethane	ND<0.023	0.023
Vinyl Chloride & Chloromethane	ND<0.251	0.251
Freon 113	ND<0.012	0.012
1,1-Dichloroethene	ND<0.011	0.011
Methylene Chloride	ND<0.104	0.104
Trans-1,2-Dichloroethene	ND<0.068	0.068
1,1-Dichloroethane	ND<0.021	0.021
Cis-1,2-Dichloroethene	1.90	0.008
Chloroform	ND<0.003	0.003
1,1,1-Trichloroethane	ND<0.009	0.009
Carbon Tetrachloride	ND<0.011	0.011
1,2-Dichloroethane	ND<0.004	0.004
Trichloroethene	0.10	0.005
1,2-Dichloropropene	ND<0.003	0.003
2-Chloro-vinyl ether	ND<0.008	0.008
Bromodichloromethane	ND<0.003	0.003
T-1,3-Dichloropropene	ND<0.003	0.003
Cis-1,3-Dichloropropene	ND<0.010	0.010
1,1,2-Trichloroethane	ND<0.006	0.006
Tetrachloroethene	0.18	0.006
Dibromochloromethane	ND<0.005	0.005
Chlorobenzene	ND<0.007	0.007
Bromoform	ND<0.003	0.003
1,1,2,2-Tetrachloroethane	ND<0.005	0.005
1,3-Dichlorobenzene	ND<0.003	0.003
1,4-Dichlorobenzene	ND<0.005	0.005
1,2-Dichlorobenzene	ND<0.004	0.004

Average Spike Recovery: 96%

MDL: Method Detection Limit. Compound below this level would not be detected.

Jaime Chow

Laboratory Director

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5427 Telegraph Avenue, Oakland, CA
Matrix: Soil

PURGEABLE HALOCARBONS
EPA Method 8010
mg/Kg

Lab ID:	73532-5	
<u>Client ID:</u>	<u>IIB-1</u>	<u>MDL</u>
Bromomethane & Chloromethane	ND<0.023	0.023
Vinyl Chloride & Chloromethane	ND<0.251	0.251
Freon 113	ND<0.012	0.012
1,1-Dichloroethene	ND<0.011	0.011
Methylene Chloride	ND<0.104	0.104
Trans-1,2-Dichloroethene	ND<0.068	0.068
1,1-Dichloroethane	ND<0.021	0.021
Cis-1,2-Dichloroethene	18	0.008
Chloroform	ND<0.003	0.003
1,1,1-Trichloroethane	ND<0.009	0.009
Carbon Tetrachloride	ND<0.011	0.011
1,2-Dichloroethane	ND<0.004	0.004
Trichloroethene	35	0.005
1,2-Dichloropropene	ND<0.003	0.003
2-Chloro-vinyl ether	ND<0.008	0.008
Bromodichloromethane	ND<0.003	0.003
T-1,3-Dichloropropene	ND<0.003	0.003
Cis-1,3-Dichloropropene	ND<0.010	0.010
1,1,2-Trichloroethane	ND<0.006	0.006
Tetrachloroethene	210	0.006
Dibromochloromethane	ND<0.005	0.005
Chlorobenzene	ND<0.007	0.007
Bromoform	ND<0.003	0.003
1,1,2,2-Tetrachloroethane	ND<0.005	0.005
1,3-Dichlorobenzene	ND<0.003	0.003
1,4-Dichlorobenzene	ND<0.005	0.005
1,2-Dichlorobenzene	ND<0.004	0.004

Average Spike Recovery: 96%

MDL: Method Detection Limit. Compound below this level would not be detected.

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Laboratory Director

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5427 Telegraph Avenue, Oakland, CA
Matrix: Soil

PURGEABLE HALOCARBONS
EPA Method 8010
mg/Kg

Lab ID:	73532-6	
<u>Client ID:</u>	<u>IIB-2</u>	<u>MDL</u>
Bromomethane & Chloromethane	ND<0.023	0.023
Vinyl Chloride & Chloromethane	ND<0.251	0.251
Freon 113	ND<0.012	0.012
1,1-Dichloroethene	ND<0.011	0.011
Methylene Chloride	ND<0.104	0.104
Trans-1,2-Dichloroethene	ND<0.068	0.068
1,1-Dichloroethane	ND<0.021	0.021
Cis-1,2-Dichloroethene	3.4	0.008
Chloroform	ND<0.003	0.003
1,1,1-Trichloroethane	ND<0.009	0.009
Carbon Tetrachloride	ND<0.011	0.011
1,2-Dichloroethane	ND<0.004	0.004
Trichloroethene	0.034	0.005
1,2-Dichloropropene	ND<0.003	0.003
2-Chloro-vinyl ether	ND<0.008	0.008
Bromodichloromethane	ND<0.003	0.003
T-1,3-Dichloropropene	ND<0.003	0.003
Cis-1,3-Dichloropropene	ND<0.010	0.010
1,1,2-Trichloroethane	ND<0.006	0.006
Tetrachloroethene	0.16	0.006
Dibromochloromethane	ND<0.005	0.005
Chlorobenzene	ND<0.007	0.007
Bromoform	ND<0.003	0.003
1,1,2,2-Tetrachloroethane	ND<0.005	0.005
1,3-Dichlorobenzene	ND<0.003	0.003
1,4-Dichlorobenzene	ND<0.005	0.005
1,2-Dichlorobenzene	ND<0.004	0.004

Average Spike Recovery: 96%

MDL: Method Detection Limit. Compound below this level would not be detected.

Jaime Chow

Laboratory Director **OUTSTANDING QUALITY AND SERVICE**
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Project: Telegraph Business Park/#4-719-03
5427 Telegraph Avenue, Oakland, CA
Matrix: Soil

PURGEABLE HALOCARBONS
EPA Method 8010
mg/Kg

Table with 3 columns: Compound Name, Lab ID (73532-7), Client ID (IIB-3), and MDL. Lists various halocarbons and their detection limits.

Average Spike Recovery: 96%

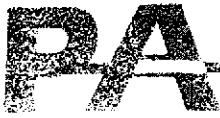
MDL: Method Detection Limit. Compound below this level would not be detected.

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Jaime Chow
Laboratory Director

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Project: Telegraph Business Park/#4-719-03
5427 Telegraph Avenue, Oakland, CA
Matrix: Soil

PURGEABLE HALOCARBONS
EPA Method 8010
mg/Kg

Table with 3 columns: Lab ID, Client ID, and MDL. Lists various chemical compounds and their detection limits.

Average Spike Recovery: 96%

MDL: Method Detection Limit. Compound below this level would not be detected.

