INTEGRATED
ENVIRONMENTAL SERVICES, INC.

APPENDIX A
SITE GEOLOGY AND SOIL BORING LOGS

PARCEL B

SUPPLEMENTAL SITE INVESTIGATION

BOEING REALTY CORPORATION

C-6 FACILITY

JULY 1998

Harding Lawson Associates

June 19, 1998

41150 6.5

Mr. Christopher Stoker
Integrated Environmental Services, Inc.
3990 Westerly Place, Suite 210
Newport Beach, California 92660

Project Deliverables
Site Investigation Services
AOIs 1 - 4 and Parcel B
Boeing Realty Corporation, C-6 Facility
Los Angeles, California

Dear Mr. Stoker:

Harding Lawson Associates (HLA) has prepared this letter to transmit the project deliverables for site investigation services in Areas of Interest (AOIs) 1 through 4 at Boeing Realty Corporation's C-6 Facility and Parcel B in Los Angeles, California. HLA's services were provided in accordance with our proposal dated April 10, 1998, two revised proposals dated April 14 and April 28, and our two proposals dated May 15, 1998.

The following items are provided with this letter in hard-copy format:

- Description of site geology observed during the investigation
- A map showing the surveyed sampling locations for AOI 4
- Twenty-six boring logs in gINT format
- The field daily report dated April 29 and 30, and May 20 through 22, 1998 (hard copy only).

An electronic version of the above deliverables (excluding the field daily reports), will be provided to you on CD ROM.

Site Geology

A total of 26 soil borings were advanced during site investigation activities to a maximum depth of 25 feet below ground surface (bgs). Two borings were hand-augered in AOI 3 to a maximum depth of 8.5 feet bgs, 24 borings were advanced with an hydraulic push drill rig in AOI 4 to a depths of 10.5 feet to 16 feet bgs. The site geologic descriptions are based on the soils encountered during drilling activities. Groundwater was not encountered during the investigation.

The two borings that were hand-augered in AOI 3 encountered silty clay and silty gravel fill 1- to 1.5-foot-thick underlain by native clay and clayey silt. The borings drilled in AOI 4 primarily encountered silt and clay to the depths investigated. A thin mantling of gravel fill up to 1-foot-thick was found in Borings AOI4-B4, B8, and B13 through B16.. The fine-grained sediments represent recent alluvium that is a common near surface deposit in the Los Angeles Basin.

Engineering and
Environmental Services

30 Corporate Park, Suite 400, Irvine, CA 92606 714/260-1800 Fax: 714/260-1830

June 19, 1998
41150 6.5
Mr. Christopher Stoker
Integrated Environmental Services, Inc.
Page 2

HLA appreciates the opportunity to work with you on this project and looks forward to working with you on future projects. Should you have questions regarding this letter, please contact either of the undersigned.

Very truly yours,

HARDING LAWSON ASSOCIATES

J. Van de Water Jr.

Mark Clardy
Senior Geologist

Ed Stewart

Ed Stewart
Associate Geologist
Operation Manager

Attachments

N:\BOEING\CDROM\AIGEOLTR.DOC

cc: Mario Stavale, Boeing Realty Corporation

PID (ppm)	Depth ft	Sample		
			Equipment	Hand Auger
			Elevation	NM
			Date	4/29/98

0 — DARK BROWN SILTY CLAY (CL)
firm, moist [FILL]

BROWN CLAYEY SILT (ML)
firm, moist, micaceous, plastic

5

Boring terminated at 6 feet below ground surface.
Groundwater not encountered during drilling.
Boring backfilled with soil cuttings on 4/29/98.

10

NM = not measured

15

20

25

30

35

40

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Log of Boring AOI3-B1 (sheet 1 of 1)

Boeing Realty Corporation
Los Angeles, California

PLATE

DRAWN	PROJECT NUMBER	APPROVED	DATE	REVISED DATE
HK	41150-6.5		06/98	

PID (ppm)	Depth ft	Sample	
	0		DARK BROWN CLAY (CL) firm, moist, medium plasticity and toughness, micaceous, mottled [FILL]
			GRAY SILTY GRAVEL (GM) moist, mostly fine to coarse angular gravel, little fines [FILL]
			DARK BROWN CLAY (CL) firm, moist, medium plasticity and toughness, micaceous, mottled [FILL]
	5		OLIVE-BROWN CLAYEY SILT (ML) firm, moist, nonplastic, micaceous
	10		Boring terminated at 8.5 feet below ground surface. Groundwater not encountered during drilling. Boring backfilled with soil cuttings on 4/29/98.
			NM = not measured
	15		
	20		
	25		
	30		
	35		
	40		

Equipment: Hand Auger

Elevation: NM Date: 4/29/98

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Log of Boring AOI3-B2 (sheet 1 of 1)

Boeing Realty Corporation
Los Angeles, California

PLATE

DRAWN	PROJECT NUMBER	APPROVED	DATE	REVISED DATE
HK	41150-6.5		06/98	

Equipment: Geoprobe

Elevation: 49.41 ft Date: 5/20/98

PID (ppm)	Depth ft	Sample	Description
24.4	0	■	DARK BROWN CLAYEY SILT (ML) firm, moist, low plasticity and toughness, micaceous
76.0	5	■	BROWN SILT (ML) firm, moist, micaceous
58.0	10	■	color change to light brown
	15		
	20		
	25		
	30		
	35		
	40		

Boring terminated at 10.5 feet below ground surface.
Groundwater not encountered during drilling.
Boring backfilled with medium bentonite chips on 5/20/98.

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Log of Boring AOI4-B1 (sheet 1 of 1)

Boeing Realty Corporation
Los Angeles, California

PLATE

DRAWN	PROJECT NUMBER	APPROVED	DATE	REVISED DATE
HK	41150-6.5		06/98	

Equipment: Geoprobe

Elevation: 49.35 ft Date: 5/20/98

PID (ppm)	Depth ft	Sample	Description
27.5	0		DARK BROWN CLAYEY SILT (ML) firm, moist, low plasticity and toughness, micaceous
46.3	5		color change to light brown, decreasing clay content
42.4	10		Boring terminated at 10.5 feet below ground surface. Groundwater not encountered during drilling. Boring backfilled with medium bentonite chips on 5/20/98.
	15		
	20		
	25		
	30		
	35		
	40		

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Log of Boring AOI4-B2 (sheet 1 of 1)

Boeing Realty Corporation
Los Angeles, California

PLATE

DRAWN	PROJECT NUMBER	APPROVED	DATE	REVISED DATE
HK	41150-6.5		06/98	

Equipment: Geoprobe

Elevation: 49.41 ft Date: 5/20/98

PID (ppm)	Depth ft	Sample	Description
84.8	0		DARK BROWN CLAYEY SILT (ML) firm, moist, low plasticity and toughness, micaceous
96.5	5		color change to light brown, decreasing clay content
125	10		
	15		Boring terminated at 10.5 feet below ground surface. Groundwater not encountered during drilling. Boring backfilled with medium bentonite chips on 5/20/98.
	20		
	25		
	30		
	35		
	40		

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Log of Boring AOI4-B3 (sheet 1 of 1)

Boeing Realty Corporation
Los Angeles, California

PLATE

DRAWN	PROJECT NUMBER	APPROVED	DATE	REVISED DATE
HK	41150-6.5		06/98	

PID (ppm)	Depth ft	Sample	
27.3	0		GRAVEL AND WOOD DEBRIS [FILL] DARK BROWN CLAYEY SILT (ML) firm, moist, low plasticity and toughness, micaceous
110	5		BROWN SILT (ML) firm, moist, micaceous
67.9	10		
	15		
	20		
	25		
	30		
	35		
	40		

Equipment: Geoprobe

Elevation: 49.22 ft Date: 5/20/98

Boring terminated at 10.5 feet below ground surface.
Groundwater not encountered during drilling.
Boring backfilled with medium bentonite chips on 5/20/98.

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Log of Boring AOI4-B4 (sheet 1 of 1)

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Los Angeles, California

PLATE

DRAWN	PROJECT NUMBER	APPROVED	DATE	REVISED DATE
HK	41150-6.5		06/98	

PID (ppm)	Depth ft	Sample	Equipment: Geoprobe	Elevation: 49.66 ft	Date: 5/20/98
196	0		DARK BROWN CLAYEY SILT (ML) hard, moist, low plasticity and toughness, micaceous		
71.5	5		LIGHT BROWN SILT (ML) firm, moist, micaceous		
81.1	10				
			Boring terminated at 10.5 feet below ground surface. Groundwater not encountered during drilling. Boring backfilled with medium bentonite chips on 5/20/98.		
	15				
	20				
	25				
	30				
	35				
	40				

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Log of Boring AOI4-B5 (sheet 1 of 1)

Boeing Realty Corporation
Los Angeles, California

PLATE

DRAWN	PROJECT NUMBER	APPROVED	DATE	REVISED DATE
HK	41150-6.5		06/98	

PID (ppm)	Depth ft Sample	
71.3	0	DARK BROWN CLAYEY SILT (ML) hard, moist, low plasticity and toughness, micaceous
43.5	5	LIGHT BROWN SILT (ML) firm, moist, micaceous
92.1	10	
	15	
	20	
	25	
	30	
	35	
	40	

Equipment: Geoprobe

Elevation: 49.41 ft Date: 5/20/98

Boring terminated at 10.5 feet below ground surface.
Groundwater not encountered during drilling.
Boring backfilled with medium bentonite chips on 5/20/98.

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Log of Boring AOI4-B6 (sheet 1 of 1)

Boeing Realty Corporation
Los Angeles, California

PLATE

DRAWN	PROJECT NUMBER	APPROVED	DATE	REVISED DATE
HK	41150-6.5		06/98	

PID (ppm)	Depth ft / Sample	
67.0	0	DARK BROWN CLAYEY SILT (ML) hard, moist, low plasticity and toughness, micaceous
127	5	BROWN SILT (ML) firm, moist, micaceous
57.6	10	
	15	
	20	
	25	
	30	
	35	
	40	

Equipment: Geoprobe

Elevation: 49.53 ft Date: 5/20/98

Boring terminated at 10.5 feet below ground surface.
Groundwater not encountered during drilling.
Boring backfilled with medium bentonite chips on 5/20/98.

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Log of Boring AOI4-B7 (sheet 1 of 1)

Boeing Realty Corporation
Los Angeles, California

PLATE

DRAWN	PROJECT NUMBER	APPROVED	DATE	REVISED DATE
HK	41150-6.5		06/98	

PID (ppm)	Depth ft / Sample	
		Equipment: Geoprobe
		Elevation: 49.51 ft Date: 5/20/98
	0	GRAVEL AND WOOD DEBRIS [FILL]
53.1		DARK BROWN CLAYEY SILT (ML) firm, moist, low plasticity and toughness, micaceous
18.2	5	BROWN SILT (ML) firm, moist, micaceous
67.9	10	
		Boring terminated at 10.5 feet below ground surface. Groundwater not encountered during drilling. Boring backfilled with medium bentonite chips on 5/20/98.
	15	
	20	
	25	
	30	
	35	
	40	

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Log of Boring AOI4-B8 (sheet 1 of 1)

Boeing Realty Corporation
Los Angeles, California

PLATE

DRAWN	PROJECT NUMBER	APPROVED	DATE	REVISED DATE
HK	41150-6.5		06/98	

PID (ppm)	Depth ft Sample	
445	0	DARK BROWN CLAYEY SILT (ML) firm, moist, low plasticity and toughness, micaceous
100	5	BROWN SILT (ML) firm, moist, micaceous
188	10	
		Boring terminated at 10.5 feet below ground surface. Groundwater not encountered during drilling. Boring backfilled with medium bentonite chips on 5/20/98.
	15	
	20	
	25	
	30	
	35	
	40	

Equipment: Geoprobe

Elevation: 49.58 ft Date: 5/20/98

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Log of Boring AOI4-B9 (sheet 1 of 1)

Boeing Realty Corporation
Los Angeles, California

PLATE

DRAWN	PROJECT NUMBER	APPROVED	DATE	REVISED DATE
HK	41150-6.5		06/98	

PID (ppm)	Depth ft	Sample	
251	0		DARK BROWN CLAYEY SILT (ML) firm, moist, low plasticity and toughness, micaceous
260	5		BROWN SILT (ML) firm, moist, micaceous
308	10		
	15		Boring terminated at 10.5 feet below ground surface. Groundwater not encountered during drilling. Boring backfilled with medium bentonite chips on 5/20/98.
	20		
	25		
	30		
	35		
	40		

Equipment: Geoprobe

Elevation: 49.32 ft Date: 5/20/98

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Log of Boring AOI4-B10 (sheet 1 of 1)

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PLATE

DRAWN	PROJECT NUMBER	APPROVED	DATE	REVISED DATE
HK	41150-6.5		06/98	

Equipment: Geoprobe

Elevation: 49.59 ft Date: 5/20/98

PID (ppm)	Depth ft	Sample	Description
145	0		DARK BROWN CLAYEY SILT (ML) firm, moist, low plasticity and toughness, micaceous
37.5	5		BROWN SILT (ML) firm, moist, micaceous
123	10		
	15		Boring terminated at 10.5 feet below ground surface. Groundwater not encountered during drilling. Boring backfilled with medium bentonite chips on 5/20/98.
	20		
	25		
	30		
	35		
	40		

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Log of Boring AOI4-B11 (sheet 1 of 1)

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PLATE

DRAWN	PROJECT NUMBER	APPROVED	DATE	REVISED DATE
HK	41150-6.5		06/98	

Equipment: Geoprobe

Elevation: 48.62 ft Date: 5/21/98

PID (ppm)	Depth ft / Sample	Description
305	0	DARK BROWN CLAYEY SILT (ML) firm, moist, low plasticity and toughness, micaceous
462	5	BROWN SILT (ML) firm, moist, micaceous
401	10	
	15	
	20	
	25	
	30	
	35	
	40	

Boring terminated at 10.5 feet below ground surface.
Groundwater not encountered during drilling.
Boring backfilled with medium bentonite chips on 5/20/98.

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Log of Boring AOI4-B12 (sheet 1 of 1)

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PLATE

DRAWN	PROJECT NUMBER	APPROVED	DATE	REVISED DATE
HK	41150-6.5		06/98	

PID (ppm)	Depth ft / Sample	
		Equipment: Geoprobe
		Elevation: 49.77 ft Date: 5/21/98
	0	GRAVEL [FILL]
4.4		DARK BROWN CLAYEY SILT (ML) firm, moist, low plasticity and toughness, micaceous
2.7	5	BROWN SILT (ML) firm, moist, micaceous
16.4	10	
55.7	15	
		Boring terminated at 16 feet below ground surface. Groundwater not encountered during drilling. Boring backfilled with medium bentonite chips on 5/21/98.
	20	
	25	
	30	
	35	
	40	

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Log of Boring AOI4-B13 (sheet 1 of 1)

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PLATE

DRAWN	PROJECT NUMBER	APPROVED	DATE	REVISED DATE
HK	41150-6.5		06/98	

Equipment: Geoprobe

Elevation: 49.88 ft Date: 5/21/98

PID (ppm)	Depth ft / Sample	Description
	0	GRAVEL [FILL]
231		DARK BROWN CLAYEY SILT (ML) firm, moist, low plasticity and toughness, micaceous
245	5	BROWN SILT (ML) firm, moist, micaceous
367	10	
124	15	
		Boring terminated at 16 feet below ground surface. Groundwater not encountered during drilling. Boring backfilled with medium bentonite chips on 5/21/98.
	20	
	25	
	30	
	35	
	40	

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Log of Boring AOI4-B14 (sheet 1 of 1)

Boeing Realty Corporation
Los Angeles, California

PLATE

DRAWN	PROJECT NUMBER	APPROVED	DATE	REVISED DATE
HK	41150-6.5		06/98	

PID (ppm)	Depth ft Sample	
209	0	GRAVEL [FILL] DARK BROWN CLAYEY SILT (ML) firm, moist, low plasticity and toughness, micaceous
171	5	BROWN SILT (ML) firm, moist, micaceous
86.6	10	
271	15	
	20	Boring terminated at 16 feet below ground surface. Groundwater not encountered during drilling. Boring backfilled with medium bentonite chips on 5/21/98.
	25	
	30	
	35	
	40	

Equipment: Geoprobe

Elevation: 49.77 ft Date: 5/21/98

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Log of Boring AOI4-B15 (sheet 1 of 1)

Boeing Realty Corporation
Los Angeles, California

PLATE

DRAWN	PROJECT NUMBER	APPROVED	DATE	REVISED DATE
HK	41150-6.5		06/98	

PID (ppm)	Depth ft / Sample	
		Equipment: Geoprobe
		Elevation: 49.20 ft Date: 5/21/98
	0	GRAVEL [FILL]
27.1		BROWN CLAYEY SILT (ML) firm, moist, low plasticity and toughness, micaceous
54.3	5	BROWN SILT (ML) firm, moist, micaceous
0.0	10	
		Boring terminated at 10.5 feet below ground surface. Groundwater not encountered during drilling. Boring backfilled with medium bentonite chips on 5/21/98.
	15	
	20	
	25	
	30	
	35	
	40	

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Log of Boring AOI4-B16 (sheet 1 of 1)

Boeing Realty Corporation
Los Angeles, California

PLATE

DRAWN	PROJECT NUMBER	APPROVED	DATE	REVISED DATE
HK	41150-6.5		06/98	

Equipment: Geoprobe

Elevation: 51.80 ft Date: 5/21/98

PID (ppm)	Depth ft	Sample	Description
287	0		BROWN CLAYEY SILT (ML) firm, moist, low plasticity and toughness, micaceous
71.2	5		BROWN SILT (ML) firm, moist, micaceous
130	10		
188	15		
	20		Boring terminated at 16 feet below ground surface. Groundwater not encountered during drilling. Boring backfilled with medium bentonite chips on 5/21/98.
	25		
	30		
	35		
	40		

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Log of Boring AOI4-B17 (sheet 1 of 1)

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Los Angeles, California

PLATE

DRAWN	PROJECT NUMBER	APPROVED	DATE	REVISED DATE
HK	41150-6.5		06/98	

Equipment: Geoprobe

Elevation: 50.95 ft Date: 5/21/98

PID (ppm)	Depth ft	Sample	Description
559	0		DARK BROWN CLAYEY SILT (ML) firm, moist, low plasticity and toughness, micaceous
108	5		BROWN SILT (ML) firm, moist, micaceous
58.7	10		
0.0	15		few fine-grained sand
	20		Boring terminated at 16 feet below ground surface. Groundwater not encountered during drilling. Boring backfilled with medium bentonite chips on 5/21/98.
	25		
	30		
	35		
	40		

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Log of Boring AOI4-B18 (sheet 1 of 1)

Boeing Realty Corporation
Los Angeles, California

PLATE

DRAWN	PROJECT NUMBER	APPROVED	DATE	REVISED DATE
HK	41150-6.5		06/98	

PID (ppm)	Depth ft	Sample	Equipment: Geoprobe	Elevation: 52.33 ft	Date: 5/21/98
2.5	0		DARK BROWN CLAYEY SILT (ML) firm, moist, low plasticity and toughness, micaceous		
300	5				
305	10		BROWN SILT (ML) firm, moist, micaceous		
232	15		few fine-grained sand		
	20		Boring terminated at 16 feet below ground surface. Groundwater not encountered during drilling. Boring backfilled with medium bentonite chips on 5/21/98.		
	25				
	30				
	35				
	40				

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Log of Boring AOI4-B19 (sheet 1 of 1)

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Los Angeles, California

PLATE

DRAWN	PROJECT NUMBER	APPROVED	DATE	REVISED DATE
HK	41150-6.5		06/98	

Equipment: Geoprobe

Elevation: 47.89 ft Date: 5/21/98

PID (ppm)	Depth ft	Sample	Description
47.1	0		BROWN SILT (ML) hard, moist, micaceous
16.5	5		
34.3	10		
20.0	15		few fine-grained sand
			Boring terminated at 16 feet below ground surface. Groundwater not encountered during drilling. Boring backfilled with medium bentonite chips on 5/21/98.
	20		(Note: Boring started in bottom of excavation at 4 feet below ground surface)
	25		
	30		
	35		
	40		

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Log of Boring AOI4-B20 (sheet 1 of 1)

Boeing Realty Corporation
Los Angeles, California

PLATE

DRAWN	PROJECT NUMBER	APPROVED	DATE	REVISED DATE
HK	41150-6.5		06/98	

Equipment: Geoprobe

Elevation: 48.63 ft Date: 5/21/98

PID (ppm)	Depth ft	Sample	Description
76.2	0		DARK BROWN CLAYEY SILT (ML) firm, moist, low plasticity and toughness, micaceous
288	5		BROWN SILT (ML) firm, moist, micaceous
247	10		
182	15		
	20		Boring terminated at 16 feet below ground surface. Groundwater not encountered during drilling. Boring backfilled with medium bentonite chips on 5/21/98.
	25		
	30		
	35		
	40		

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Log of Boring AOI4-B21 (sheet 1 of 1)

Boeing Realty Corporation
Los Angeles, California

PLATE

DRAWN	PROJECT NUMBER	APPROVED	DATE	REVISED DATE
HK	41150-6.5		06/98	

PID (ppm)	Depth ft Sample	
134	0	DARK BROWN CLAYEY SILT (ML) firm, moist, low plasticity and toughness, micaceous
119	5	BROWN SILT (ML) firm, moist, micaceous
85.8	10	
80.5	15	BROWN CLAYEY SILT (ML) firm, moist, medium plasticity and low toughness, micaceous
	20	Boring terminated at 16 feet below ground surface. Groundwater not encountered during drilling. Boring backfilled with medium bentonite chips on 5/21/98.
	25	
	30	
	35	
	40	

Equipment: Geoprobe

Elevation: 50.71 ft Date: 5/21/98

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Log of Boring AOI4-B22 (sheet 1 of 1)

Boeing Realty Corporation
Los Angeles, California

PLATE

DRAWN	PROJECT NUMBER	APPROVED	DATE	REVISED DATE
HK	41150-6.5		06/98	

PID (ppm)	Depth ft	Sample	Equipment: Geoprobe	Elevation: 49.99 ft	Date: 5/21/98
5.3	0		DARK BROWN CLAYEY SILT (ML) firm, moist, medium plasticity and low toughness, micaceous		
11.5	5		BROWN SILT (ML) firm, moist, micaceous		
6.9	10				
10.4	15				
	20		Boring terminated at 16 feet below ground surface. Groundwater not encountered during drilling. Boring backfilled with medium bentonite chips on 5/21/98.		
	25				
	30				
	35				
	40				

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Log of Boring AOI4-B23 (sheet 1 of 1)

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Los Angeles, California

PLATE

DRAWN	PROJECT NUMBER	APPROVED	DATE	REVISED DATE
HK	41150-6.5		06/98	

PID (ppm)	Depth ft Sample	
78.5	0	DARK BROWN SILTY CLAY (CL) firm, medium plasticity and toughness, micaceous
39.2	5	BROWN CLAYEY SILT (ML) firm, moist, low plasticity and toughness, micaceous
64.6	10	BROWN SILT (ML) firm, moist, micaceous, trace fine-grained sand
89.9	15	few fine-grained sand, increasing sand content
	20	
	25	
	30	
	35	
	40	

Equipment: Geoprobe

Elevation: 51.50 ft Date: 5/22/98

Boring terminated at 16 feet below ground surface.
Groundwater not encountered during drilling.
Boring backfilled with medium bentonite chips on 5/22/98.

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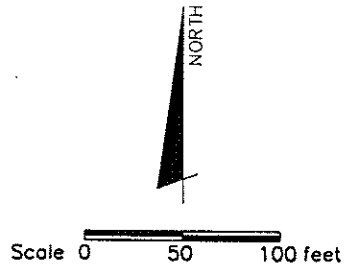
Log of Boring AOI4-B24 (sheet 1 of 1)

Boeing Realty Corporation
Los Angeles, California

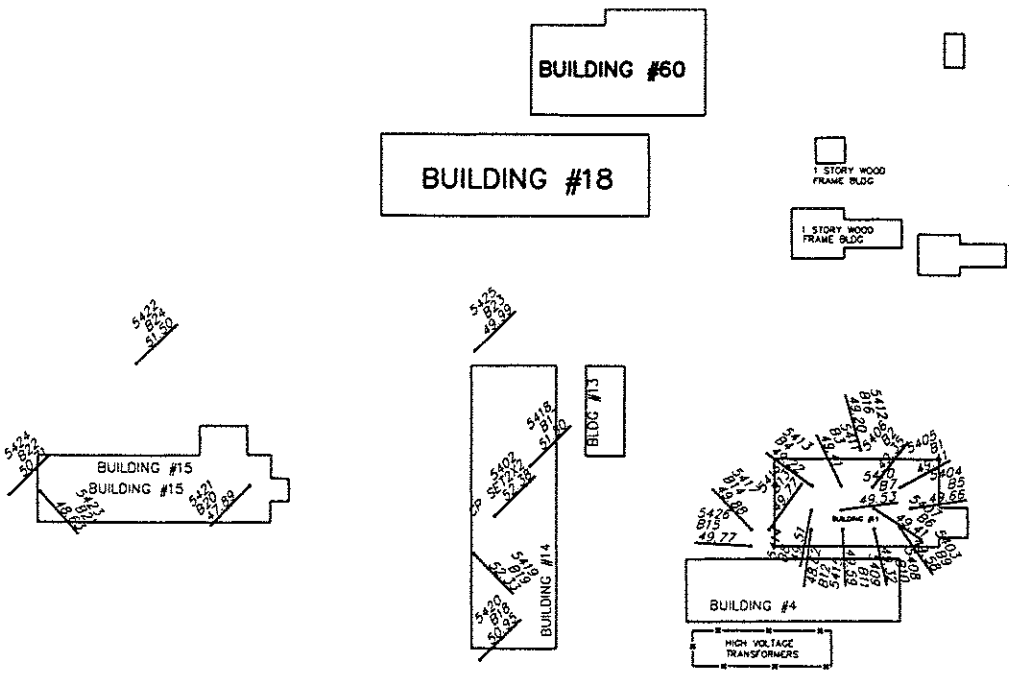
PLATE

DRAWN	PROJECT NUMBER	APPROVED	DATE	REVISED DATE
HK	41150-6.5		06/98	

Point	Northing	Easting	Elevation	Description
5402	12547.1424	11482.4646	52.38	CP SET2X2
5403	12542.4749	11690.3706	49.58	B9
5404	12552.0554	11695.8981	49.66	B5
5405	12562.9156	11690.5936	49.41	B1
5406	12563.0994	11676.7135	49.35	B2
5407	12551.8972	11677.3608	49.41	B6
5408	12541.3381	11677.4610	49.32	B10
5409	12541.2151	11661.3014	49.59	B11
5410	12551.0889	11660.5148	49.53	B7
5411	12563.3979	11660.5460	49.41	B3
5412	12582.0953	11670.4732	49.20	B16
5413	12563.3616	11645.4952	49.22	B4
5414	12550.8836	11645.2326	49.51	B8
5415	12540.8630	11645.2252	48.62	B12
5416	12540.7720	11623.4928	49.77	B13
5417	12540.6447	11614.2868	49.88	B14
5418	12572.9720	11500.4601	51.80	B17
5419	12528.1150	11471.8281	52.33	B19
5420	12472.9100	11475.1483	50.95	B18
5421	12561.5853	11356.5370	47.89	B20
5422	12624.6649	11298.1033	51.50	B24
5423	12557.9233	11248.6765	48.63	B21
5424	12556.0364	11232.7700	50.71	B22
5425	12632.6509	11472.0454	49.99	B23
5426	12532.4229	11614.0841	49.77	B15



BLDG 29



SOIL SAMPLING LOCATIONS FOR AOI 4

HARDING LAWSON ASSOCIATES
BOEING C-6 FACILITY
LOS ANGELES, CA.

