Previous

Applied P & Ch Laboratory

Organic Analysis Results for Method M8015V

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	08/26/97
Project ID:	UST 314	Service ID:	973720	Collected by:	
		Lab Sample ID:	97G3563-MB-01	Received Date:	08/26/97
Sample ID:	**97G3563-MB-01**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Method Blank	Prep. Method:	5030	Instrument ID:	GC: N
Anal. Method:	M8015V	Prep. Date:	08/26/97	Anal. Date:	08/26/97
Batch No:	97G3563	Prep. No:	–	Anal. Time:	19:28
Data File Name:	3563G.K01	Sample Amount:	5 mL	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	N

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	GASOLINE	8006-61-9	mg/L	0.05	< 0.05	U
2	BENZENE	71-43-2	μg/L	0.5	< 0.5	U
3	ETHYLBENZENE	100-41-4	μg/L	0.5	< 0.5	U
4	TOLUENE	108-88-3	μg/L	0.5	< 0.5	U
5	O-XYLENE	95-47-6	μg/L	0.5	< 0.5	U
6	M/P-XYLENE	108-38-3	μg/L	1	< 1	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (FID)	460-00-4	68-124	93
2	4-BROMO-FLUOROBENZENE (PID)	460-00-4	71-134	101
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	α, α, α-TRIFLUOROTOLUENE	98-08-8	50-200	100
# of out-of-control				0

Not Detected (N.D.) is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

15850

Applied P & Ch Laboratory

Organic Analysis Results for Method M8015V

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	08/25/97
Project ID:	UST 314	Service ID:	973720	Collected by:	
		Lab Sample ID:	97G3549-MB-01	Received Date:	08/25/97
Sample ID:	**97G3549-MB-01**	Sample Matrix	Soil	Moisture %:	
Sample Type:	Method Blank	Prep. Method:	5030	Instrument ID:	GC: B
Anal. Method:	M8015V	Prep. Date:	08/25/97	Anal. Date:	08/25/97
Batch No:	97G3549	Prep. No:	–	Anal. Time:	11:14
Data File Name:	3549G.K01	Sample Amount:	1 g	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	GASOLINE	8006-61-9	mg/kg	1	<1	U
2	BENZENE	71-43-2	μg/kg	5	<5	U
3	ETHYLBENZENE	100-41-4	μg/kg	5	<5	U
4	TOLUENE	108-88-3	μg/kg	5	<5	U
5	O-XYLENE	95-47-6	μg/kg	5	<5	U
6	M/P-XYLENE	108-38-3	μg/kg	10	<10	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (FID)	460-00-4	70-132	72
2	4-BROMO-FLUOROBENZENE (PID)	460-00-4	65-126	85
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	α, α, α-TRIFLUOROTOLUENE	98-08-8	50-200	92
# of out-of-control				0

Not Detected (N.D.) is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

Applied P & Ch Laboratory

Organic Analysis Results for Method M8015V

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	08/26/97
Project ID:	UST 314	Service ID:	973720	Collected by:	
		Lab Sample ID:	97G3565-MB-01	Received Date:	08/26/97
Sample ID:	**97G3565-MB-01**	Sample Matrix	Soil	Moisture %:	
Sample Type:	Method Blank	Prep. Method:	5030	Instrument ID:	GC: B
Anal. Method:	M8015V	Prep. Date:	08/26/97	Anal. Date:	08/26/97
Batch No:	97G3565	Prep. No:	–	Anal. Time:	10:56
Data File Name:	3565G.K01	Sample Amount:	1 g	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	GASOLINE	8006-61-9	mg/kg	1	<1	U
2	BENZENE	71-43-2	μg/kg	5	<5	U
3	ETHYLBENZENE	100-41-4	μg/kg	5	<5	U
4	TOLUENE	108-88-3	μg/kg	5	<5	U
5	O-XYLENE	95-47-6	μg/kg	5	<5	U
6	M/P-XYLENE	108-38-3	μg/kg	10	<10	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (FID)	460-00-4	70-132	76
2	4-BROMO-FLUOROBENZENE (PID)	460-00-4	65-126	90
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	α, α, α-TRIFLUOROTOLUENE	98-08-8	50-200	92
# of out-of-control				0

Not Detected (N.D.) is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

Applied P & Ch Laboratory

Organic Analysis Results for Method M8015V

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	08/22/97
Project ID:	UST 314	Service ID:	973720	Collected by:	
		Lab Sample ID:	97-3720-1	Received Date:	08/22/97
Sample ID:	**18609-314B-419**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC: N
Anal. Method:	M8015V	Prep. Date:	08/26/97	Anal. Date:	08/26/97
Batch No:	97G3563	Prep. No:	–	Anal. Time:	21:58
Data File Name:	3720.001	Sample Amount:	5 mL	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N) N	

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	GASOLINE	8006-61-9	mg/L	0.05	<0.05	U
2	BENZENE	71-43-2	μg/L	0.5	<0.5	U
3	ETHYLBENZENE	100-41-4	μg/L	0.5	<0.5	U
4	TOLUENE	108-88-3	μg/L	0.5	<0.5	U
5	O-XYLENE	95-47-6	μg/L	0.5	<0.5	U
6	M/P-XYLENE	108-38-3	μg/L	1	<1	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (FID)	460-00-4	68-124	94
2	4-BROMO-FLUOROBENZENE (PID)	460-00-4	71-134	101
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	α, α, α-TRIFLUOROTOLUENE	98-08-8	50-200	99
# of out-of-control				0

Not Detected (N.D.) is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Applied P & Ch Laboratory

Organic Analysis Results for Method M8015V

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	08/22/97
Project ID:	UST 314	Service ID:	973720	Collected by:	
		Lab Sample ID:	97-3720-2	Received Date:	08/22/97
Sample ID:	**18609-314B-420**	Sample Matrix	Soil	Moisture %:	9.0
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC: B
Anal. Method:	M8015V	Prep. Date:	08/26/97	Anal. Date:	08/26/97
Batch No:	97G3565	Prep. No:	–	Anal. Time:	12:34
Data File Name:	3720.102	Sample Amount:	4 g	Dilution Factor:	40
Methanol Vol.	10. mL				
Test Level:	Medium	Sparge Size:	5 mL	Heated Purge: (Y/N) N	

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	GASOLINE	8006-61-9	mg/kg	44	<44 [a]	U
2	BENZENE	71-43-2	μg/kg	220	<220	U
3	ETHYLBENZENE	100-41-4	μg/kg	220	1200	
4	TOLUENE	108-88-3	μg/kg	220	680	
5	O-XYLENE	95-47-6	μg/kg	220	1900	
6	M/P-XYLENE	108-38-3	μg/kg	440	4100	

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (FID)	460-00-4	70-132	106
2	4-BROMO-FLUOROBENZENE (PID)	460-00-4	65-126	109
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	α, α, α-TRIFLUOROTOLUENE	98-08-8	50-200	85
# of out-of-control				0

Not Detected (N.D.) is shown as PQL, with dilution and moisture corrected if applicable.
[a]Sample chromatogram contains peaks originated from Diesel.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Applied P & Ch Laboratory
Gasoline/BTXE, GC analysis by FID/PID

File : C:\DATA\9708\97g3565\3720.102
Method : c:\ezchrom\methods\Lufts052.b00
Sample ID : 3720-2 s f=200
Acquired : Aug 26, 1997 12:34:58
Printed : Aug 26, 1997 12:50:39

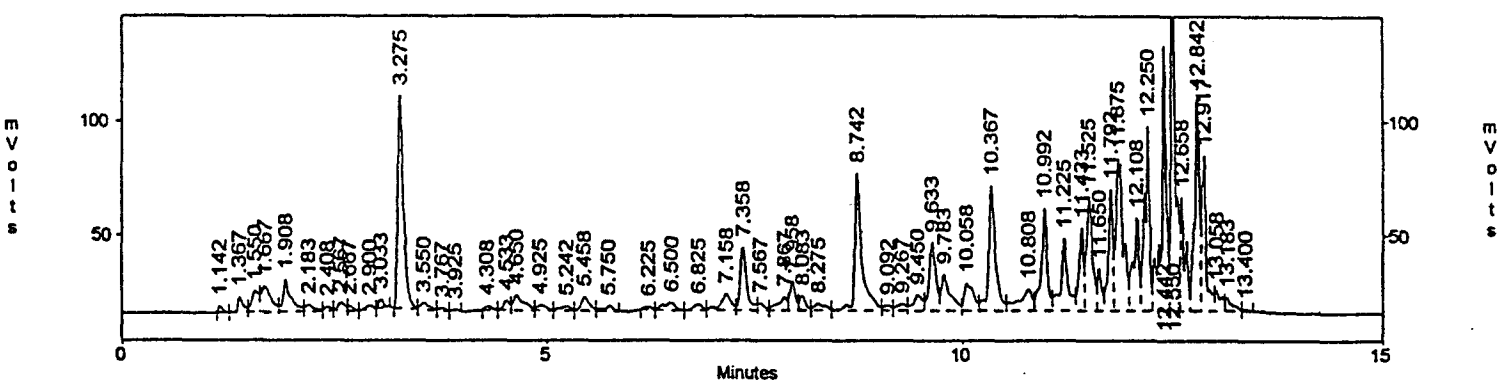
Channel A Results

No.	Name	RT,min	Area	H, V	Ave RF	ESTD (ppb)
12	2. TFT	3.28	458611	93292	5818.31592	78.8
33	7. BFB	8.74	360692	59904	3389.46802	106.4
G1	1. Gasoline		4979808		6690.93262	744.3