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Jaime Chow Laboratory Director
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Project: Telegraph Business Park/#4-719-03
5427 Telegraph Avenue
Oakland, CA 94553

Matrix: Soil

ACID & BASE/NEUTRAL EXTRACTABLES
EPA Method 8270 (Low Level)
mg/Kg

Lab ID: 73532-1

Client ID: IIA-1

Table with 3 columns: ACID COMPOUNDS, CONCENTRATION, LIMIT OF DETECTION. Lists various phenols and chlorophenols with their respective concentrations and detection limits.

ND = Not detected at or below limit of detection.

Jaime Chow
Laboratory Director



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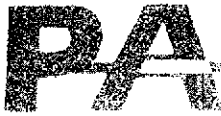
Matrix: Soil

ACID & BASE/NEUTRAL EXTRACTABLES
EPA Method 8270 (Low Level)
mg/Kg

Lab ID: 73532-1
Client ID: IIA-1

Table with 3 columns: BASE/NEUTRAL COMPOUNDS, CONCENTRATION, and LIMIT OF DETECTION. Lists various chemical compounds and their detection limits.

ND = Not detected at or below limit of detection.



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Matrix: Soil

ACID & BASE/NEUTRAL EXTRACTABLES
EPA Method 8270 (Low Level)
mg/Kg

Lab ID: 73532-1

Client ID: IIA-1

<u>BASE/NEUTRAL COMPOUNDS</u>	<u>CONCENTRATION</u>	<u>LIMIT OF DETECTION</u>
Phenanthrene	ND<0.10	0.10
Anthracene	ND<0.20	0.20
Di-n-butylphthalate	ND<0.20	0.20
Fluoranthene	ND<0.50	0.50
Benzidine	ND<1	1
Pyrene	ND<0.60	0.60
Benzylbutylphthalate	ND<0.10	0.10
3,3'-dichlorobenzidine	ND<0.30	0.30
Benzo(a)anthracene	ND<0.30	0.30
Bis-(2-ethylhexyl)phthalate	0.35	0.10
Chrysene	ND<0.30	0.30
Di-n-octylphthalate	ND<0.13	0.13
Benzo(b)fluoranthene	ND<0.20	0.20
Benzo(k)fluoranthene	ND<0.40	0.40
Benzo(a)pyrene	ND<0.09	0.09
Indeno(1,2,3-cd)pyrene	ND<0.20	0.20
Dibenzo(a,h)anthracene	ND<0.20	0.20
Benzo(ghi)perylene	ND<0.20	0.20

ND = Not detected at or below limit of detection.



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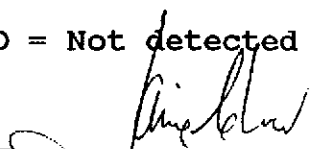
Matrix: Soil

ACID & BASE/NEUTRAL EXTRACTABLES
 EPA Method 8270 (Low Level)
 mg/Kg

Lab ID: 73532-2
 Client ID: IIA-2

<u>ACID COMPOUNDS</u>	<u>CONCENTRATION</u>	<u>LIMIT OF DETECTION</u>
Phenol	ND<0.08	0.08
2-chlorophenol	ND<0.06	0.06
2-methyl phenol	ND<0.09	0.09
4-methyl phenol	ND<0.10	0.10
2-nitrophenol	ND<0.06	0.06
2,4-dimethylphenol	ND<0.10	0.10
2,4-dichlorophenol	ND<0.10	0.10
4-chloro-3-methylphenol	ND<0.10	0.10
2,4,5-trichlorophenol	ND<0.07	0.07
2,4,6-trichlorophenol	ND<0.08	0.08
2,4-dinitrophenol	ND<0.40	0.40
4-nitrophenol	ND<0.10	0.10
2-methyl-4,6-dinitrophenol	ND<0.10	0.10
Pentachlorophenol	ND<0.30	0.30
<u>BASE/NEUTRAL COMPOUNDS</u>		
N-nitrosodimethylamine	ND<0.10	0.10
Bis(2-chloroethyl) ether	ND<0.04	0.04
1,3-dichlorobenzene	ND<0.50	0.50
1,4-dichlorobenzene	ND<0.50	0.50
1,2-dichlorobenzene	ND<0.40	0.40
Bis-(2-chloroisopropyl) ether	ND<0.20	0.20

ND = Not detected at or below limit of detection.


 Jaime Chow
 Laboratory Director



Precision Analytical Laboratory, Inc.

4136 LAKESIDE DRIVE, RICHMOND, CA 94806

PHONE (510) 222-3002

FAX (510) 222-1251

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. E 750

Received: 05/12/92
 Reported: 05/26/92
 Job #: 73532

Attn: John Trigg
 Sierra Environmental Services

Project: Telegraph Business Park/#4-719-03
 5427 Telegraph Avenue
 Oakland, CA 94553

Matrix: Soil

ACID & BASE/NEUTRAL EXTRACTABLES
 EPA Method 8270 (Low Level)
 mg/Kg

Lab ID: 73532-2
 Client ID: IIA-2

<u>BASE/NEUTRAL COMPOUNDS</u>	<u>CONCENTRATION</u>	<u>LIMIT OF DETECTION</u>
N-nitrosodi-n-propylamine	ND<0.10	0.10
Hexachloroethane	ND<0.50	0.50
Nitrobenzene	ND<0.06	0.06
Isophorone	ND<0.09	0.09
Bis-(2-chloroethoxy)methane	ND<0.10	0.10
1,2,4-trichlorobenzene	ND<0.30	0.30
Napthalene	ND<0.20	0.20
Hexachlorobutadiene	ND<0.50	0.50
2-chloronaphthalene	ND<0.05	0.05
2-methyl naphthalene	ND<0.20	0.20
4-chloroaniline	ND<0.10	0.10
2-nitroaniline	ND<0.10	0.10
3-nitroaniline	ND<0.10	0.10
4-nitroaniline	ND<0.10	0.10
Hexachlorocyclopentadiene	ND<0.20	0.20
Dimethyl phthalate	ND<0.04	0.04
Acenaphthylene	ND<0.04	0.04
Acenaphthene	ND<0.04	0.04
2,4-dinitrotoluene	ND<0.10	0.10
2,6-dinitrotoluene	ND<0.06	0.06
Diethyl phthalate	ND<0.10	0.10
4-chlorophenylphenylether	ND<0.05	0.05
Fluorene	ND<0.20	0.20
N-nitrosodiphenylamine	ND<0.09	0.09
4-bromophenylphenylether	ND<0.07	0.07
Hexachlorobenzene	ND<0.20	0.20

ND = Not detected at or below limit of detection.