TNT & ASSOCIATES INC.
1100 TOWN & COUNTRY ROAD, SUITE 1200, ORANGE, CA. 92668
TEL. (714) 560-8200 FAX (714) 560-8211

Sheet 1 of 1

Project: BOEING
Job No.: 41150_2
Subject: FIELD INVESTIGATION DAILY REPORT
Date: 4-29-98
Equipment Rental: Company:
To: MWC
Equipment Hours: F.E. Time from: to:
By: BJH

(outside service and expense record must be attached for any outside costs)

0530 - LEAVE FOR SITE IN TRK 601
0730 - ARRIVE @ SITE. MEET WITH JOANN. SHE GETS BACKHOE OPERATOR STARTED
0745 - WIL ON SITE. LOOK @ CELLS WITH JOANN
0805 - MARK (MWC) & CHRIS STOKER ON SITE. COVER SOW. COVER HASP WITH WIL & MWC. SET UP DECON KIT. DECON HAND AUGERS
0830 - IDENTIFYING HAND AUGER BORING LOCATIONS.
0930 - DIG OUT AROUND CONCRETE CELLS WITH BACKHOE TO REACH NATIVE SOIL - FIND CONCRETE SLAB ADJACENT TO CELLS BELOW BOTTOM. WILL TAKE 5' SAMPLES STARTING @ INTERFACE TO NATIVE ~~ALL~~ WIL STARTING ON B-1 & 1 START ON B-2
1015 - DIGGING OUT TO NATIVE @ B-2
1040 - START HAND AUGERING B-2
1115 - FINISHED B-2. LABELING SAMPLES
1130 - LUNCH
1230 - START SAMPLING CONCRETE CELLS. WILL LABEL AS CB1-S1 (CB = CONCRETE BASIN ~~, S = SAMPLE~~ BA & BASIN #; S = SAMPLE & #) CB1 → CB4 HAD NO SOIL IN BOTTOM *
1440 - FINISHED COLLECTING SAMPLES @ A01. START C.O.C.'S. FINISH LABELING SAMPLES. COLLECT 2 MORE DUPLICATES FROM CONCRETE BASINS
1530 - GREG FROM IES ARRIVES WITH ANOTHER COOLER & MORE SUPPLIES. CONTINUE PACKAGING SAMPLES FOR SHIPMENT.
1630 - FINISHING UP PACKING SAMPLES & JOANN FINISHING UP PAPERWORK
1640 - LEAVE SITE

* CB1 → CB4: COLLECTED SILTY SAND BY SCRAPING BOTTOM OF CONCRETE BASIN. CB-5 → CB23 COLLECT DRK. BRN TO DRK. GRAY CLAY FROM BOTTOM OF EACH BASIN. CLAY @ 1' → 1.5' THICK

Attachments:

Initial

FF1

Harding Lawson Associates

BOE-C6-0110641

Sheet 1 of 1

Project: BOEING
Subject: FIELD INVESTIGATION DAILY REPORT
Equipment Rental: _____ Company: _____
Equipment Hours: _____ F.E. Time from: _____ to: _____

Job No.: 41150-2
Date: 4-30-98
To: MWC
By: BJH

(outside service and expense record must be attached for any outside costs)

0545 - LEAVE FOR SITE IN TRK 601
0730 - @ SITE. JOANN ARRIVES. SET UP DECON KIT. JOANN TAKES ME TO WHERE THE EXCAVATORS HAD FOUND SOME DARK SOIL. FOUND THAT IT WAS JUST DARK CLAY. TAKE PICTURES OF THE CONCRETE BASINS ON THE WEST SIDE OF BUILDING 3 (AOI-1). TAKE PICTURES OF AOI-3 EXCAVATION
0800 - WIL ON SITE. IN CONCRETE BASIN #6 (AOI-3) THERE IS A HEAVY OIL SHEEN. JOANN CALLING TO SEE IF NEED TO RUN MORE ANALYTICAL
0850 - WILL RUN FULL SWEEP IN CB-6 & ANY OTHERS WHERE THERE IS SIMILAR EVIDENCE OF "OILS". WILL RUN: 8260, 8270, TITLE 22 METALS (6010, 7196, 7471), TPH (418.1 & 8015M (d) AS DIESEL) PCB'S 8080.
0915 - START COLLECTING SAMPLES FROM AOI-3 - CB'S
1200 - LUNCH
1230 - START SAMPLING AOI-2
1320 - FINISHED AOI-2. JOANN HAS US SAMPLE ANOTHER CONCRETE BASIN FOUND IN THE AOI-3 AREA, ~200' W/NW OF ~~THE~~ ALL THE OTHER BASINS IN AOI-3. RUNNING FULL SUITE TO DETERMINE STATUS
1330 - FINISHING WRAPING SAMPLES & FILLING OUT C.O.C.'S.
1335 - MWC CALLS. UPDATE STATUS
1345 - WIL LEAVES FOR FEDX. I GO FIND MARTI TO SEE WHERE TO PUT BUCKET OF DECON WATER & SHOVELS WE BORROWED
1355 - PUT DECON WATER IN CONSTRUCTION TRAILER. & SHOVELS
1400 - LEAVE SITE

Attachments:

Initial

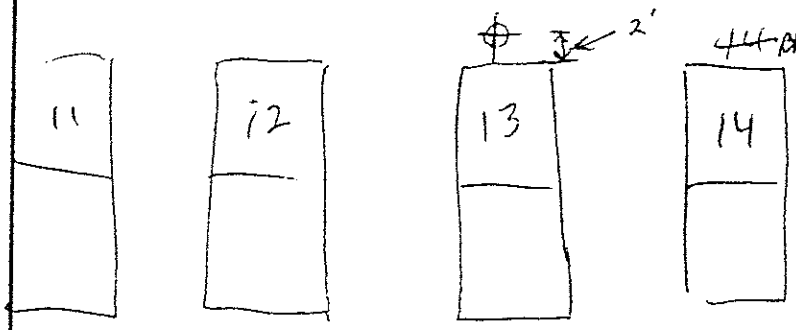
FF1

Harding Lawson Associates

FIELD LOG OF BORING

SHEET 1 OF 1

LOCATION OF BORING: AOI 3



PROJECT: Boring	BORING NO. B-2
	TOTAL DEPTH: 8.5
JOB NO.: 41150-2	LOGGED BY: BJH
PROJ. MGR.: Mark Clardy	EDITED BY:
DRILLING CONTRACTOR: HLA	
DRILL RIG TYPE: Hand Auger	
DRILLERS NAME: Bryan Hawes	
SAMPLING METHODS: Hand Pack Glass Jar	
HAMMER WT.: N/A	DROP: N/A
STARTED, TIME: 1015	DATE: 4-29-98
COMPLETED, TIME: 1115	DATE: 4-29-98
BORING DEPTH (ft.)	
CASING DEPTH (ft.)	
WATER DEPTH (ft.)	
TIME:	
DATE:	
BACKFILLED, TIME:	DATE: BY:
SURFACE ELEV.:	DATUM:
CONDITIONS:	

SAMPLE DEPTH	SAMPLER TYPE	BLOWS/6-IN.	INCHES DRIVEN	INCHES RECOVERED	SAMPLE CONDITION	DRILLING RATE (min/ft)	TIME	SAMPLE #		DEPTH IN FEET	GRAPHIC LOG	
											CL	Dark Brn Clay (CL) Stiff, Moist, Med Plasticity & Toughness, Micaceous, Mottled [Fill]
										1	GM	Gray Silty Gravel (GM), Moist, Mostly
										2	CL	F-C Angular Gravel, Little Fines [Fill] Chg. @ 1.5' BGS To Dark Brn. Clay (CL) Stiff, Moist, Med. Plasticity & Toughness, Micaceous, Mottled [Fill] & Chg. @ 3.5' BGS To Olive Brn
										3		
			6	6			1040	2-1		4	ML	Clayey Silt (ML) Stiff, Moist, Non-Plastic
			6	6			1052	2-2			ML	Micaceous
			6	6			1055	2-3			ML	Same
			6	6			1058	2-4		5	ML	Same
			6	6			1102	2-5			ML	Same
			6	6			1105	2-6		6	ML	Same
			6	6			1108	2-7			ML	Same
			6	6			1110	2-8		7	ML	Same
			6	6			1112	2-9			ML	Same
			6	6			1115	2-10		8	ML	Same
										9		Boring Terminated @ 8.5' BGS, Groundwater Not Encountered During Drilling.
										10		

FF7

HARDING LAWSON ASSOCIATES

Project: BOEING
Job No.: 41150 - 6.1 & 6.2
Subject: FIELD INVESTIGATION DAILY REPORT
Date: 5-20-98
Equipment Rental: Company:
To: MC
Equipment Hours: F.E. Time from: to:
By: BJH

(outside service and expense record must be attached for any outside costs)

0515 - LEAVE FOR SITE IN TRK 601
0645 - ARRIVE @ SITE. MEET W/ JOANN
0710 - SUBSURFACE SURVEYS ON SITE. COVER HASP & SOW W/ LARRY & GEORGE
0720 - START ~~CLEARING~~ MARKING BORING LOCATION @ BLDG 11
0745 - WHILE JOANN & I CONTINUE MARKING REMAINING BORING LOCATIONS, SUBSURFACE STARTS CLEARING BLDG. 11
0800 - BLDG 14 HAS BEEN BACKFILLED WITH RUBBLE CONSISTING OF ASPHALT & CONCRETE DEBRIS. THERE IS A ~10' DEEP PIT @ S. END OF BLDG WHERE THE BORING WAS SUPPOSE TO BE. MOVING LOCATION SLIGHTLY TO WEST ~ 10'
0[illegible] - BLDG. 15 HAS ALSO BEEN BACKFILLED WITH RUBBLE (CONCRETE & BRICK MIXED WITH SOIL). JOANN IS GOING TO HAVE A BRICK RUBBLE PILE REMOVED @ LOCATION OF 2 BORINGS @ W. END OF BLDG.
0840 - HAVE LOCATED A STRONG SIGNAL COMING OUT OF BLDG 11. LEADS UP TO MAIN SEWER LINE. HEAVY EQUIP. OPERATORS START MOVING DEBRIS PILES ~~#~~ @ BLDG.'S 14 + 15
0850 - @ MAIN GATE TO MEET GREGG DRILLING. CALIBRATE PID. READS 0.0 ON AMBIENT AIR & 100.0 ON 100.0 PPM ISOBUTYLENE. FIND THAT GEOTECH DIDN'T PUT CHARGE IN PID CAGE. CALL GEOTECH TO GET ONE DELIVERED. JOE FROM GREGG DRILLING ARRIVES
0945 - START AOI4-B1 (SEE LOG). STARTED 41150-6.2 @ 0900
1225 - START AOI4-B2. REST ~~AR~~ OF BORING LOCATIONS ARE CLEARED
1345 - START AOI4-B3
1510 - START AOI4-B4
1700 - START AOI4-B5. SUBSURFACE SURVEYS WAITING FOR INFO FROM JOANN ON WHERE THE FINAL BORING WILL BE.
1235 - START AOI4-B6. FINAL BORING BEING CLEARED
1[illegible]5 - START AOI4-B7 AFTER DECONING RODS
1420 - START AOI4-B8

Attachments:

Initial

Harding Lawson Associates

Project: BOEING
Subject: FIELD INVESTIGATION DAILY REPORT
Equipment Rental: _____ Company: _____
Equipment Hours: _____ F.E. Time from: _____ to: _____

Job No.: 41150-6.2
Date: 5-20-98
To: MC
By: BJH

(outside service and expense record must be attached for any outside costs)

1500 - START AOI4-B9
1540 - START AOI4-B10. JOANNE WILL HAVE 8260 RUN ON ANY SAMPLES OVER 100 PPM ON THE PID SINCE THERE HAVE BEEN ELEVATED READS, ESPECIALLY @ AOI4-B10.
1615 - START AOI4-B11.
1620 - COURIER ON SITE. FINISHING BORING
1630 - DE MOBING
1700 - LEAVE SITE

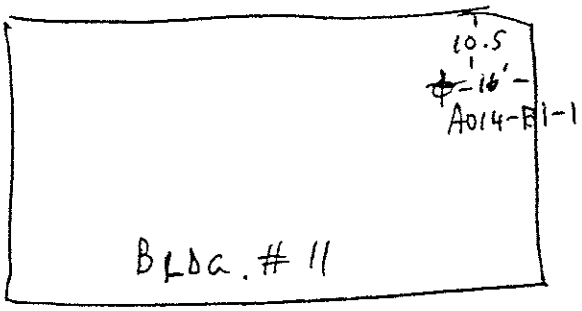
Attachments:

Initial

FIELD LOG OF BORING

SHEET 1 OF 1

LOCATION OF BORING:



PROJECT: BOEING	BORING NO. A014-B1-1
	TOTAL DEPTH: 10.5
JOB NO.: 41150-2	LOGGED BY: BJH
PROJ. MGR.: MARK CLARDY	EDITED BY:
DRILLING CONTRACTOR: GREGG DRILLING	
DRILL RIG TYPE: GEOPROBE	
DRILLERS NAME: JOE	
SAMPLING METHODS: 1.125" X 18" S/S	
HAMMER WT.: N/A	DROP: N/A
STARTED, TIME: 0945	DATE: 5-20-98
COMPLETED, TIME: 1000	DATE: 5-20-98
BORING DEPTH (ft.)	
CASING DEPTH (ft.)	
WATER DEPTH (ft.)	
TIME:	
DATE:	
BACKFILLED, TIME:	DATE: BY:
SURFACE ELEV.:	DATUM:
CONDITIONS:	

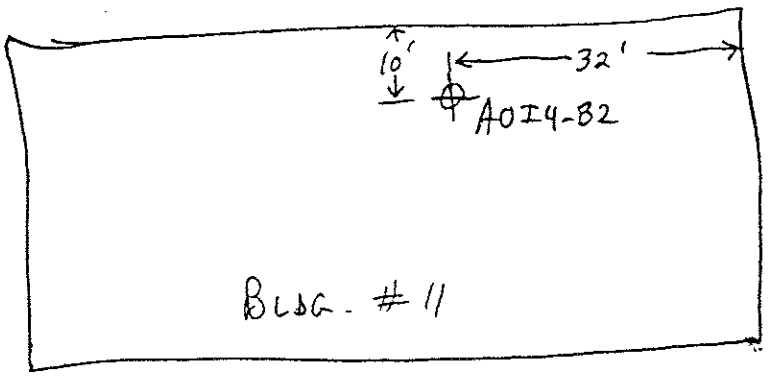
AMPLE DEPTH	SAMPLER TYPE	BLOWS/6-IN.	INCHES DRIVEN	INCHES RECOVERED	SAMPLE CONDITION	DRILLING RATE (min/ft)	PID	TIME		DEPTH IN FEET	GRAPHIC LOG	
			6	6			244	0950			ML	DARK BRN CLAYEY SILT (ML), STIFF, MOIST, LOW
			6	6						1		PLASTICITY, MICACEOUS.
			6	6								
			6	6						2		
										3		
										4		
			6	6			70	0955			ML	BRN SILT (ML), STIFF, MOIST, NON-PLASTIC,
			6	6						5		MICACEOUS
			6	6								
			6	6						6		
										7		
										8		
												SAME
			6	6				~~1000~~		9	ML	LT. BRN.
			6	6				~~1000~~				BORING TERMINATED @ 10.5' BGS. GROUNDWATER NO
			6	6			58			10		ENCOUNTERED DURING DRILLING. BORING BACKFILL
			6	6								WITH MEDIUM BENTONITE CHIPS ON 5-20-98

HARDING LAWSON ASSOCIATES

FIELD LOG OF BORING

SHEET 1 OF 1

LOCATION OF BORING:



PROJECT: BOEING	BORING NO. A0I4-B2
	TOTAL DEPTH: 10.5
JOB NO.: 41150-2	LOGGED BY: BJH
PROJ. MGR.: MARK CLARDY	EDITED BY:
DRILLING CONTRACTOR: GREGG DRILLING	
DRILL RIG TYPE: GEOPROBE	
DRILLERS NAME: JOE	
SAMPLING METHODS: 1.125" X 18" S/S	
HAMMER WT.: N/A	DROP: N/A
STARTED, TIME: 1015	DATE: 5-20-98
COMPLETED, TIME: 1025	DATE: 5-20-98
BORING DEPTH (ft.)	
CASING DEPTH (ft.)	
WATER DEPTH (ft.)	
TIME:	
DATE:	
BACKFILLED, TIME:	DATE: BY:
SURFACE ELEV.:	DATUM:
CONDITIONS:	

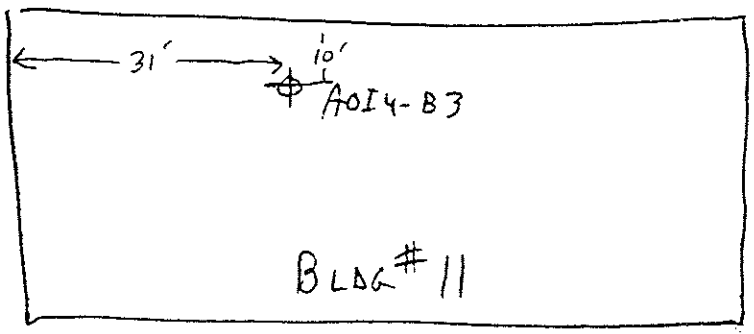
SAMPLE DEPTH	SAMPLER TYPE	BLOWS/6-IN.	INCHES DRIVEN	INCHES RECOVERED	SAMPLE CONDITION	DRILLING RATE (min/ft)	PID	TIME		DEPTH IN FEET	GRAPHIC LOG	
			6	6			22.5	1015			ML	DARK BRN CLAYEY SILT (ML), STIFF, MOIST, LOW PLASTICITY & TOUGHNESS, MICACEOUS
			6	6						1		
			6	6								
			6	6						2		
										3		
										4	ML	SAME, LT. BRN, DECREASE IN CLAY CONTENT
			6	6				1020				
			6	6						5		
			6	6			46.3					
			6	6						6		
										7		
										8		
			6	6				1025		9	ML	SAME.
			6	6			42.4					BORING TERMINATED @ 10.5' BGS. GROUNDWATER
			6	6						10		NOT ENCOUNTERED DURING DRILLING. BORING BACKFILLED
			6	6								WITH MEDIUM BENTONITE CHIPS ON 5-20-98

HARDING LAWSON ASSOCIATES

FIELD LOG OF BORING

SHEET 1 OF 1

LOCATION OF BORING:



PROJECT: BOEING	BORING NO. ADI4-B3
	TOTAL DEPTH: 10.5
JOB NO.: 41150-2	LOGGED BY: BJH
PROJ. MGR.: MARK CLARDY	EDITED BY:
DRILLING CONTRACTOR: GREGG DRILLING	
DRILL RIG TYPE: GEOPROBE	
DRILLERS NAME: JOE	
SAMPLING METHODS: 1.125" X 18" S/S	
HAMMER WT.: N/A	DROP: N/A
STARTED, TIME: 1045	DATE: 5-20-98
COMPLETED, TIME: 1055	DATE: 5-20-98
BORING DEPTH (ft.)	
CASING DEPTH (ft.)	
WATER DEPTH (ft.)	
TIME:	
DATE:	
BACKFILLED, TIME:	DATE: BY:
SURFACE ELEV.:	DATUM:
CONDITIONS:	

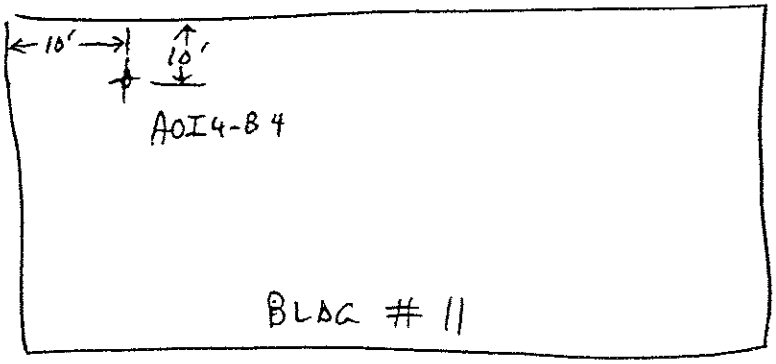
SAMPLE DEPTH	SAMPLER TYPE	BLOWS/6-IN.	INCHES DRIVEN	INCHES RECOVERED	SAMPLE CONDITION	DRILLING RATE (min/ft)	PID	TIME		DEPTH IN FEET	GRAPHIC LOG	
			6 6	6 6			84.8	1045			ML	DARK BRN CLAYEY SILT (ML), STIFF, MOIST, LOW PLASTICITY, MICACEOUS
			6 6	6 6						1 2		
										3		
			6 6	6 6			96.5	1050		4 5	ML	SAME, LT-BRN, DECREASE IN CLAY CONTENT
			6 6	6 6						6		
										7		
										8		
			6	6				1055		9	ML	SAME
			6 6	6 6			125			10		BORING TERMINATED @ 10.5' BGS. GROUNDWATER NOT ENCOUNTERED DURING DRILLING. BORING BACKFILLED WITH MEDIUM BENTONITE CHIPS ON 5-20-98
			6	6								

HARDING LAWSON ASSOCIATES

FIELD LOG OF BORING

SHEET 1 OF 1

LOCATION OF BORING:



PROJECT: BOEING	BORING NO. AOI4-B4
	TOTAL DEPTH: 10.5
JOB NO.: 41150-2	LOGGED BY: BJH
PROJ. MGR.: MARK CLARDY	EDITED BY:
DRILLING CONTRACTOR: GREGG DRILLING	
DRILL RIG TYPE: GEOPROBE	
DRILLERS NAME: JOE	
SAMPLING METHODS: 1.125" X 18" S/S	
HAMMER WT.: N/A	DROP: N/A
STARTED, TIME: 1110	DATE: 5-20-98
COMPLETED, TIME: 1120	DATE: 5-20-98
BORING DEPTH (ft.)	
CASING DEPTH (ft.)	
WATER DEPTH (ft.)	
TIME:	
DATE:	
BACKFILLED, TIME:	DATE: BY:
SURFACE ELEV.:	DATUM:
CONDITIONS:	

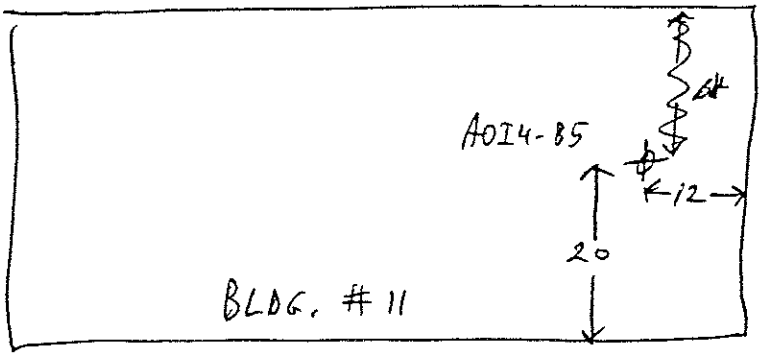
SAMPLE DEPTH	SAMPLER TYPE	BLOWS/6-IN.	INCHES DRIVEN	INCHES RECOVERED	SAMPLE CONDITION	DRILLING RATE (min/ft)	PID	TIME		DEPTH IN FEET	GRAPHIC LOG	
			6	3				1110				DEBRIS @ TOP
			6	6							ML	DRK. BRN CLAYEY SILT (ML), STIFF,
			6	6			27.3			1		MOIST, LOW PLASTICITY, MICACEOUS
			6	6						2		
										3		
										4		
			6	6				1115			ML	BRN SILT (ML) STIFF, MOIST, NON-
			6	6						5		PLASTIC, MICACEOUS
			6	6								(DUPLICATE SAMPLE)
			6	6			110			6		
										7		
										8		
			6	6				1120		9	ML	SAME
			6	6								BORING TERMINATED @ 10.5' BGS. GROUNDWATER
			6	6						10		NOT ENCOUNTERED DURING DRILLING. BORING BACKFILLED
			6	6			67.9					WITH MEDIUM BENTONITE CHIPS ON 5-20-98

HARDING LAWSON ASSOCIATES

FIELD LOG OF BORING

SHEET 1 OF 1

LOCATION OF BORING:



PROJECT: BOEING	BORING NO. A014-B5
	TOTAL DEPTH: 10.5
JOB NO.: 41150-2	LOGGED BY: BJH
PROJ. MGR.: MARK CLARDY	EDITED BY:
DRILLING CONTRACTOR: GREGG DRILLING	
DRILL RIG TYPE: GEOPROBE	
DRILLERS NAME: JOE	
SAMPLING METHODS: 1.125" X 18" S/S	
HAMMER WT.: N/A	DROP: N/A
STARTED, TIME: 1200	DATE: 5-20-98
COMPLETED, TIME: 1210	DATE: 5-20-98
BORING DEPTH (ft.)	
CASING DEPTH (ft.)	
WATER DEPTH (ft.)	
TIME:	
DATE:	
BACKFILLED, TIME:	DATE: BY:
SURFACE ELEV.:	DATUM:
CONDITIONS:	

SAMPLE DEPTH	SAMPLER TYPE	BLOWS/6-IN.	INCHES DRIVEN	INCHES RECOVERED	SAMPLE CONDITION	DRILLING RATE (min/ft)	PID	TIME		DEPTH IN FEET	GRAPHIC LOG	
			6	6				1200			ML	DARK BRN CLAYEY SILT (ML) ~~ST~~ V. STIFF, MOIST, LOW PLASTICITY, MICACEOUS
			6	6						1		
			6	6			196					
			6	6						2		
										3		
										4	ML	LT. BRN SILT (ML), STIFF, MOIST, MICACEOUS
			6	3				1205				
			6	6			71.5			5		
			6	6								
			6	6						6		
										7		
										8		
		BH	~~6~~									
			6	6				1210		9	ML	SAME
			6	6								BORING TERMINATED @ 10.5' BGS. GROUNDWATER NOT
			6	6								ENCOUNTERED DURING DRILLING. BORING BACKFILLED
			6	6			81.1			10		WITH MEDIUM BENTONITE CHIPS ON 5-20-98

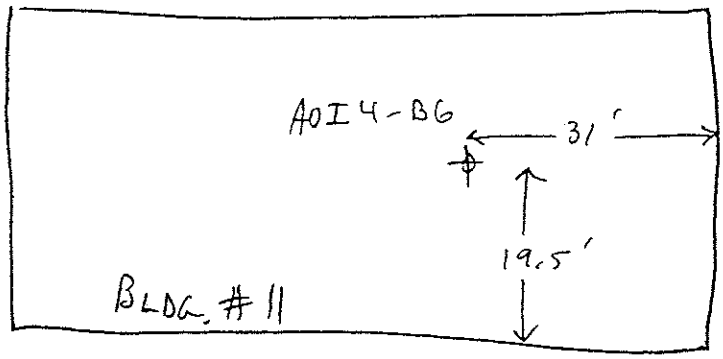
HARDING LAWSON ASSOCIATES

BOE-C6-0110650

FIELD LOG OF BORING

SHEET 1 OF 1

LOCATION OF BORING:



PROJECT: BOEING	BORING NO. AOI4-B6
	TOTAL DEPTH: 10.5
JOB NO.: 41150-2	LOGGED BY: BJH
PROJ. MGR.: MARK CLARBY	EDITED BY:
DRILLING CONTRACTOR: GREGG DRILLING	
DRILL RIG TYPE: GEOPROBE	
DRILLERS NAME: JOE	
SAMPLING METHODS: 1.125" X 18" S/S	
HAMMER WT.: N/A	DROP: N/A
STARTED, TIME: 1235	DATE: 5-20-98
COMPLETED, TIME: 1245	DATE: 5-20-98
BORING DEPTH (ft.)	
CASING DEPTH (ft.)	
WATER DEPTH (ft.)	
TIME:	
DATE:	
BACKFILLED, TIME:	DATE: BY:
SURFACE ELEV.:	DATUM:
CONDITIONS:	

SAMPLE DEPTH	SAMPLER TYPE	BLOWS/6-IN.	INCHES DRIVEN	INCHES RECOVERED	SAMPLE CONDITION	DRILLING RATE (min/ft)	PID	TIME		DEPTH IN FEET	GRAPHIC LOG	
			6	6				1235			ML	DRK BRN CLAYEY SILT (ML) V. STIFF MOIST, LOW PLASTICITY, MICACEOUS
			6	6			71.3			1		
			6	6								
			6	6						2		
										3		
										4	ML	LT. BRN. SILT (ML), STIFF, MOIST, NON-PLASTIC, MICACEOUS
			6	6				1240				
			6	6								
			6	6						5		
			6	6			43.5			6		
										7		
										8		
			6	6				1245		9	ML	SAME
			6	6								BORING TERMINATED @ 10.5' BGS. GROUNDWATER NOT ENCOUNTERED DURING DRILLING. ~~GROUNDWATER NOT~~
			6	6								
			6	6			92.1			10		BORING BACKFILLED WITH MEDIUM BENTONITE CHIPS ON 5-20-98