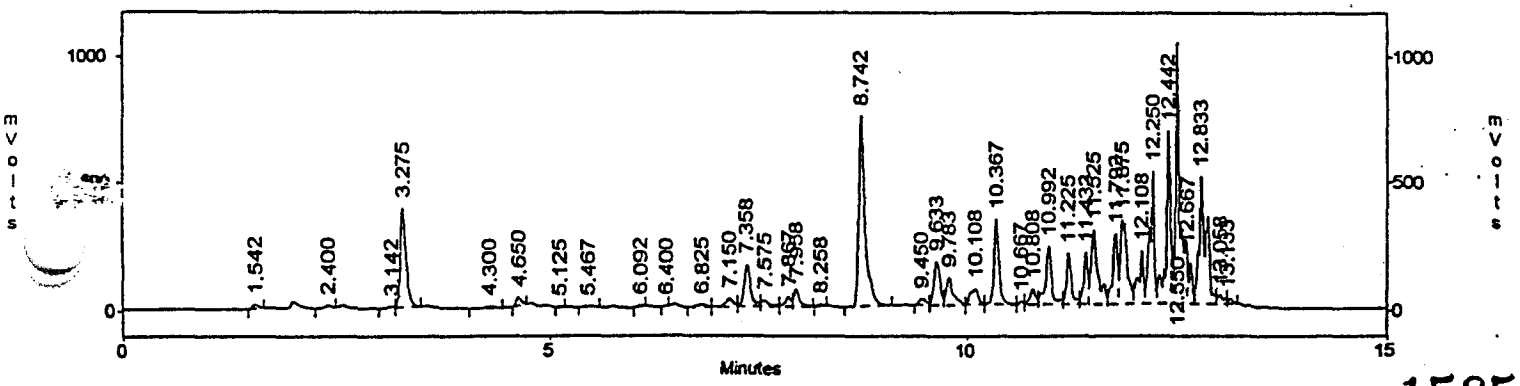
Channel B Results

No.	Name	Rt. min	Area	H, V	Ave. Rf	ISTD (ppb)
--	9. MTBE	1.81	0	0	0.00000	0.00
2	10. MEK	2.40	44388	8558	0.00000	0.00
--	1. Benzene W 20	2.63	0	0	0.00000	0.00
4	2. TFT (Int.)	3.28	1905637	383821	1.00000	100.00
6	3. Toluene W 80	4.65	141371	31304	2.37917	3.12
12	5. Et-Bz W 19	7.15	196994	30875	1.93843	5.33
13	6. P/M xylene W 82	7.36	865849	161927	2.44102	18.61
16	7. O-xylene W 27	7.96	335535	67206	2.10971	8.35
18	8. BFB (Surr.)	8.74	3891490	748469	1.86610	109.43

C:\DATA\9708\97g3565\3720.102 -- Channel A



C:\DATA\9708\97g3565\3720.102 -- Channel B



15855

Applied P & Ch Laboratory

Organic Analysis Results for Method M8015V

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	08/22/97
Project ID:	UST 314	Service ID:	973720	Collected by:	
		Lab Sample ID:	97-3720-3	Received Date:	08/22/97
Sample ID:	**18609-314B-421**	Sample Matrix	Soil	Moisture %:	9.8
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC: B
Anal. Method:	M8015V	Prep. Date:	08/25/97	Anal. Date:	08/25/97
Batch No:	97G3549	Prep. No:	–	Anal. Time:	18:31
Data File Name:	3720.003	Sample Amount:	1 g	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	GASOLINE	8006-61-9	mg/kg	1.1	< 1.1 [a]	U
2	BENZENE	71-43-2	μg/kg	5.5	< 5.5	U
3	ETHYLBENZENE	100-41-4	μg/kg	5.5	24	
4	TOLUENE	108-88-3	μg/kg	5.5	25	
5	O-XYLENE	95-47-6	μg/kg	5.5	60	
6	M/P-XYLENE	108-38-3	μg/kg	11	90	

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (FID)	460-00-4	70-132	126
2	4-BROMO-FLUOROBENZENE (PID)	460-00-4	65-126	117
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	α, α, α-TRIFLUOROTOLUENE	98-08-8	50-200	87
# of out-of-control				0

Not Detected (N.D.) is shown as PQL, with dilution and moisture corrected if applicable.
[a]Sample chromatogram contains peaks originated from Diesel.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

Applied P & Ch Laboratory
Gasoline/BTXE, GC analysis by FID/PID

File : C:\DATA\9708\97g3549\3720.003
Method : c:\ezchrom\methods\lufts052.b00
Sample ID : 3720-3 s f=5
Acquired : Aug 25, 1997 18:31:40
Printed : Aug 26, 1997 08:35:09

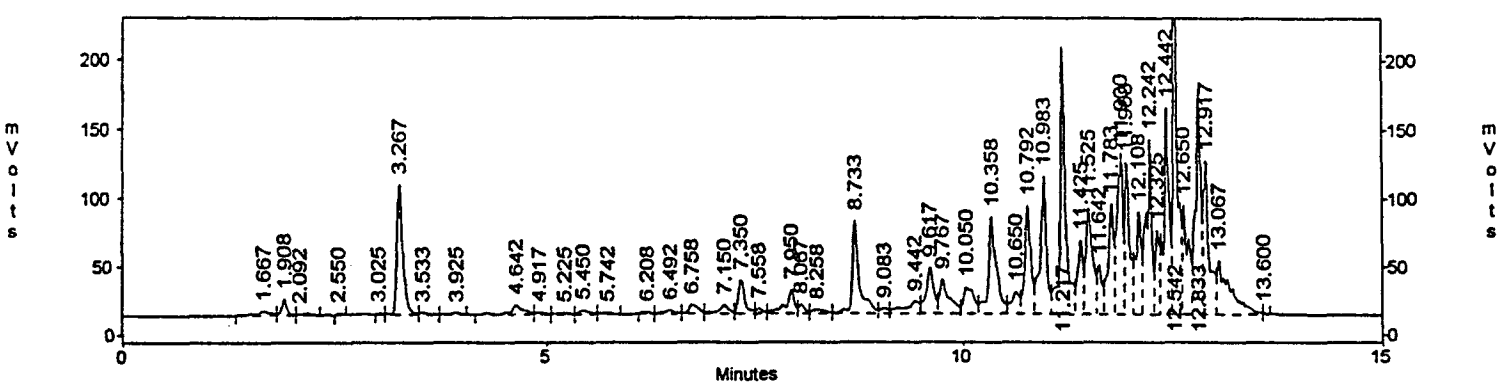
Channel A Results

No.	Name	RT, min	Area	H, V	Ave RF	ESTD (ppb)
6	2. TFT	3.27	477662	95141	5818.31592	82.1
23	7. BFB	8.73	426894	67779	3389.46802	125.9
G1	1. Gasoline		8937110		6690.93262	1335.7

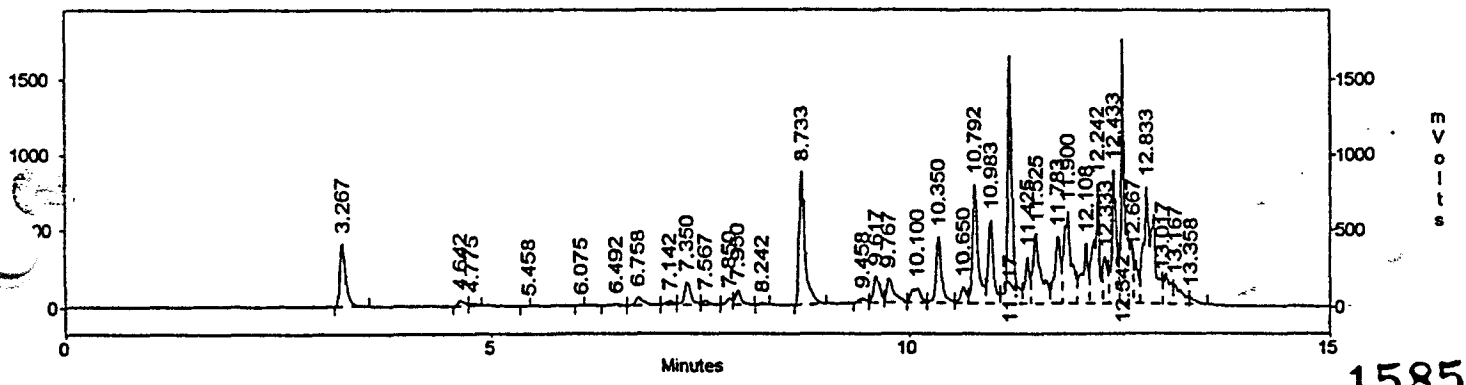
Channel B Results

No.	Name	Rt. min	Area	H, V	Ave. Rf	ISTD (ppb)
--	9. MTBE	1.81	0	0	0.00000	0.00
--	10. MEK	2.30	0	0	0.00000	0.00
--	1. Benzene W 20	2.63	0	0	0.00000	0.00
1	2. TFT (Int.)	3.27	2004193	404112	1.00000	100.00
2	3. Toluene W 80	4.64	213620	39308	2.37917	4.48
8	5. Et-Bz W 19	7.14	170631	29218	1.93843	4.39
9	6. P/M xylene W 82	7.35	791456	149313	2.44102	16.18
12	7. O-xylene W 27	7.95	458471	93896	2.10971	10.84
14	8. BFB (Surr.)	8.73	4368656	865480	1.86610	116.81