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Matrix: Soil

ACID & BASE/NEUTRAL EXTRACTABLES
 EPA Method 8270 (Low Level)
 mg/Kg

Lab ID: 73532-2

Client ID: IIA-2

<u>BASE/NEUTRAL COMPOUNDS</u>	<u>CONCENTRATION</u>	<u>LIMIT OF DETECTION</u>
Phenanthrene	0.23	0.10
Anthracene	ND<0.20	0.20
Di-n-butylphthalate	ND<0.20	0.20
Fluoranthene	ND<0.50	0.50
Benzidine	ND<1	1
Pyrene	ND<0.60	0.60
Benzylbutylphthalate	ND<0.10	0.10
3,3'-dichlorobenzidine	ND<0.30	0.30
Benzo(a)anthracene	ND<0.30	0.30
Bis-(2-ethylhexyl)phthalate	2.0	0.10
Chrysene	ND<0.30	0.30
Di-n-octylphthalate	ND<0.13	0.13
Benzo(b)fluoranthene	ND<0.20	0.20
Benzo(k)fluoranthene	ND<0.40	0.40
Benzo(a)pyrene	ND<0.09	0.09
Indeno(1,2,3-cd)pyrene	ND<0.20	0.20
Dibenzo(a,h)anthracene	ND<0.20	0.20
Benzo(ghi)perylene	ND<0.20	0.20

ND = Not detected at or below limit of detection.



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Attn: John Trigg
Sierra Environmental Services
P.O. Box 2546
Martinez, CA 94553

Project: Telegraph Business Park/#4-719-03
5427 Telegraph Avenue
Oakland, CA 94553

Matrix: Soil

ACID & BASE/NEUTRAL EXTRACTABLES
EPA Method 8270 (Low Level)
mg/Kg

Lab ID: 73532-3

Client ID: IIA-3

Table with 3 columns: ACID COMPOUNDS, CONCENTRATION, LIMIT OF DETECTION. Lists various phenols and base/neutral compounds with their respective concentrations and detection limits.

ND = Not detected at or below limit of detection.

Handwritten signature of Jaime Chow

Jaime Chow
Laboratory Director



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Oakland, CA 94553

Matrix: Soil

ACID & BASE/NEUTRAL EXTRACTABLES
EPA Method 8270 (Low Level)
mg/Kg

Lab ID: 73532-3
Client ID: IIA-3

Table with 3 columns: BASE/NEUTRAL COMPOUNDS, CONCENTRATION, and LIMIT OF DETECTION. Lists various chemical compounds and their corresponding concentrations and detection limits.

ND = Not detected at or below limit of detection.



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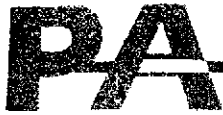
Matrix: Soil

ACID & BASE/NEUTRAL EXTRACTABLES
EPA Method 8270 (Low Level)
mg/Kg

Lab ID: 73532-3
Client ID: IIA-3

Table with 3 columns: BASE/NEUTRAL COMPOUNDS, CONCENTRATION, LIMIT OF DETECTION. Lists various compounds like Phenanthrene, Anthracene, etc., with their respective concentrations and detection limits.

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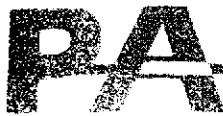
ACID & BASE/NEUTRAL EXTRACTABLES
EPA Method 8270 (Low Level)
mg/Kg

Lab ID: 73532-4
Client ID: IIA-4

Table with 3 columns: ACID COMPOUNDS, CONCENTRATION, LIMIT OF DETECTION. Lists various phenols and chlorophenols with their respective concentrations and detection limits.

ND = Not detected at or below limit of detection.

Signature of Jaime Chow
Jaime Chow
Laboratory Director



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Oakland, CA 94553

Matrix: Soil

ACID & BASE/NEUTRAL EXTRACTABLES
EPA Method 8270 (Low Level)
mg/Kg

Lab ID: 73532-4
Client ID: IIA-4

Table with 3 columns: BASE/NEUTRAL COMPOUNDS, CONCENTRATION, and LIMIT OF DETECTION. Lists various chemical compounds and their corresponding detection limits.

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Matrix: Soil

ACID & BASE/NEUTRAL EXTRACTABLES
EPA Method 8270 (Low Level)
mg/Kg

Lab ID: 73532-4
Client ID: IIA-4

Table with 3 columns: BASE/NEUTRAL COMPOUNDS, CONCENTRATION, LIMIT OF DETECTION. Lists various compounds like Phenanthrene, Anthracene, etc., with their respective concentrations and detection limits.

ND = Not detected at or below limit of detection.



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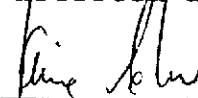
ACID & BASE/NEUTRAL EXTRACTABLES
EPA Method 8270 (Low Level)
mg/Kg

Lab ID: 73532-5

Client ID: IIB-1

<u>ACID COMPOUNDS</u>	<u>CONCENTRATION</u>	<u>LIMIT OF DETECTION</u>
Phenol	ND<0.08	0.08
2-chlorophenol	ND<0.06	0.06
2-methyl phenol	ND<0.09	0.09
4-methyl phenol	ND<0.10	0.10
2-nitrophenol	ND<0.06	0.06
2,4-dimethylphenol	ND<0.10	0.10
2,4-dichlorophenol	ND<0.10	0.10
4-chloro-3-methylphenol	ND<0.10	0.10
2,4,5-trichlorophenol	ND<0.07	0.07
2,4,6-trichlorophenol	ND<0.08	0.08
2,4-dinitrophenol	ND<0.40	0.40
4-nitrophenol	ND<0.10	0.10
2-methyl-4,6-dinitrophenol	ND<0.10	0.10
Pentachlorophenol	ND<0.30	0.30
<u>BASE/NEUTRAL COMPOUNDS</u>		
N-nitrosodimethylamine	ND<0.10	0.10
Bis(2-chloroethyl) ether	ND<0.04	0.04
1,3-dichlorobenzene	ND<0.50	0.50
1,4-dichlorobenzene	ND<0.50	0.50
1,2-dichlorobenzene	ND<0.40	0.40
Bis-(2-chloroisopropyl) ether	ND<0.20	0.20

ND = Not detected at or below limit of detection.