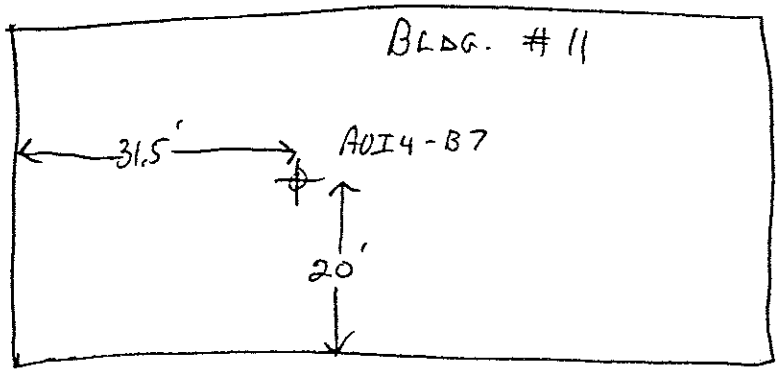
FF7

HARDING LAWSON ASSOCIATES

FIELD LOG OF BORING

SHEET 1 OF 1

LOCATION OF BORING:



PROJECT: BOEING	BORING NO. AOI4-B7
	TOTAL DEPTH: 10.5
JOB NO.: 41150-2	LOGGED BY: BJH
PROJ. MGR.: MARK CLARKY	EDITED BY:
DRILLING CONTRACTOR: GREGG DRILLING	
DRILL RIG TYPE: GEOPROBE	
DRILLERS NAME: JOE	
SAMPLING METHODS: 1.125" X 18" S/S	
HAMMER WT.: N/A	DROP: N/A
STARTED, TIME: 1325	DATE: 5-20-98
COMPLETED, TIME: 1335	DATE: 5-20-98
BORING DEPTH (ft.)	
CASING DEPTH (ft.)	
WATER DEPTH (ft.)	
TIME:	
DATE:	
BACKFILLED, TIME:	DATE: BY:
SURFACE ELEV.:	DATUM:
CONDITIONS:	

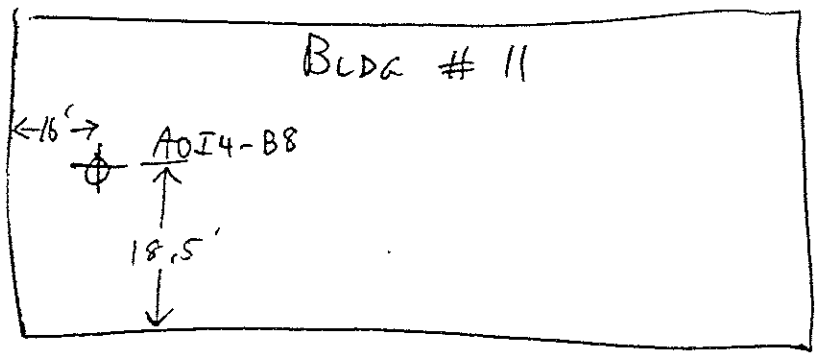
SAMPLE DEPTH	SAMPLER TYPE	BLOWS/6-IN.	INCHES DRIVEN	INCHES RECOVERED	SAMPLE CONDITION	DRILLING RATE (min/ft)	PID	TIME		DEPTH IN FEET	GRAPHIC LOG	
			6	6				1325			ML	DRK. BRN CLAYEY SILT (ML), V. STIFF, MOIST, LOW PLASTICITY, MICACEOUS
			6	6			67.0			1		
			6	6								
			6	6						2		
										3		
										4		
			6	6				1330			ML	BRN SILT (ML), STIFF, MOIS
			6	6						5		
			6	6								
			6	6			127			6		
										7		
										8		
			6	6				1335		9	ML	SAME
			6	6								BORING TERMINATED @ 10.5' BGS. GROUNDWATER NOT
			6	6								ENCOUNTERED DURING DRILLING. BORING BACKFILLED
			6	6			57.6			10		WITH MEDIUM BENTONITE CHIPS ON 5-20-98

HARDING LAWSON ASSOCIATES

FIELD LOG OF BORING

SHEET 1 OF 1

LOCATION OF BORING:



PROJECT: BOEING	BORING NO. AOI4-B8
	TOTAL DEPTH: 10.5
JOB NO.: 41150-2	LOGGED BY: BJH
PROJ. MGR.: MARK CLARKY	EDITED BY:
DRILLING CONTRACTOR: GREGG DRILLING	
DRILL RIG TYPE: GEOPROBE	
DRILLERS NAME: JOE	
SAMPLING METHODS: 1.125" X 18" S/S	
HAMMER WT.: N/A	DROP: N/A
STARTED, TIME: 1420	DATE: 5-20-98
COMPLETED, TIME: 1430	DATE: 5-20-98
BORING DEPTH (ft.)	
CASING DEPTH (ft.)	
WATER DEPTH (ft.)	
TIME:	
DATE:	
BACKFILLED, TIME:	DATE: BY:
SURFACE ELEV.:	DATUM:
CONDITIONS:	

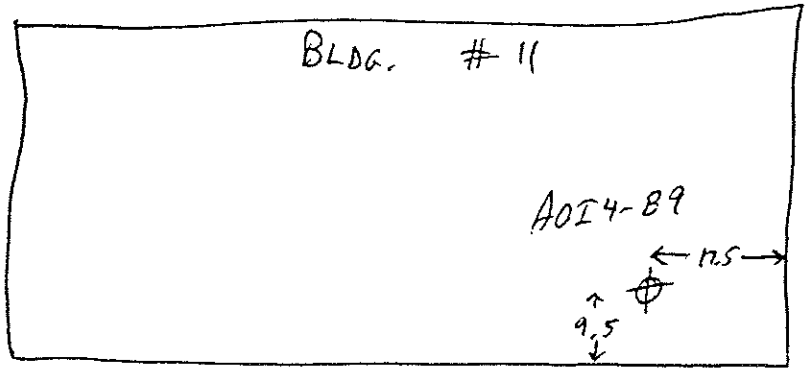
SAMPLE DEPTH	SAMPLER TYPE	BLOWS/6-IN.	INCHES DRIVEN	INCHES RECOVERED	SAMPLE CONDITION	DRILLING RATE (min/ft)	PID	TIME		DEPTH IN FEET	GRAPHIC LOG	
												[FILL] GRAVEL & PIECES OF WOOD, WET
			6	6				1420		1	ML	DARK BRN CLAYEY SILT (ML), STIFF, MOIST,
			6	6			53.1			2		LOW PLASTICITY, MICACEOUS
			6	6								
			6	6						3		
			6	6				1425		4	ML	BRN SILT (ML), STIFF, MOIST, NON-PLASTIC,
			6	6						5		MICACEOUS
			6	6								
			6	6			18.2			6		
										7		
										8		
			6	6				1430		9	ML	SAME
			6	6								BORING TERMINATED @ 10.5' BGS. GROUNDWATER NOT
			6	6						10		ENCOUNTERED DURING DRILLING. BORING BACKFILLED
			6	6			67.9					WITH MEDIUM BENTONITE CHIPS ON 5-20-98

HARDING LAWSON ASSOCIATES

FIELD LOG OF BORING

SHEET 1 OF 1

LOCATION OF BORING:



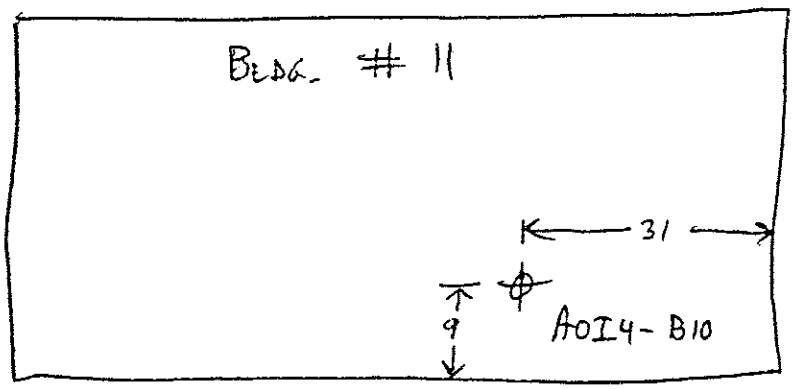
PROJECT: BOEING	BORING NO. AOI4-B9
	TOTAL DEPTH: 10.5
JOB NO.: 41150-2	LOGGED BY: BJH
PROJ. MGR.: MARK CLARDY	EDITED BY:
DRILLING CONTRACTOR: GREGG DRILLING	
DRILL RIG TYPE: GEOPROBE	
DRILLERS NAME: JOE	
SAMPLING METHODS: 1.125" X 18" S/S	
HAMMER WT.: N/A	DROP: N/A
STARTED, TIME: 1510	DATE: 5-20-98
COMPLETED, TIME: 1510	DATE: 5-20-98
BORING DEPTH (ft.)	
CASING DEPTH (ft.)	
WATER DEPTH (ft.)	
TIME:	
DATE:	
BACKFILLED, TIME:	DATE: BY:
SURFACE ELEV.:	DATUM:
CONDITIONS:	

SAMPLE DEPTH	SAMPLER TYPE	BLOWS/6-IN.	INCHES DRIVEN	INCHES RECOVERED	SAMPLE CONDITION	DRILLING RATE (min/ft)	PID	TIME		DEPTH IN FEET	GRAPHIC LOG	
			6	6				1500			ML	DARK BRN CLAYEY SILT (ML), STIFF, MOIST, LOW PLASTICITY, MICACEOUS
			6	6			445			1		
			6	6								
			6	6						2		
										3		
			6	6				1505		4	ML	BRN. SILT. (ML), STIFF, MOIST, NON-PLASTIC, MICACEOUS
			6	6						5		
			6	6		1						
			6	6			100			6		
										7		
										8		
			6	6				1510		9	ML	SAME
			6	6								BORING TERMINATED @ 10.5' BGS. GROUNDWATER
			6	6								NOT ENCOUNTERED DURING DRILLING. BORING BACKFILL
			6	6			186			10		WITH MEDIUM BENTONITE CHIPS ON 5-20-98

FIELD LOG OF BORING

SHEET 1 OF 1

LOCATION OF BORING:



PROJECT: BOEING	BORING NO. AOI4-B10
	TOTAL DEPTH: 10.5
JOB NO.: 41150-2	LOGGED BY: BJH
PROJ. MGR.: MARK CLARDY	EDITED BY:
DRILLING CONTRACTOR: GREGG DRILLING	
DRILL RIG TYPE: GEOPROBE	
DRILLERS NAME: JOE	
SAMPLING METHODS: 1.125" X 18" S/S	
HAMMER WT.: N/A	DROP: N/A
STARTED, TIME: 1540	DATE: 5-20-98
COMPLETED, TIME: 1550	DATE: 5-20-98
BORING DEPTH (ft.)	
CASING DEPTH (ft.)	
WATER DEPTH (ft.)	
TIME:	
DATE:	
BACKFILLED, TIME:	DATE: BY:
SURFACE ELEV.:	DATUM:
CONDITIONS:	

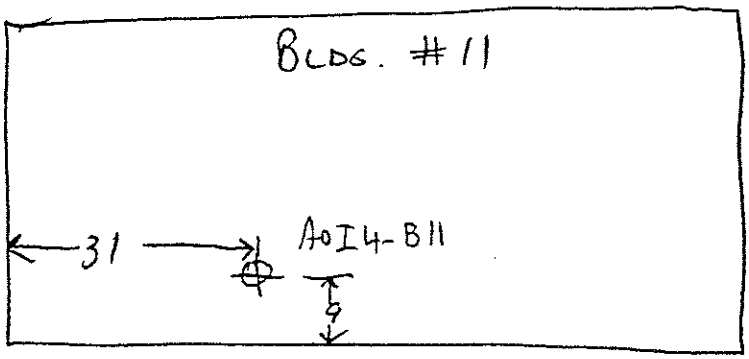
SAMPLE DEPTH	SAMPLER TYPE	BLOWS/6-IN.	INCHES DRIVEN	INCHES RECOVERED	SAMPLE CONDITION	DRILLING RATE (min/ft)	PID	TIME		DEPTH IN FEET	GRAPHIC LOG	
			6	6				1540			ML	DRK BRN CLAYEY SILT (ML), STIFF, MOIST,
			6	6			251			1		LOW PLASTICITY, MICACEOUS
			6	6								
			6	6						2		
										3		
										4		
			6	6				1545			ML	BRN, SILT (ML), STIFF, MOIST, NON-PLASTIC,
			6	6						5		MICACEOUS
			6	6								
			6	6			260			6		
										7		
										8		
			6	6				1550		9	ML	SAME
			6	6								BORING TERM. @ 10.5' BGS. G.W. NOT ENCOUNTERED
			6	6								DURING DRILLING. BOREHOLE BACKFILLED W/MED. BENT-
			6	6			308			10		CHIPS ON 5-20-98

HARDING LAWSON ASSOCIATES

FIELD LOG OF BORING

SHEET 1 OF 1

LOCATION OF BORING:



PROJECT: BOEING	BORING NO. A0I4-B11
	TOTAL DEPTH: 10.5
JOB NO.: 41150-2	LOGGED BY: BJH
PROJ. MGR.: MARK CLARDY	EDITED BY:
DRILLING CONTRACTOR: GREGG DRILLING	
DRILL RIG TYPE: GEOPROBE	
DRILLERS NAME: JOE	
SAMPLING METHODS: 1.125" X 18" S/S	
HAMMER WT.: N/A	DROP: N/A
STARTED, TIME: 1615	DATE: 5-20-98
COMPLETED, TIME: 1625	DATE: 5-20-98
BORING DEPTH (ft.)	
CASING DEPTH (ft.)	
WATER DEPTH (ft.)	
TIME:	
DATE:	
BACKFILLED, TIME:	DATE: BY:
SURFACE ELEV.:	DATUM:
CONDITIONS:	

SAMPLE DEPTH	SAMPLER TYPE	BLOWS/6-IN.	INCHES DRIVEN	INCHES RECOVERED	SAMPLE CONDITION	DRILLING RATE (min/ft)	PID	TIME		DEPTH IN FEET	GRAPHIC LOG	
			6	6				1615			ML	DRK BRN CLAYEY SILT (ML), STIFF, MOIST, LOW PLASTICITY, MICACEOUS
			6	6								
			6	6			145			1		
			6	6						2		
										3		
										4	ML	BRN. SILT (ML), STIFF, MOIST, NON-PLASTIC, MICACEOUS
			6	6				1620				
			6	6								
			6	6						5		
			6	6			32.5			6		
										7		
										8		
			6	6				1625		9	ML	SAME.
			6	6								BORING TERM. @ 10.5' BGS. G.W. NOT ENCOUNTERED
			6	6						10		DURING DRILLING. BORING BACKFILLED W/MED. BENT
			6	6			123					CHIPS ON 5-20-98

Sheet 1 of 1

Project: BOEING
Job No.: 41150 - 6.2
Subject: FIELD INVESTIGATION DAILY REPORT
Date: 5-21-98
Equipment Rental: _____ Company: _____
To: MC
Equipment Hours: _____ F.E. Time from: _____ to: _____
By: BJH

(outside service and expense record must be attached for any outside costs)

0515 - LEAVE FOR SITE IN TRK 601
0630 - ARRIVE @ SITE. SET UP EQUIP. CALIBRATE PID: READS 0.0 ON AMBIENT AIR & 100.0 ON 100.0 PPM ISOBUTYLENE. PREPARING PAPERWORK
0655 - JOE FROM GREGG DRILLING ON SITE. MOBING @ AOI4-B12
0730 - START AOI4-B12 (SEE LOGS)
0800 - START AOI4-B16
0840 - START AOI4-B13
0930 - START AOI4-B14
1015 - START AOI4-B15
[illegible] - FINISHED AOI4-B15. PREPARING TO TAKE EQUIP. BLANK BEFORE MOVING TO NON-PCB AREAS
1145 - START AOI4-B17
1230 - LUNCH
1300 - MOBING @ AOI4-B18 START @ 1325
1415 - STARTING AOI4-B19
1505 - REFUSAL @ AOI-B23. WILL HAVE AREA GRADED TOMORROW ALONG WITH AOI4-B20 WHICH IS INACCESSIBLE
1545 - START AOI4-B21
1615 - START AOI4-B22
1635 - FINISHED AOI4-B22. DEMOBING. PUT DECON WATER IN 55 GAL DRUM BY CONCRETE PILE FROM BLDG. #11'S DEMOLITION
1715 - SIGN GREGG DRILLING'S PAPERWORK & LEAVE SITE

Attachments:

Initial

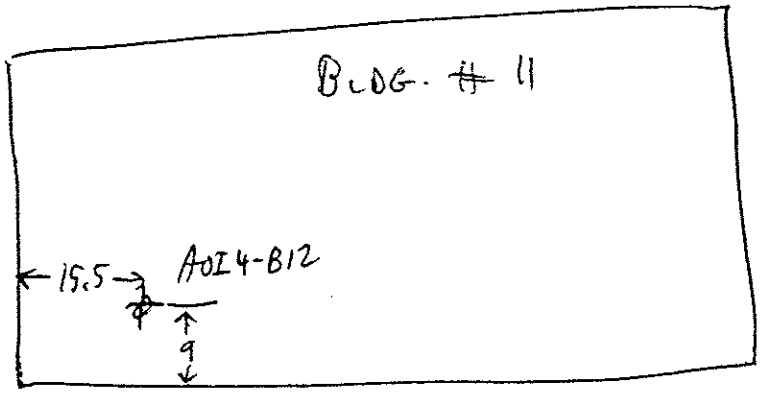
FF1

Harding Lawson Associates

FIELD LOG OF BORING

SHEET 1 OF 1

LOCATION OF BORING:



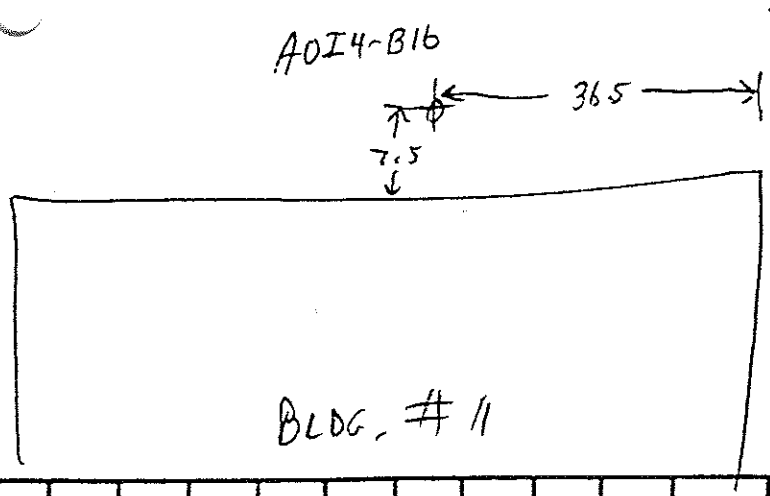
PROJECT: BOEING	BORING NO. A014-B12
	TOTAL DEPTH: 10.5
JOB NO.: 41150-2	LOGGED BY: BJH
PROJ. MGR.: MARK CLARBY	EDITED BY:
DRILLING CONTRACTOR: GREGG DRILLING	
DRILL RIG TYPE: GEOPROBE	
DRILLERS NAME: JOE	
SAMPLING METHODS: 1.125" X 18" S/S	
HAMMER WT.: N/A	DROP: N/A
STARTED, TIME: 0730	DATE: 5-21-98
COMPLETED, TIME: 0740	DATE: 5-21-98
BORING DEPTH (ft.)	
CASING DEPTH (ft.)	
WATER DEPTH (ft.)	
TIME:	
DATE:	
BACKFILLED, TIME:	DATE: BY:
SURFACE ELEV.:	DATUM:
CONDITIONS:	

SAMPLE DEPTH	SAMPLER TYPE	BLOWS/6-IN.	INCHES DRIVEN	INCHES RECOVERED	SAMPLE CONDITION	DRILLING RATE (min/ft)	PID	TIME		DEPTH IN FEET	GRAPHIC LOG	
			6	6				0730			ML	DRK BRN CLAYEY SILT (ML), STIFF, MOIST, LOW PLASTICITY, MICACEOUS
			6	6			305			1		
			6	6								
			6	6						2		
										3		
										4	ML	BRN SILT (ML), STIFF, MOIST, NON-PLASTIC MICACEOUS
			6	6				0735				
			6	6						5		
			6	6								
			6	6			462			6		
										7		
										8		
			6	6				0740		9	ML	SAME
			6	6								BORING TERMINATED @ 10.5' BGS. GROUNDWATER N ENCOUNTERED DURING DRILLING. BORING BACKFILLED WI MEDIUM BENTONITE CHIPS ON 5-21-98
			6	6						10		
			6	6			401					

FIELD LOG OF BORING

SHEET 1 OF 1

LOCATION OF BORING:



PROJECT: BOEING	BORING NO. AOI4-B16
	TOTAL DEPTH: 10.5
JOB NO.: 41150-2	LOGGED BY: BJH
PROJ. MGR.: MARK CLARDY	EDITED BY:
DRILLING CONTRACTOR: GREGG DRILLING	
DRILL RIG TYPE: GEOPROBE	
DRILLERS NAME: JOE	
SAMPLING METHODS: 1.125" X 18" S/S	
HAMMER WT.: N/A	DROP: N/A
STARTED, TIME: 0800	DATE: 5-21-98
COMPLETED, TIME: 0810	DATE: 5-21-98
BORING DEPTH (ft.)	
CASING DEPTH (ft.)	
WATER DEPTH (ft.)	
TIME:	
DATE:	
BACKFILLED, TIME:	DATE: BY:
SURFACE ELEV.:	DATUM:
CONDITIONS:	

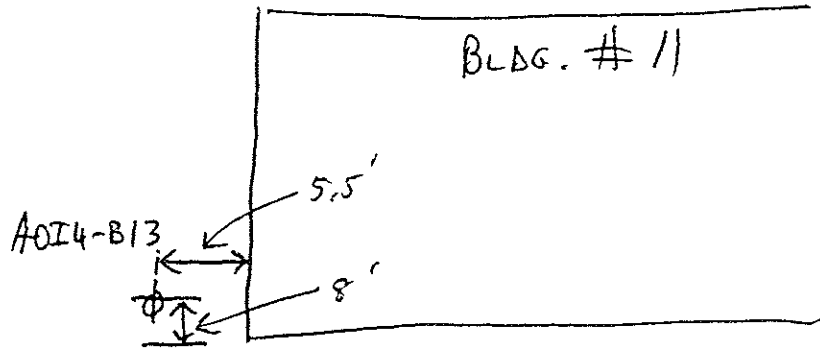
SAMPLE DEPTH	SAMPLER TYPE	BLOWS/6-IN.	INCHES DRIVEN	INCHES RECOVERED	SAMPLE CONDITION	DRILLING RATE (min/ft)	PID	TIME		DEPTH IN FEET	GRAPHIC LOG	
			6	6				0800			0.0 0.2	GRAVEL FILL TO 0.6' BGS
			6	6							ML	BRN. CLAYEY SILT (ML), STIFF, MOIST,
			6	6			27.1			1		LOW PLASTICITY, MICACEOUS
			6	6						2		
										3		
										4		
			6	6				0805				BRN SILT (ML)
			6	6						5	ML	
			6	6								(DUPLICATE SAMPLE)
			6	6			54.3			6		
										7		
										8		
			6	6				0810		9	ML	SAME
			6	6								BORING TERMINATED @ 10.5' BGS. GROUNDWATER
			6	6						10		NOT ENCOUNTERED DURING DRILLING. BORING BACK-
			6	6			0.0					FILLED WITH MEDIUM BENTONITE CHIPS ON 5-21-98

HARDING LAWSON ASSOCIATES

FIELD LOG OF BORING

SHEET 1 OF 2

LOCATION OF BORING:



PROJECT: BOEING	BORING NO. AOI4-B13
	TOTAL DEPTH: 16.0
JOB NO.: 41150-2	LOGGED BY: BJH
PROJ. MGR.: MARK CLARBY	EDITED BY:
DRILLING CONTRACTOR: GREGG DRILLING	
DRILL RIG TYPE: GEOPROBE	
DRILLERS NAME: JOE	
SAMPLING METHODS: 1.125" X 18" S/S	
HAMMER WT.: N/A	DROP: N/A
STARTED, TIME: 0840	DATE: 5-21-98
COMPLETED, TIME: 0855	DATE: 5-21-98
BORING DEPTH (ft.)	
CASING DEPTH (ft.)	
WATER DEPTH (ft.)	
TIME:	
DATE:	
BACKFILLED, TIME:	DATE: BY:
SURFACE ELEV.:	DATUM:
CONDITIONS:	

SAMPLE DEPTH	SAMPLER TYPE	BLOWS/6-IN.	INCHES DRIVEN	INCHES RECOVERED	SAMPLE CONDITION	DRILLING RATE (min/ft)	PID	TIME		DEPTH IN FEET	GRAPHIC LOG	
												GRAVEL FILL
			6	6				0840		1	ML	DARK BRN CLAYEY SILT (ML) STIFF, MOIST, LOW PLASTICITY, MICACEOUS
			6	6			4.4			2		
			6	6								
			6	6						3		
			6	6				0845		4	ML	BRN SILT (ML), STIFF, MOIST, NON-PLASTIC, MICACEOUS
			6	6								
			6	6						5		
			6	6			2.7			6		
										7		
										8		
			6	6				0850		9	ML	SAME
			6	6						10		
			6	6								

HARDING LAWSON ASSOCIATES

AOI3 - TRANSMISSION TOWER ARRAY
Parcel B Boeing C-6 Facility

Sample Location	Depth (feet)	Sample ID No.	Date of Collection	Time of Collection	Analytical PCBs EPA 8080 (4-oz glass or stainless steel sleeve)	Date Sample Received at Laboratory	Chain-of-Custody No.	Comments	Soil Indicates Impact? YES (Excav. Area#)	NO (NFA)
CB1-S1	NA	AOI3-CB1-S1	4/30/98	1145	X	4/30/98	AOI3-2	CB1 is at south end of AOI3; brown and grayish-green clay; slightly moist; no ponded water; no odor		X
CB2-S1	NA	AOI3-CB2-S1	4/30/98	1148	X	4/30/98	AOI3-2	brown and grayish-green clay; slightly moist; no ponded water; no odor		X
CB3-S1	NA	AOI3-CB3-S1	4/30/98	1150	X	4/30/98	AOI3-2	brown and grayish-green clay; slightly moist; no ponded water; no odor		X
CB4-S1	NA	AOI3-CB4-S1	4/30/98	1050	X	4/30/98	AOI3-2	dark grayish-green clay; sticky; moist; no ponded water or odor		X
CB5-S1	NA	AOI3-CB5-S1	4/30/98	1050	X	4/30/98	AOI3-2	light grayish brown clay; dry; no odor		X
CB6-S1	NA	AOI3-CB6-S1	4/30/98	1035	X	4/30/98	AOI3-2	light brown clay; moist; no ponded water or odor		X
dup	NA	AOI3-CB6-S1D	4/30/98	1035	X	4/30/98	AOI3-2	light brown clay; moist; no ponded water or odor		X
CB7-S1	NA	AOI3-CB7-S1	4/30/98	1034	X	4/30/98	AOI3-2	dark grayish-green clay, sticky; moist; no ponded water or odor		X
CB8-S1	NA	AOI3-CB8-S1	4/30/98	1027	X	4/30/98	AOI3-2	dark grayish-green clay, sticky; moist; no ponded water or odor		X
CB9-S1	NA	AOI3-CB9-S1	4/30/98	948	X	4/30/98	AOI3-2	dark grayish-green clay, sticky; moist; no ponded water or odor		X
CB10-S1	NA	AOI3-CB10-S1	4/30/98	940	X	4/30/98	AOI3-2	dark grayish-green clay, sticky; moist; no ponded water or odor		X
CB11-S1	NA	AOI3-CB11-S1	4/30/98	935	X	4/30/98	AOI3-2	dark grayish-green clay, sticky; moist; no ponded water or odor		X
CB12-S1	NA	AOI3-CB12-S1	4/30/98	927	full suite	4/30/98	AOI3-2	ponded water contains layer of free product; no odor		X
CB13-S1	NA	AOI3-CB13-S1	4/30/98	923	X	4/30/98	AOI3-2	dark grayish-green clay; sticky; slight oily sheen over ponded water		X
CB14-S1	NA	AOI3-CB14-S1	4/30/98	920	X	4/30/98	AOI3-2	dark grayish-green clay; sticky; slight oily sheen over ponded water; no odor		X
CB15-S1	NA	AOI3-CB15-S1	4/30/98	920	X	4/30/98	AOI3-2	dark grayish-green clay; sticky; slight oily sheen over ponded water; no odor		X
CB16-S1	NA	AOI3-CB16-S1	4/30/98	1310	full suite	4/30/98	AOI3-2	dark gray clay soil with black tarry material		X
CB17-S1	NA	AOI3-CB17-S1	5/12/98	1105	full suite	5/13/98	AOI3-3	dark gray clay soil with black tarry material		X
CB18-S1	NA	AOI3-CB18-S1	5/12/98	1110	full suite	5/13/98	AOI3-3	dark gray clay soil with black tarry material		X
CONFIRMATION SAMPLES										
C1	NA	AOI3-CB12-C1	5/15/98	900	X	5/15/98				X
C3	NA	AOI3-CB4-C2	5/15/98	915	X	5/15/98				X
C3	NA	AOI3-CB16-C3	5/28/98	935	full suite	5/28/98	AOI3-5	samples submitted to OCA for analysis		X
C4	NA	AOI3-CB17-C4	5/28/98	340	full suite	5/28/98	AOI3-5	samples submitted to OCA for analysis		X
C5	NA	AOI3-CB18-C5	5/28/98	950	full suite	5/28/98	AOI3-5	samples submitted to OCA for analysis		X