C:\DATA\9708\97g3549\3720.003 -- Channel A



C:\DATA\9708\97g3549\3720.003 -- Channel B



15857

Applied P & Ch Laboratory

Organic Analysis Results for Method M8015V

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	08/22/97
Project ID:	UST 314	Service ID:	973720	Collected by:	
		Lab Sample ID:	97-3720-4	Received Date:	08/22/97
Sample ID:	**18609-314B-422**	Sample Matrix	Soil	Moisture %:	17.6
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC: B
Anal. Method:	M8015V	Prep. Date:	08/25/97	Anal. Date:	08/25/97
Batch No:	97G3549	Prep. No:	–	Anal. Time:	18:58
Data File Name:	3720.004	Sample Amount:	1 g	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	GASOLINE	8006-61-9	mg/kg	1.2	< 1.2 [a]	U
2	BENZENE	71-43-2	μg/kg	6.1	< 6.1	U
3	ETHYLBENZENE	100-41-4	μg/kg	6.1	< 6.1	U
4	TOLUENE	108-88-3	μg/kg	6.1	3	J
5	O-XYLENE	95-47-6	μg/kg	6.1	5	J
6	M/P-XYLENE	108-38-3	μg/kg	12	6	J

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (FID)	460-00-4	70-132	128
2	4-BROMO-FLUOROBENZENE (PID)	460-00-4	65-126	107
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	α, α, α-TRIFLUOROTOLUENE	98-08-8	50-200	101
# of out-of-control				0

Not Detected (N.D.) is shown as PQL, with dilution and moisture corrected if applicable.
[a]Sample chromatogram contains peaks originated from Diesel.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

15858

Applied P & CH Laboratory
Gasoline/BTXE, GC analysis by FID/PID

File : c:\data\9708\97g3549\3720.004
Method : c:\ezchrom\methods\lufts052.b00
Sample ID : 3720-4 s f=5
Acquired : Aug 25, 1997 18:58:13
Printed : Aug 26, 1997 09:56:26

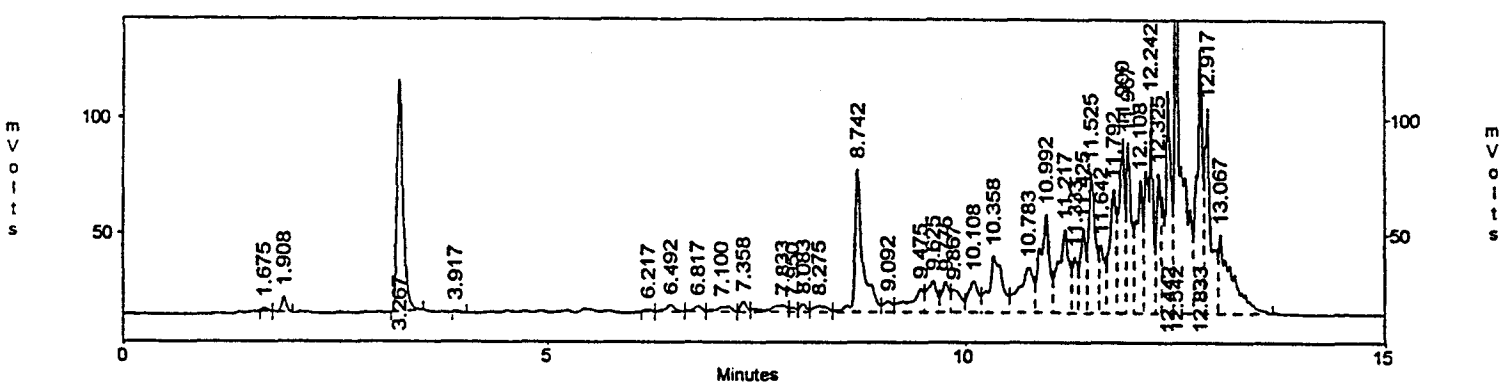
Channel A Results

No.	Name	RT,min	Area	H, V	Ave RF	ESTD (ppb)
3	2. TFT	3.27	513657	101141	5818.31592	88.3
14	7. BFB	8.74	433231	62538	3389.46802	127.8
G1	1. Gasoline		6234265		6690.93262	931.7

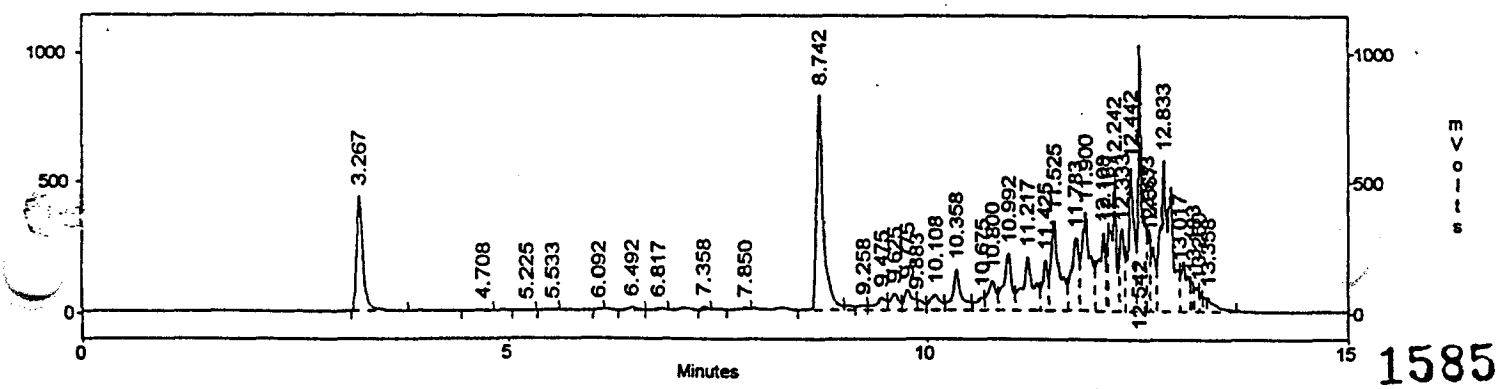
Channel B Results

No.	Name	Rt. min	Area	H, V	Ave. Rf	ISTD (ppb)
--	9. MTBE	1.81	0	0	0.00000	0.00
--	10. MEK	2.30	0	0	0.00000	0.00
--	1. Benzene W 20	2.63	0	0	0.00000	0.00
1	2. TFT (Int.)	3.27	2318972	435048	1.00000	100.00
2	3. Toluene W 80	4.71	24369	2435	2.37917	0.44
--	5. Et-Bz W 19	7.23	0	0	0.00000	0.00
8	6. P/M xylene W 82	7.36	53041	13369	2.44102	0.94
9	7. O-xylene W 27	7.85	41102	5790	2.10971	0.84
10	8. BFB (Surr.)	8.74	4630367	822672	1.86610	107.00

c:\data\9708\97g3549\3720.004 – Channel A



c:\data\9708\97g3549\3720.004 – Channel B



15859

Applied P & Ch Laboratory

Organic Analysis Results for Method M8015V

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	08/22/97
Project ID:	UST 314	Service ID:	973720	Collected by:	
		Lab Sample ID:	97-3720-5	Received Date:	08/22/97
Sample ID:	**18609-314B-423**	Sample Matrix	Soil	Moisture %:	15.3
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC: B
Anal. Method:	M8015V	Prep. Date:	08/25/97	Anal. Date:	08/25/97
Batch No:	97G3549	Prep. No:	–	Anal. Time:	19:24
Data File Name:	3720.005	Sample Amount:	1 g	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N) Y	