Jaime Chow
Laboratory Director



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Matrix: Soil

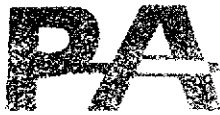
ACID & BASE/NEUTRAL EXTRACTABLES
EPA Method 8270 (Low Level)
mg/Kg

Lab ID: 73532-5

Client ID: IIB-1

<u>BASE/NEUTRAL COMPOUNDS</u>	<u>CONCENTRATION</u>	<u>LIMIT OF DETECTION</u>
N-nitrosodi-n-propylamine	ND<0.10	0.10
Hexachloroethane	ND<0.50	0.50
Nitrobenzene	ND<0.06	0.06
Isophorone	ND<0.09	0.09
Bis-(2-chloroethoxy)methane	ND<0.10	0.10
1,2,4-trichlorobenzene	ND<0.30	0.30
Napthalene	ND<0.20	0.20
Hexachlorobutadiene	ND<0.50	0.50
2-chloronaphthalene	ND<0.05	0.05
2-methyl naphthalene	ND<0.20	0.20
4-chloroaniline	ND<0.10	0.10
2-nitroaniline	ND<0.10	0.10
3-nitroaniline	ND<0.10	0.10
4-nitroaniline	ND<0.10	0.10
Hexachlorocyclopentadiene	ND<0.20	0.20
Dimethyl phthalate	ND<0.04	0.04
Acenaphthylene	ND<0.04	0.04
Acenaphthene	ND<0.04	0.04
2,4-dinitrotoluene	ND<0.10	0.10
2,6-dinitrotoluene	ND<0.06	0.06
Diethyl phthalate	ND<0.10	0.10
4-chlorophenylphenylether	ND<0.05	0.05
Fluorene	ND<0.20	0.20
N-nitrosodiphenylamine	ND<0.09	0.09
4-bromophenylphenylether	ND<0.07	0.07
Hexachlorobenzene	ND<0.20	0.20

ND = Not detected at or below limit of detection.



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5427 Telegraph Avenue
Oakland, CA 94553

Matrix: Soil

ACID & BASE/NEUTRAL EXTRACTABLES
EPA Method 8270 (Low Level)
mg/Kg

Lab ID: 73532-5
Client ID: IIB-1

<u>BASE/NEUTRAL COMPOUNDS</u>	<u>CONCENTRATION</u>	<u>LIMIT OF DETECTION</u>
Phenanthrene	0.32	0.10
Anthracene	ND<0.20	0.20
Di-n-butylphthalate	ND<0.20	0.20
Fluoranthene	ND<0.50	0.50
Benzidine	ND<1	1
Pyrene	ND<0.60	0.60
Benzylbutylphthalate	ND<0.10	0.10
3,3'-dichlorobenzidine	ND<0.30	0.30
Benzo(a)anthracene	ND<0.30	0.30
Bis-(2-ethylhexyl)phthalate	ND<0.10	0.10
Chrysene	ND<0.30	0.30
Di-n-octylphthalate	ND<0.13	0.13
Benzo(b)fluoranthene	ND<0.20	0.20
Benzo(k)fluoranthene	ND<0.40	0.40
Benzo(a)pyrene	ND<0.09	0.09
Indeno(1,2,3-cd)pyrene	ND<0.20	0.20
Dibenzo(a,h)anthracene	ND<0.20	0.20
Benzo(ghi)perylene	ND<0.20	0.20

ND = Not detected at or below limit of detection.



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Project: Telegraph Business Park/#4-719-03
5427 Telegraph Avenue
Oakland, CA 94553

Matrix: Soil

ACID & BASE/NEUTRAL EXTRACTABLES
EPA Method 8270 (Low Level)
mg/Kg

Lab ID: 73532-6
Client ID: IIB-2

Table with 3 columns: ACID COMPOUNDS, CONCENTRATION, LIMIT OF DETECTION. Lists various phenols and chlorophenols with their respective concentrations and detection limits.

BASE/NEUTRAL COMPOUNDS

Table with 3 columns: BASE/NEUTRAL COMPOUNDS, CONCENTRATION, LIMIT OF DETECTION. Lists various nitrosodimethylamine, bis(2-chloroethyl) ether, and dichlorobenzene compounds.

ND = Not detected at or below limit of detection.

Signature of Jaime Chow
Jaime Chow
Laboratory Director



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Matrix: Soil

ACID & BASE/NEUTRAL EXTRACTABLES
EPA Method 8270 (Low Level)
mg/Kg

Lab ID: 73532-6

Client ID: IIB-2

<u>BASE/NEUTRAL COMPOUNDS</u>	<u>CONCENTRATION</u>	<u>LIMIT OF DETECTION</u>
N-nitrosodi-n-propylamine	ND<0.10	0.10
Hexachloroethane	ND<0.50	0.50
Nitrobenzene	ND<0.06	0.06
Isophorone	ND<0.09	0.09
Bis-(2-chloroethoxy)methane	ND<0.10	0.10
1,2,4-trichlorobenzene	ND<0.30	0.30
Napthalene	ND<0.20	0.20
Hexachlorobutadiene	ND<0.50	0.50
2-chloronaphthalene	ND<0.05	0.05
2-methyl naphthalene	ND<0.20	0.20
4-chloroaniline	ND<0.10	0.10
2-nitroaniline	ND<0.10	0.10
3-nitroaniline	ND<0.10	0.10
4-nitroaniline	ND<0.10	0.10
Hexachlorocyclopentadiene	ND<0.20	0.20
Dimethyl phthalate	ND<0.04	0.04
Acenaphthylene	ND<0.04	0.04
Acenaphthene	ND<0.04	0.04
2,4-dinitrotoluene	ND<0.10	0.10
2,6-dinitrotoluene	ND<0.06	0.06
Diethyl phthalate	ND<0.10	0.10
4-chlorophenylphenylether	ND<0.05	0.05
Fluorene	ND<0.20	0.20
N-nitrosodiphenylamine	ND<0.09	0.09
4-bromophenylphenylether	ND<0.07	0.07
Hexachlorobenzene	ND<0.20	0.20

ND = Not detected at or below limit of detection.



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Matrix: Soil

ACID & BASE/NEUTRAL EXTRACTABLES
EPA Method 8270 (Low Level)
mg/Kg

Lab ID: 73532-6
Client ID: IIB-2

Table with 3 columns: BASE/NEUTRAL COMPOUNDS, CONCENTRATION, and LIMIT OF DETECTION. Lists various compounds like Phenanthrene, Anthracene, etc., with their respective concentrations and detection limits.

ND = Not detected at or below limit of detection.