BOE-C6-0110661

AOI3 - TRANSMISSION TOWER ARRAY
Parcel B Boeing C-6 Facility

Sample Location	Depth (feet)	Sample ID No.	Date of Collection	Time of Collection	Analytical PCBs EPA 8080 (4-oz glass or stainless steel sleeve)	Date Sample Received at Laboratory	Chain-of-Custody No.	Comments	Soil Indicates Impact? YES (Excav. Area#)	NO (NFA)
BORINGS										
B1	0.5	AOI3-B1-S1-0.5	4/29/1998	1025	X	4/29/98	AOI3-1	west end of basin 6; brown clayey silt		X
	1	AOI3-B1-S2-1.0	4/29/1998	1026	X	4/29/98	AOI3-1	west end of basin 6; brown clayey silt		X
	1.5	AOI3-B1-S3-1.5	4/29/1998	1027	X	4/29/98	AOI3-1	west end of basin 6; brown clayey silt		X
	2	AOI3-B1-S4-2.0	4/29/1998	1028	X	4/29/98	AOI3-1	west end of basin 6; brown clayey silt		X
	2.5	AOI3-B1-S5-2.5	4/29/1998	1029	X	4/29/98	AOI3-1	west end of basin 6; brown clayey silt		X
	3	AOI3-B1-S6-3.0	4/29/1998	1030	X	4/29/98	AOI3-1	west end of basin 6; brown clayey silt		X
dup	3	AOI3-B1-S6D-3.0	4/29/1998	1031	X	4/29/98	AOI3-1	west end of basin 6; brown clayey silt		X
	3.5	AOI3-B1-S7-3.5	4/29/1998	1032	X	4/29/98	AOI3-1	west end of basin 6; brown clayey silt		X
	4	AOI3-B1-S8-4.0	4/29/1998	1033	X	4/29/98	AOI3-1	west end of basin 6; brown clayey silt		X
	4.5	AOI3-B1-S9-4.5	4/29/1998	1034	X	4/29/98	AOI3-1	west end of basin 6; brown clayey silt		X
	5	AOI3-B1-S10-5.0	4/29/1998	1035	X	4/29/98	AOI3-1	west end of basin 6; brown clayey silt		X
B2	0.5	AOI3-B2-S1-0.5	4/29/1998	1040	X	4/29/98	AOI3-1	west end of basin 13; brown clayey silt		X
	1	AOI3-B2-S2-1.0	4/29/1998	1041	X	4/29/98	AOI3-1	west end of basin 13; brown clayey silt		X
	1.5	AOI3-B2-S3-1.5	4/29/1998	1042	X	4/29/98	AOI3-1	west end of basin 13; brown clayey silt		X
	2	AOI3-B2-S4-2.0	4/29/1998	1043	X	4/29/98	AOI3-1	west end of basin 13; brown clayey silt		X
	2.5	AOI3-B2-S5-2.5	4/29/1998	1044	X	4/29/98	AOI3-1	west end of basin 13; brown clayey silt		X
	3	AOI3-B2-S6-3.0	4/29/1998	1045	X	4/29/98	AOI3-1	west end of basin 13; brown clayey silt		X
	3.5	AOI3-B2-S7-3.5	4/29/1998	1046	X	4/29/98	AOI3-1	west end of basin 13; brown clayey silt		X
	4	AOI3-B2-S8-4.0	4/29/1998	1047	X	4/29/98	AOI3-1	west end of basin 13; brown clayey silt		X
	4.5	AOI3-B2-S9-4.5	4/29/1998	1048	X	4/29/98	AOI3-1	west end of basin 13; brown clayey silt		X
	5	AOI3-B2-S10-5.0	4/29/1998	1049	X	4/29/98	AOI3-1	west end of basin 13; brown clayey silt		X
FIELD BLANK	--	FIELD BLANK #1	4/29/1998	1520	X	/ /1998	AOI3-1	standard TAT requested		X
EQ. RINSATE	--	RINSATE #1	4/29/1998	1530	X	/ /1998	AOI3-1	standard TAT requested		X
SUBTOTAL SAMPLES COLLECTED:										

Full suite analyses includes VOCs, SVOCs, PCBs, TPH, and Title 22 metals.

BOE-C6-0110662

LABORATORY ANALYTICAL REPORT

ONSITE ENVIRONMENTAL LABORATORIES, INC.

Polychlorinated Biphenyls by Method 8080

Date sampled :	**4/30/98**	**Project Mgr:**	**Joann Ornelas**
Date received :	**5/1/98**	**Client :**	**Integrated Environmental Services**
Date analyzed :	**5/2/98 - 5/5/98**	**Project :**	**C6 Facility Parcel B**
Report # :	**98027a.rpt**	**Units :**	**ug/Kg**
Lab. ID # :	**98027**	**Matrix :**	**Soil**

Field ID Number		1	2	3	4	5	6
Lab ID Number		AOI3-CB15-S1	AOI3-CB14-S1	AOI3-CB13-S1	AOI3-CB12-S1	AOI3-CB11-S1	AOI3-CB10-S1
Target Compounds	RL						
Aroclor 1016	20	ND	ND	ND	ND	ND	ND
Aroclor 1221	20	ND	ND	ND	ND	ND	ND
Aroclor 1232	20	ND	ND	ND	ND	ND	ND
Aroclor 1242	20	ND	ND	ND	ND	ND	ND
Aroclor 1248	20	ND	ND	ND	ND	ND	ND
Aroclor 1254	20	ND	ND	ND	ND	ND	ND
Aroclor 1260	20	ND	ND	ND	ND	ND	ND
Surrogate		89%	45%	45%	50%	46%	48%
Dilution factor (DF)		1	1	1	1	1	1

Notes :

ND - Analytes not detected at, or above the stated detection limit
RL - Reporting limit
DF - Dilution Factor
PQL - Practical Quantitation Limit - Multiply RL by the DF to obtain the PQL for a specific sample

LABORATORY ANALYTICAL REPORT

ONSITE ENVIRONMENTAL LABORATORIES, INC.

Polychlorinated Biphenyls by Method 8080

Date sampled :	**4/30/98**	**Project Mgr:**	**Joann Ornelas**
Date received :	**5/1/98**	**Client :**	**Integrated Environmental Services**
Date analyzed :	**5/2/98 - 5/7/98**	**Project :**	**C6 Facility Parcel B**
Report # :	**98027b.rpt**	**Units :**	**ug/Kg**
Lab. ID # :	**98027**	**Matrix :**	**Soil**

Field ID Number		7	8	9	10	11	12
Lab ID Number		AOI3-CB9-S1	AOI3-CB8-S1	AOI3-CB7-S1	AOI3-CB6-S1	AOI3-CB6-S1D	AOI3-CB5-S1
Target Compounds	RL						
Aroclor 1016	20	ND	ND	ND	ND	ND	ND
Aroclor 1221	20	ND	ND	ND	ND	ND	ND
Aroclor 1232	20	ND	ND	ND	ND	ND	ND
Aroclor 1242	20	ND	ND	ND	ND	ND	ND
Aroclor 1248	20	ND	ND	ND	ND	ND	ND
Aroclor 1254	20	ND	ND	ND	ND	ND	ND
Aroclor 1260	20	ND	ND	ND	ND	ND	ND
Surrogate		50%	44%	44%	92%	80%	86%
Dilution factor (DF)		1	1	1	1	1	1

Notes :

ND - Analytes not detected at, or above the stated detection limit
RL - Reporting limit
DF - Dilution Factor
PQL - Practical Quantitation Limit - Multiply RL by the DF to obtain the PQL for a specific sample

LABORATORY ANALYTICAL REPORT

ONSITE ENVIRONMENTAL LABORATORIES, INC.

Polychlorinated Biphenyls by Method 8080

Date sampled :	**4/30/98**	**Project Mgr:**	**Joann Ornelas**
Date received :	**5/1/98**	**Client :**	**Integrated Environmental Services**
Date analyzed :	**5/2/98 - 5/7/98**	**Project :**	**C6 Facility Parcel B**
Report # :	**98027c.rpt**	**Units :**	**ug/Kg**
Lab. ID # :	**98027**	**Matrix :**	**Soil**

Field ID Number		13	14	15	16	17	18
Lab ID Number		AOI3-CB4-S1	AOI3-CB3-S1	AOI3-CB2-S1	AOI3-CB1-S1	AOI3-CB16-S1	AOI2-CB3-S1
Target Compounds	RL						
Aroclor 1016	20	ND	ND	ND	ND	ND	ND
Aroclor 1221	20	ND	ND	ND	ND	ND	ND
Aroclor 1232	20	ND	ND	ND	ND	ND	ND
Aroclor 1242	20	ND	ND	ND	ND	ND	ND
Aroclor 1248	20	ND	ND	ND	ND	ND	ND
Aroclor 1254	20	ND	ND	ND	ND	ND	ND
Aroclor 1260	20	ND	ND	ND	ND	ND	ND
Surrogate		164%	92%	46%	45%	48%	55%
Dilution factor (DF)		1	1	1	1	20*	1

Notes :

ND - Analytes not detected at, or above the stated detection limit
RL - Reporting limit
DF - Dilution Factor
* - diluted due to matrix effect
PQL - Practical Quantitation Limit - Multiply RL by the DF to obtain the PQL for a specific sample

LABORATORY ANALYTICAL REPORT

ONSITE ENVIRONMENTAL LABORATORIES, INC.

Polychlorinated Biphenyls by Method 8080

Date sampled :	**4/30/98**	**Project Mgr:**	**Joann Ornelas**
Date received :	**5/1/98**	**Client :**	**Integrated Environmental Services**
Date analyzed :	**5/2/98 - 5/7/98**	**Project :**	**C6 Facility Parcel B**
Report # :	**98027d.rpt**	**Units :**	**ug/Kg**
Lab. ID # :	**98027**	**Matrix :**	**Soil**

Field ID Number		19	20	21			
Lab ID Number		AOI2-CB2-S1	AOI2-CB1-S1	AOI2-CB3-S1D			
Target Compounds	RL						
Aroclor 1016	20	ND	ND	ND			
Aroclor 1221	20	ND	ND	ND			
Aroclor 1232	20	ND	ND	ND			
Aroclor 1242	20	ND	ND	ND			
Aroclor 1248	20	ND	ND	ND			
Aroclor 1254	20	ND	ND	ND			
Aroclor 1260	20	ND	ND	ND			
Surrogate		18%	48%	51%			
Dilution factor (DF)		1	1	1			

Notes :

ND - Analytes not detected at, or above the stated detection limit
RL - Reporting limit
DF - Dilution Factor
PQL - Practical Quantitation Limit - Multiply RL by the DF to obtain the PQL for a specific sample

ONSITE
ENVIRONMENTAL
LABORATORIES, INC.

LABORATORY QC REPORT
EPA Method 8080 (PCB)

Date sampled :	4/30/98	Project Mgr :	Joann Ornelas
Date received :	5/1/98	Client :	Integrated Environmental Service
Date extracted :	5/2/98	Project :	C6 Facility Parcel B
Date analyzed :	5/2/98 - 5/5/98	Units :	ug/Kg
Report # :	98027a.qac	Matrix :	Soil
Lab. ID # :	98027		
Sample Spiked:	AOI3-CB4-S1		

		Method Blank	Spike Conc.	LCS % Rec.	MS % Rec.	MSD % Rec.	RPD
ANALYTE	RL						
Aroclor 1016	20	ND	125	82%	92%	100%	8%
Aroclor 1221	20	ND	-	-	-	-	-
Aroclor 1232	20	ND	-	-	-	-	-
Aroclor 1242	20	ND	-	-	-	-	-
Aroclor 1248	20	ND	-	-	-	-	-
Aroclor 1254	20	ND	-	-	-	-	-
Aroclor 1260	20	ND	125	91%	107%	116%	8%

Notes :
ND - Analytes not detected at, or above the stated detection limit
RL - Reporting limit

LABORATORY ANALYTICAL REPORT

ONSITE ENVIRONMENTAL LABORATORIES, INC.

EPA Method 8015M

Date sampled :	**4/30/98**	**Project Mgr:**	**Joann Ornelas**
Date received :	**5/1/98**	**Client :**	**Integrated Environmental Services**
Date analyzed :	**5/6/98 - 5/7/98**	**Project :**	**C6 Facility Parcel B**
Report # :	**98027e.rpt**	**Units :**	**mg/Kg**
Lab. ID # :	**98027**	**Matrix :**	**Soil**

Field ID Number **Lab ID Number**		4 AOI3-CB12-S1	17 AOI3-CB16-S1			
Target Compounds	RL					
TPH as Diesel	10	ND	860			
Surrogate		76%	75%			
Dilution factor (DF)		1	1			

Notes :

ND - Analytes not detected at, or above the stated detection limit
RL - Reporting limit
DF - Dilution Factor
PQL - Practical Quantitation Limit - Multiply RL by the DF to obtain the PQL for a specific sample

LABORATORY QA / QC REPORT
EPA Method 8015(m) Extractables

Date sampled :	4/30/98	**Project Mgr :**	**Joann Ornelas**
Date received :	4/30/98	**Client :**	**Boeing / Integrated Env. Serv.**
Date analyzed :	5/7/98	**Project :**	**C6 Facility, Parcel B**
Date reported :	5/8/98	**Units :**	**mg/Kg**
Report # :	980507DS.QAC	**Matrix :**	**Soil**

Field ID Number **Lab ID Number**		Method Blank	Spike Amount	LCS % Rec.	MS % Rec.	MSD % Rec.	RPD
Analyte	RL						
TPH as Diesel	10	ND	50	82%	114%	108%	5%
Surrogate % Recovery		79%		83%	81%	76%	
Dilution Factor		1		1	1	1	

Notes :

ND - Analytes not detected at, or above the stated detection limit
PQL - Practical Quantitation Limit - Multiply RL by the DF to obtain the PQL for a specific sample
RL - Reporting limit

LABORATORY ANALYTICAL REPORT

ONSITE ENVIRONMENTAL LABORATORIES, INC.

Total Recoverable Petroleum Hydrocarbons by EPA Method 418.1

Date sampled :	**4/30/98**	**Project Mgr:**	**Joann Ornelas**
Date received :	**5/1/98**	**Client :**	**Integrated Environmental Services**
Date analyzed :	**5/7/98 - 5/7/98**	**Project :**	**C6 Facility Parcel B**
Report # :	**98027f.rpt**	**Units :**	**mg/Kg**
Lab. ID # :	**98027**	**Matrix :**	**Soil**

Field ID Number **Lab ID Number**		4 AOI3-CB12-S1	17 AOI3-CB16-S1			
Target Compounds	RL					
TRPH	10	ND	4000			
Dilution factor (DF)		1	20			

Notes :

ND - Analytes not detected at, or above the stated detection limit
RL - Reporting limit
DF - Dilution Factor
PQL - Practical Quantitation Limit - Multiply RL by the DF to obtain the PQL for a specific sample

LABORATORY QA / QC REPORT
EPA Method 8015(m) Extractables

Date sampled :	4/30/98	**Project Mgr :**	Joann Ornelas
Date received :	4/30/98	**Client :**	Boeing / Integrated Env. Serv.
Date analyzed :	5/7/98	**Project :**	C6 Facility, Parcel B
Report # :	980507IR.QAC	**Units :**	mg/Kg
Sample ID::	AOI3-CB-12-S1	**Matrix :**	Soil

Field ID Number / **Lab ID Number**		Method Blank	Spike Amount	LCS % Rec.	MS % Rec.	MSD % Rec.	RPD
Analyte	RL						
TRPH	10	ND	47.2	103%	101%	103%	2%
Dilution Factor		1		1	1	1	

Notes :

ND - Analytes not detected at, or above the stated detection limit
PQL - Practical Quantitation Limit - Multiply RL by the DF to obtain the PQL for a specific sample
M - Matrix effect confirmed
RL - Reporting limit

LABORATORY ANALYTICAL REPORT

Volatile Organics by GC/MS EPA 8260

ONSITE ENVIRONMENTAL LABORATORIES, INC.

Date sampled :	4/30/98	**Project Mgr:**	Joann P. Ornelas
Date received :	5/1/98	**Client :**	Boeing / Integrated Environmental Serv.
Date analyzed :	5/5/98	**Project :**	C6 Facility, Parcel B
Date reported :	5/5/98	**Units :**	µg/Kg
Report # :	2E058.rpt	**Matrix :**	soil
Lab. ID # :	2E058		

Field ID Number Lab ID Number		A0I3-CB12-S1 2E058-01	A0I3-CB16-S1 2E058-02				
Target Compounds	RL						
Dichlorodifluoromethane	10.0	ND	ND				
Chloromethane	10.0	ND	ND				
Vinyl chloride	10.0	ND	ND				
Bromomethane	10.0	ND	ND				
Chloroethane	10.0	ND	ND				
Trichlorofluoromethane	10.0	ND	ND				
Freon 113	10.0	ND	ND				
1,1-Dichloroethene	10.0	ND	ND				
Carbon Disulfide	5.0	ND	ND				
Methylene chloride	10.0	ND	ND				
trans-1,2-Dichloroethene	5.0	ND	ND				
1,1-Dichloroethane	5.0	ND	ND				
cis-1,2-Dichloroethene	5.0	ND	ND				
2,2-Dichloropropane	5.0	ND	ND				
Bromochloromethane	5.0	ND	ND				
Chloroform	5.0	ND	ND				
1,1,1-Trichloroethane	5.0	ND	ND				
Carbon tetrachloride	5.0	ND	ND				
1,1-Dichloropropene	5.0	ND	ND				
Benzene	5.0	ND	ND				
1,2-Dichloroethane	5.0	ND	ND				
Trichloroethene	5.0	ND	ND				
1,2-Dichloropropane	5.0	ND	ND				
Dibromomethane	5.0	ND	ND				
Bromodichloromethane	5.0	ND	ND				
cis-1,3-Dichloropropene	5.0	ND	ND				
Toluene	5.0	ND	ND				
trans-1,3-Dichloropropene	5.0	ND	ND				
1,1,2-Trichloroethane	5.0	ND	ND				
Tetrachloroethene	5.0	ND	ND				
1,3-Dichloropropane	5.0	ND	ND				
Dibromochloromethane	5.0	ND	ND				

Field ID Number Lab ID Number		A0I3-CB12-S1 2E058-01	A0I3-CB16-S1 2E058-02				
Target Compounds	RL						
1,2-Dibromoethane	5.0	ND	ND				
Chlorobenzene	5.0	ND	ND				
1,1,1,2-Tetrachloroethane	5.0	ND	ND				
Ethyl Benzene	5.0	ND	ND				
m,p-Xylene	5.0	ND	ND				
o-Xylene	5.0	ND	ND				
Styrene	5.0	ND	ND				
Bromoform	5.0	ND	ND				
Isopropyl benzene	5.0	ND	ND				
Bromobenzene	5.0	ND	ND				
1,1,2,2-Tetrachloroethane	5.0	ND	ND				
1,2,3-Trichloropropane	5.0	ND	ND				
n-Propylbenzene	5.0	ND	**5.9**				
2-Chlorotoluene	5.0	ND	ND				
4-Chlorotoluene	5.0	ND	ND				
1,3,5-Trimethyl benzene	5.0	ND	**28**				
tert-Butyl benzene	5.0	ND	ND				
1,2,4-Trimethyl benzene	5.0	ND	ND				
sec-Butyl benzene	5.0	ND	**6.3**				
1,3-Dichlorobenzene	5.0	ND	ND				
4-Isopropyl toluene	5.0	ND	**9.9**				
1,4-Dichlorobenzene	5.0	ND	ND				
1,2-Dichlorobenzene	5.0	ND	ND				
n-Butyl benzene	5.0	ND	**20**				
1,2-Dibromo-3-chloropropane	5.0	ND	ND				
1,2,4-Trichlorobenzene	5.0	ND	ND				
Hexachlorobutadiene	5.0	ND	ND				
Naphthalene	5.0	ND	**25**				
1,2,3-Trichlorobenzene	5.0	ND	ND				
1,2-Dichloroethane-d4	surr.	101%	110%				
Toluene-d8		104%	102%				
4-Bromofluorobenzene		104%	104%				
Dilution factor (DF)		1	1				

Notes :

ND - Analytes not detected at, or above the stated detection limit
RL - Reporting limit
DF - Dilution Factor
PQL - Practical Quantitation Limit - Multiply RL by the DF to obtain the PQL for a specific sample

LABORATORY QC REPORT

Volatile Organics by GC/MS

ONSITE ENVIRONMENTAL LABORATORIES, INC.

Date analyzed : 5/5/98
Date reported : 5/5/98
Report # : 2E0505.qac

Lab ID Number			M.Blank	M.Blank	LCS		
			water	soil	Spike level	Concentration	% Recovery
Target Compounds	RL s	RL w	µg/L	µg/Kg	µg/L	µg/L	
Dichlorodifluoromethane	10.0	1.0	ND	ND	12.5	9.82	79%
Chloromethane	10.0	1.0	ND	ND	12.5	12.73	102%
Vinyl chloride	10.0	1.0	ND	ND	12.5	12.92	103%
Bromomethane	10.0	1.0	ND	ND	12.5	12.67	101%
Chloroethane	10.0	1.0	ND	ND	12.5	11.95	96%
Trichlorofluoromethane	10.0	1.0	ND	ND	12.5	11.91	95%
Freon 113	10.0	1.0	ND	ND			
Acetone	25.0	5.0	ND	ND	12.5	13.23	106%
Methyl t-butyl ether	10.0	1.0	ND	ND			
1,1-Dichloroethene	5.0	0.5	ND	ND	12.5	11.35	91%
Carbon disulfide	5.0	0.5	ND	ND	12.5	11.82	95%
Methylene chloride	10.0	1.0	ND	ND	12.5	11.82	95%
trans-1,2-Dichloroethene	5.0	0.5	ND	ND	12.5	11.49	92%
Vinyl acetate	25.0	5.0	ND	ND	12.5	11.53	92%
1,1-Dichloroethane	5.0	0.5	ND	ND	12.5	12.68	101%
2-Butanone	25.0	5.0	ND	ND	12.5	10.67	85%
cis-1,2-Dichloroethene	5.0	0.5	ND	ND	12.5	12.67	101%
2,2-Dichloropropane	5.0	0.5	ND	ND	12.5	12.31	98%
Bromochloromethane	5.0	0.5	ND	ND	12.5	11.82	95%
Chloroform	5.0	0.5	ND	ND	12.5	12.44	100%
1,1,1-Trichloroethane	5.0	0.5	ND	ND	12.5	12.72	102%
Carbon tetrachloride	5.0	0.5	ND	ND	12.5	12.84	103%
1,1-Dichloropropene	5.0	0.5	ND	ND	12.5	12.68	101%
Benzene	5.0	0.5	ND	ND	12.5	12.61	101%
1,2-Dichloroethane	5.0	0.5	ND	ND	12.5	12.92	103%
Trichloroethene	5.0	0.5	ND	ND	12.5	12.56	100%
1,2-Dichloropropane	5.0	0.5	ND	ND	12.5	12.86	103%
Dibromomethane	5.0	0.5	ND	ND	12.5	11.78	94%
Bromodichloromethane	5.0	0.5	ND	ND	12.5	12.32	99%
2-Chloroethyl vinyl ether	10.0	1.0	ND	ND	12.5	9.04	72%
cis-1,3-Dichloropropene	5.0	0.5	ND	ND	12.5	12.02	96%
4-Methyl-2-pentanone	5.0	0.5	ND	ND	12.5	9.36	75%
Toluene	5.0	0.5	ND	ND	12.5	12.56	100%
trans-1,3-Dichloropropene	5.0	0.5	ND	ND	12.5	11.66	93%
1,1,2-Trichloroethane	5.0	0.5	ND	ND	12.5	11.88	95%

Lab ID Number			M.Blank water	M.Blank soil	LCS		
					Spike level	Concentration	% Recovery
Target Compounds	RL s	RL w	µg/L	µg/Kg	µg/L	µg/L	
2-Hexanone	25.0	5.0	ND	ND	12.5	9.74	78%
Tetrachloroethene	5.0	0.5	ND	ND	12.5	12.19	98%
1,3-Dichloropropane	5.0	0.5	ND	ND	12.5	12.15	97%
Dibromochloromethane	5.0	0.5	ND	ND	12.5	12.18	97%
1,2-Dibromoethane	5.0	0.5	ND	ND	12.5	11.62	93%
Chlorobenzene	5.0	0.5	ND	ND	12.5	12.83	103%
1,1,1,2-Tetrachloroethane	5.0	0.5	ND	ND	12.5	12.79	102%
Ethyl Benzene	5.0	0.5	ND	ND	12.5	13.08	105%
m,p-Xylene	5.0	0.5	ND	ND	12.5	25.15	201%
o-Xylene	5.0	0.5	ND	ND	12.5	12.82	103%
Styrene	5.0	0.5	ND	ND	12.5	12.64	101%
Bromoform	5.0	0.5	ND	ND	12.5	11.14	89%
Isopropyl benzene	5.0	0.5	ND	ND	12.5	13.20	106%
Bromobenzene	5.0	0.5	ND	ND	12.5	12.57	101%
1,1,2,2-Tetrachloroethane	5.0	0.5	ND	ND	12.5	11.60	93%
1,2,3-Trichloropropane	5.0	0.5	ND	ND	12.5	11.98	96%
n-Propylbenzene	5.0	0.5	ND	ND	12.5	13.53	108%
2-Chlorotoluene	5.0	0.5	ND	ND	12.5	13.47	108%
4-Chlorotoluene	5.0	0.5	ND	ND	12.5	13.17	105%
1,3,5-Trimethyl benzene	5.0	0.5	ND	ND	12.5	13.73	110%
tert-Butyl benzene	5.0	0.5	ND	ND	12.5	13.58	109%
1,2,4-Trimethyl benzene	5.0	0.5	ND	ND	12.5	13.43	107%
sec-Butyl benzene	5.0	0.5	ND	ND	12.5	13.14	105%
1,3-Dichlorobenzene	5.0	0.5	ND	ND	12.5	12.58	101%
4-Isopropyl toluene	5.0	0.5	ND	ND	12.5	13.10	105%
1,4-Dichlorobenzene	5.0	0.5	ND	ND	12.5	12.67	101%
1,2-Dichlorobenzene	5.0	0.5	ND	ND	12.5	12.25	98%
n-Butyl benzene	5.0	0.5	ND	ND	12.5	13.53	108%
1,2-Dibromo-3-chloropropane	5.0	0.5	ND	ND	12.5	11.91	95%
1,2,4-Trichlorobenzene	5.0	0.5	ND	ND	12.5	12.06	96%
Hexachlorobutadiene	5.0	0.5	ND	ND	12.5	12.94	104%
Naphthalene	5.0	0.5	ND	ND	12.5	11.68	93%
1,2,3-Trichlorobenzene	5.0	0.5	ND	ND	12.5	12.31	98%
TPH as gasoline	500	50	ND	ND	500	460	92%
Surrogates :	QC Limits						
1,2-Dichloroethane-d4	59% - 137%		105%	103%		112%	
Toluene-d8	83% - 115%		105%	103%		105%	
4-Bromofluorobenzene	83% - 119%		103%	105%		103%	
Dilution factor (DF)			1	1		1	

Notes :

ND - Analytes not detected at, or above the stated detection limit

RL - Reporting limit

DF - Dilution Factor

PQL - Practical Quantitation Limit - Multiply RL by the DF to obtain the PQL for a specific sample

LABORATORY QC REPORT
Volatiles by GC/MS

ONSITE ENVIRONMENTAL LABORATORIES, INC.