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	GASOLINE	8006-61-9	mg/kg	1.2	< 1.2 [a]	U
2	BENZENE	71-43-2	μg/kg	5.9	< 5.9	U
3	ETHYLBENZENE	100-41-4	μg/kg	5.9	< 5.9	U
4	TOLUENE	108-88-3	μg/kg	5.9	< 5.9	U
5	O-XYLENE	95-47-6	μg/kg	5.9	< 5.9	U
6	M/P-XYLENE	108-38-3	μg/kg	12	< 12	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (FID)	460-00-4	70-132	95
2	4-BROMO-FLUOROBENZENE (PID)	460-00-4	65-126	103
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	α, α, α-TRIFLUOROTOLUENE	98-08-8	50-200	92
# of out-of-control				0

Not Detected (N.D.) is shown as PQL, with dilution and moisture corrected if applicable.
[a]Sample chromatogram contains peaks originated from Diesel.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

15860

Applied P & Ch Laboratory

Organic Analysis Results for Method M8015V

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	08/22/97
Project ID:	UST 314	Service ID:	973720	Collected by:	
		Lab Sample ID:	97-3720-6	Received Date:	08/22/97
Sample ID:	**18609-314B-424**	Sample Matrix	Soil	Moisture %:	6.9
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC: B
Anal. Method:	M8015V	Prep. Date:	08/25/97	Anal. Date:	08/25/97
Batch No:	97G3549	Prep. No:	–	Anal. Time:	19:51
Data File Name:	3720.006	Sample Amount:	1 g	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	GASOLINE	8006-61-9	mg/kg	1.1	< 1.1	U
2	BENZENE	71-43-2	μg/kg	5.4	< 5.4	U
3	ETHYLBENZENE	100-41-4	μg/kg	5.4	< 5.4	U
4	TOLUENE	108-88-3	μg/kg	5.4	< 5.4	U
5	O-XYLENE	95-47-6	μg/kg	5.4	< 5.4	U
6	M/P-XYLENE	108-38-3	μg/kg	11	< 11	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (FID)	460-00-4	70-132	84
2	4-BROMO-FLUOROBENZENE (PID)	460-00-4	65-126	95
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	α, α, α-TRIFLUOROTOLUENE	98-08-8	50-200	97
# of out-of-control				0

Not Detected (N.D.) is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

15861

Applied P & Ch Laboratory

Organic Analysis Results for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	08/28/97
Project ID:	UST 314	Service ID:	973720	Collected by:	
		Lab Sample ID:	97G3599-MB-01	Received Date:	08/28/97
Sample ID:	97G3599-MB-01	Sample Matrix	Water	Moisture %:	–
Sample Type:	Method Blank	Prep. Method:	5030	Instrument ID:	GC/MS: X
Anal. Method:	8260	Prep. Date:	08/28/97	Anal. Date:	08/28/97
Batch No:	97G3599	Prep. No:	–	Anal. Time:	16:41
Data File Name:	G3599K01	Sample Amount:	5 mL	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	N

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	BENZENE	71-43-2	µg/L	5	< 5	U
2	BROMOBENZENE	108-86-1	µg/L	5	< 5	U
3	BROMOCHLOROMETHANE	74-97-5	µg/L	5	< 5	U
4	BROMODICHLOROMETHANE	75-27-4	µg/L	0.5	< 0.5	U
5	BROMOFORM	75-25-2	µg/L	5	< 5	U
6	BROMOMETHANE	74-83-9	µg/L	5	< 5	U
7	N-BUTYLBENZENE	104-51-8	µg/L	5	< 5	U
8	SEC-BUTYLBENZENE	135-98-8	µg/L	5	< 5	U
9	TERT-BUTYLBENZENE	98-06-6	µg/L	5	< 5	U
10	CARBON TETRACHLORIDE	56-23-5	µg/L	0.5	< 0.5	U
11	CHLOROBENZENE	108-90-7	µg/L	5	< 5	U
12	DIBROMOCHLOROMETHANE	124-48-1	µg/L	5	< 5	U
13	CHLOROETHANE	75-00-3	µg/L	5	< 5	U
14	CHLOROFORM	67-66-3	µg/L	5	< 5	U
15	CHLOROMETHANE	74-87-3	µg/L	5	< 5	U
16	2-CHLOROTOLUENE	95-49-8	µg/L	1	< 1	U
17	4-CHLOROTOLUENE	106-43-4	µg/L	10	< 10	U
18	ISOPROPYLBENZENE (CUMENE)	98-82-8	µg/L	5	< 5	U
19	1,2-DIBROMO-3-CHLOROPROPANE (DB	96-12-8	µg/L	5	< 5	U
20	1,2-DIBROMOETHANE (EDB)	106-93-4	µg/L	5	< 5	U
21	DIBROMOMETHANE	74-95-3	µg/L	5	< 5	U
22	1,2-DICHLOROBENZENE	95-50-1	µg/L	5	< 5	U
23	1,3-DICHLOROBENZENE	541-73-1	µg/L	0.5	< 0.5	U
24	1,4-DICHLOROBENZENE	106-46-7	µg/L	5	< 5	U
25	DICHLORODIFLUOROMETHANE	75-71-8	µg/L	5	< 5	U
26	1,1-DICHLOROETHANE	75-34-3	µg/L	5	< 5	U
27	1,2-DICHLOROETHANE	107-06-2	µg/L	5	< 5	U
28	1,1-DICHLOROETHENE	75-35-4	µg/L	5	< 5	U
29	CIS-1,2-DICHLOROETHENE	156-59-2	µg/L	10	< 10	U
30	TRANS-1,2-DICHLOROETHENE	156-60-5	µg/L	5	< 5	U
31	1,2-DICHLOROPROPANE	78-87-5	µg/L	5	< 5	U
32	1,3-DICHLOROPROPANE	142-28-9	µg/L	5	< 5	U
33	2,2-DICHLOROPROPANE	594-20-7	µg/L	5	< 5	U
34	1,1-DICHLOROPROPENE	563-58-6	µg/L	5	< 5	U
35	CIS-1,3-DICHLOROPROPENE	10061-01-5	µg/L	10	< 10	U
36	ETHYLBENZENE	100-41-4	µg/L	5	< 5	U
37	HEXACHLOROBUTADIENE	87-68-3	µg/L	5	< 5	U
38	P-ISOPROPYLTOLUENE	99-87-6	µg/L	5	< 5	U
39	METHYLENE CHLORIDE	75-09-2	µg/L	5	< 5	U

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#	Component Name	CAS No	Unit	RL	Result	Qualifier
40	NAPHTHALENE	91-20-3	µg/L	5	<5	U
41	N-PROPYLBENZENE	103-65-1	µg/L	10	<10	U
42	STYRENE	100-42-5	µg/L	5	<5	U
43	1,1,1,2-TETRACHLOROETHANE	630-20-6	µg/L	5	<5	U
44	1,1,2,2-TETRACHLOROETHANE	79-34-5	µg/L	5	<5	U
45	TETRACHLOROETHENE	127-18-4	µg/L	5	<5	U
46	TOLUENE	108-88-3	µg/L	5	<5	U
47	1,2,3-TRICHLOROBENZENE	87-61-6	µg/L	5	<5	U
48	1,2,4-TRICHLOROBENZENE	120-82-1	µg/L	5	<5	U
49	1,1,1-TRICHLOROETHANE	71-55-6	µg/L	5	<5	U
50	1,1,2-TRICHLOROETHANE	79-00-5	µg/L	5	<5	U
51	TRICHLOROETHENE	79-01-6	µg/L	5	<5	U
52	TRICHLOROFLUOROMETHANE	75-69-4	µg/L	5	<5	U
53	1,2,3-TRICHLOROPROPANE	96-18-4	µg/L	5	<5	U
54	1,2,4-TRIMETHYLBENZENE	95-63-6	µg/L	5	<5	U
55	1,3,5-TRIMETHYLBENZENE	108-67-8	µg/L	5	<5	U
56	VINYL CHLORIDE	75-01-4	µg/L	5	<5	U
57	O-XYLENE	95-47-6	µg/L	5	<5	U
58	M/P-XYLENE	108-38-3	µg/L	5	<5	U
59	XYLENES (TOTAL)	1330-20-7	µg/L	5	<5	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (BFB)	460-00-4	89-111	109
2	DIBROMOFLUOROMETHANE	1868-53-7	86-117	116
3	1,2-DICHLOROETHANE-D4	17060-07-0	81-113	112
4	TOLUENE-D8	2037-26-5	88-109	108
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	CHLOROBENZENE-D5	3114-55-4	50-200	89
2	1,4-DICHLOROBENZENE-D4	3855-82-1	50-200	75
3	FLUOROBENZENE	462-06-6	50-200	93
# of out-of-control				0

Not Detected (N.D.) is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Applied P & Ch Laboratory