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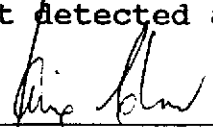
ACID & BASE/NEUTRAL EXTRACTABLES
EPA Method 8270 (Low Level)
mg/Kg

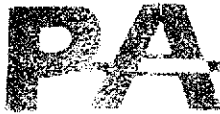
Lab ID: 73532-7

Client ID: IIB-3

<u>ACID COMPOUNDS</u>	<u>CONCENTRATION</u>	<u>LIMIT OF DETECTION</u>
Phenol	ND<0.08	0.08
2-chlorophenol	ND<0.06	0.06
2-methyl phenol	ND<0.09	0.09
4-methyl phenol	ND<0.10	0.10
2-nitrophenol	ND<0.06	0.06
2,4-dimethylphenol	ND<0.10	0.10
2,4-dichlorophenol	ND<0.10	0.10
4-chloro-3-methylphenol	ND<0.10	0.10
2,4,5-trichlorophenol	ND<0.07	0.07
2,4,6-trichlorophenol	ND<0.08	0.08
2,4-dinitrophenol	ND<0.40	0.40
4-nitrophenol	ND<0.10	0.10
2-methyl-4,6-dinitrophenol	ND<0.10	0.10
Pentachlorophenol	ND<0.30	0.30
<u>BASE/NEUTRAL COMPOUNDS</u>		
N-nitrosodimethylamine	ND<0.10	0.10
Bis(2-chloroethyl) ether	ND<0.04	0.04
1,3-dichlorobenzene	ND<0.50	0.50
1,4-dichlorobenzene	ND<0.50	0.50
1,2-dichlorobenzene	ND<0.40	0.40
Bis-(2-chloroisopropyl) ether	ND<0.20	0.20

ND = Not detected at or below limit of detection.


Jaime Chow
Laboratory Director



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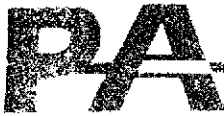
ACID & BASE/NEUTRAL EXTRACTABLES
 EPA Method 8270 (Low Level)
 mg/Kg

Lab ID: 73532-7

Client ID: IIB-3

<u>BASE/NEUTRAL COMPOUNDS</u>	<u>CONCENTRATION</u>	<u>LIMIT OF DETECTION</u>
N-nitrosodi-n-propylamine	ND<0.10	0.10
Hexachloroethane	ND<0.50	0.50
Nitrobenzene	ND<0.06	0.06
Isophorone	ND<0.09	0.09
Bis-(2-chloroethoxy)methane	ND<0.10	0.10
1,2,4-trichlorobenzene	ND<0.30	0.30
Napthalene	ND<0.20	0.20
Hexachlorobutadiene	ND<0.50	0.50
2-chloronaphthalene	ND<0.05	0.05
2-methyl naphthalene	ND<0.20	0.20
4-chloroaniline	ND<0.10	0.10
2-nitroaniline	ND<0.10	0.10
3-nitroaniline	ND<0.10	0.10
4-nitroaniline	ND<0.10	0.10
Hexachlorocyclopentadiene	ND<0.20	0.20
Dimethyl phthalate	ND<0.04	0.04
Acenaphthylene	ND<0.04	0.04
Acenaphthene	ND<0.04	0.04
2,4-dinitrotoluene	ND<0.10	0.10
2,6-dinitrotoluene	ND<0.06	0.06
Diethyl phthalate	ND<0.10	0.10
4-chlorophenylphenylether	ND<0.05	0.05
Fluorene	ND<0.20	0.20
N-nitrosodiphenylamine	ND<0.09	0.09
4-bromophenylphenylether	ND<0.07	0.07
Hexachlorobenzene	ND<0.20	0.20

ND = Not detected at or below limit of detection.



Precision Analytical Laboratory, Inc.

4136 LAKESIDE DRIVE, RICHMOND, CA 94806

PHONE (510) 222-3002

FAX (510) 222-1251

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. E 750

Received: 05/12/92

Reported: 05/26/92

Job #: 73532

Attn: John Trigg
Sierra Environmental Services

Project: Telegraph Business Park/#4-719-03
5427 Telegraph Avenue
Oakland, CA 94553

Matrix: Soil

ACID & BASE/NEUTRAL EXTRACTABLES
EPA Method 8270 (Low Level)
mg/Kg

Lab ID: 73532-7

Client ID: IIB-3

<u>BASE/NEUTRAL COMPOUNDS</u>	<u>CONCENTRATION</u>	<u>LIMIT OF DETECTION</u>
Phenanthrene	ND<0.10	0.10
Anthracene	ND<0.20	0.20
Di-n-butylphthalate	ND<0.20	0.20
Fluoranthene	ND<0.50	0.50
Benzidine	ND<1	1
Pyrene	ND<0.60	0.60
Benzylbutylphthalate	ND<0.10	0.10
3,3'-dichlorobenzidine	ND<0.30	0.30
Benzo(a)anthracene	ND<0.30	0.30
Bis-(2-ethylhexyl)phthalate	3.0	0.10
Chrysene	ND<0.30	0.30
Di-n-octylphthalate	ND<0.13	0.13
Benzo(b)fluoranthene	ND<0.20	0.20
Benzo(k)fluoranthene	ND<0.40	0.40
Benzo(a)pyrene	ND<0.09	0.09
Indeno(1,2,3-cd)pyrene	ND<0.20	0.20
Dibenzo(a,h)anthracene	ND<0.20	0.20
Benzo(ghi)perylene	ND<0.20	0.20

ND = Not detected at or below limit of detection.



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Received: 05/12/92

Reported: 05/26/92

Job #: 73532

Attn: John Trigg
Sierra Environmental Services
P.O. Box 2546
Martinez, CA 94553

Project: Telegraph Business Park/#4-719-03
5427 Telegraph Avenue
Oakland, CA 94553

Matrix: Soil

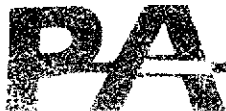
ACID & BASE/NEUTRAL EXTRACTABLES
EPA Method 8270 (Low Level)
mg/Kg

Lab ID: 73532-10
Client ID: IIIB-1

Table with 3 columns: ACID COMPOUNDS, CONCENTRATION, LIMIT OF DETECTION. Lists various phenols and chlorophenols with their respective concentrations and detection limits.

ND = Not detected at or below limit of detection.

Jaime Chow
Laboratory Director



Precision Analytical Laboratory, Inc.