Date analyzed : 5/5/98
Date reported : 5/6/98
Report # : 2E0505.qac

Units : µg/Kg
Matrix : soil

Lab ID Number	2E060-01	Spike level	2E060-01 MS		2E060-01 MSD		RPD
			Conc.	% Recov.	Conc.	% Recov.	%
Target Compounds							
1,1-Dichloroethene	ND	100	99.08	99%	100.41	100%	1.3%
Benzene	ND	100	99.70	100%	97.65	98%	2.1%
Trichloroethene	ND	100	105.18	105%	104.11	104%	1.0%
Toluene	ND	100	83.44	83%	83.02	83%	0.5%
Chlorobenzene	ND	100	104.14	104%	105.26	105%	1.1%
1,2-Dichloroethane-d4	116%		113%		113%		
Toluene-d8	103%		85%		83%		
4-Bromofluorobenzene	105%		136%		135%		
Dilution factor (DF)	1		1		1		

Notes :

ND - Analytes not detected at, or above the stated detection limit
RL - Reporting limit
DF - Dilution Factor
PQL - Practical Quantitation Limit - Multiply RL by the DF to obtain the PQL for a specific sample

CHAIN OF CUSTODY REC(D AND ANALYSIS REQUEST

COC No. AOI 2 Pg 1 of 2

5500 Boscell Common Fremont, CA 94538 Tel. (510) 490-8571 Fax. (510) 490-8572

ONSITE
ENVIRONMENTAL LABORATORIES, INC.
[redacted]

Project Manager:	JOANN P. ORNELAS
Client Name:	BOEING / INTEGRATED ENV. SERV.
Address:	3990 WESTERLY PL., STE. 210
City, State ZIP	NEWPORT BEACH, CA. 92660
Phone:	(714) 852-9050
Fax:	(714) 852-9011

Bill to:	BOEING C/O TEST
Company:	" " "
Address:	SAME
City, State ZIP	
Phone:	
Fax:	

Date:	4-30-98
Page:	1 of 2
Laboratory:	ONSITE
Lab Number:	98027

Project Name:	C6 FACILITY PARCEL B
Project Number:	

P.O. No.:	

Analysis Requested

Sample Identification	Date Sampled	Time Sampled	Matrix	Sampled & Relinquished By:	Time Relinquished:	Received By:	Lab ID	BTEX (8021)	TPH - ~~Gas (8015M)~~ 418.1	TPH - Diesel (8015M)	PCB's (8080)	VOC (8260)	SVOC (8270)	TITLE 22 METALS		No. Containers	RUSH ANALYSIS 24-48 HR. TAT ANALYZE IN SEQUENTIAL ORDER BEGINNING WITH C6 FAX RESULTS Remarks
AOI3-CB15-S1	4-30-98	0920	SOIL		1320						X					1	
-CB14-S1		0920									X					1	
-CB13-S1		0923									X					1	
-CB12-S1		0927							X	X	X	X	X	X		2	48 hr TAT
-CB11-S1		0935									X					1	
-CB10-S1		0940									X					1	
-CB9-S1		0948									X					1	
-CB8-S1		1027									X					1	
-CB7-S1		1034									X					1	
-CB6-S1		1035									X					1	[illegible]
-CB6-S1D		1035									X					1	
-CB5-S1		1050									X					1	
-CB4-S1		1050									X					1	
-CB3-S1		1145									X					1	

Initials:	Printed Name:	Signature:		
JO	Joann P. Ornelas	[signature]	Date:	
			Start Time:	
			Stop Time:	
			Hours:	
			Client Sign-off:	

Total Containers:	15
Received Intact:	/
Received Cold:	/ 4°C
Custody Seals:	NA

White Copy - Admin/Lab Yellow - Mobile Lab Pink - Client

BOE-C6-0110677

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

COC No. A013 Pg. 2 OF 2

ONSITE
ENVIRONMENTAL LABORATORIES, INC.
[redacted]

5500 Boscell Common Fremont, CA 94538 Tel. (510) 490-8571 Fax. (510) 490-8572

Project Manager:	JOANN P. ORNELAS
Client Name:	BOEING / INTEGRATED ENV. SERV.
Address:	3990 WESTERLY PL., STE. 210
City, State ZIP	NEWPORT BEACH, CA. 92660
Phone:	(714) 852-9050
Fax:	(714) 852-9081

Bill to:	BOEING C/O IESI
Company:	" " "
Address:	SAME
City, State ZIP	
Phone:	
Fax:	

Date:	4-30-98
Page:	2 of 2
Laboratory:	ONSITE
Lab Number:	98027

Project Name:	C6 FACILITY PARCEL B
Project Number:	

P.O. No.:	

Analysis Requested

Sample Identification	Date Sampled	Time Sampled	Matrix	Sampled & Relinquished By:	Time Relinquished:	Received By:	Lab ID	BTEX (8021)	TPH - ~~Gas (8015M)~~ 418.1	TPH - Diesel (8015M)	PCB's (8080)	VOC (8260)	SVOC (8270)	TITLE 22 METALS		No. Containers	Remarks
A013-CB2-S1	4-30-98	~~4-30-98~~ 1148	SOIL		1320						X					1	
A013-CB1-S1	4-30-98	~~4-30-98~~ 1150	SOIL								X					1	
A013-CB16-S1	4-30-98	1310	SOIL						X	X	X	X	X	X		2	RUSH ANALYSIS 24-48 HR. TAT ANALYZE IN SEQUENTIAL ORDER BEGINNING WITH CB, FAX RESULTS ~~24~~ 48 hr TAT

Initials:	Printed Name:	Signature:		
JB	Dan Yoder	[signature]	Date:	
			Start Time:	
			Stop Time:	
			Hours:	
			Client Sign-off:	

Total Containers:	3
Received Intact:	✓
Received Cold:	✓ a.c.
Custody Seals:	N/A

White Copy - Admin/Lab Yellow - Mobile Lab Pink - Client

BOE-C6-0110678

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

COC No. I2-1

ONSITE
ENVIRONMENTAL LABORATORIES, INC.
[redacted]

5500 Boscell Common Fremont, CA 94538 Tel. (510) 490-8571 Fax. (510) 490-8572

Project Manager:	JOANN P. ORNELAS
Client Name:	BOEING / INTEGRATED ENV. SERV.
Address:	3990 WESTERLY PL., STE. 210
City, State ZIP	NEWPORT BEACH, CA. 92660
Phone:	(714) 852-9050
Fax:	(714) 852-9011

Bill to:	BOEING C/O IESI
Company:	" " "
Address:	SAME
City, State ZIP	
Phone:	
Fax:	

Date:	4-30-98
Page:	1 of 1
Laboratory:	ON SITE
Lab Number:	98027

Project Name:	C6 FACILITY PARCEL B
Project Number:	

P.O. No.:	

Analysis Requested

Sample Identification	Date Sampled	Time Sampled	Matrix	Sampled & Relinquished By:	Time Relinquished:	Received By:	Lab ID	BTEX (8021)	TPH - Gas (8015M)	TPH - Diesel (8015M)	PCB's (8080)					No. Containers	Remarks
AOI2-CB3-S1	4-30-98	1210	SOIL	JPO	1320						X					1	RUSH ANALYSIS
AOI2-CB2-S1		1235									X					1	
~~AOI2-CB2-S1D~~											~~X~~					~~1~~	
AOI2-CB1-S1		1240									X					1	
AOI2-CB3-S1D		1230									X					1	
~~AOI3-CB6-S1~~		~~1250~~									~~X~~					~~1~~	

Initials:	Printed Name:	Signature:
JPO	JOANN P. ORNELAS	[signature]

Date:	
Start Time:	
Stop Time:	
Hours:	
Client Sign-off:	

Total Containers:	4
Received Intact:	/
Received Cold:	/ 4°C
Custody Seals:	NA

White Copy - Admin/Lab Yellow - Mobile Lab Pink - Client

BOE-C6-0110679

ONSITE
ENVIRONMENTAL
LABORATORIES, INC.

May 13, 1998

Mr. Jeff Loving
Integrated Environmental Services
3990 Westerly Pl., Suite 210
Newport Beach, CA 92660

Project Name: **C6 Facility, Parcel B**
Lab ID #: **98027**

Attached are the laboratory analytical reports for the samples collected on April 30, 1998 and received by Onsite Environmental Laboratories on May 1, 1998. Two soil samples requiring semivolatile organics and trace metals analyses were subcontracted to Clayton Laboratory Services. Also enclosed is a copy of the completed chain-of-custody records. All unused samples will be discarded after June 1, 1998 unless instructed otherwise.

If you have any questions regarding these reports, please contact us at (510) 490-8571.

Sincerely,

Peter Balas
Vice President
Onsite Environmental Services

5500 Boscell Common
Fremont, CA 94538
(510) 490-8571

San Francisco Regional Office

1252 Quarry Lane
P.O. Box 9019
Pleasanton, CA 94566
(510) 426-2600
Fax (510) 426-0106

Clayton
LABORATORY
SERVICES

May 6, 1998

Mr. Peter Bales
ONSITE ENVIRONMENTAL LABORATORIES, INC.
5500 Boscell Common
Fremont, CA 94538

Client Ref.: SOCAL
Clayton Project No.: 98050.14

Dear Mr. Bales:

Attached is our analytical laboratory report for the samples received on May 1, 1998. Also enclosed is a copy of the Chain-of-Custody record acknowledging receipt of these samples.

Please note that any unused portion of the samples will be discarded after June 5, 1998, unless you have requested otherwise.

We appreciate the opportunity to assist you. If you have any questions concerning this report, please contact Client Services at (510) 426-2657.

Sincerely,

Patricia Flynn
Client Services Representative
San Francisco Regional Office

PVF/pvf

Attachments

Analytical Results
for
Onsite Environmental^ Laboratories, Inc.
Client Reference: SOCAL
Clayton Project No. 98050.14

Sample Identification:	AOI3-CB16-S1	Date Sampled:	04/30/98
Lab Number:	9805014-01A	Date Received:	05/01/98
Sample Matrix/Media:	SOIL	Date Extracted:	05/01/98
Extraction Method:	EPA 3550	Date Analyzed:	05/05/98
Method Reference:	EPA 8270B	Analyst:	ASC

Analyte	CAS #	Concentration (mg/kg)	Method Detection Limit (mg/kg)
Acid Extractables			
4-Chloro-3-methylphenol	59-50-7	ND	0.5
2-Chlorophenol	95-57-8	ND	0.5
2,4-Dichlorophenol	120-83-2	ND	0.5
2,4-Dimethylphenol	105-67-9	ND	0.5
2,4-Dinitrophenol	51-28-5	ND	3
2-Methyl-4,6-dinitrophenol	534-52-1	ND	3
2-Methylphenol	95-48-7	ND	0.5
4-Methylphenol	106-44-5	ND	0.5
2-Nitrophenol	88-75-5	ND	0.5
4-Nitrophenol	100-02-7	ND	3
Pentachlorophenol	87-86-5	ND	3
Phenol	108-95-2	ND	0.5
2,4,5-Trichlorophenol	95-95-4	ND	0.5
2,4,6-Trichlorophenol	88-06-2	ND	0.5
Base/Neutral Extractables			
Acenaphthene	83-32-9	ND	0.5
Acenaphthylene	208-96-8	ND	0.5
Anthracene	120-12-7	ND	0.5
Benzidine	92-87-5	ND	10
Benzoic acid	65-85-0	ND	2
Benzo(a)anthracene	56-55-3	ND	0.5
Benzo(b)fluoranthene	205-99-2	ND	0.5
Benzo(k)fluoranthene	207-08-9	ND	0.5
Benzo(ghi)perylene	191-24-2	ND	0.5
Benzo(a)pyrene	50-32-8	ND	0.5
Benzyl alcohol	100-51-6	ND	1
Benzyl butyl phthalate	85-68-7	ND	0.5
Bis(2-chloroethoxy)methane	111-91-1	ND	0.5

Analytical Results
for
Onsite Environmental^ Laboratories, Inc.
Client Reference: SOCAL
Clayton Project No. 98050.14

Sample Identification:	AOI3-CB16-S1	Date Sampled:	04/30/98
Lab Number:	9805014-01A	Date Received:	05/01/98
Sample Matrix/Media:	SOIL	Date Extracted:	05/01/98
Extraction Method:	EPA 3550	Date Analyzed:	05/05/98
Method Reference:	EPA 8270B	Analyst:	ASC

Analyte	CAS #	Concentration (mg/kg)	Method Detection Limit (mg/kg)
Base/Neutral Extractables (Continued)			
Bis(2-chloroethyl)ether	111-44-4	ND	0.5
Bis(2-chloroisopropyl)ether	108-60-1	ND	0.5
Bis(2-ethylhexyl)phthalate	117-81-7	33	5
4-Bromophenyl phenyl ether	101-55-3	ND	0.5
4-Chloroaniline	106-47-8	ND	3
2-Chloronaphthalene	91-58-7	ND	0.5
4-Chlorophenyl phenyl ether	7005-72-3	ND	0.5
Chrysene	218-01-9	ND	0.5
Dibenzo(a,h)anthracene	53-70-3	ND	0.5
Dibenzofuran	132-64-9	ND	0.5
Di-n-butylphthalate	84-74-2	ND	0.5
1,2-Dichlorobenzene	95-50-1	ND	0.5
1,3-Dichlorobenzene	541-73-1	ND	0.5
1,4-Dichlorobenzene	106-46-7	ND	0.5
3,3'-Dichlorobenzidine	91-94-1	ND	10
Diethylphthalate	84-66-2	ND	0.5
Dimethylphthalate	131-11-3	ND	0.5
2,4-Dinitrotoluene	121-14-2	ND	0.5
2,6-Dinitrotoluene	606-20-2	ND	0.5
Di-n-octylphthalate	117-84-0	0.9	0.5
Fluoranthene	206-44-0	ND	0.5
Fluorene	86-73-7	ND	0.5
Hexachlorobenzene	118-74-1	ND	0.5
Hexachlorobutadiene	87-68-3	ND	0.5
Hexachlorocyclopentadiene	77-47-4	ND	5
Hexachloroethane	67-72-1	ND	0.5
Indeno(1,2,3-cd)pyrene	193-39-5	ND	0.5
Isophorone	78-59-1	ND	0.5
2-Methyl naphthalene	91-57-6	ND	0.5
Naphthalene	91-20-3	ND	0.5

Analytical Results
for
Onsite Environmental^ Laboratories, Inc.
Client Reference: SOCAL
Clayton Project No. 98050.14

Sample Identification:	AOI3-CB16-S1	Date Sampled:	04/30/98
Lab Number:	9805014-01A	Date Received:	05/01/98
Sample Matrix/Media:	SOIL	Date Extracted:	05/01/98
Extraction Method:	EPA 3550	Date Analyzed:	05/05/98
Method Reference:	EPA 8270B	Analyst:	ASC

Analyte	CAS #	Concentration (mg/kg)	Method Detection Limit (mg/kg)
Base/Neutral Extractables (Continued)			
2-Nitroaniline	88-74-4	ND	3
3-Nitroaniline	99-09-2	ND	3
4-Nitroaniline	100-01-6	ND	3
Nitrobenzene	98-95-3	ND	0.5
N-Nitrosodiphenylamine	86-30-6	ND	0.5
N-Nitrosodi-n-propylamine	621-64-7	ND	0.5
Phenanthrene	85-01-8	ND	0.5
Pyrene	129-00-0	ND	0.5
1,2,4-Trichlorobenzene	120-82-1	ND	0.5
Surrogates		Recovery (%)	QC Limits (%)
2-Fluorobiphenyl	321-60-8	107	30 - 115
2-Fluorophenol	367-12-4	78	25 - 121
Nitrobenzene-d5	4165-60-0	80	23 - 120
Phenol-d5	13127-88-3	97	24 - 113
Terphenyl-d14	98904-43-9	121	18 - 137
2,4,6-Tribromophenol	118-79-6	100	19 - 122

ND: Not detected at or above limit of detection
--: Information not available or not applicable

Results are reported on a wet-weight basis, as received.
Note: Detection limits increased due to matrix interference.

Analytical Results
for
Onsite Environmental^ Laboratories, Inc.
Client Reference: SOCAL
Clayton Project No. 98050.14

Sample Identification:	AOI3-CB12-S1	Date Sampled:	04/30/98
Lab Number:	9805014-02A	Date Received:	05/01/98
Sample Matrix/Media:	SOIL	Date Extracted:	05/01/98
Extraction Method:	EPA 3550	Date Analyzed:	05/05/98
Method Reference:	EPA 8270B	Analyst:	ASC

Analyte	CAS #	Concentration (mg/kg)	Method Detection Limit (mg/kg)
Acid Extractables			
4-Chloro-3-methylphenol	59-50-7	ND	0.1
2-Chlorophenol	95-57-8	ND	0.1
2,4-Dichlorophenol	120-83-2	ND	0.1
2,4-Dimethylphenol	105-67-9	ND	0.1
2,4-Dinitrophenol	51-28-5	ND	0.5
2-Methyl-4,6-dinitrophenol	534-52-1	ND	0.5
2-Methylphenol	95-48-7	ND	0.1
4-Methylphenol	106-44-5	ND	0.1
2-Nitrophenol	88-75-5	ND	0.1
4-Nitrophenol	100-02-7	ND	0.5
Pentachlorophenol	87-86-5	ND	0.5
Phenol	108-95-2	ND	0.1
2,4,5-Trichlorophenol	95-95-4	ND	0.1
2,4,6-Trichlorophenol	88-06-2	ND	0.1
Base/Neutral Extractables			
Acenaphthene	83-32-9	ND	0.1
Acenaphthylene	208-96-8	ND	0.1
Anthracene	120-12-7	ND	0.1
Benzidine	92-87-5	ND	3
Benzoic acid	65-85-0	ND	0.4
Benzo(a)anthracene	56-55-3	ND	0.1
Benzo(b)fluoranthene	205-99-2	ND	0.1
Benzo(k)fluoranthene	207-08-9	ND	0.1
Benzo(ghi)perylene	191-24-2	ND	0.1
Benzo(a)pyrene	50-32-8	ND	0.1
Benzyl alcohol	100-51-6	ND	0.2
Benzyl butyl phthalate	85-68-7	ND	0.1
Bis(2-chloroethoxy)methane	111-91-1	ND	0.1

Analytical Results
for
Onsite Environmental^ Laboratories, Inc.
Client Reference: SOCAL
Clayton Project No. 98050.14

Sample Identification:	AOI3-CB12-S1	Date Sampled:	04/30/98
Lab Number:	9805014-02A	Date Received:	05/01/98
Sample Matrix/Media:	SOIL	Date Extracted:	05/01/98
Extraction Method:	EPA 3550	Date Analyzed:	05/05/98
Method Reference:	EPA 8270B	Analyst:	ASC

Analyte	CAS #	Concentration (mg/kg)	Method Detection Limit (mg/kg)
Base/Neutral Extractables (Continued)			
Bis(2-chloroethyl)ether	111-44-4	ND	0.1
Bis(2-chloroisopropyl)ether	108-60-1	ND	0.1
Bis(2-ethylhexyl)phthalate	117-81-7	ND	1
4-Bromophenyl phenyl ether	101-55-3	ND	0.1
4-Chloroaniline	106-47-8	ND	0.5
2-Chloronaphthalene	91-58-7	ND	0.1
4-Chlorophenyl phenyl ether	7005-72-3	ND	0.1
Chrysene	218-01-9	ND	0.1
Dibenzo(a,h)anthracene	53-70-3	ND	0.1
Dibenzofuran	132-64-9	ND	0.1
Di-n-butylphthalate	84-74-2	ND	0.1
1,2-Dichlorobenzene	95-50-1	ND	0.1
1,3-Dichlorobenzene	541-73-1	ND	0.1
1,4-Dichlorobenzene	106-46-7	ND	0.1
3,3'-Dichlorobenzidine	91-94-1	ND	3
Diethylphthalate	84-66-2	ND	0.1
Dimethylphthalate	131-11-3	ND	0.1
2,4-Dinitrotoluene	121-14-2	ND	0.1
2,6-Dinitrotoluene	606-20-2	ND	0.1
Di-n-octylphthalate	117-84-0	ND	0.1
Fluoranthene	206-44-0	ND	0.1
Fluorene	86-73-7	ND	0.1
Hexachlorobenzene	118-74-1	ND	0.1
Hexachlorobutadiene	87-68-3	ND	0.1
Hexachlorocyclopentadiene	77-47-4	ND	1
Hexachloroethane	67-72-1	ND	0.1
Indeno(1,2,3-cd)pyrene	193-39-5	ND	0.1
Isophorone	78-59-1	ND	0.1
2-Methyl naphthalene	91-57-6	ND	0.1
Naphthalene	91-20-3	ND	0.1

Analytical Results
for
Onsite Environmental^ Laboratories, Inc.
Client Reference: SOCAL
Clayton Project No. 98050.14

Sample Identification:	AOI3-CB12-S1	Date Sampled:	04/30/98
Lab Number:	9805014-02A	Date Received:	05/01/98
Sample Matrix/Media:	SOIL	Date Extracted:	05/01/98
Extraction Method:	EPA 3550	Date Analyzed:	05/05/98
Method Reference:	EPA 8270B	Analyst:	ASC

Analyte	CAS #	Concentration (mg/kg)	Method Detection Limit (mg/kg)
Base/Neutral Extractables (Continued)			
2-Nitroaniline	88-74-4	ND	0.5
3-Nitroaniline	99-09-2	ND	0.5
4-Nitroaniline	100-01-6	ND	0.5
Nitrobenzene	98-95-3	ND	0.1
N-Nitrosodiphenylamine	86-30-6	ND	0.1
N-Nitrosodi-n-propylamine	621-64-7	ND	0.1
Phenanthrene	85-01-8	ND	0.1
Pyrene	129-00-0	ND	0.1
1,2,4-Trichlorobenzene	120-82-1	ND	0.1
Surrogates		Recovery (%)	QC Limits (%)
2-Fluorobiphenyl	321-60-8	84	30 - 115
2-Fluorophenol	367-12-4	72	25 - 121
Nitrobenzene-d5	4165-60-0	74	23 - 120
Phenol-d5	13127-88-3	83	24 - 113
Terphenyl-d14	98904-43-9	94	18 - 137
2,4,6-Tribromophenol	118-79-6	85	19 - 122

ND: Not detected at or above limit of detection
--: Information not available or not applicable

Results are reported on a wet-weight basis, as received.

Analytical Results
for
Onsite Environmental^ Laboratories, Inc.
Client Reference: SOCAL
Clayton Project No. 98050.14

Sample Identification:	METHOD BLANK	Date Sampled:	--
Lab Number:	9805014-03A	Date Received:	--
Sample Matrix/Media:	SOIL	Date Extracted:	05/01/98
Extraction Method:	EPA 3550	Date Analyzed:	05/04/98
Method Reference:	EPA 8270B	Analyst:	ASC

Analyte	CAS #	Concentration (mg/kg)	Method Detection Limit (mg/kg)
Acid Extractables			
4-Chloro-3-methylphenol	59-50-7	ND	0.1
2-Chlorophenol	95-57-8	ND	0.1
2,4-Dichlorophenol	120-83-2	ND	0.1
2,4-Dimethylphenol	105-67-9	ND	0.1
2,4-Dinitrophenol	51-28-5	ND	0.5
2-Methyl-4,6-dinitrophenol	534-52-1	ND	0.5
2-Methylphenol	95-48-7	ND	0.1
4-Methylphenol	106-44-5	ND	0.1
2-Nitrophenol	88-75-5	ND	0.1
4-Nitrophenol	100-02-7	ND	0.5
Pentachlorophenol	87-86-5	ND	0.5
Phenol	108-95-2	ND	0.1
2,4,5-Trichlorophenol	95-95-4	ND	0.1
2,4,6-Trichlorophenol	88-06-2	ND	0.1
Base/Neutral Extractables			
Acenaphthene	83-32-9	ND	0.1
Acenaphthylene	208-96-8	ND	0.1
Anthracene	120-12-7	ND	0.1
Benzidine	92-87-5	ND	3
Benzoic acid	65-85-0	ND	0.4
Benzo(a)anthracene	56-55-3	ND	0.1
Benzo(b)fluoranthene	205-99-2	ND	0.1
Benzo(k)fluoranthene	207-08-9	ND	0.1
Benzo(ghi)perylene	191-24-2	ND	0.1
Benzo(a)pyrene	50-32-8	ND	0.1
Benzyl alcohol	100-51-6	ND	0.2
Benzyl butyl phthalate	85-68-7	ND	0.1
Bis(2-chloroethoxy)methane	111-91-1	ND	0.1

Analytical Results
for
Onsite Environmental^ Laboratories, Inc.
Client Reference: SOCAL
Clayton Project No. 98050.14

Sample Identification:	METHOD BLANK	Date Sampled:	--
Lab Number:	9805014-03A	Date Received:	--
Sample Matrix/Media:	SOIL	Date Extracted:	05/01/98
Extraction Method:	EPA 3550	Date Analyzed:	05/04/98
Method Reference:	EPA 8270B	Analyst:	ASC

Analyte	CAS #	Concentration (mg/kg)	Method Detection Limit (mg/kg)
Base/Neutral Extractables (Continued)			
Bis(2-chloroethyl)ether	111-44-4	ND	0.1
Bis(2-chloroisopropyl)ether	108-60-1	ND	0.1
Bis(2-ethylhexyl)phthalate	117-81-7	ND	1
4-Bromophenyl phenyl ether	101-55-3	ND	0.1
4-Chloroaniline	106-47-8	ND	0.5
2-Chloronaphthalene	91-58-7	ND	0.1
4-Chlorophenyl phenyl ether	7005-72-3	ND	0.1
Chrysene	218-01-9	ND	0.1
Dibenzo(a,h)anthracene	53-70-3	ND	0.1
Dibenzofuran	132-64-9	ND	0.1
Di-n-butylphthalate	84-74-2	ND	0.1
1,2-Dichlorobenzene	95-50-1	ND	0.1
1,3-Dichlorobenzene	541-73-1	ND	0.1
1,4-Dichlorobenzene	106-46-7	ND	0.1
3,3'-Dichlorobenzidine	91-94-1	ND	3
Diethylphthalate	84-66-2	ND	0.1
Dimethylphthalate	131-11-3	ND	0.1
2,4-Dinitrotoluene	121-14-2	ND	0.1
2,6-Dinitrotoluene	606-20-2	ND	0.1
Di-n-octylphthalate	117-84-0	ND	0.1
Fluoranthene	206-44-0	ND	0.1
Fluorene	86-73-7	ND	0.1
Hexachlorobenzene	118-74-1	ND	0.1
Hexachlorobutadiene	87-68-3	ND	0.1
Hexachlorocyclopentadiene	77-47-4	ND	1
Hexachloroethane	67-72-1	ND	0.1
Indeno(1,2,3-cd)pyrene	193-39-5	ND	0.1
Isophorone	78-59-1	ND	0.1
2-Methyl naphthalene	91-57-6	ND	0.1
Naphthalene	91-20-3	ND	0.1

Analytical Results
for
Onsite Environmental^ Laboratories, Inc.
Client Reference: SOCAL
Clayton Project No. 98050.14

Sample Identification:	METHOD BLANK	Date Sampled:	--
Lab Number:	9805014-03A	Date Received:	--
Sample Matrix/Media:	SOIL	Date Extracted:	05/01/98
Extraction Method:	EPA 3550	Date Analyzed:	05/04/98
Method Reference:	EPA 8270B	Analyst:	ASC

Analyte	CAS #	Concentration (mg/kg)	Method Detection Limit (mg/kg)
Base/Neutral Extractables (Continued)			
2-Nitroaniline	88-74-4	ND	0.5
3-Nitroaniline	99-09-2	ND	0.5
4-Nitroaniline	100-01-6	ND	0.5
Nitrobenzene	98-95-3	ND	0.1
N-Nitrosodiphenylamine	86-30-6	ND	0.1
N-Nitrosodi-n-propylamine	621-64-7	ND	0.1
Phenanthrene	85-01-8	ND	0.1
Pyrene	129-00-0	ND	0.1
1,2,4-Trichlorobenzene	120-82-1	ND	0.1

Surrogates		Recovery (%)	QC Limits (%)
2-Fluorobiphenyl	321-60-8	82	30 - 115
2-Fluorophenol	367-12-4	66	25 - 121
Nitrobenzene-d5	4165-60-0	72	23 - 120
Phenol-d5	13127-88-3	79	24 - 113
Terphenyl-d14	98904-43-9	87	18 - 137
2,4,6-Tribromophenol	118-79-6	62	19 - 122

ND: Not detected at or above limit of detection
--: Information not available or not applicable

Results are reported on a wet-weight basis, as received.