Organic Analysis Results for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	08/22/97
Project ID:	UST 314	Service ID:	973720	Collected by:	
		Lab Sample ID:	97-3720-2	Received Date:	08/22/97
Sample ID:	18609-314B-420	Sample Matrix	Soil	Moisture %:	9.0
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC/MS: X
Anal. Method:	8260	Prep. Date:	08/28/97	Anal. Date:	08/28/97
Batch No:	97G3599	Prep. No:	–	Anal. Time:	17:15
Data File Name:	3720-02	Sample Amount:	4.0 g	Dilution Factor:	5000
Methanol Vol.	10. mL				
Test Level:	Medium	Sparge Size:	5 mL	Heated Purge: (Y/N)	N

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	BENZENE	71-43-2	µg/kg	27000	< 27000	U
2	BROMOBENZENE	108-86-1	µg/kg	27000	< 27000	U
3	BROMOCHLOROMETHANE	74-97-5	µg/kg	27000	< 27000	U
4	BROMODICHLOROMETHANE	75-27-4	µg/kg	27000	< 27000	U
5	BROMOFORM	75-25-2	µg/kg	27000	< 27000	U
6	BROMOMETHANE	74-83-9	µg/kg	27000	< 27000	U
7	N-BUTYLBENZENE	104-51-8	µg/kg	27000	< 27000	U
8	SEC-BUTYLBENZENE	135-98-8	µg/kg	27000	< 27000	U
9	TERT-BUTYLBENZENE	98-06-6	µg/kg	27000	2200	J
10	CARBON TETRACHLORIDE	56-23-5	µg/kg	27000	< 27000	U
11	CHLOROBENZENE	108-90-7	µg/kg	27000	< 27000	U
12	DIBROMOCHLOROMETHANE	124-48-1	µg/kg	27000	< 27000	U
13	CHLOROETHANE	75-00-3	µg/kg	27000	< 27000	U
14	CHLOROFORM	67-66-3	µg/kg	27000	< 27000	U
15	CHLOROMETHANE	74-87-3	µg/kg	27000	< 27000	U
16	2-CHLOROTOLUENE	95-49-8	µg/kg	27000	< 27000	U
17	4-CHLOROTOLUENE	106-43-4	µg/kg	27000	< 27000	U
18	ISOPROPYLBENZENE (CUMENE)	98-82-8	µg/kg	27000	< 27000	U
19	1,2-DIBROMO-3-CHLOROPROPANE (DB	96-12-8	µg/kg	27000	< 27000	U
20	1,2-DIBROMOETHANE (EDB)	106-93-4	µg/kg	27000	< 27000	U
21	DIBROMOMETHANE	74-95-3	µg/kg	27000	< 27000	U
22	1,2-DICHLOROBENZENE	95-50-1	µg/kg	27000	11000	J
23	1,3-DICHLOROBENZENE	541-73-1	µg/kg	27000	< 27000	U
24	1,4-DICHLOROBENZENE	106-46-7	µg/kg	27000	4300	J
25	DICHLORODIFLUOROMETHANE	75-71-8	µg/kg	27000	< 27000	U
26	1,1-DICHLOROETHANE	75-34-3	µg/kg	27000	< 27000	U
27	1,2-DICHLOROETHANE	107-06-2	µg/kg	27000	< 27000	U
28	1,1-DICHLOROETHENE	75-35-4	µg/kg	27000	< 27000	U
29	CIS-1,2-DICHLOROETHENE	156-59-2	µg/kg	27000	< 27000	U
30	TRANS-1,2-DICHLOROETHENE	156-60-5	µg/kg	27000	< 27000	U
31	1,2-DICHLOROPROPANE	78-87-5	µg/kg	27000	< 27000	U
32	1,3-DICHLOROPROPANE	142-28-9	µg/kg	27000	< 27000	U
33	2,2-DICHLOROPROPANE	594-20-7	µg/kg	27000	< 27000	U
34	1,1-DICHLOROPROPENE	563-58-6	µg/kg	27000	< 27000	U
35	CIS-1,3-DICHLOROPROPENE	10061-01-5	µg/kg	27000	< 27000	U
36	ETHYLBENZENE	100-41-4	µg/kg	27000	< 27000	U
37	HEXACHLOROBUTADIENE	87-68-3	µg/kg	27000	< 27000	U
38	P-ISOPROPYLTOLUENE	99-87-6	µg/kg	27000	< 27000	U
39	METHYLENE CHLORIDE	75-09-2	µg/kg	27000	< 27000	U

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#	Component Name	CAS No	Unit	RL	Result	Qualifier
40	NAPHTHALENE	91-20-3	µg/kg	27000	81000	
41	N-PROPYLBENZENE	103-65-1	µg/kg	27000	6300	J
42	STYRENE	100-42-5	µg/kg	27000	< 27000	U
43	1,1,1,2-TETRACHLOROETHANE	630-20-6	µg/kg	27000	< 27000	U
44	1,1,2,2-TETRACHLOROETHANE	79-34-5	µg/kg	27000	< 27000	U
45	TETRACHLOROETHENE	127-18-4	µg/kg	27000	< 27000	U
46	TOLUENE	108-88-3	µg/kg	27000	4300	J
47	1,2,3-TRICHLOROBENZENE	87-61-6	µg/kg	27000	< 27000	U
48	1,2,4-TRICHLOROBENZENE	120-82-1	µg/kg	27000	< 27000	U
49	1,1,1-TRICHLOROETHANE	71-55-6	µg/kg	27000	< 27000	U
50	1,1,2-TRICHLOROETHANE	79-00-5	µg/kg	27000	< 27000	U
51	TRICHLOROETHENE	79-01-6	µg/kg	27000	< 27000	U
52	TRICHLOROFLUOROMETHANE	75-69-4	µg/kg	27000	< 27000	U
53	1,2,3-TRICHLOROPROPANE	96-18-4	µg/kg	27000	< 27000	U
54	1,2,4-TRIMETHYLBENZENE	95-63-6	µg/kg	27000	22000	J
55	1,3,5-TRIMETHYLBENZENE	108-67-8	µg/kg	27000	5400	J
56	VINYL CHLORIDE	75-01-4	µg/kg	27000	< 27000	U
57	O-XYLENE	95-47-6	µg/kg	27000	4900	J
58	M/P-XYLENE	108-38-3	µg/kg	27000	12000	J
59	XYLENES (TOTAL)	1330-20-7	µg/kg	27000	< 27000	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (BFB)	460-00-4	89-111	109
2	DIBROMOFLUOROMETHANE	1868-53-7	86-117	114
3	1,2-DICHLOROETHANE-D4	17060-07-0	81-113	107
4	TOLUENE-D8	2037-26-5	88-109	102
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	CHLOROBENZENE-D5	3114-55-4	50-200	113
2	1,4-DICHLOROBENZENE-D4	3855-82-1	50-200	115
3	FLUOROBENZENE	462-06-6	50-200	113
# of out-of-control				0

Not Detected (N.D.) is shown as PQL, with dilution and moisture corrected if applicable.
[a]Sample chromatogram contains peaks originated from Diesel.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Applied P & Ch Laboratory

Organic Analysis Results for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	08/22/97
Project ID:	UST 314	Service ID:	973720	Collected by:	
		Lab Sample ID:	97-3720-3	Received Date:	08/22/97
Sample ID:	**18609-314B-421**	Sample Matrix	Soil	Moisture %:	9.8
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC/MS: X
Anal. Method:	8260	Prep. Date:	08/28/97	Anal. Date:	08/28/97
Batch No:	97G3599	Prep. No:	–	Anal. Time:	17:48
Data File Name:	3720-03	Sample Amount:	4.0 g	Dilution Factor:	1000
Methanol Vol.	10. mL				
Test Level:	Medium	Sparge Size:	5 mL	Heated Purge: (Y/N)	N