4136 LAKESIDE DRIVE, RICHMOND, CA 94806

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CERTIFICATE OF ANALYSIS

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Received: 05/12/92

Reported: 05/26/92

Job #: 73532

Attn: John Trigg
Sierra Environmental Services

Project: Telegraph Business Park/#4-719-03
5427 Telegraph Avenue
Oakland, CA 94553

Matrix: Soil

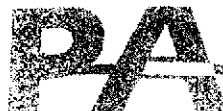
ACID & BASE/NEUTRAL EXTRACTABLES
EPA Method 8270 (Low Level)
mg/Kg

Lab ID: 73532-10

Client ID: IIIB-1

<u>BASE/NEUTRAL COMPOUNDS</u>	<u>CONCENTRATION</u>	<u>LIMIT OF DETECTION</u>
N-nitrosodi-n-propylamine	ND<0.10	0.10
Hexachloroethane	ND<0.50	0.50
Nitrobenzene	ND<0.06	0.06
Isophorone	ND<0.09	0.09
Bis-(2-chloroethoxy)methane	ND<0.10	0.10
1,2,4-trichlorobenzene	ND<0.30	0.30
Napthalene	ND<0.20	0.20
Hexachlorobutadiene	ND<0.50	0.50
2-chloronaphthalene	ND<0.05	0.05
2-methyl naphthalene	ND<0.20	0.20
4-chloroaniline	ND<0.10	0.10
2-nitroaniline	ND<0.10	0.10
3-nitroaniline	ND<0.10	0.10
4-nitroaniline	ND<0.10	0.10
Hexachlorocyclopentadiene	ND<0.20	0.20
Dimethyl phthalate	ND<0.04	0.04
Acenaphthylene	ND<0.04	0.04
Acenaphthene	ND<0.04	0.04
2,4-dinitrotoluene	ND<0.10	0.10
2,6-dinitrotoluene	ND<0.06	0.06
Diethyl phthalate	ND<0.10	0.10
4-chlorophenylphenylether	ND<0.05	0.05
Fluorene	ND<0.20	0.20
N-nitrosodiphenylamine	ND<0.09	0.09
4-bromophenylphenylether	ND<0.07	0.07
Hexachlorobenzene	ND<0.20	0.20

ND = Not detected at or below limit of detection.



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Job #: 73532

Attn: John Trigg
Sierra Environmental Services

Project: Telegraph Business Park/#4-719-03
5427 Telegraph Avenue
Oakland, CA 94553

Matrix: Soil

ACID & BASE/NEUTRAL EXTRACTABLES
EPA Method 8270 (Low Level)
mg/Kg

Lab ID: 73532-10

Client ID: IIIB-1

<u>BASE/NEUTRAL COMPOUNDS</u>	<u>CONCENTRATION</u>	<u>LIMIT OF DETECTION</u>
Phenanthrene	ND<0.10	0.10
Anthracene	ND<0.20	0.20
Di-n-butylphthalate	ND<0.20	0.20
Fluoranthene	ND<0.50	0.50
Benzidine	ND<1	1
Pyrene	ND<0.60	0.60
Benzylbutylphthalate	ND<0.10	0.10
3,3'-dichlorobenzidine	ND<0.30	0.30
Benzo(a)anthracene	ND<0.30	0.30
Bis-(2-ethylhexyl)phthalate	ND<0.10	0.10
Chrysene	ND<0.30	0.30
Di-n-octylphthalate	ND<0.13	0.13
Benzo(b)fluoranthene	ND<0.20	0.20
Benzo(k)fluoranthene	ND<0.40	0.40
Benzo(a)pyrene	ND<0.09	0.09
Indeno(1,2,3-cd)pyrene	ND<0.20	0.20
Dibenzo(a,h)anthracene	ND<0.20	0.20
Benzo(ghi)perylene	ND<0.20	0.20

ND = Not detected at or below limit of detection.



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Received: 05/12/92

Reported: 05/26/92

Job #: 73532

Attn: John Trigg
Sierra Environmental Services
P.O. Box 2546
Martinez, CA 94553

Project: Telegraph Business Park/#4-719-03
5427 Telegraph Avenue
Oakland, CA 94553

Matrix: Soil

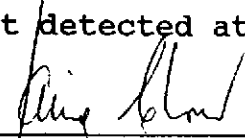
ACID & BASE/NEUTRAL EXTRACTABLES
EPA Method 8270 (Low Level)
mg/Kg

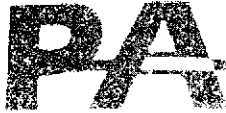
Lab ID: 73532-Method Blank

Client ID: Method Blank

<u>ACID COMPOUNDS</u>	<u>CONCENTRATION</u>	<u>LIMIT OF DETECTION</u>
Phenol	ND<0.08	0.08
2-chlorophenol	ND<0.06	0.06
2-methyl phenol	ND<0.09	0.09
4-methyl phenol	ND<0.10	0.10
2-nitrophenol	ND<0.06	0.06
2,4-dimethylphenol	ND<0.10	0.10
2,4-dichlorophenol	ND<0.10	0.10
4-chloro-3-methylphenol	ND<0.10	0.10
2,4,5-trichlorophenol	ND<0.07	0.07
2,4,6-trichlorophenol	ND<0.08	0.08
2,4-dinitrophenol	ND<0.40	0.40
4-nitrophenol	ND<0.10	0.10
2-methyl-4,6-dinitrophenol	ND<0.10	0.10
Pentachlorophenol	ND<0.30	0.30
<u>BASE/NEUTRAL COMPOUNDS</u>		
N-nitrosodimethylamine	ND<0.10	0.10
Bis(2-chloroethyl) ether	ND<0.04	0.04
1,3-dichlorobenzene	ND<0.50	0.50
1,4-dichlorobenzene	ND<0.50	0.50
1,2-dichlorobenzene	ND<0.40	0.40
Bis-(2-chloroisopropyl) ether	ND<0.20	0.20

ND = Not detected at or below limit of detection.


Jaime Chow
Laboratory Director



Precision Analytical Laboratory, Inc.

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CERTIFICATE OF ANALYSIS

STATE LICENSE NO. E 750

Received: 05/12/92
 Reported: 05/26/92
 Job #: 73532

Attn: John Trigg
 Sierra Environmental Services

Project: Telegraph Business Park/#4-719-03
 5427 Telegraph Avenue
 Oakland, CA 94553

Matrix: Soil

ACID & BASE/NEUTRAL EXTRACTABLES
 EPA Method 8270 (Low Level)
 mg/Kg

Lab ID: 73532-Method Blank
 Client ID: Method Blank

<u>BASE/NEUTRAL COMPOUNDS</u>	<u>CONCENTRATION</u>	<u>LIMIT OF DETECTION</u>
N-nitrosodi-n-propylamine	ND<0.10	0.10
Hexachloroethane	ND<0.50	0.50
Nitrobenzene	ND<0.06	0.06
Isophorone	ND<0.09	0.09
Bis-(2-chloroethoxy)methane	ND<0.10	0.10
1,2,4-trichlorobenzene	ND<0.30	0.30
Napthalene	ND<0.20	0.20
Hexachlorobutadiene	ND<0.50	0.50
2-chloronapthalene	ND<0.05	0.05
2-methyl naphthalene	ND<0.20	0.20
4-chloroaniline	ND<0.10	0.10
2-nitroaniline	ND<0.10	0.10
3-nitroaniline	ND<0.10	0.10
4-nitroaniline	ND<0.10	0.10
Hexachlorocyclopentadiene	ND<0.20	0.20
Dimethyl phthalate	ND<0.04	0.04
Acenaphthylene	ND<0.04	0.04
Acenaphthene	ND<0.04	0.04
2,4-dinitrotoluene	ND<0.10	0.10
2,6-dinitrotoluene	ND<0.06	0.06
Diethyl phthalate	ND<0.10	0.10
4-chlorophenylphenylether	ND<0.05	0.05
Fluorene	ND<0.20	0.20
N-nitrosodiphenylamine	ND<0.09	0.09
4-bromophenylphenylether	ND<0.07	0.07
Hexachlorobenzene	ND<0.20	0.20

ND = Not detected at or below limit of detection.