Clayton
LABORATORY
SERVICES

Analytical Results
for
Onsite Environmental^ Laboratories, Inc.
Client Reference: SOCAL
Clayton Project No. 98050.14

Sample Identification: AOI3-CB16-S1
Lab Number: 9805014-01
Sample Matrix/Media: SOIL

Date Sampled: 04/30/98
Date Received: 05/01/98

Analyte	Concentration	Method Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Method Reference
Antimony	1	1	mg/kg	05/04/98	05/05/98	EPA 3050A	EPA 6010A
Arsenic	3	1	mg/kg	05/04/98	05/05/98	EPA 3050A	EPA 6010A
Barium	83	1	mg/kg	05/04/98	05/05/98	EPA 3050A	EPA 6010A
Beryllium	0.1	0.1	mg/kg	05/04/98	05/05/98	EPA 3050A	EPA 6010A
Cadmium	<0.4	0.4	mg/kg	05/04/98	05/05/98	EPA 3050A	EPA 6010A
Chromium	13	1	mg/kg	05/04/98	05/05/98	EPA 3050A	EPA 6010A
Cobalt	7	1	mg/kg	05/04/98	05/05/98	EPA 3050A	EPA 6010A
Copper	14	1	mg/kg	05/04/98	05/05/98	EPA 3050A	EPA 6010A
Lead	6	1	mg/kg	05/04/98	05/05/98	EPA 3050A	EPA 6010A
Mercury	<0.1	0.1	mg/kg	05/04/98	05/05/98	EPA 7471A	EPA 7471A
Molybdenum	<1	1	mg/kg	05/04/98	05/05/98	EPA 3050A	EPA 6010A
Nickel	12	1	mg/kg	05/04/98	05/05/98	EPA 3050A	EPA 6010A
Selenium	1	1	mg/kg	05/04/98	05/05/98	EPA 3050A	EPA 6010A
Silver	<0.5	0.5	mg/kg	05/04/98	05/05/98	EPA 3050A	EPA 6010A
Thallium	2	1	mg/kg	05/04/98	05/05/98	EPA 3050A	EPA 6010A
Vanadium	27	1	mg/kg	05/04/98	05/05/98	EPA 3050A	EPA 6010A
Zinc	54	1	mg/kg	05/04/98	05/05/98	EPA 3050A	EPA 6010A

ND: Not detected at or above limit of detection
--: Information not available or not applicable

Results are reported on a wet-weight basis, as received.

Analytical Results
for
Onsite Environmental^ Laboratories, Inc.
Client Reference: SOCAL
Clayton Project No. 98050.14

Sample Identification: AOI3-CB12-S1
Lab Number: 9805014-02
Sample Matrix/Media: SOIL

Date Sampled: 04/30/98
Date Received: 05/01/98

Analyte	Concentration	Method Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Method Reference
Antimony	<1	1	mg/kg	05/04/98	05/05/98	EPA 3050A	EPA 6010A
Arsenic	5	1	mg/kg	05/04/98	05/05/98	EPA 3050A	EPA 6010A
Barium	160	1	mg/kg	05/04/98	05/05/98	EPA 3050A	EPA 6010A
Beryllium	0.3	0.1	mg/kg	05/04/98	05/05/98	EPA 3050A	EPA 6010A
Cadmium	<0.4	0.4	mg/kg	05/04/98	05/05/98	EPA 3050A	EPA 6010A
Chromium	19	1	mg/kg	05/04/98	05/05/98	EPA 3050A	EPA 6010A
Cobalt	12	1	mg/kg	05/04/98	05/05/98	EPA 3050A	EPA 6010A
Copper	19	1	mg/kg	05/04/98	05/05/98	EPA 3050A	EPA 6010A
ead	13	1	mg/kg	05/04/98	05/05/98	EPA 3050A	EPA 6010A
ercury	<0.1	0.1	mg/kg	05/04/98	05/05/98	EPA 7471A	EPA 7471A
Molybdenum	<1	1	mg/kg	05/04/98	05/05/98	EPA 3050A	EPA 6010A
Nickel	16	1	mg/kg	05/04/98	05/05/98	EPA 3050A	EPA 6010A
Selenium	1	1	mg/kg	05/04/98	05/05/98	EPA 3050A	EPA 6010A
Silver	<0.5	0.5	mg/kg	05/04/98	05/05/98	EPA 3050A	EPA 6010A
Thallium	3	1	mg/kg	05/04/98	05/05/98	EPA 3050A	EPA 6010A
Vanadium	42	1	mg/kg	05/04/98	05/05/98	EPA 3050A	EPA 6010A
Zinc	47	1	mg/kg	05/04/98	05/05/98	EPA 3050A	EPA 6010A

ND: Not detected at or above limit of detection
--: Information not available or not applicable

Results are reported on a wet-weight basis, as received.

Analytical Results
for
Onsite Environmental Laboratories, Inc.
Client Reference: SOCAL
Clayton Project No. 98050.14

Sample Identification: METHOD BLANK
Lab Number: 9805014-03
Sample Matrix/Media: SOIL

Date Sampled: --
Date Received: --

Analyte	Concentration	Method Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Method Reference
Antimony	<1	1	mg/kg	05/04/98	05/05/98	EPA 3050A	EPA 6010A
Arsenic	<1	1	mg/kg	05/04/98	05/05/98	EPA 3050A	EPA 6010A
Barium	<1	1	mg/kg	05/04/98	05/05/98	EPA 3050A	EPA 6010A
Beryllium	<0.1	0.1	mg/kg	05/04/98	05/05/98	EPA 3050A	EPA 6010A
Cadmium	<0.4	0.4	mg/kg	05/04/98	05/05/98	EPA 3050A	EPA 6010A
Chromium	<1	1	mg/kg	05/04/98	05/05/98	EPA 3050A	EPA 6010A
Cobalt	<1	1	mg/kg	05/04/98	05/05/98	EPA 3050A	EPA 6010A
Copper	<1	1	mg/kg	05/04/98	05/05/98	EPA 3050A	EPA 6010A
Lead	<1	1	mg/kg	05/04/98	05/05/98	EPA 3050A	EPA 6010A
Mercury	<0.1	0.1	mg/kg	05/04/98	05/05/98	EPA 7471A	EPA 7471A
Molybdenum	<1	1	mg/kg	05/04/98	05/05/98	EPA 3050A	EPA 6010A
Nickel	<1	1	mg/kg	05/04/98	05/05/98	EPA 3050A	EPA 6010A
Selenium	<1	1	mg/kg	05/04/98	05/05/98	EPA 3050A	EPA 6010A
Silver	<0.5	0.5	mg/kg	05/04/98	05/05/98	EPA 3050A	EPA 6010A
Thallium	<1	1	mg/kg	05/04/98	05/05/98	EPA 3050A	EPA 6010A
Vanadium	<1	1	mg/kg	05/04/98	05/05/98	EPA 3050A	EPA 6010A
Zinc	<1	1	mg/kg	05/04/98	05/05/98	EPA 3050A	EPA 6010A

ND: Not detected at or above limit of detection
--: Information not available or not applicable

Results are reported on a wet-weight basis, as received.

Clayton LABORATORY SERVICES

KMC1

REQUEST FOR LABORATORY ANALYTICAL SERVICES

Page 1 of 1

IMPORTANT

Date Results Requested: 48hr turn

Rush Charges Authorized? ☒ Yes ☐ No

☐ Phone or ☒ Fax Results

For Clayton Use Only
Clayton Lab Project No.
9805014

REPORT RESULTS TO

Name: Onsite Env Labs
Company: Pete Bakes
Mailing Address: 5500 Boscell Common
City, State, Zip: Fremont CA 94538
Telephone No.: 510-490-8577
FAX No.: 8572
Client Job No.: SoCal
Dept.:

SEND INVOICE TO

Purchase Order No.:
Name:
Company:
Dept.:
Address:
City, State, Zip:

Special instructions and/or specific regulatory requirements:
(method, limit of detection, etc.)

* Explanation of Preservative

Samples are:
(check if applicable)
☐ Drinking Water
☐ Groundwater
☐ Wastewater

ANALYSIS REQUESTED
(Enter an 'X' in the box below to indicate request. Enter a 'P' if Preservative added.*)

CLIENT SAMPLE IDENTIFICATION	DATE SAMPLED	TIME SAMPLED	MATRIX/ MEDIA	AIR VOLUME (specify units)	Number of Containers	8270 SVOC	Title 22 Metals									FOR LAB USE ONLY
AOI 3-CB16-S1	4/30/98		Soil		1	X	X									-01A
AOI 3-CB12-S1	4/30/98		Soil		1	X	X									-02A

CHAIN OF CUSTODY

Collected by: (print)
Collector's Signature:
Relinquished by: Peter Bakes — Date/Time 5/1/98 4:16 pm
Received by: [signature] — Date/Time 5/1/98 4:19
Relinquished by:
Received by: — Date/Time
Method of Shipment:
Received at Lab by: — Date/Time
Authorized by: [signature] (Client Signature MUST Accompany Request) Date 5/1/98
Sample Condition Upon Receipt: ☐ Acceptable ☐ Other (explain)

Please return completed form and samples to one of the Clayton Group Services, Inc. labs listed below:

Detroit Regional Lab
22345 Roethel Drive
Novi, MI 48375
(800) 806-5887
(248) 344-1770
FAX (248) 344-2655

Atlanta Regional Lab
400 Chastain Center Blvd., N.W., Suite 490
Kennesaw, GA 30144
(800) 252-9919
(770) 499-7500
FAX (770) 423-4990

San Francisco Regional Lab
1252 Quarry Lane
Pleasanton, CA 94566
(800) 294-1755
(510) 426-2657
FAX (510) 426-0106

Seattle Regional Lab
4636 E. Marginal Way S., Suite 215
Seattle, WA 98134
(800) 568-7755
(206) 763-7364
FAX (206) 763-4189

DISTRIBUTION:
White = Clayton Laboratory
Yellow = Clayton Accounting
Pink = Client Copy

9/97 20K

BOE-C6-0110694

ONSITE
ENVIRONMENTAL
LABORATORIES, INC.

May 8, 1998

Mr. Jeff Loving
Integrated Environmental Services
3990 Westerly Pl., Suite 210
Newport Beach, CA 92660

Project Name: **C6 Facility, Parcel B**
Lab ID #: **98026**

Attached are the laboratory analytical reports for the samples collected on April 29, 1998 and received by Onsite Environmental Laboratories on April 30, 1998. Also enclosed is a copy of the completed chain-of-custody records. All unused samples will be discarded after May 30, 1998 unless instructed otherwise.

If you have any questions regarding these reports, please contact us at (510) 490-8571.

Sincerely,

Peter Balas
Vice President
Onsite Environmental Services

5500 Boscell Common
Fremont, CA 94538
(510) 490-8571

LABORATORY ANALYTICAL REPORT

ONSITE ENVIRONMENTAL LABORATORIES, INC.

Polychlorinated Biphenyls by Method 8080

Date sampled :	4/29/98	**Project Mgr:**	Joann Ornelas
Date received :	4/30/98	**Client :**	Integrated Environmental Services
Date analyzed :	5/1/98 & 5/2/98	**Project :**	C6 Facility Parcel B
Report # :	98026a.rpt	**Units :**	ug/Kg
Lab. ID # :	98026	**Matrix :**	Soil

Field ID Number Lab ID Number		1 AOI3-B1-S1	2 AOI3-B1-S2	3 AOI3-B1-S3	4 AOI3-B1-S4	5 AOI3-B1-S5	6 AOI3-B1-S6
Target Compounds	RL						
Aroclor 1016	20	ND	ND	ND	ND	ND	ND
Aroclor 1221	20	ND	ND	ND	ND	ND	ND
Aroclor 1232	20	ND	ND	ND	ND	ND	ND
Aroclor 1242	20	ND	ND	ND	ND	ND	ND
Aroclor 1248	20	ND	ND	ND	ND	ND	ND
Aroclor 1254	20	ND	ND	ND	ND	ND	ND
Aroclor 1260	20	ND	ND	ND	ND	ND	ND
Surrogate		98%	46%	38%	44%	93%	74%
Dilution factor (DF)		1	1	1	1	1	1

Notes :

ND - Analytes not detected at, or above the stated detection limit
RL - Reporting limit
DF - Dilution Factor
PQL - Practical Quantitation Limit - Multiply RL by the DF to obtain the PQL for a specific sample

LABORATORY ANALYTICAL REPORT

ONSITE ENVIRONMENTAL LABORATORIES, INC.

Polychlorinated Biphenyls by Method 8080

Date sampled :	4/29/98	**Project Mgr:**	Joann Ornelas
Date received :	4/30/98	**Client :**	Integrated Environmental Services
Date analyzed :	5/1/98 & 5/2/98	**Project :**	C6 Facility Parcel B
Report # :	98026b.rpt	**Units :**	ug/Kg
Lab. ID # :	98026	**Matrix :**	Soil

Field ID Number Lab ID Number		7 AOI3-B1-S6D	8 AOI3-B1-S7	9 AOI3-B1-S8	10 AOI3-B1-S9	11 AOI3-B1-S10	12 AOI3-B2-S1
Target Compounds	RL						
Aroclor 1016	20	ND	ND	ND	ND	ND	ND
Aroclor 1221	20	ND	ND	ND	ND	ND	ND
Aroclor 1232	20	ND	ND	ND	ND	ND	ND
Aroclor 1242	20	ND	ND	ND	ND	ND	ND
Aroclor 1248	20	ND	ND	ND	ND	ND	ND
Aroclor 1254	20	ND	ND	ND	ND	ND	ND
Aroclor 1260	20	ND	ND	ND	ND	ND	ND
Surrogate		63%	51%	49%	230%	74%	72%
Dilution factor (DF)		1	1	1	1	1	1

Notes :

ND - Analytes not detected at, or above the stated detection limit
RL - Reporting limit
DF - Dilution Factor
PQL - Practical Quantitation Limit - Multiply RL by the DF to obtain the PQL for a specific sample

LABORATORY ANALYTICAL REPORT

ONSITE ENVIRONMENTAL LABORATORIES, INC.

Polychlorinated Biphenyls by Method 8080

Date sampled :	4/29/98	Project Mgr:	Joann Ornelas
Date received :	4/30/98	Client :	Integrated Environmental Services
Date analyzed :	5/1/98 - 5/5/98	Project :	C6 Facility Parcel B
Report # :	98026c.rpt	Units :	ug/Kg
Lab. ID # :	98026	Matrix :	Soil

Field ID Number Lab ID Number		13 AOI3-B2-S2	14 AOI3-B2-S3	15 AOI3-B2-S4	16 AOI3-B2-S5	17 AOI3-B2-S6	18 AOI3-B2-S7
Target Compounds	RL						
Aroclor 1016	20	ND	ND	ND	ND	ND	ND
Aroclor 1221	20	ND	ND	ND	ND	ND	ND
Aroclor 1232	20	ND	ND	ND	ND	ND	ND
Aroclor 1242	20	ND	ND	ND	ND	ND	ND
Aroclor 1248	20	ND	ND	ND	ND	ND	ND
Aroclor 1254	20	ND	ND	ND	ND	ND	ND
Aroclor 1260	20	ND	ND	ND	ND	ND	ND
Surrogate		60%	84%	46%	247%	48%	39%
Dilution factor (DF)		1	1	1	1	1	1

Notes :

ND - Analytes not detected at, or above the stated detection limit
RL - Reporting limit
DF - Dilution Factor
PQL - Practical Quantitation Limit - Multiply RL by the DF to obtain the PQL for a specific sample

LABORATORY ANALYTICAL REPORT

ONSITE ENVIRONMENTAL LABORATORIES, INC.

Polychlorinated Biphenyls by Method 8080

Date sampled :	4/29/98	Project Mgr:	Joann Ornelas
Date received :	4/30/98	Client :	Integrated Environmental Services
Date analyzed :	5/1/98 & 5/4/98	Project :	C6 Facility Parcel B
Report # :	98026d.rpt	Units :	ug/Kg
Lab. ID # :	98026	Matrix :	Soil

Field ID Number Lab ID Number		19 AOI3-B2-S8	20 AOI3-B2-S9	21 AOI3-B2-S10			
Target Compounds	RL						
Aroclor 1016	20	ND	ND	ND			
Aroclor 1221	20	ND	ND	ND			
Aroclor 1232	20	ND	ND	ND			
Aroclor 1242	20	ND	ND	ND			
Aroclor 1248	20	ND	ND	ND			
Aroclor 1254	20	ND	ND	ND			
Aroclor 1260	20	ND	ND	ND			
Surrogate		46%	48%	112%			
Dilution factor (DF)		1	1	1			

Notes :

ND - Analytes not detected at, or above the stated detection limit
RL - Reporting limit
DF - Dilution Factor
PQL - Practical Quantitation Limit - Multiply RL by the DF to obtain the PQL for a specific sample

LABORATORY ANALYTICAL REPORT

ONSITE ENVIRONMENTAL LABORATORIES, INC.

Polychlorinated Biphenyls by Method 8080

Date sampled :	4/29/98	Project Mgr:	Joann Ornelas
Date received :	4/30/98	Client :	Integrated Environmental Services
Date analyzed :	5/7/98 & 5/8/98	Project :	C6 Facility Parcel B
Report # :	98026e.rpt	Units :	ug/L
Lab. ID # :	98026	Matrix :	Water

Field ID Number Lab ID Number		22 FB-1	23 EB-1				
Target Compounds	RL						
Aroclor 1016	1	ND	ND				
Aroclor 1221	1	ND	ND				
Aroclor 1232	1	ND	ND				
Aroclor 1242	1	ND	ND				
Aroclor 1248	1	ND	ND				
Aroclor 1254	1	ND	ND				
Aroclor 1260	1	ND	ND				
Surrogate		97%	107%				
Dilution factor (DF)		1	1				

Notes :

ND - Analytes not detected at, or above the stated detection limit
RL - Reporting limit
DF - Dilution Factor
PQL - Practical Quantitation Limit - Multiply RL by the DF to obtain the PQL for a specific sample

ONSITE
ENVIRONMENTAL
LABORATORIES, INC.

LABORATORY QC REPORT
EPA Method 8080 (PCB)

Date sampled :	4/29/98	Project Mgr :	Joann Ornelas
Date received :	4/30/98	Client :	Integrated Environmental Service
Date extracted :	5/1/98	Project :	C6 Facility Parcel B
Date analyzed :	5/1/98 - 5/5/98	Units :	ug/Kg
Report # :	98026a.qac	Matrix :	Soil
Lab. ID # :	98026		
Sample Spiked:	AOI3-B1-S10		

		Method Blank	Spike Conc.	LCS % Rec.	MS % Rec.	MSD % Rec.	RPD
ANALYTE	RL						
Aroclor 1016	20	ND	125	104%	79%	73%	8%
Aroclor 1221	20	ND	-	-	-	-	-
Aroclor 1232	20	ND	-	-	-	-	-
Aroclor 1242	20	ND	-	-	-	-	-
Aroclor 1248	20	ND	-	-	-	-	-
Aroclor 1254	20	ND	-	-	-	-	-
Aroclor 1260	20	ND	125	86%	70%	65%	7%

Notes :

ND - Analytes not detected at, or above the stated detection limit
RL - Reporting limit

ONSITE ENVIRONMENTAL LABORATORIES, INC.

LABORATORY QC REPORT
EPA Method 8080 (PCB)

Date extracted :	5/7/98	Project Mgr :	Joann Ornelas
Date analyzed :	5/7/1998 - 5/8/1998	Client :	Integrated Environmental Services
Report # :	98026c.qac	Project :	C6 Facility Parcel B
		Units :	ug/L
		Matrix :	water

		Method Blank	Spike Conc.	LCS % Rec.			
ANALYTE	RL						
Aroclor 1016	1	ND	2.5	154%			
Aroclor 1221	1	ND	-	-			
Aroclor 1232	1	ND	-	-			
Aroclor 1242	1	ND	-	-			
Aroclor 1248	1	ND	-	-			
Aroclor 1254	1	ND	-	-			
Aroclor 1260	1	ND	2.5	120%			

Notes : ND - Analytes not detected at, or above the stated detection limit
RL - Reporting limit

CDL No. 1013-1
Pg 1 of 2

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

ONSITE ENVIRONMENTAL LABORATORIES, INC.

[redacted]

5500 Boscell Common Fremont, CA 94538 Tel. (510) 490-8571 Fax. (510) 490-8572

Project Manager:	Joann Ornelas
Client Name:	Boeing/Integrated Envwa Serv.
Address:	3990 Westerly Pl. Ste 210
City, State ZIP	Newport Beach, CA 92660
Phone:	714 852 9050
Fax:	714 852 9011

Bill to:	Boeing c/o IESI
Company:	" " "
Address:	SAME
City, State ZIP	
Phone:	
Fax:	

Date:	4-29-98
Page:	1 of 2
Laboratory:	
Lab Number:	98026

Project Name:	CL Facility, Parcel B
Project Number:	

P.O. No.:	

Analysis Requested

	Sample Identification	Date Sampled	Time Sampled	Matrix	Sampled & Relinquished By:	Time Relinquished:	Received By:	Lab ID	BTEX (8021)	TPH - Gas (8015M)	TPH - Diesel (8015M)	8080 (PCB's)					No. Containers	Remarks
																		Rush Analysis 24 to 48 hr TAT
1	A013-B1-S1	4-29-98	1025	Soil	JRO	4:20p						X					1	
2	-S2		1026														1	
3	-S3		1027														1	
4	-S4		1028														1	
5	-S5		1029														1	
6	-S6		1030														1	
7	-S7D		1031														1	
8	-S7		1032														1	
9	-S8		1033														1	
10	-S9		1034														1	
11	-S10		1035														1	
12	-B2-S1		1040														1	
13	-S2		1041														1	
14	-S3		1042														1	

Initials:	Printed Name:	Signature:		
JRO	Joann K. Ornelas	[signature]	Date:	
			Start Time:	
			Stop Time:	
			Hours:	
			Client Sign-off:	

Total Containers:	14
Received Intact:	✓
Received Cold:	✓ 3°C
Custody Seals:	NA

4/29/98

White Copy - Admin/Lab Yellow - Mobile Lab Pink - Client

BOE-C6-0110703

COC No. 10135-1
Pg 2 of 2

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

ONSITE ENVIRONMENTAL LABORATORIES, INC.

[redacted]

5500 Boscell Commons, Fremont, CA 94538 Tel. (510) 490-8571 Fax. (510) 490-8572

Project Manager:	~~Boeing Integrated Environ Svc~~
Client Name:	Boeing / Integrated Environ Svc.
Address:	3990 Westerly Pl, Ste 210
City, State ZIP	Newport Beach, CA 92660
Phone:	714 852 9050
Fax:	714 852 9011

Bill to:	Boeing c/o ILSI
Company:	" " "
Address:	SAME
City, State ZIP	
Phone:	
Fax:	

Date:	4-29-98
Page:	2 of 2
Laboratory:	
Lab Number:	98026

Project Name:	~~Boeing~~ CL Facility, Parcel C
Project Number:	

P.O. No.:	

Analysis Requested

	Sample Identification	Date Sampled	Time Sampled	Matrix	Sampled & Relinquished By:	Time Relinquished:	Received By:	Lab ID	BTEX (8021)	TPH - Gas (8015M)	TPH - Diesel (8015M)	PCB's (8080)					No. Containers	Remarks
5	AOI3-B2-S4	4-29-98	1043	SOIL	JR	4:20						X					1	Rush Analysis 24 to 48 hr TAT
16	-S5		1044															
17	-S6		1045															
18	-S7		1046															
19	-S8		1047															
20	-S9		1048															
21	-S10		1049															
22	FB-1		1520	WATER														STANDARD TAT
23	EB-1		1530															STANDARD TAT

Initials:	Printed Name:	Signature:		
JR	Jerry P. Dinello	[signature]	Date:	
			Start Time:	
			Stop Time:	
			Hours:	
			Client Sign-off:	

Total Containers:	9
Received Intact:	✓
Received Cold:	✓ 3°C
Custody Seals:	NA

White Copy - Admin/Lab Yellow - Mobile Lab Pink - Client

BOE-C6-0110704

LABORATORY ANALYTICAL REPORT

ONSITE ENVIRONMENTAL LABORATORIES, INC.

Polychlorinated Biphenyls by Method 8080

Date sampled :	5/15/98	**Project Mgr:**	Joann Ornelas
Date received :	5/18/98	**Client :**	Integrated Environmental Services
Date analyzed :	5/18/98 - 5/19/98	**Project :**	C6 Facility Parcel B
Report # :	1E055.rpt	**Units :**	ug/Kg
Lab. ID # :	1E055	**Matrix :**	Soil

AOI 3 Confirmation

Field ID Number Lab ID Number		1 AOI2-CB2-C1	2 AOI3-CB4-C2	3 AOI3-CB12-C1				
Target Compounds	RL							
Aroclor 1016	20	ND	ND	ND				
Aroclor 1221	20	ND	ND	ND				
Aroclor 1232	20	ND	ND	ND				
Aroclor 1242	20	ND	ND	ND				
Aroclor 1248	20	ND	ND	ND				
Aroclor 1254	20	ND	ND	ND				
Aroclor 1260	20	ND	ND	ND				
Surrogate		94%	92%	98%				
Dilution factor (DF)		1	1	1				

Notes :

ND - Analytes not detected at, or above the stated detection limit
RL - Reporting limit
DF - Dilution Factor
PQL - Practical Quantitation Limit - Multiply RL by the DF to obtain the PQL for a specific sample

PRELIMINARY

Clayton LABORATORY SERVICES

Analytical Results
for
Onsite Environmental Laboratories, Inc.