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	BENZENE	71-43-2	µg/kg	5500	< 5500	U
2	BROMOBENZENE	108-86-1	µg/kg	5500	< 5500	U
3	BROMOCHLOROMETHANE	74-97-5	µg/kg	5500	< 5500	U
4	BROMODICHLOROMETHANE	75-27-4	µg/kg	5500	< 5500	U
5	BROMOFORM	75-25-2	µg/kg	5500	< 5500	U
6	BROMOMETHANE	74-83-9	µg/kg	5500	< 5500	U
7	N-BUTYLBENZENE	104-51-8	µg/kg	5500	8000	
8	SEC-BUTYLBENZENE	135-98-8	µg/kg	5500	< 5500	U
9	TERT-BUTYLBENZENE	98-06-6	µg/kg	5500	< 5500	U
10	CARBON TETRACHLORIDE	56-23-5	µg/kg	5500	< 5500	U
11	CHLOROBENZENE	108-90-7	µg/kg	5500	< 5500	U
12	DIBROMOCHLOROMETHANE	124-48-1	µg/kg	5500	< 5500	U
13	CHLOROETHANE	75-00-3	µg/kg	5500	< 5500	U
14	CHLOROFORM	67-66-3	µg/kg	5500	< 5500	U
15	CHLOROMETHANE	74-87-3	µg/kg	5500	< 5500	U
16	2-CHLOROTOLUENE	95-49-8	µg/kg	5500	< 5500	U
17	4-CHLOROTOLUENE	106-43-4	µg/kg	5500	< 5500	U
18	ISOPROPYLBENZENE (CUMENE)	98-82-8	µg/kg	5500	< 5500	U
19	1,2-DIBROMO-3-CHLOROPROPANE (DB	96-12-8	µg/kg	5500	< 5500	U
20	1,2-DIBROMOETHANE (EDB)	106-93-4	µg/kg	5500	< 5500	U
21	DIBROMOMETHANE	74-95-3	µg/kg	5500	< 5500	U
22	1,2-DICHLOROBENZENE	95-50-1	µg/kg	5500	22000	
23	1,3-DICHLOROBENZENE	541-73-1	µg/kg	5500	< 5500	U
24	1,4-DICHLOROBENZENE	106-46-7	µg/kg	5500	12000	
25	DICHLORODIFLUOROMETHANE	75-71-8	µg/kg	5500	< 5500	U
26	1,1-DICHLOROETHANE	75-34-3	µg/kg	5500	< 5500	U
27	1,2-DICHLOROETHANE	107-06-2	µg/kg	5500	< 5500	U
28	1,1-DICHLOROETHENE	75-35-4	µg/kg	5500	< 5500	U
29	CIS-1,2-DICHLOROETHENE	156-59-2	µg/kg	5500	< 5500	U
30	TRANS-1,2-DICHLOROETHENE	156-60-5	µg/kg	5500	< 5500	U
31	1,2-DICHLOROPROPANE	78-87-5	µg/kg	5500	< 5500	U
32	1,3-DICHLOROPROPANE	142-28-9	µg/kg	5500	< 5500	U
33	2,2-DICHLOROPROPANE	594-20-7	µg/kg	5500	< 5500	U
34	1,1-DICHLOROPROPENE	563-58-6	µg/kg	5500	< 5500	U
35	CIS-1,3-DICHLOROPROPENE	10061-01-5	µg/kg	5500	< 5500	U
36	ETHYLBENZENE	100-41-4	µg/kg	5500	< 5500	U
37	HEXACHLOROBUTADIENE	87-68-3	µg/kg	5500	< 5500	U
38	P-ISOPROPYLTOLUENE	99-87-6	µg/kg	5500	1000	J
39	METHYLENE CHLORIDE	75-09-2	µg/kg	5500	< 5500	U

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#	Component Name	CAS No	Unit	RL	Result	Qualifier
40	NAPHTHALENE	91-20-3	µg/kg	5500	19000	
41	N-PROPYLBENZENE	103-65-1	µg/kg	5500	<5500	U
42	STYRENE	100-42-5	µg/kg	5500	<5500	U
43	1,1,1,2-TETRACHLOROETHANE	630-20-6	µg/kg	5500	<5500	U
44	1,1,2,2-TETRACHLOROETHANE	79-34-5	µg/kg	5500	<5500	U
45	TETRACHLOROETHENE	127-18-4	µg/kg	5500	<5500	U
46	TOLUENE	108-88-3	µg/kg	5500	<5500	U
47	1,2,3-TRICHLOROBENZENE	87-61-6	µg/kg	5500	<5500	U
48	1,2,4-TRICHLOROBENZENE	120-82-1	µg/kg	5500	1100	J
49	1,1,1-TRICHLOROETHANE	71-55-6	µg/kg	5500	<5500	U
50	1,1,2-TRICHLOROETHANE	79-00-5	µg/kg	5500	<5500	U
51	TRICHLOROETHENE	79-01-6	µg/kg	5500	<5500	U
52	TRICHLOROFLUOROMETHANE	75-69-4	µg/kg	5500	<5500	U
53	1,2,3-TRICHLOROPROPANE	96-18-4	µg/kg	5500	<5500	U
54	1,2,4-TRIMETHYLBENZENE	95-63-6	µg/kg	5500	5400	J
55	1,3,5-TRIMETHYLBENZENE	108-67-8	µg/kg	5500	1600	J
56	VINYL CHLORIDE	75-01-4	µg/kg	5500	<5500	U
57	O-XYLENE	95-47-6	µg/kg	5500	690	J
58	M/P-XYLENE	108-38-3	µg/kg	5500	930	J
59	XYLENES (TOTAL)	1330-20-7	µg/kg	5500	<5500	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (BFB)	460-00-4	89-111	108
2	DIBROMOFLUOROMETHANE	1868-53-7	86-117	110
3	1,2-DICHLOROETHANE-D4	17060-07-0	81-113	108
4	TOLUENE-D8	2037-26-5	88-109	104
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	CHLOROBENZENE-D5	3114-55-4	50-200	93
2	1,4-DICHLOROBENZENE-D4	3855-82-1	50-200	91
3	FLUOROBENZENE	462-06-6	50-200	94
# of out-of-control				0

Not Detected (N.D.) is shown as PQL, with dilution and moisture corrected if applicable.
[a]Sample chromatogram contains peaks originated from Diesel.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

15816

Applied P & Ch Laboratory

Organic Analysis Results for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	08/22/97
Project ID:	UST 314	Service ID:	973720	Collected by:	
		Lab Sample ID:	97-3720-4	Received Date:	08/22/97
Sample ID:	**18609-314B-422**	Sample Matrix	Soil	Moisture %:	17.6
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC/MS: X
Anal. Method:	8260	Prep. Date:	08/28/97	Anal. Date:	08/28/97
Batch No:	97G3599	Prep. No:	–	Anal. Time:	22:53
Data File Name:	3720-04A	Sample Amount:	4.0 g	Dilution Factor:	200
Methanol Vol.	10. mL				
Test Level:	Medium	Sparge Size:	5 mL	Heated Purge: (Y/N)	N

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	BENZENE	71-43-2	µg/kg	1200	< 1200	U
2	BROMOBENZENE	108-86-1	µg/kg	1200	< 1200	U
3	BROMOCHLOROMETHANE	74-97-5	µg/kg	1200	< 1200	U
4	BROMODICHLOROMETHANE	75-27-4	µg/kg	1200	< 1200	U
5	BROMOFORM	75-25-2	µg/kg	1200	< 1200	U
6	BROMOMETHANE	74-83-9	µg/kg	1200	< 1200	U
7	N-BUTYLBENZENE	104-51-8	µg/kg	1200	2700	
8	SEC-BUTYLBENZENE	135-98-8	µg/kg	1200	< 1200	U
9	TERT-BUTYLBENZENE	98-06-6	µg/kg	1200	< 1200	U
10	CARBON TETRACHLORIDE	56-23-5	µg/kg	1200	< 1200	U
11	CHLOROBENZENE	108-90-7	µg/kg	1200	< 1200	U
12	DIBROMOCHLOROMETHANE	124-48-1	µg/kg	1200	< 1200	U
13	CHLOROETHANE	75-00-3	µg/kg	1200	< 1200	U
14	CHLOROFORM	67-66-3	µg/kg	1200	< 1200	U
15	CHLOROMETHANE	74-87-3	µg/kg	1200	< 1200	U
16	2-CHLOROTOLUENE	95-49-8	µg/kg	1200	< 1200	U
17	4-CHLOROTOLUENE	106-43-4	µg/kg	1200	< 1200	U
18	ISOPROPYLBENZENE (CUMENE)	98-82-8	µg/kg	1200	< 1200	U
19	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	µg/kg	1200	< 1200	U
20	1,2-DIBROMOETHANE	106-93-4	µg/kg	1200	< 1200	U
21	DIBROMOMETHANE	74-95-3	µg/kg	1200	< 1200	U
22	1,2-DICHLOROBENZENE	95-50-1	µg/kg	1200	670	J
23	1,3-DICHLOROBENZENE	541-73-1	µg/kg	1200	< 1200	U
24	1,4-DICHLOROBENZENE	106-46-7	µg/kg	1200	570	J
25	DICHLORODIFLUOROMETHANE	75-71-8	µg/kg	1200	< 1200	U
26	1,1-DICHLOROETHANE	75-34-3	µg/kg	1200	< 1200	U
27	1,2-DICHLOROETHANE	107-06-2	µg/kg	1200	< 1200	U
28	1,1-DICHLOROETHENE	75-35-4	µg/kg	1200	< 1200	U
29	CIS-1,2-DICHLOROETHENE	156-59-2	µg/kg	1200	< 1200	U
30	TRANS-1,2-DICHLOROETHENE	156-60-5	µg/kg	1200	< 1200	U
31	1,2-DICHLOROPROPANE	78-87-5	µg/kg	1200	< 1200	U
32	1,3-DICHLOROPROPANE	142-28-9	µg/kg	1200	< 1200	U
33	2,2-DICHLOROPROPANE	594-20-7	µg/kg	1200	< 1200	U
34	1,1-DICHLOROPROPENE	563-58-6	µg/kg	1200	< 1200	U
35	CIS-1,3-DICHLOROPROPENE	10061-01-5	µg/kg	1200	< 1200	U
36	ETHYLBENZENE	100-41-4	µg/kg	1200	< 1200	U
37	HEXACHLOROBUTADIENE	87-68-3	µg/kg	1200	< 1200	U
38	P-ISOPROPYLTOLUENE	99-87-6	µg/kg	1200	360	J
39	METHYLENE CHLORIDE	75-09-2	µg/kg	1200	< 1200	U