CERTIFICATE OF ANALYSIS

STATE LICENSE NO. E 750

Received: 05/12/92
Reported: 05/26/92
Job #: 73532

Attn: John Trigg
Sierra Environmental Services

Project: Telegraph Business Park/#4-719-03
5427 Telegraph Avenue
Oakland, CA 94553

Matrix: Soil

ACID & BASE/NEUTRAL EXTRACTABLES
EPA Method 8270 (Low Level)
mg/Kg

Lab ID: 73532-Method Blank
Client ID: Method Blank

Table with 3 columns: BASE/NEUTRAL COMPOUNDS, CONCENTRATION, and LIMIT OF DETECTION. Lists various compounds like Phenanthrene, Anthracene, etc., with their respective concentrations and detection limits.

ND = Not detected at or below limit of detection.



Precision Analytical Laboratory, Inc.

4136 LAKESIDE DRIVE, RICHMOND, CA 94806

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CERTIFICATE OF ANALYSIS

STATE LICENSE NO. E 750

Attn: John Trigg
Sierra Environmental Services
P.O. Box 2546
Martinez, CA 94553

Received: 05/12/92
Reported: 05/26/92
Job #: 73532

Project: Telegraph Business Park/#4-719-03
5427 Telegraph Avenue
Oakland, CA
Matrix: Soil

Analysis Method EPA 6010
Preparation Method 3050
mg/Kg

Lab ID #:	73532-10		% Spike
Client ID:	<u>IIIB-1</u>	<u>MDL</u>	<u>Recovery</u>

METAL

Zinc		1.50	86
Cadmium	2.00	1.25	110
Lead	ND<3.00	3.00	106
Nickel	ND<1.50	1.50	95
Chromium		1.00	109.5

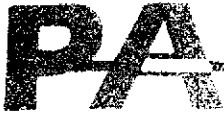
MDL: Method Detection Limit. Compound below this level would not be detected.



Jaime Chow
Laboratory Director

JC/td

OUTSTANDING QUALITY AND SERVICE
CALIFORNIA STATE CERTIFIED LABORATORY



Precision Analytical Laboratory, Inc.

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CERTIFICATE OF ANALYSIS

STATE LICENSE NO. E 750

Received: 05/18/92
Extraction: 05/20/92
Reported: 05/28/92
Job #: 73549

Attn: John Trigg
Sierra Environmental Services
P.O. Box 2546
Martinez, CA 94553

Project: Telegraph Business Park
Oakland, CA
#4-719-03
Matrix: Soil

Total Petroleum Hydrocarbon Analysis
DHS Extraction Method (LUFT)
mg/Kg

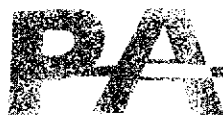
Table with 4 columns: Lab ID, Client ID, [Redacted], MDL. Rows include Lab IDs 73549-1 through 73549-11 and Client IDs IIC-1 through IVA-1 and IVB-1. MDL values are mostly 10 or 1, with one value of 3.8.

QA/QC: Spike Recovery: 104%

MDL: Method Detection Limit. Compound below this level would not be detected.

Signature of Jaime Chow
Jaime Chow
Laboratory Director

JC/td



REVISED CERTIFICATE OF ANALYSIS

STATE LICENSE NO. E 750

Received: 05/18/92
Reported: 06/04/92
Job #: 73549

Attn: John Trigg
Sierra Environmental Services
P.O. Box 2546
Martinez, CA 94553

Project: Telegraph Business Park
Oakland, CA
#4-719-03

Matrix: Soil

Aromatic Volatile Hydrocarbon Analysis *
EPA Method 8020
mg/Kg

Table with 6 columns: Lab ID, Client ID, Benzene, MDL, Toluene, MDL. Rows 1-6 showing detection limits for various samples.

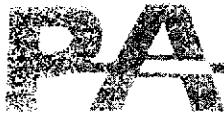
Table with 6 columns: Lab ID, Client ID, Ethylbenzene, MDL, Xylenes, MDL. Rows 1-6 showing detection limits for various samples.

* All Samples Contain Stoddard Solvent

QA/QC: Spike Recovery for Benzene: 104%
Spike Recovery for Toluene: 96%
Spike Recovery for Xylene: 87%

MDL: Method Detection Limit. Compound below this level would not be detected.

Signature of Jaime Chow
Jaime Chow
Laboratory Director



REVISED CERTIFICATE OF ANALYSIS

STATE LICENSE NO. E 750

Attn: John Trigg
Sierra Environmental Services

Received: 05/18/92
Reported: 06/04/92
Job #: 73549

Project: Telegraph Business Park
Oakland, CA
#4-719-03
Matrix: Soil

Aromatic Volatile Hydrocarbon Analysis *
EPA Method 8020
mg/Kg

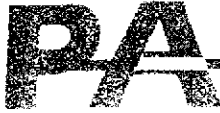
Table with 6 columns: Lab ID, Client ID, Benzene, MDL, Toluene, MDL. Rows 73549-7 to 73549-11.

Table with 6 columns: Lab ID, Client ID, Ethyl-benzene, MDL, Xylenes, MDL. Rows 73549-7 to 73549-11.

* All Samples Contain Stoddard Solvent

QA/QC: Spike Recovery for Benzene: 104%
Spike Recovery for Toluene: 96%
Spike Recovery for Xylene: 87%

MDL: Method Detection Limit. Compound below this level would not be detected.