Clayton Project No. 98052.03

Sample Identification:	AOI3-CB17-51	Date Sampled:	05/12/98
Lab Number:	9805203-01A	Date Received:	05/13/98
Sample Matrix/Media:	SOIL	Date Extracted:	05/13/98
Extraction Method:	EPA 3550	Date Analyzed:	05/15/98
Method Reference:	EPA 8270B	Analyst:	ASC

Analyte	CAS #	Concentration (mg/kg)	Method Detection Limit (mg/kg)
Acid Extractables			
4-Chloro-3-methylphenol	59-50-7	ND	0.5
2-Chlorophenol	95-57-8	ND	0.5
2,4-Dichlorophenol	120-83-2	ND	0.5
2,4-Dimethylphenol	105-67-9	ND	0.5
2,4-Dinitrophenol	51-28-5	ND	3
2-Methyl-4,6-dinitrophenol	534-52-1	ND	3
2-Methylphenol	95-48-7	ND	0.5
4-Methylphenol	106-44-5	ND	0.5
2-Nitrophenol	88-75-5	ND	0.5
4-Nitrophenol	100-02-7	ND	3
Pentachlorophenol	87-86-5	ND	3
Phenol	108-95-2	ND	0.5
2,4,5-Trichlorophenol	95-95-4	ND	0.5
2,4,6-Trichlorophenol	88-06-2	ND	0.5
Base/Neutral Extractables			
Acenaphthene	83-32-9	ND	0.5
Acenaphthylene	208-96-8	ND	0.5
Anthracene	120-12-7	ND	0.5
Benzidine	92-87-5	ND	10
Benzoic acid	65-85-0	ND	2
Benzo(a)anthracene	56-55-3	ND	0.5
Benzo(b)fluoranthene	205-99-2	ND	0.5
Benzo(k)fluoranthene	207-08-9	ND	0.5
Benzo(ghi)perylene	191-24-2	ND	0.5
Benzo(a)pyrene	50-32-8	ND	0.5
Benzyl alcohol	100-51-6	ND	1
Benzyl butyl phthalate	85-68-7	ND	0.5
Bis(2-chloroethoxy)methane	111-91-1	ND	0.5

PRELIMINARY

Clayton LABORATORY SERVICES

Analytical Results
for
Onsite Environmental Laboratories, Inc.

Clayton Project No. 98052.03

Sample Identification:	AOI3-CB17-51	Date Sampled:	05/12/98
Lab Number:	9805203-01A	Date Received:	05/13/98
Sample Matrix/Media:	SOIL	Date Extracted:	05/13/98
Extraction Method:	EPA 3550	Date Analyzed:	05/15/98
Method Reference:	EPA 8270B	Analyst:	ASC

Analyte	CAS #	Concentration (mg/kg)	Method Detection Limit (mg/kg)
Base/Neutral Extractables (Continued)			
Bis(2-chloroethyl)ether	111-44-4	ND	0.5
Bis(2-chloroisopropyl)ether	108-60-1	ND	0.5
Bis(2-ethylhexyl)phthalate	117-81-7	ND	5
4-Bromophenyl phenyl ether	101-55-3	ND	0.5
4-Chloroaniline	106-47-8	ND	3
2-Chloronaphthalene	91-58-7	ND	0.5
4-Chlorophenyl phenyl ether	7005-72-3	ND	0.5
Chrysene	218-01-9	ND	0.5
Dibenzo(a,h)anthracene	53-70-3	ND	0.5
Dibenzofuran	132-64-9	ND	0.5
Di-n-butylphthalate	84-74-2	ND	0.5
1,2-Dichlorobenzene	95-50-1	ND	0.5
1,3-Dichlorobenzene	541-73-1	ND	0.5
1,4-Dichlorobenzene	106-46-7	ND	0.5
3,3'-Dichlorobenzidine	91-94-1	ND	10
Diethylphthalate	84-66-2	ND	0.5
Dimethylphthalate	131-11-3	ND	0.5
2,4-Dinitrotoluene	121-14-2	ND	0.5
2,6-Dinitrotoluene	606-20-2	ND	0.5
Di-n-octylphthalate	117-84-0	ND	0.5
Fluoranthene	206-44-0	ND	0.5
Fluorene	86-73-7	ND	0.5
Hexachlorobenzene	118-74-1	ND	0.5
Hexachlorobutadiene	87-68-3	ND	0.5
Hexachlorocyclopentadiene	77-47-4	ND	5
Hexachloroethane	67-72-1	ND	0.5
Indeno(1,2,3-cd)pyrene	193-39-5	ND	0.5
Isophorone	78-59-1	ND	0.5
2-Methyl naphthalene	91-57-6	ND	0.5
Naphthalene	91-20-3	ND	0.5

Clayton LABORATORY SERVICES

PRELIMINARY

Analytical Results
for
Onsite Environmental Laboratories, Inc.

Clayton Project No. 98052.03

Sample Identification:	AOI3-CB17-51	Date Sampled:	05/12/98
Lab Number:	9805203-01A	Date Received:	05/13/98
Sample Matrix/Media:	SOIL	Date Extracted:	05/13/98
Extraction Method:	EPA 3550	Date Analyzed:	05/15/98
Method Reference:	EPA 8270B	Analyst:	ASC

Analyte	CAS #	Concentration (mg/kg)	Method Detection Limit (mg/kg)
Base/Neutral Extractables (Continued)			
2-Nitroaniline	88-74-4	ND	3
3-Nitroaniline	99-09-2	ND	3
4-Nitroaniline	100-01-6	ND	3
Nitrobenzene	98-95-3	ND	0.5
N-Nitrosodiphenylamine	86-30-6	ND	0.5
N-Nitrosodi-n-propylamine	621-64-7	ND	0.5
Phenanthrene	85-01-8	ND	0.5
Pyrene	129-00-0	ND	0.5
1,2,4-Trichlorobenzene	120-82-1	ND	0.5

Surrogates		Recovery (%)	QC Limits (%)
2-Fluorobiphenyl	321-60-8	56	30 - 115
2-Fluorophenol	367-12-4	41	25 - 121
Nitrobenzene-d5	4165-60-0	49	23 - 120
Phenol-d5	13127-88-3	57	24 - 113
Terphenyl-d14	98904-43-9	102	18 - 137
2,4,6-Tribromophenol	118-79-6	45	19 - 122

ND: Not detected at or above limit of detection
--: Information not available or not applicable

Results are reported on a wet-weight basis, as received.

PRELIMINARY

Clayton LABORATORY SERVICES

Analytical Results
for
Onsite Environmental Laboratories, Inc.

Clayton Project No. 98052.03

Sample Identification:	AOI3-CB18-51	Date Sampled:	05/12/98
Lab Number:	9805203-02A	Date Received:	05/13/98
Sample Matrix/Media:	SOIL	Date Extracted:	05/13/98
Extraction Method:	EPA 3550	Date Analyzed:	05/15/98
Method Reference:	EPA 8270B	Analyst:	ASC

Analyte	CAS #	Concentration (mg/kg)	Method Detection Limit (mg/kg)
Acid Extractables			
4-Chloro-3-methylphenol	59-50-7	ND	0.5
2-Chlorophenol	95-57-8	ND	0.5
2,4-Dichlorophenol	120-83-2	ND	0.5
2,4-Dimethylphenol	105-67-9	ND	0.5
2,4-Dinitrophenol	51-28-5	ND	3
2-Methyl-4,6-dinitrophenol	534-52-1	ND	3
2-Methylphenol	95-48-7	ND	0.5
4-Methylphenol	106-44-5	ND	0.5
2-Nitrophenol	88-75-5	ND	0.5
4-Nitrophenol	100-02-7	ND	3
Pentachlorophenol	87-86-5	ND	3
Phenol	108-95-2	ND	0.5
2,4,5-Trichlorophenol	95-95-4	ND	0.5
2,4,6-Trichlorophenol	88-06-2	ND	0.5
Base/Neutral Extractables			
Acenaphthene	83-32-9	ND	0.5
Acenaphthylene	208-96-8	ND	0.5
Anthracene	120-12-7	ND	0.5
Benzidine	92-87-5	ND	10
Benzoic acid	65-85-0	ND	2
Benzo(a)anthracene	56-55-3	ND	0.5
Benzo(b)fluoranthene	205-99-2	ND	0.5
Benzo(k)fluoranthene	207-08-9	ND	0.5
Benzo(ghi)perylene	191-24-2	ND	0.5
Benzo(a)pyrene	50-32-8	ND	0.5
Benzyl alcohol	100-51-6	ND	1
Benzyl butyl phthalate	85-68-7	ND	0.5
Bis(2-chloroethoxy)methane	111-91-1	ND	0.5

PRELIMINARY

Clayton LABORATORY SERVICES

Analytical Results
for
Onsite Environmental Laboratories, Inc.

Clayton Project No. 98052.03

Sample Identification:	AOI3-CB18-51	Date Sampled:	05/12/98
Lab Number:	9805203-02A	Date Received:	05/13/98
Sample Matrix/Media:	SOIL	Date Extracted:	05/13/98
Extraction Method:	EPA 3550	Date Analyzed:	05/15/98
Method Reference:	EPA 8270B	Analyst:	ASC

Analyte	CAS #	Concentration (mg/kg)	Method Detection Limit (mg/kg)
Base/Neutral Extractables (Continued)			
Bis(2-chloroethyl)ether	111-44-4	ND	0.5
Bis(2-chloroisopropyl)ether	108-60-1	ND	0.5
Bis(2-ethylhexyl)phthalate	117-81-7	ND	5
4-Bromophenyl phenyl ether	101-55-3	ND	0.5
4-Chloroaniline	106-47-8	ND	3
2-Chloronaphthalene	91-58-7	ND	0.5
4-Chlorophenyl phenyl ether	7005-72-3	ND	0.5
Chrysene	218-01-9	ND	0.5
Dibenzo(a,h)anthracene	53-70-3	ND	0.5
Dibenzofuran	132-64-9	ND	0.5
Di-n-butylphthalate	84-74-2	ND	0.5
1,2-Dichlorobenzene	95-50-1	ND	0.5
1,3-Dichlorobenzene	541-73-1	ND	0.5
1,4-Dichlorobenzene	106-46-7	ND	0.5
3,3'-Dichlorobenzidine	91-94-1	ND	10
Diethylphthalate	84-66-2	ND	0.5
Dimethylphthalate	131-11-3	ND	0.5
2,4-Dinitrotoluene	121-14-2	ND	0.5
2,6-Dinitrotoluene	606-20-2	ND	0.5
Di-n-octylphthalate	117-84-0	ND	0.5
Fluoranthene	206-44-0	ND	0.5
Fluorene	86-73-7	ND	0.5
Hexachlorobenzene	118-74-1	ND	0.5
Hexachlorobutadiene	87-68-3	ND	0.5
Hexachlorocyclopentadiene	77-47-4	ND	5
Hexachloroethane	67-72-1	ND	0.5
Indeno(1,2,3-cd)pyrene	193-39-5	ND	0.5
Isophorone	78-59-1	ND	0.5
2-Methyl naphthalene	91-57-6	ND	0.5
Naphthalene	91-20-3	ND	0.5

Clayton LABORATORY SERVICES

PRELIMINARY

Analytical Results
for
Onsite Environmental Laboratories, Inc.

Clayton Project No. 98052.03

Sample Identification:	AOI3-CB18-51	Date Sampled:	05/12/98
Lab Number:	9805203-02A	Date Received:	05/13/98
Sample Matrix/Media:	SOIL	Date Extracted:	05/13/98
Extraction Method:	EPA 3550	Date Analyzed:	05/15/98
Method Reference:	EPA 8270B	Analyst:	ASC

Analyte	CAS #	Concentration (mg/kg)	Method Detection Limit (mg/kg)
Base/Neutral Extractables (Continued)			
2-Nitroaniline	88-74-4	ND	3
3-Nitroaniline	99-09-2	ND	3
4-Nitroaniline	100-01-6	ND	3
Nitrobenzene	98-95-3	ND	0.5
N-Nitrosodiphenylamine	86-30-6	ND	0.5
N-Nitrosodi-n-propylamine	621-64-7	ND	0.5
Phenanthrene	85-01-8	ND	0.5
Pyrene	129-00-0	ND	0.5
1,2,4-Trichlorobenzene	120-82-1	ND	0.5

Surrogates		Recovery (%)	QC Limits (%)
2-Fluorobiphenyl	321-60-8	71	30 - 115
2-Fluorophenol	367-12-4	48	25 - 121
Nitrobenzene-d5	4165-60-0	59	23 - 120
Phenol-d5	13127-88-3	70	24 - 113
Terphenyl-d14	98904-43-9	110	18 - 137
2,4,6-Tribromophenol	118-79-6	56	19 - 122

ND: Not detected at or above limit of detection
--: Information not available or not applicable

Results are reported on a wet-weight basis, as received.

PRELIMINARY

Clayton LABORATORY SERVICES

Analytical Results
for
Onsite Environmental Laboratories, Inc.

Clayton Project No. 98052.03

Sample Identification:	METHOD BLANK	Date Sampled:	--
Lab Number:	9805203-03A	Date Received:	--
Sample Matrix/Media:	SOIL	Date Extracted:	05/13/98
Extraction Method:	EPA 3550	Date Analyzed:	05/14/98
Method Reference:	EPA 8270B	Analyst:	ASC

Analyte	CAS #	Concentration (mg/kg)	Method Detection Limit (mg/kg)
Acid Extractables			
4-Chloro-3-methylphenol	59-50-7	ND	0.1
2-Chlorophenol	95-57-8	ND	0.1
2,4-Dichlorophenol	120-83-2	ND	0.1
2,4-Dimethylphenol	105-67-9	ND	0.1
2,4-Dinitrophenol	51-28-5	ND	0.5
2-Methyl-4,6-dinitrophenol	534-52-1	ND	0.5
2-Methylphenol	95-48-7	ND	0.1
4-Methylphenol	106-44-5	ND	0.1
2-Nitrophenol	88-75-5	ND	0.1
4-Nitrophenol	100-02-7	ND	0.5
Pentachlorophenol	87-86-5	ND	0.5
Phenol	108-95-2	ND	0.1
2,4,5-Trichlorophenol	95-95-4	ND	0.1
2,4,6-Trichlorophenol	88-06-2	ND	0.1
Base/Neutral Extractables			
Acenaphthene	83-32-9	ND	0.1
Acenaphthylene	208-96-8	ND	0.1
Anthracene	120-12-7	ND	0.1
Benzidine	92-87-5	ND	3
Benzoic acid	65-85-0	ND	0.4
Benzo(a)anthracene	56-55-3	ND	0.1
Benzo(b)fluoranthene	205-99-2	ND	0.1
Benzo(k)fluoranthene	207-08-9	ND	0.1
Benzo(ghi)perylene	191-24-2	ND	0.1
Benzo(a)pyrene	50-32-8	ND	0.1
Benzyl alcohol	100-51-6	ND	0.2
Benzyl butyl phthalate	85-68-7	ND	0.1
Bis(2-chloroethoxy)methane	111-91-1	ND	0.1

Clayton LABORATORY SERVICES

PRELIMINARY

Analytical Results
for
Onsite Environmental Laboratories, Inc.

Clayton Project No. 98052.03

Sample Identification:	METHOD BLANK	Date Sampled:	--
Lab Number:	9805203-03A	Date Received:	--
Sample Matrix/Media:	SOIL	Date Extracted:	05/13/98
Extraction Method:	EPA 3550	Date Analyzed:	05/14/98
Method Reference:	EPA 8270B	Analyst:	ASC

Analyte	CAS #	Concentration (mg/kg)	Method Detection Limit (mg/kg)
Base/Neutral Extractables (Continued)			
Bis(2-chloroethyl)ether	111-44-4	ND	0.1
Bis(2-chloroisopropyl)ether	108-60-1	ND	0.1
Bis(2-ethylhexyl)phthalate	117-81-7	ND	1
4-Bromophenyl phenyl ether	101-55-3	ND	0.1
4-Chloroaniline	106-47-8	ND	0.5
2-Chloronaphthalene	91-58-7	ND	0.1
4-Chlorophenyl phenyl ether	7005-72-3	ND	0.1
Chrysene	218-01-9	ND	0.1
Dibenzo(a,h)anthracene	53-70-3	ND	0.1
Dibenzofuran	132-64-9	ND	0.1
Di-n-butylphthalate	84-74-2	ND	0.1
1,2-Dichlorobenzene	95-50-1	ND	0.1
1,3-Dichlorobenzene	541-73-1	ND	0.1
1,4-Dichlorobenzene	106-46-7	ND	0.1
3,3'-Dichlorobenzidine	91-94-1	ND	3
Diethylphthalate	84-66-2	ND	0.1
Dimethylphthalate	131-11-3	ND	0.1
2,4-Dinitrotoluene	121-14-2	ND	0.1
2,6-Dinitrotoluene	606-20-2	ND	0.1
Di-n-octylphthalate	117-84-0	ND	0.1
Fluoranthene	206-44-0	ND	0.1
Fluorene	86-73-7	ND	0.1
Hexachlorobenzene	118-74-1	ND	0.1
Hexachlorobutadiene	87-68-3	ND	0.1
Hexachlorocyclopentadiene	77-47-4	ND	1
Hexachloroethane	67-72-1	ND	0.1
Indeno(1,2,3-cd)pyrene	193-39-5	ND	0.1
Isophorone	78-59-1	ND	0.1
2-Methyl naphthalene	91-57-6	ND	0.1
Naphthalene	91-20-3	ND	0.1

PRELIMINARY

Clayton LABORATORY SERVICES

Analytical Results
for
Onsite Environmental Laboratories, Inc.

Clayton Project No. 98052.03

Sample Identification:	METHOD BLANK	Date Sampled:	--
Lab Number:	9805203-03A	Date Received:	--
Sample Matrix/Media:	SOIL	Date Extracted:	05/13/98
Extraction Method:	EPA 3550	Date Analyzed:	05/14/98
Method Reference:	EPA 8270B	Analyst:	ASC

Analyte	CAS #	Concentration (mg/kg)	Method Detection Limit (mg/kg)
Base/Neutral Extractables (Continued)			
2-Nitroaniline	88-74-4	ND	0.5
3-Nitroaniline	99-09-2	ND	0.5
4-Nitroaniline	100-01-6	ND	0.5
Nitrobenzene	98-95-3	ND	0.1
N-Nitrosodiphenylamine	86-30-6	ND	0.1
N-Nitrosodi-n-propylamine	621-64-7	ND	0.1
Phenanthrene	85-01-8	ND	0.1
Pyrene	129-00-0	ND	0.1
1,2,4-Trichlorobenzene	120-82-1	ND	0.1

Surrogates		Recovery (%)	QC Limits (%)
2-Fluorobiphenyl	321-60-8	77	30 - 115
2-Fluorophenol	367-12-4	75	25 - 121
Nitrobenzene-d5	4165-60-0	75	23 - 120
Phenol-d5	13127-88-3	90	24 - 113
Terphenyl-d14	98904-43-9	120	18 - 137
2,4,6-Tribromophenol	118-79-6	61	19 - 122

ND: Not detected at or above limit of detection
--: Information not available or not applicable

Results are reported on a wet-weight basis, as received.

PRELIMINARY

Clayton LABORATORY SERVICES

Analytical Results
for
Onsite Environmental Laboratories, Inc.

Clayton Project No. 98052.03

Sample Identification: AOI3-CB17-51
Lab Number: 9805203-01
Sample Matrix/Media: SOIL

Date Sampled: 05/12/98
Date Received: 05/13/98

Analyte	Concentration	Method Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Method Reference
Antimony	<1	1	mg/kg	05/13/98	05/13/98	EPA 3050A	EPA 6010A
Arsenic	8	1	mg/kg	05/13/98	05/13/98	EPA 3050A	EPA 6010A
Barium	430	1	mg/kg	05/13/98	05/13/98	EPA 3050A	EPA 6010A
Beryllium	0.4	0.1	mg/kg	05/13/98	05/13/98	EPA 3050A	EPA 6010A
Cadmium	<0.4	0.4	mg/kg	05/13/98	05/13/98	EPA 3050A	EPA 6010A
Chromium	40	1	mg/kg	05/13/98	05/13/98	EPA 3050A	EPA 6010A
Cobalt	22	1	mg/kg	05/13/98	05/13/98	EPA 3050A	EPA 6010A
Copper	36	1	mg/kg	05/13/98	05/13/98	EPA 3050A	EPA 6010A
Lead	16	1	mg/kg	05/13/98	05/13/98	EPA 3050A	EPA 6010A
Mercury	<0.1	0.1	mg/kg	05/14/98	05/14/98	EPA 7471A	EPA 7471A
Molybdenum	<1	1	mg/kg	05/13/98	05/13/98	EPA 3050A	EPA 6010A
Nickel	32	1	mg/kg	05/13/98	05/13/98	EPA 3050A	EPA 6010A
Selenium	2	1	mg/kg	05/13/98	05/13/98	EPA 3050A	EPA 6010A
Silver	<0.5	0.5	mg/kg	05/13/98	05/13/98	EPA 3050A	EPA 6010A
Thallium	10	1	mg/kg	05/13/98	05/13/98	EPA 3050A	EPA 6010A
Vanadium	88	1	mg/kg	05/13/98	05/13/98	EPA 3050A	EPA 6010A
Zinc	100	1	mg/kg	05/13/98	05/13/98	EPA 3050A	EPA 6010A

ND: Not detected at or above limit of detection
--: Information not available or not applicable

Results are reported on a wet-weight basis, as received.

Clayton LABORATORY SERVICES

PRELIMINARY

Analytical Results
for
Onsite Environmental Laboratories, Inc.

Clayton Project No. 98052.03

Sample Identification: AOI3-CB18-51
Lab Number: 9805203-02
Sample Matrix/Media: SOIL

Date Sampled: 05/12/98
Date Received: 05/13/98

Analyte	Concentration	Method Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Method Reference
Antimony	<1	1	mg/kg	05/13/98	05/13/98	EPA 3050A	EPA 6010A
Arsenic	9	1	mg/kg	05/13/98	05/13/98	EPA 3050A	EPA 6010A
Barium	300	1	mg/kg	05/13/98	05/13/98	EPA 3050A	EPA 6010A
Beryllium	0.3	0.1	mg/kg	05/13/98	05/13/98	EPA 3050A	EPA 6010A
Cadmium	0.4	0.4	mg/kg	05/13/98	05/13/98	EPA 3050A	EPA 6010A
Chromium	40	1	mg/kg	05/13/98	05/13/98	EPA 3050A	EPA 6010A
Cobalt	20	1	mg/kg	05/13/98	05/13/98	EPA 3050A	EPA 6010A
Copper	45	1	mg/kg	05/13/98	05/13/98	EPA 3050A	EPA 6010A
Lead	18	1	mg/kg	05/13/98	05/13/98	EPA 3050A	EPA 6010A
Mercury	<0.1	0.1	mg/kg	05/14/98	05/14/98	EPA 7471A	EPA 7471A
Molybdenum	<1	1	mg/kg	05/13/98	05/13/98	EPA 3050A	EPA 6010A
Nickel	33	1	mg/kg	05/13/98	05/13/98	EPA 3050A	EPA 6010A
Selenium	2	1	mg/kg	05/13/98	05/13/98	EPA 3050A	EPA 6010A
Silver	<0.5	0.5	mg/kg	05/13/98	05/13/98	EPA 3050A	EPA 6010A
Thallium	12	1	mg/kg	05/13/98	05/13/98	EPA 3050A	EPA 6010A
Vanadium	90	1	mg/kg	05/13/98	05/13/98	EPA 3050A	EPA 6010A
Zinc	140	1	mg/kg	05/13/98	05/13/98	EPA 3050A	EPA 6010A

ND: Not detected at or above limit of detection
--: Information not available or not applicable

Results are reported on a wet-weight basis, as received.

ONSITE ENVIRONMENTAL LABORATORIES, INC.

LABORATORY ANALYTICAL REPORT

Volatile Organics by GC/MS EPA 8260B

Date sampled :	5/12/98	Project Mgr:	Joann Ornelas
Date received :	5/13/98	Client :	Boeing % IESI
Date reported :	5/15/98	Project :	C6 Facility Parcel B
Report # :	2E068.rpt	Units :	mg/Kg
Lab. ID # :	2E068	Matrix :	Soil

Field ID Number		AOI3-CB17-S1	AOI3-CB18-S1				
Lab ID Number		2E068-01	2E068-02				
Date Analyzed	RL	5/14/98	5/14/98				
Dichlorodifluoromethane	0.005	ND	ND				
Chloromethane	0.005	ND	ND				
Vinyl chloride	0.005	ND	ND				
Bromomethane	0.005	ND	ND				
Chloroethane	0.005	ND	ND				
Trichlorofluoromethane	0.005	ND	ND				
Freon 113	0.005	ND	ND				
Acetone	0.05	0.25	0.74				
Methyl t-butyl ether	0.05	ND	ND				
1,1-Dichloroethene	0.005	ND	ND				
Carbon disulfide	0.005	ND	ND				
Methylene chloride	0.005	ND	ND				
trans-1,2-Dichloroethene	0.005	ND	ND				
Vinyl acetate	0.01	ND	ND				
1,1-Dichloroethane	0.005	ND	ND				
2-Butanone	0.05	ND	ND				
cis-1,2-Dichloroethene	0.005	ND	ND				
2,2-Dichloropropane	0.005	ND	ND				
Bromochloromethane	0.005	ND	ND				
Chloroform	0.005	ND	ND				
1,1,1-Trichloroethane	0.005	ND	ND				
Carbon tetrachloride	0.005	ND	ND				
1,1-Dichloropropene	0.005	ND	ND				
Benzene	0.005	ND	ND				
1,2-Dichloroethane	0.005	ND	ND				
Trichloroethene	0.005	ND	ND				
1,2-Dichloropropane	0.005	ND	ND				
Dibromomethane	0.005	ND	ND				
Bromodichloromethane	0.005	ND	ND				
2-Chloroethyl vinyl ether	0.01	ND	ND				
cis-1,3-Dichloropropene	0.005	ND	ND				
4-Methyl-2-pentanone	0.05	ND	ND				
Toluene	0.005	ND	ND				
trans-1,3-Dichloropropene	0.005	ND	ND				
1,1,2-Trichloroethane	0.005	ND	ND				

Field ID Number Lab ID Number		AOI3-CB17-S1 2E068-01	AOI3-CB18-S1 2E068-02				
Date Analyzed	RL	5/14/98	5/14/98				
2-Hexanone	0.05	ND	ND				
Tetrachloroethene	0.005	ND	ND				
1,3-Dichloropropane	0.005	ND	ND				
Dibromochloromethane	0.005	ND	ND				
1,2-Dibromoethane	0.005	ND	ND				
Chlorobenzene	0.005	ND	ND				
1,1,1,2-Tetrachloroethane	0.005	ND	ND				
Ethyl Benzene	0.005	ND	ND				
m,p-Xylene	0.005	ND	ND				
o-Xylene	0.005	ND	ND				
Styrene	0.005	ND	ND				
Bromoform	0.005	ND	ND				
Isopropyl benzene	0.005	ND	ND				
Bromobenzene	0.005	ND	ND				
1,1,2,2-Tetrachloroethane	0.005	ND	ND				
1,2,3-Trichloropropane	0.005	ND	ND				
n-Propylbenzene	0.005	ND	ND				
2-Chlorotoluene	0.005	ND	ND				
4-Chlorotoluene	0.005	ND	ND				
1,3,5-Trimethyl benzene	0.005	ND	ND				
tert-Butyl benzene	0.005	ND	ND				
1,2,4-Trimethyl benzene	0.005	ND	ND				
sec-Butyl benzene	0.005	ND	ND				
1,3-Dichlorobenzene	0.005	ND	ND				
4-Isopropyl toluene	0.005	ND	ND				
1,4-Dichlorobenzene	0.005	ND	ND				
1,2-Dichlorobenzene	0.006	ND	ND				
n-Butyl benzene	0.005	ND	ND				
1,2-Dibromo-3-chloropropane	0.005	ND	ND				
1,2,4-Trichlorobenzene	0.005	ND	ND				
Hexachlorobutadiene	0.005	ND	ND				
Naphthalene	0.005	ND	0.018				
1,2,3-Trichlorobenzene	0.005	ND	ND				
TPH as gasoline	1	NR	NR				
Surrogates :	QC Limits						
1,2-Dichloroethane-d4	9% - 117	93%	91%				
Toluene-d8	3% - 115	105%	102%				
4-Bromofluorobenzene	3% - 119	110%	106%				
Dilution factor (DF)		1	1				

Notes :

ND - Analytes not detected at, or above the stated detection limit
RL - Reporting limit
DF - Dilution Factor
PQL - Practical Quantitation Limit - Multiply RL by the DF to obtain the PQL for a specific sample
J - Estimated value
mg/Kg - Milligrams per kilogram (PPM)

Laboratory director

Date

Onsite Environmental Laboratories, Inc. 5500 Bocell Common, Fremont CA 94538 Tel: (510) 490-8571 Fax: (510) 490-8572

98039a

LABORATORY ANALYTICAL REPORT

ONSITE ENVIRONMENTAL LABORATORIES, INC.