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#	Component Name	CAS No	Unit	RL	Result	Qualifier
40	NAPHTHALENE	91-20-3	µg/kg	1200	2000	
41	N-PROPYLBENZENE	103-65-1	µg/kg	1200	<1200	U
42	STYRENE	100-42-5	µg/kg	1200	<1200	U
43	1,1,1,2-TETRACHLOROETHANE	630-20-6	µg/kg	1200	<1200	U
44	1,1,2,2-TETRACHLOROETHANE	79-34-5	µg/kg	1200	<1200	U
45	TETRACHLOROETHENE	127-18-4	µg/kg	1200	<1200	U
46	TOLUENE	108-88-3	µg/kg	1200	39	J
47	1,2,3-TRICHLOROBENZENE	87-61-6	µg/kg	1200	<1200	U
48	1,2,4-TRICHLOROBENZENE	120-82-1	µg/kg	1200	<1200	U
49	1,1,1-TRICHLOROETHANE	71-55-6	µg/kg	1200	<1200	U
50	1,1,2-TRICHLOROETHANE	79-00-5	µg/kg	1200	<1200	U
51	TRICHLOROETHENE	79-01-6	µg/kg	1200	<1200	U
52	TRICHLOROFLUOROMETHANE	75-69-4	µg/kg	1200	<1200	U
53	1,2,3-TRICHLOROPROPANE	96-18-4	µg/kg	1200	<1200	U
54	1,2,4-TRIMETHYLBENZENE	95-63-6	µg/kg	1200	690	J
55	1,3,5-TRIMETHYLBENZENE	108-67-8	µg/kg	1200	320	J
56	VINYL CHLORIDE	75-01-4	µg/kg	1200	<1200	U
57	O-XYLENE	95-47-6	µg/kg	1200	<1200	U
58	M/P-XYLENE	108-38-3	µg/kg	1200	<1200	U
59	XYLENES (TOTAL)	1330-20-7	µg/kg	1200	<1200	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (BFB)	460-00-4	89-111	109
2	DIBROMOFLUOROMETHANE	1868-53-7	86-117	113
3	1,2-DICHLOROETHANE-D4	17060-07-0	81-113	101
4	TOLUENE-D8	2037-26-5	88-109	105
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	CHLOROBENZENE-D5	3114-55-4	50-200	114
2	1,4-DICHLOROBENZENE-D4	3855-82-1	50-200	120
3	FLUOROBENZENE	462-06-6	50-200	118
# of out-of-control				0

Not Detected (N.D.) is shown as PQL, with dilution and moisture corrected if applicable.
[a]Sample chromatogram contains peaks originated from Diesel.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

15818

Applied P & Ch Laboratory

Organic Analysis Results for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	08/22/97
Project ID:	UST 314	Service ID:	973720	Collected by:	
		Lab Sample ID:	97-3720-5	Received Date:	08/22/97
Sample ID:	**18609-314B-423**	Sample Matrix	Soil	Moisture %:	15.3
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC/MS: X
Anal. Method:	8260	Prep. Date:	08/28/97	Anal. Date:	08/28/97
Batch No:	97G3599	Prep. No:	–	Anal. Time:	18:55
Data File Name:	3720-05	Sample Amount:	4.0 g	Dilution Factor:	100
Methanol Vol.	10. mL				
Test Level:	Medium	Sparge Size:	5 mL	Heated Purge: (Y/N) N	

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	BENZENE	71-43-2	µg/kg	590	<590	U
2	BROMOBENZENE	108-86-1	µg/kg	590	<590	U
3	BROMOCHLOROMETHANE	74-97-5	µg/kg	590	<590	U
4	BROMODICHLOROMETHANE	75-27-4	µg/kg	590	<590	U
5	BROMOFORM	75-25-2	µg/kg	590	<590	U
6	BROMOMETHANE	74-83-9	µg/kg	590	<590	U
7	N-BUTYLBENZENE	104-51-8	µg/kg	590	<590	U
8	SEC-BUTYLBENZENE	135-98-8	µg/kg	590	<590	U
9	TERT-BUTYLBENZENE	98-06-6	µg/kg	590	<590	U
10	CARBON TETRACHLORIDE	56-23-5	µg/kg	590	<590	U
11	CHLOROBENZENE	108-90-7	µg/kg	590	<590	U
12	DIBROMOCHLOROMETHANE	124-48-1	µg/kg	590	<590	U
13	CHLOROETHANE	75-00-3	µg/kg	590	<590	U
14	CHLOROFORM	67-66-3	µg/kg	590	<590	U
15	CHLOROMETHANE	74-87-3	µg/kg	590	<590	U
16	2-CHLOROTOLUENE	95-49-8	µg/kg	590	<590	U
17	4-CHLOROTOLUENE	106-43-4	µg/kg	590	<590	U
18	ISOPROPYLBENZENE (CUMENE)	98-82-8	µg/kg	590	<590	U
19	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	µg/kg	590	<590	U
20	1,2-DIBROMOETHANE	106-93-4	µg/kg	590	<590	U
21	DIBROMOMETHANE	74-95-3	µg/kg	590	<590	U
22	1,2-DICHLOROBENZENE	95-50-1	µg/kg	590	32	J
23	1,3-DICHLOROBENZENE	541-73-1	µg/kg	590	<590	U
24	1,4-DICHLOROBENZENE	106-46-7	µg/kg	590	44	J
25	DICHLORODIFLUOROMETHANE	75-71-8	µg/kg	590	<590	U
26	1,1-DICHLOROETHANE	75-34-3	µg/kg	590	<590	U
27	1,2-DICHLOROETHANE	107-06-2	µg/kg	590	<590	U
28	1,1-DICHLOROETHENE	75-35-4	µg/kg	590	<590	U
29	CIS-1,2-DICHLOROETHENE	156-59-2	µg/kg	590	<590	U
30	TRANS-1,2-DICHLOROETHENE	156-60-5	µg/kg	590	<590	U
31	1,2-DICHLOROPROPANE	78-87-5	µg/kg	590	<590	U
32	1,3-DICHLOROPROPANE	142-28-9	µg/kg	590	<590	U
33	2,2-DICHLOROPROPANE	594-20-7	µg/kg	590	<590	U
34	1,1-DICHLOROPROPENE	563-58-6	µg/kg	590	<590	U
35	CIS-1,3-DICHLOROPROPENE	10061-01-5	µg/kg	590	<590	U
36	ETHYLBENZENE	100-41-4	µg/kg	590	<590	U
37	HEXACHLOROBUTADIENE	87-68-3	µg/kg	590	<590	U
38	P-ISOPROPYLTOLUENE	99-87-6	µg/kg	590	150	J
39	METHYLENE CHLORIDE	75-09-2	µg/kg	590	<590	U

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#	Component Name	CAS No	Unit	RL	Result	Qualifier
40	NAPHTHALENE	91-20-3	µg/kg	590	< 590	U
41	N-PROPYLBENZENE	103-65-1	µg/kg	590	< 590	U
42	STYRENE	100-42-5	µg/kg	590	< 590	U
43	1,1,1,2-TETRACHLOROETHANE	630-20-6	µg/kg	590	< 590	U
44	1,1,2,2-TETRACHLOROETHANE	79-34-5	µg/kg	590	< 590	U
45	TETRACHLOROETHENE	127-18-4	µg/kg	590	< 590	U
46	TOLUENE	108-88-3	µg/kg	590	< 590	U
47	1,2,3-TRICHLOROBENZENE	87-61-6	µg/kg	590	< 590	U
48	1,2,4-TRICHLOROBENZENE	120-82-1	µg/kg	590	< 590	U
49	1,1,1-TRICHLOROETHANE	71-55-6	µg/kg	590	< 590	U
50	1,1,2-TRICHLOROETHANE	79-00-5	µg/kg	590	< 590	U
51	TRICHLOROETHENE	79-01-6	µg/kg	590	< 590	U
52	TRICHLOROFLUOROMETHANE	75-69-4	µg/kg	590	< 590	U
53	1,2,3-TRICHLOROPROPANE	96-18-4	µg/kg	590	< 590	U
54	1,2,4-TRIMETHYLBENZENE	95-63-6	µg/kg	590	71	J
55	1,3,5-TRIMETHYLBENZENE	108-67-8	µg/kg	590	< 590	U
56	VINYL CHLORIDE	75-01-4	µg/kg	590	< 590	U
57	O-XYLENE	95-47-6	µg/kg	590	< 590	U
58	M/P-XYLENE	108-38-3	µg/kg	590	< 590	U
59	XYLENES (TOTAL)	1330-20-7	µg/kg	590	< 590	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (BFB)	460-00-4	89-111	108
2	DIBROMOFLUOROMETHANE	1868-53-7	86-117	105
3	1,2-DICHLOROETHANE-D4	17060-07-0	81-113	101
4	TOLUENE-D8	2037-26-5	88-109	100
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	CHLOROBENZENE-D5	3114-55-4	50-200	109
2	1,4-DICHLOROBENZENE-D4	3855-82-1	50-200	109
3	FLUOROBENZENE	462-06-6	50-200	105
# of out-of-control				0