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CERTIFICATE OF ANALYSIS

STATE LICENSE NO. E 750

Received: 05/19/92
Extraction: 05/27/92
Reported: 06/01/92
Job #: 73554

Attn: John Trigg
Sierra Environmental Services
P.O. Box 2546
Martinez, CA 94553

Project: Telegraph Business Park
Oakland, CA
#4-719-03

Matrix: Soil

Total Petroleum Hydrocarbon Analysis
DHS Extraction Method (LUFT)
mg/Kg

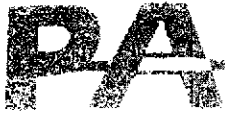
Table with 4 columns: Lab ID, Client ID, Diesel, MDL. Rows include 73554-1, 73554-2, 73554-3 with corresponding values for Diesel and MDL.

QA/QC: Spike Recovery: 92%

MDL: Method Detection Limit. Compound below this level would not be detected.

Signature of Jaime Chow
Jaime Chow
Laboratory Director

JC/td



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REVISED CERTIFICATE OF ANALYSIS

STATE LICENSE NO. E 750

Received: 05/19/92
 Reported: 06/04/92
 Job #: 73554

Attn: John Trigg
 Sierra Environmental Services
 P.O. Box 2546
 Martinez, CA 94553

Project: Telegraph Business Park
 Oakland, CA
 #4-719-03

Matrix: Soil

Aromatic Volatile Hydrocarbon Analysis *
 EPA Method 8020
 mg/Kg

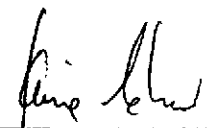
<u>Lab ID</u>	<u>Client ID</u>	<u>Benzene</u>	<u>MDL</u>	<u>Toluene</u>	<u>MDL</u>
73554-1	IVC-1	ND<0.03	0.03	ND<0.03	0.03
73554-2	IVD-1	ND<0.03	0.03	ND<0.03	0.03
73554-3	IVD-2	ND<0.03	0.03	ND<0.03	0.03

<u>Lab ID</u>	<u>Client ID</u>	<u>Ethyl- benzene</u>	<u>MDL</u>	<u>Xylenes</u>	<u>MDL</u>
73554-1	IVC-1	ND<0.03	0.03	5.2	0.03
73554-2	IVD-1	ND<0.03	0.03	9.4	0.03
73554-3	IVD-2	ND<0.03	0.03	14	0.03

* All Samples Contain Stoddard Solvent

QA/QC: Spike Recovery for Benzene: 109%
 Spike Recovery for Toluene: 100%
 Spike Recovery for Xylene: 86%

MDL: Method Detection Limit. Compound below this level would not be detected.



 Jaime Chow
 Laboratory Director

JC/td



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FAX (510) 222-1251

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. E 750

Received: 05/21/92
Extraction: 05/26/92
Reported: 06/03/92
Job #: 73558

Attn: John Trigg
Sierra Environmental Services
P.O. Box 2546
Martinez, CA 94553

Project: Telegraph Business Park
Oakland, CA
#4-719-03

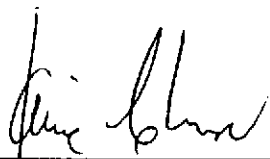
Matrix: Soil

Total Petroleum Hydrocarbon Analysis DHS Extraction Method (LUFT)

<u>Lab I.D.</u>	<u>Client I.D.</u>	<u>Diesel</u>	<u>MDL</u>
73558-1	IVE-1		10
73558-2	IVF-1		50
73558-3	IVF-2		10

QA/QC: Spike Recovery: 102%

MDL: Method Detection Limit. Compound below this level would not be detected.



Jaime Chow
Laboratory Director

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STATE LICENSE NO. E 750

Received: 05/21/92
Reported: 06/04/92
Job #: 73558

Attn: John Trigg
Sierra Environmental Services
P.O. Box 2546
Martinez, CA 94553

Project: Telegraph Business Park
Oakland, CA
#4-719-03

Matrix: Soil

Aromatic Volatile Hydrocarbon Analysis *
EPA Method 8020

Table with 6 columns: Lab I.D., Client I.D., Benzene, MDL, Toluene, MDL. Rows 1-3 show data for samples 73558-1, 73558-2, and 73558-3.

Table with 6 columns: Lab I.D., Client I.D., Ethyl-benzene, MDL, Xylenes, MDL. Rows 1-3 show data for samples 73558-1, 73558-2, and 73558-3.

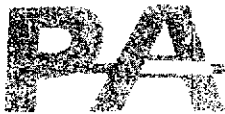
* All Samples Contain Stoddard Solvent

QA/QC: Spike Recovery for Benzene: 94%
Spike Recovery for Toluene: 103%
Spike Recovery for Xylene: 92%

MDL: Method Detection Limit. Compound below this level would not be detected.

Signature of Jaime Chow
Jaime Chow
Laboratory Director

JC/td



Precision Analytical Laboratory, Inc.

4136 LAKESIDE DRIVE, RICHMOND, CA 94806

PHONE (510) 222-3002

FAX (510) 222-1251

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. E 750

Received: 05/26/92

Reported: 06/04/92

Job #: 73570

Attn: John Trigg
Sierra Environmental Services
P.O. Box 2546
Martinez, CA 94553

Project: Telegraph Business Park
Oakland, CA
#4-719-05

Matrix: Soil

Total Petroleum Hydrocarbon Analysis
DHS Extraction Method (LUFT)
mg/Kg

Table with 4 columns: Lab I.D., Client I.D., [Redacted], MDL. Rows include sample IDs 73570-1 through 73570-6 and their corresponding client IDs and MDL values.

QA/QC: Spike Recovery: 85%

MDL: Method Detection Limit. Compound below this level would not be detected.

Signature of Jaime Chow
Jaime Chow
Laboratory Director

JC/td



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Attn: John Trigg
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P.O. Box 2546
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Received: 05/26/92
Reported: 06/04/92
Job #: 73570

Project: Telegraph Business Park
Oakland, CA
#4-719-05
Matrix: Soil

Aromatic Volatile Hydrocarbon Analysis *
EPA Method 8020
mg/Kg

Table with 6 columns: Lab I.D., Client I.D., Benzene, MDL, Toluene, MDL. Rows 1-6 showing data for samples 73570-1 to 73570-6.

Table with 6 columns: Lab I.D., Client I.D., Ethyl-benzene, MDL, Xylenes, MDL. Rows 1-6 showing data for samples 73570-1 to 73570-6.

* All Samples Contain Stoddard Solvent

QA/QC: Spike Recovery for Benzene: 101%
Spike Recovery for Toluene: 109%
Spike Recovery for Xylene: 99%

MDL: Method Detection Limit. Compound below this level would not be detected.

Signature of Jaime Chow
Jaime Chow
Laboratory Director

OUTSTANDING QUALITY AND SERVICE
CALIFORNIA STATE CERTIFIED LABORATORY

JC/td