Polychlorinated Biphenyls by Method 8080

Date sampled :	5/12/98	**Project Mgr:**	Joann Ornelas
Date received :	5/13/98	**Client :**	Integrated Environmental Services
Date analyzed :	5/14/98	**Project :**	C6 Facility Parcel B
Report # :	98039a.rpt	**Units :**	ug/Kg
Lab. ID # :	98039	**Matrix :**	Soil

Field ID Number Lab ID Number		1 AOI3-CB17-S1	2 AOI3-CB18-S1					
Target Compounds	RL							
Aroclor 1016	20	ND	ND					
Aroclor 1221	20	ND	ND					
Aroclor 1232	20	ND	ND					
Aroclor 1242	20	ND	ND					
Aroclor 1248	20	ND	ND					
Aroclor 1254	20	ND	ND					
Aroclor 1260	20	ND	ND					
Surrogate		73%	73%					
Dilution factor (DF)		20 *	1					

Notes :

ND - Analytes not detected at, or above the stated detection limit
RL - Reporting limit
DF - Dilution Factor
* - Sample dilution required due to matrix interference.
PQL - Practical Quantitation Limit - Multiply RL by the DF to obtain the PQL for a specific sample

AOE3-3

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

ONSITE
ENVIRONMENTAL LABORATORIES, INC.
[redacted]

5500 Boscell Common Fremont, CA 94538 Tel. (510) 490-8571 Fax. (510) 490-8572

Project Manager:	JOANN P. ORNELAS
Client Name:	Boeing c/o IESI
Address:	3990 Westerly Pl, Ste 210
City, State ZIP	Newport Beach, CA 92660
Phone:	714 852 9050
Fax:	714 852 9011

Bill to:	Joann P. Ornelas
Company:	Boeing c/o IESI
Address:	same
City, State ZIP	
Phone:	
Fax:	

Date:	5/12/98
Page:	1 of 1
Laboratory:	
Lab Number:	

Project Name:	C6 Facility Parcel B
Project Number:	

P.O. No.:	

Analysis Requested

Sample Identification	Date Sampled	Time Sampled	Matrix	Sampled & Relinquished By:	Time Relinquished:	Received By:	Lab ID	BTEX (8021)	TPH - ~~Gas (8015M)~~ 418.1	TPH - Diesel (8015M)	VOCs (8260)	SVOCs (8270)	PCBs (8080)	Metals (6010/7196/7471)		No. Containers	48 hr TAT Fax Results Remarks
AOE3-CB17-S1	5/12/98	1105	soil	[illegible]	1230				X	X	X	X	X	X		2	
AOE3-CB18-S1	5/12/98	1110	soil	[illegible]	1230				X	X	X	X	X	X		2	

Initials:	Printed Name:	Signature:		
[illegible]	Joann P. Ornelas	[illegible]	Date:	
			Start Time:	
			Stop Time:	
			Hours:	
			Client Sign-off:	

Total Containers:	
Received Intact:	
Received Cold:	
Custody Seals:	

White Copy - Admin/Lab Yellow - Mobile Lab Pink - Client

BOE-C6-0110720

IES 10228

AOI 3
Co. ,ormation

METHOD ID	LIMIT1 SOIL	LIMIT1 WATER	LAB CAS ID	PF CODE	SURROG FLG	Units	LAB CHEM	CB16	CB17	CB18					
							SAMP TYPE	S	S	S	S	S	S	S	W
							RES CODE	PP01	PP01	PP01	PP01	PP01	PP01	PP01	BF11
							SAMP ID	AOI3-CB16-C3	AOI3-CB17-C4	AOI3-CB18-C5	AOI2-CB4-S1	AOI2-CB5-S1			EQUIP BLANK
							SAMP DATE	05/28/98	05/28/98	05/28/98	05/28/98	05/28/98			
							SAMP TIME	9:35	9:40	9:50	9:40	9:30			
							SAMP DEPTH								
							PRESERVED								, N, H
							ICED	Y	Y	Y					Y
							RECEIVED	05/28/98	05/28/98	05/28/98	05/28/98	05/28/98			
							REC TIME	11:50	11:50	11:50	11:50	11:50			
							BASIS	W	W	W	W	W			W
								98050296	98050297	98050298	98050299	98050300			
							Tested	05/28/98	05/28/98	05/28/98					
418.1	8.0	0.5		T		ppm	Extractable Hydrocarbons	<	<	<					
							Tested	05/29/98	05/29/98	05/29/98					
6010	5.0	0.5		T		ppm	Antimony	<	<	<					
6010	1.0	0.1		T		ppm	Arsenic	4.6	4.7	8.3					
6010	0.1	0.01		T		ppm	Barium	170	200	210					
6010	0.1	0.01		T		ppm	Beryllium	0.69	0.68	0.73					
6010	0.1	0.01		T		ppm	Cadmium	<	<	<					
							Tested	05/28/98	05/28/98	05/28/98					
7196	0.5	0.01		T		ppm	Chromium (VI)	<	<	<					
							Tested	05/29/98	05/29/98	05/29/98					
6010	0.1	0.01		T		ppm	Chromium Total	28	27	28					
6010	0.5	0.1		T		ppm	Cobalt	13	14	14					
6010	0.1	0.01		T		ppm	Copper	30	30	31					
6010	1.0	0.1		T		ppm	Lead	5.0	5.1	6.0					
							Tested	05/28/98	05/28/98	05/28/98					
7471	0.01	0.002		T		ppm	Mercury	0.047	<	<					
							Tested	05/29/98	05/29/98	05/29/98					
6010	0.5	0.1		T		ppm	Molybdenum	<	<	<					
6010	0.5	0.1		T		ppm	Nickel	22	23	23					
6010	1.0	0.1		T		ppm	Selenium	<	<	<					
6010	0.1	0.1		T		ppm	Silver	<	<	<					
6010	5.0	0.5		T		ppm	Thallium	<	<	<					
6010	0.5	0.1		T		ppm	Vanadium	58	57	60					
6010	0.1	0.01		T		ppm	Zinc	67	66	71					
							Tested								
STLC		5.0		S		ppm	Antimony								
		1.0		S		ppm	Arsenic								
		0.1		S		ppm	Barium								
		0.1		S		ppm	Beryllium								
		0.1		S		ppm	Cadmium								
		0.5		S		ppm	Chromium (VI)								
		0.1		S		ppm	Chromium Total								
		0.5		S		ppm	Cobalt								
		0.1		S		ppm	Copper								
		1.0		S		ppm	Lead								
		0.01		S		ppm	Mercury								

BOE-C6-0110721

		0.5		S		ppm	Molybdenum									
		0.5		S		ppm	Nickel									
		1.0		S		ppm	Selenium									
		0.1		S		ppm	Silver									
		5.0		S		ppm	Thallium									
		0.5		S		ppm	Vanadium									
		0.1		S		ppm	Zinc									
							Tested									
TCLP		5.0		C		ppm	Antimony									
		1.0		C		ppm	Arsenic									
		0.1		C		ppm	Barium									
		0.1		C		ppm	Beryllium									
		0.1		C		ppm	Cadmium									
		0.5		C		ppm	Chromium (VI)									
		0.1		C		ppm	Chromium Total									
		0.5		C		ppm	Cobalt									
		0.1		C		ppm	Copper									
		1.0		C		ppm	Lead									
		0.01		C		ppm	Mercury									
		0.5		C		ppm	Molybdenum									
		0.5		C		ppm	Nickel									
		1.0		C		ppm	Selenium									
		0.1		C		ppm	Silver									
		5.0		C		ppm	Thallium									
		0.5		C		ppm	Vanadium									
		0.1		C		ppm	Zinc									
							Tested	05/28/98	05/28/98	05/28/98						
							Dilution Factor	1	1	1						
8260	2.5	0.5	71-43-2	T		ppb	Benzene	<	<	<						
8260	2.5	0.5	75-27-4	T		ppb	Bromodichloromethane	<	<	<						
8260	2.5	0.5	75-25-2	T		ppb	Bromoform	<	<	<						
8260	2.5	1.0	74-83-9	T		ppb	Bromomethane	<	<	<						
8260	5.0	0.5	75-15-0	T		ppb	Carbon Disulfide	<	<	<						
8260	2.5	0.5	56-23-5	T		ppb	Carbon tetrachloride	<	<	<						
8260	2.5	0.5	108-90-7	T		ppb	Chlorobenzene	<	<	<						
8260	2.5	0.5	124-48-1	T		ppb	Chlorodibromomethane	<	<	<						
8260	2.5	0.5	75-00-3	T		ppb	Chloroethane	<	<	<						
8260	5.0	0.5	110-75-8	T		ppb	2-Chloroethyl vinyl ether	<	<	<						
8260	2.5	0.5	67-66-3	T		ppb	Chloroform	<	<	<						
8260	2.5	0.5	74-87-3	T		ppb	Chloromethane	<	<	<						
8260	2.5	0.5	75-34-3	T		ppb	1,1-Dichloroethane	<	<	<						
8260	2.5	0.5	107-06-2	T		ppb	1,2-Dichloroethane	<	<	<						
8260	2.5	0.5	75-35-4	T		ppb	1,1-Dichloroethene	<	<	<						
8260	2.5	0.5	156-60-5	T		ppb	Trans 1,2-Dichloroethene	<	<	<						
8260	2.5	0.5	78-87-5	T		ppb	1,2-Dichloropropane	<	<	<						
8260	2.5	0.5	10061-01-5	T		ppb	cis-1,3-Dichloropropene	<	<	<						
8260	2.5	0.5	10061-02-6	T		ppb	trans-1,3-Dichloropropene	<	<	<						
8260	2.5	0.5	100-41-4	T		ppb	Ethylbenzene	<	<	<						
8260	5.0	2.5	75-09-2	T		ppb	Methylene chloride	<	<	<						
8260	2.5	0.5	100-42-5	T		ppb	Styrene	<	<	<						
8260	2.5	0.5	79-34-5	T		ppb	1,1,2,2-Tetrachloroethane	<	<	<						
8260	2.5	0.5	127-18-4	T		ppb	Tetrachloroethene	<	<	<						

8260	2.5	0.5	108-88-3	T		ppb	Toluene	<	<	<							
8260	2.5	0.5	71-55-6	T		ppb	1,1,1-Trichloroethane	<	<	<							
8260	2.5	0.5	79-00-5	T		ppb	1,1,2-Trichloroethane	<	<	<							
8260	2.5	0.5	79-01-6	T		ppb	Trichloroethene	<	<	<							
8260	5.0	0.5	75-69-4	T		ppb	Trichlorofluoromethane	<	<	<							
8260	5.0	1.0	108-05-4	T		ppb	Vinyl acetate	<	<	<							
8260	2.5	0.5	75-01-4	T		ppb	Vinyl chloride	<	<	<							
8260	2.5	1.0	1330-20-7	T		ppb	Total Xylenes	<	<	<							
8260	2.5	0.5	75-71-8	T		ppb	Dichlorodifluoromethane	<	<	<							
8260	2.5	0.5	156-59-2	T		ppb	cis-1-2,-Dichloroethene	<	<	<							
8260	2.5	0.5	594-20-7	T		ppb	2,2-Dichloropropane	<	<	<							
8260	2.5	0.5	74-97-5	T		ppb	Bromochloromethane	<	<	<							
8260	2.5	0.5	563-58-6	T		ppb	1,1-Dichloropropene	<	<	<							
8260	2.5	0.5	74-95-3	T		ppb	Dibromomethane	<	<	<							
8260	2.5	0.5	106-93-4	T		ppb	1,2-Dibromoethane	<	<	<							
8260	2.5	0.5	142-28-9	T		ppb	1,3-Dichloropropane	<	<	<							
8260	2.5	0.5	98-82-8	T		ppb	Isopropylbenzene	<	<	<							
8260	2.5	0.5	79-34-5	T		ppb	1,1,2,2-Tetrachloroethane	<	<	<							
8260	2.5	0.5	96-18-4	T		ppb	1,2,3-Trichloropropane	<	<	<							
8260	2.5	0.5	108-86-1	T		ppb	Bromobenzene	<	<	<							
8260	2.5	0.5	103-65-1	T		ppb	n-Propylbenzene	<	<	<							
8260	2.5	0.5	95-49-8	T		ppb	2-Chlorotoluene	<	<	<							
8260	2.5	0.5	108-67-8	T		ppb	1,3,5-Trimethylbenzene	<	<	<							
8260	2.5	0.5	106-43-4	T		ppb	4-Chlorotoluene	<	<	<							
8260	2.5	0.5	98-06-6	T		ppb	tert-Butylbenzene	<	<	<							
8260	2.5	0.5	95-63-6	T		ppb	1,2,4-Trimethylbenzene	<	<	<							
8260	2.5	0.5	135-98-8	T		ppb	sec-Butylbenzene	<	<	<							
8260	2.5	0.5	99-87-6	T		ppb	4-Isopropyltoluene	<	<	<							
8260	2.5	0.5	541-73-1	T		ppb	1,3-Dichlorobenzene	<	<	<							
8260	2.5	0.5	106-46-7	T		ppb	1,4-Dichlorobenzene	<	<	<							
8260	2.5	0.5	104-51-8	T		ppb	n-Butylbenzene	<	<	<							
8260	2.5	0.5	95-50-1	T		ppb	1,2-Dichlorobenzene	<	<	<							
8260	5.0	1.0	96-12-8	T		ppb	1,2-Dibromo-3-CPA	<	<	<							
8260	2.5	0.5	120-82-1	T		ppb	1,2,4-Trichlorobenzene	<	<	<							
8260	2.5	0.5	87-68-3	T		ppb	Hexachlorobutadiene	<	<	<							
8260	2.5	0.5	91-20-3	T		ppb	Naphthalene	<	<	<							
8260	2.5	0.5	87-61-6	T		ppb	1,2,3-Trichlorobenzene	<	<	<							
					T	%	Dibromofluoromethane	96	92	95							
					T	%	Toluene-d8	90	91	92							
					T	%	4-Bromofluorobenzene	97	96	95							
							Tested	05/28/98	05/28/98	05/28/98							
							Dilution Factor	1	1	1							
8270	100	5.0	83-32-9	T		ppb	Acenaphthene	<	<	<							
8270	100	5.0	208-96-8	T		ppb	Acenaphthylene	<	<	<							
8270	100	5.0	62-53-3	T		ppb	Aniline	<	<	<							
8270	100	5.0	120-12-7	T		ppb	Anthracene	<	<	<							
8270	500	50	65-85-0	T		ppb	Benzoic Acid	<	<	<							
8270	100	5.0	56-55-3	T		ppb	Benzo (a) anthracene	<	<	<							
8270	250	25	205-99-2	T		ppb	Benzo (b) fluoranthene	<	<	<							
8270	250	25	207-08-9	T		ppb	Benzo (k) fluoranthene	<	<	<							
8270	250	25	191-24-2	T		ppb	Benzo (g,h,i)perylene	<	<	<							
8270	250	25	50-32-8	T		ppb	Benzo (a) pyrene	<	<	<							
8270	100	50	100-51-6	T		ppb	Benzyl alcohol	<	<	<							

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8270	100	5.0	111-91-1	T		ppb	Bis(2-chloroethoxy)methane	<	<	<							
8270	100	5.0	111-44-4	T		ppb	Bis(2-chloroethyl)ether	<	<	<							
8270	100	5.0	39638-32-9	T		ppb	Bis(2-chloroisopropyl)ether	<	<	<							
8270	100	3.0	117-81-7	T		ppb	Bis(2-ethylhexyl)phthalate	<	<	<							
8270	100	5.0	101-55-3	T		ppb	4-Bromophenyl phenyl ether	<	<	<							
8270	100	5.0	85-68-7	T		ppb	Butyl benzyl phthalate	<	<	<							
8270	100	5.0	106-47-8	T		ppb	4-Chloroaniline	<	<	<							
8270	100	5.0	91-58-7	T		ppb	2-Chloronaphthalene	<	<	<							
8270	100	5.0	59-50-7	T		ppb	4-Chloro-3-methylphenol	<	<	<							
8270	100	5.0	95-57-8	T		ppb	2-Chlorophenol	<	<	<							
8270	100	5.0	7005-72-3	T		ppb	4-Chlorophenyl phenyl ether	<	<	<							
8270	100	5.0	218-0109	T		ppb	Chrysene	<	<	<							
8270	100	25	53-70-3	T		ppb	Dibenz(a,h)anthracene	<	<	<							
8270	100	5.0	132-64-9	T		ppb	Dibenzofuran	<	<	<							
8270	250	5.0	84-74-2	T		ppb	Di-N-butyl phthalate	<	<	<							
8270	100	5.0	541-73-1	T		ppb	1,3-Dichlorobenzene	<	<	<							
8270	100	5.0	106-46-7	T		ppb	1,4-Dichlorobenzene	<	<	<							
8270	100	5.0	95-50-1	T		ppb	1,2-Dichlorobenzene	<	<	<							
8270	100	5.0	91-94-1	T		ppb	3,3-Dichlorobenzidine	<	<	<							
8270	100	5.0	120-83-2	T		ppb	2,4-Dichlorophenol	<	<	<							
8270	100	5.0	84-66-2	T		ppb	Diethyl phthalate	<	<	<							
8270	100	5.0	105-67-9	T		ppb	2,4-Dimethylphenol	<	<	<							
8270	100	5.0	131-11-3	T		ppb	Dimethyl phthalate	<	<	<							
8270	100	50	534-52-1	T		ppb	4,6-Dinitro-2-methylphenol	<	<	<							
8270	100	50	51-28-5	T		ppb	2,4-Dinitrophenol	<	<	<							
8270	250	5.0	121-14-2	T		ppb	2,4-Dinitrotoluene	<	<	<							
8270	250	5.0	606-20-2	T		ppb	2,6-Dinitrotoluene	<	<	<							
8270	250	25	117-84-0	T		ppb	Di-N-octyl phthalate	<	<	<							
8270	100	5.0	206-44-0	T		ppb	Fluoranthene	<	<	<							
8270	100	5.0	86-73-7	T		ppb	Fluorene	<	<	<							
8270	100	5.0	118-74-1	T		ppb	Hexachlorobenzene	<	<	<							
8270	100	5.0	87-68-3	T		ppb	Hexachlorobutadiene	<	<	<							
8270	100	5.0	77-47-4	T		ppb	Hexachlorocyclopentadiene	<	<	<							
8270	100	5.0	67-72-1	T		ppb	Hexachloroethane	<	<	<							
8270	250	25	193-39-5	T		ppb	Indeno(1,2,3-cd)pyrene	<	<	<							
8270	100	5.0	78-59-1	T		ppb	Isophorone	<	<	<							
8270	100	5.0	91-57-6	T		ppb	2-Methylnaphthalene	<	<	<							
8270	100	5.0	95-48-7	T		ppb	2-Methylphenol	<	<	<							
8270	100	5.0	106-44-5	T		ppb	4-Methylphenol	<	<	<							
8270	100	5.0	91-20-3	T		ppb	Naphthalene	<	<	<							
8270	250	50	88-74-4	T		ppb	2-Nitroaniline	<	<	<							
8270	250	50	99-09-2	T		ppb	3-Nitroaniline	<	<	<							
8270	250	50	100-01-6	T		ppb	4-Nitroaniline	<	<	<							
8270	100	5.0	98-95-3	T		ppb	Nitrobenzene	<	<	<							
8270	100	5.0	88-75-5	T		ppb	2-Nitrophenol	<	<	<							
8270	100	50	100-02-7	T		ppb	4-Nitrophenol	<	<	<							
8270	100	5.0	86-30-6	T		ppb	N-Nitrosodiphenylamine	<	<	<							
8270	100	5.0	621-64-7	T		ppb	N-Nitroso-di-N-propylamine	<	<	<							
8270	100	5.0	62-75-9	T		ppb	N-Nitrosodimethylamine	<	<	<							
8270	250	50	87-86-5	T		ppb	Pentachlorophenol	<	<	<							
8270	100	5.0	85-01-8	T		ppb	Phenanthrene	<	<	<							
8270	100	5.0	108-95-2	T		ppb	Phenol	<	<	<							
8270	100	5.0	129-00-0	T		ppb	Pyrene	<	<	<							
8270	100	5.0	120-82-1	T		ppb	1,2,4-Trichlorobenzene	<	<	<							
8270	100	5.0	95-95-4	T		ppb	2,4,5-Trichlorophenol	<	<	<							

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8270	100	5.0	88-06-2	T		ppb	2,4,6-Trichlorophenol	<	<	<						
							Tested	05/28/98	05/28/98	05/28/98	05/28/98	05/28/98				
							Dilution Factor		1	1	1	1				
8080	20	5.0	12674-11-2	T		ppb	PCB-1016	<	<	<	<	<				
8080	20	5.0	11104-28-2	T		ppb	PCB-1221	<	<	<	<	<				
8080	20	5.0	11141-16-5	T		ppb	PCB-1232	<	<	<	<	<				
8080	20	5.0	53469-21-9	T		ppb	PCB-1242	<	<	<	<	<				
8080	20	5.0	12672-29-6	T		ppb	PCB-1248	<	<	<	<	<				
8080	20	5.0	11097-69-1	T		ppb	PCB-1254	<	<	<	<	<				
8080	20	5.0	11096-82-5	T		ppb	PCB-1260	<	<	<	<	<				
							Tested									
							Dilution Factor									
8080	1.0	0.1	309-00-2	T		ppb	Aldrin									
8080	1.0	0.2	319-84-6	T		ppb	alpha-BHC									
8080	1.0	0.2	319-85-7	T		ppb	beta-BHC									
8080	2.0	0.2	319-86-8	T		ppb	gamma-BHC									
8080	1.0	0.2	58-89-9	T		ppb	gamma-BHC (Lindane)									
8080	10	0.2	57-74-9	T		ppb	Chlordane									
8080	2.0	0.5	72-54-8	T		ppb	4,4'-DDD									
8080	5.0	0.1	72-55-9	T		ppb	4,4'-DDE									
8080	1.0	0.1	50-29-3	T		ppb	4,4'-DDT									
8080	2.0	0.5	60-57-1	T		ppb	Dieldrin									
8080	1.0	0.5	959-98-8	T		ppb	Endosulfan I									
8080	2.0	0.5	33213-65-9	T		ppb	Endosulfan II									
8080	10	0.5	1031-07-8	T		ppb	Endosulfan sulfate									
8080	2.0	0.02	72-20-8	T		ppb	Endrin									
8080	2.0	0.2	7421-93-4	T		ppb	Endrin aldehyde									
8080	1.0	0.1	76-44-8	T		ppb	Heptachlor									
8080	1.0	0.2	1024-57-3	T		ppb	Heptachlor epoxide									
8080	30	9.0	72-43-5	T		ppb	Methoxychlor									
8080	35	0.5	8001-35-2	T		ppb	Toxaphene									
							Tested									
8015m				T		ppm	Up to & Including C-12									
8015m				T		ppm	C13-22									
8015m				T		ppm	C23 & Higher									
8015m	8.0	0.5		T		ppm	Total									
							Tested	05/28/98	05/28/98	05/28/98						
8015m	8.0	0.5		T		ppm	Diesel	<	<	<						
							Tested									
8015m	5.0	0.05		T		ppm	Gas									
							Tested									
9060	5.0	1.0		T		ppm	TOC									
							Tested									
9081	1.0	1.0		T		ppm	Cation Exchange Capacity									

(a) QC units for Method 8270 are reported in ng.

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		QC(S)								QC(W)							
W BR11 RINSATE BLANK , N, H Y W	W BT11 TRIP BLANK , N, H Y W																
		LAB SAMP NO.	R1	T CONC	SL[a]	DL[a]	RECOVER	D RECOVER	RPD	LAB SAMP NO.	R1	T CONC	SL[a]	DL[a]	RECOVER	D RECOVER	RPD
		05/29/98															
		98050296	0.00	10.0	9.14	9.25	91	93	1								
		98050296	0.09	10.0	9.53	9.60	94	95	1								
		98050296	3.39	5.00	7.60	7.57	84	84	0								
		98050296	0.01	1.00	0.98	0.98	97	97	0								
		98050296	0.00	1.00	0.94	0.94	94	94	0								
		05/28/98															
		98050296	0.00	1.00	0.92	0.92	92	92	0								
		05/29/98															
		98050296	0.55	1.00	1.39	1.39	84	84	0								
		98050296	0.27	1.00	1.12	1.13	85	86	1								
		98050296	0.59	1.00	1.58	1.57	99	98	1								
		98050296	0.10	5.00	4.29	4.32	84	84	1								
		05/28/98															
		98050296	0.047	1.00	1.10	1.20	105	115	9								
		05/29/98															
		98050296	0.00	5.00	4.35	4.39	87	88	1								
		98050296	0.45	5.00	4.99	5.03	91	92	1								
		98050296	0.00	10.0	9.25	9.31	93	93	1								
		98050296	0.00	5.00	4.80	4.78	96	96	0								
		98050296	0.00	10.0	8.07	8.12	81	81	1								
		98050296	1.16	5.00	5.62	5.60	89	89	0								
		98050296	1.33	1.00	2.18	2.19	85	86	0								

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		05/28/98 1 OCA200	0.0	50	48	49	96	98	2								
			0.0	50	50	51	100	102	2								
			0.0	50	43	45	86	90	5								

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				0.0	50	49	49	98	98	0										
				0.0	50	51	51	102	102	0										
			05/28/98 1 98050296	0.0	50	38	38	76	76	0										

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		98050296	0.0	100	73	72	73	72	1										
		98050296	0.0	100	72	74	72	74	3										
		98050296	0.0	50	44	45	88	90	2										
		98050296	0.0	50	44	45	88	90	2										
		98050296	0.0	100	75	75	75	75	0										
		98050296	0.0	100	71	74	71	74	4										
		98050296	0.0	50	34	35	68	70	3										
		98050296	0.0	50	44	45	88	90	2										

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		05/29/98															
		98050296	0.0	250	160	180	64	72	12								
		05/28/98 98050297	0.0	100	79	85	79	85	7								

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Analysis Request and Chain of Custody Record

ORANGE COAST ANALYTICAL, INC.
3002 Dow, Suite 532
Tustin, CA 92780
(714) 832-0064, Fax (714) 832-0067

4620 E. Elwood, Suite 4
Phoenix, AZ 85040
(602) 736-0960 Fax (602) 736-0970

Lab Job No: AOI3-5
Page 1 of 1

REQUIRED TAT: 24 hr TAT

CUSTOMER INFORMATION

COMPANY: Boeing c/o JESI
SEND REPORT TO: Joann Ornelas
ADDRESS: 3990 Westerly Pl., Ste 210
Newport Beach, CA 92660
PHONE: 714 852-9040 FAX: 714 852-9011

PROJECT INFORMATION

PROJECT NAME: Boeing C-6 facility
NUMBER: AOI3
LOCATION:
ADDRESS: 19503 S. Normandie Ave
Los Angeles, CA
SAMPLED BY:

SAMPLE ID	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER TYPE	PRES.	VOCs (8260)	SVOCs (8270)	TPH-d (8015)	TPH-g (8015)	PCBs (8080)	Metals (6010/7470/7471)			REMARKS/PRECAUTIONS
AOI3-CB16-C3	2	5/28/98	0935	soil	4oz	—	X	X	X	X	X	X			Fax Results
AOI3-CB17-C4	2	↓	0940	↓	↓	↓	X	X	X	X	X	X			
AOI3-CB18-C5	2	↓	0950	↓	↓	↓	X	X	X	X	X	X			
AOI2-CB4-S1	1	5/28/98	0940	↓	↓	↓					X				
AOI2-CB5-S1	1	5/28/98	0930	↓	↓	↓					X				

Total No. of Samples:

Relinquished By: [signature] Date/Time: 5/28/98 11:50

Relinquished By: Date/Time:

Relinquished By: Date/Time:

Method of Shipment: Delivered

Received By: Date/Time:

Received By: Date/Time:

Received For Lab By: M. Van Kanwal Date/Time: 5-28-98 11:50

Reporting Format: (check)
NORMAL ____ S.D. HMMD ____
RWQCB ____ OTHER ____

Sample Integrity: (check)
intact

All samples remain the property of the client who is ...

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