Not Detected (N.D.) is shown as PQL, with dilution and moisture corrected if applicable.
[a]Sample chromatogram contains peaks originated from Diesel.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

15820

APCL

Applied Physics & Chemistry Laboratory

13760 Magnolia Ave. Chino CA 91710
Tel. (909) 590-1828 Fax (909) 590-1498

FILE COPY

October 23, 1997

RECEIVED
[redacted] 24 [redacted]

Mary Schneider
OHM Remediation Services (Irvine)
2031 Main St.
Irvine, CA. 92714

Dear Ms. Schneider,

Enclosed please find two copies of Level C Data Package Deliverables and Electronic Data Deliverables for the project: UST 314.This package includes samples in our service ID of 97-3720.

Please contact me if you have any questions.

Sincerely yours,

Kevin Xie, Ph.D
QA Director

Vision Remediation Services Corp.

CHAIN-OF-CUSTODY RECORD

9/20

LAB CO
Form (
Field Technical Serv
Rev. 0

182771

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME	PROJECT LOCATION
UST 314	EL TORO M.C.A.S.

PROJ. NO.	PROJECT CONTACT	PROJECT TELEPHONE NO.
18609	DWAYNE Fohida	(714) 263-1146 x525

CLIENT'S REPRESENTATIVE	PROJECT MANAGER/SUPERVISOR
LYNN HORNECKER - SWDIV	Bill Sedlak - OHM

ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS): 418.1; TPH-Extractable; TPH-Purgeable/BTEX; 8240-(8); APCL EMAX CHINO, CA. ~~TORRANCE, CA.~~

ITEM NO.	SAMPLE NUMBER (MM)	DATE (YYMMDD)	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	418.1	TPH-Extractable	TPH-Purgeable/BTEX	8240-(8)					REMARKS
1	18609-314B-419	8/22/97 0830	0830		X	TRIP BLANK FOR 8/22/97	1			X						
2	18609-314B-420	8/22/97	0950		X	SOIL SAMPLE FROM UST 314 @ W @ 14	1	X	X	X						
3	18609-314B-421	8/22/97	0955		X	SOIL SAMPLE FROM UST 314 @ S @ 14	1	X	X	X						
4	18609-314B-422	8/22/97	0958		X	SOIL SAMPLE FROM UST 314 @ NE @ 13.5	1	X	X	X						
5	18609-314B-423	8/22/97	1000		X	SOIL SAMPLE FROM UST 314 @ N @ 13'	1	X	X	X						
6	18609-314B-424	8/22/97	1002		X	SOIL SAMPLE FROM UST 314 @ NW @ 15'	1	X	X	X						
7																
8																
9																
10																

Mandy Bennett 8/22/97

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1	1 TO 6	Mandy Bennett	[illegible]	8/22/97	1430
2					

REMARKS: 1) 24 HRS. T.A.T.

SAMPLER'S SIGNATURE: Mandy Bennett

25802

CHAIN OF CUSTODY
Orange County Health Care Agency
Environmental Health Division
2009 E. Edinger Ave., Santa Ana, CA 92705
Telephone: (714) 667-3700

1. ALL SAMPLES ARE TO BE HANDLED AS COURT EVIDENCE, AND ARE TO BE PROPERLY STORED IN A SECURE LOCATION.

2. PLEASE WRITE LEGIBLY.

3. ATTACH THIS FORM TO THE ORIGINAL REPORT OF THE ANALYTICAL RESULTS AND RETURN THEM TO THIS OFFICE. LABORATORY RESULTS RECEIVED WITHOUT PROPER CHAIN OF CUSTODY DOCUMENTATION WILL NOT BE ACCEPTED.

4. TO BE COMPLETED BY LABORATORY ANALYST

LAB NO.: 2720

DATE RECEIVED: 8-22-97

SAMPLE(S) CONDITION (PLEASE CHECK):

CHILLED: ✓ COUNTY SEAL(S) INTACT: ✓

CONTAINER IN GOOD CONDITION: ✓

DATE ANALYSIS COMPLETED: 8/26/97

ANALYST: Rochelle Timbang

5. TO BE COMPLETED BY SAMPLE COLLECTOR

SITE NAME/ADDRESS: MCAS El Toro Tank #314B, Santa Ana

DATE OF COLLECTION: 8-22-97

SAMPLE COLLECTOR/COMPANY: M. Barnelos OHM Remediation

TELEPHONE NO.:

HCA REPRESENTATIVE: A. Rashidi-Jaid

6.

SAMPLE NUMBER	DETERMINATION REQUESTED	SAMPLE DESCRIPTION/COMMENTS	TIME OF COLLECTION
09-314B-420	TRPH (418.1), TPH diesel (8015), BTEX (8020)		9:50am
09-314B-421			9:55
09-314B-422			9:58
09-314B-423			10:00
09-314B-424			10:02

7. CHAIN OF CUSTODY

	SIGNATURE	COMPANY/AGENCY	INCLUSIVE DATES/TIMES
1.	Afshanan Rashidi-Jaid	Haz. Waste	8-22-97 . 10:55am
2.	Marlin Bernal	OHM / SR. TECH.	8-22-97 . 10:55 AM
3.	Monica Valencia	APCL	8-22-97 . 1440
4.			
5.			
6.			

25803

WHITE-RETURN THIS COPY TO ENVIRONMENTAL HEALTH, CANARY-LABORATORY COPY
PINK-CONTRACTOR/CONSULTANT COPY, GOLDENROD

F272-6.1531.1(R8/89) CPS

Applied P & Ch Laboratory

Metal Analysis Results

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	08/22/97
Project ID:	UST 314	Service ID:	973720	Collected by:	
		Lab Sample ID:	97-3720-2	Received Date:	08/22/97
Sample ID:	18609-314B-420	Sample Matrix	Soil	Moisture %:	9.0
Sample Type:	Field Sample				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF.	Method
LEAD, PB	7439-92-1	mg/kg	0.22	7.8 [a]		P	E	97M2348M	09/19/97	09/19/97	1	6010

[a] Additional analysis requested on 09/17/97.

Note: RL: PQL (EQL) or CRDL D-Date: Digestion Date; A-Date: Analysis Date; DF: Dilution Factor

C Qualifier: U - Not Detected or less than IDL B - Less than RL (PQL, EQL or CRDL), but greater than IDL.

Q Qualifier: N - Spike recovery out of control * - Duplicate analysis out of control

W - Post digestion spike for GFAA out of control E - Serial dilution difference out of control

M Qualifier: P - ICP A - FLAA F - GFAA CV - Cold Vapor

25809

Applied P & Ch Laboratory

Metal Analysis Results

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	08/22/97
Project ID:	UST 314	Service ID:	973720	Collected by:	
		Lab Sample ID:	97-3720-3	Received Date:	08/22/97
Sample ID:	18609-314B-421	Sample Matrix	Soil	Moisture %:	9.8
Sample Type:	Field Sample				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF.	Method
LEAD, PB	7439-92-1	mg/kg	0.22	2.0 [a]		P	E	97M2348M	09/19/97	09/19/97	1	6010

[a] Additional analysis requested on 09/17/97.

Note: RL: PQL (EQL) or CRDL D-Date: Digestion Date; A-Date: Analysis Date; DF: Dilution Factor

C Qualifier: U - Not Detected or less than IDL B - Less than RL (PQL, EQL or CRDL), but greater than IDL.

Q Qualifier: N - Spike recovery out of control * - Duplicate analysis out of control

W - Post digestion spike for GFAA out of control E - Serial dilution difference out of control

M Qualifier: P - ICP A - FLAA F - GFAA CV - Cold Vapor

25810

Applied P & Ch Laboratory

Metal Analysis Results

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	08/22/97
Project ID:	UST 314	Service ID:	973720	Collected by:	
		Lab Sample ID:	97-3720-4	Received Date:	08/22/97
Sample ID:	18609-314B-422	Sample Matrix	Soil	Moisture %:	17.6
Sample Type:	Field Sample				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF.	Method
LEAD, PB	7439-92-1	mg/kg	0.24	3.9 [a]		P	E	97M2348M	09/19/97	09/19/97	1	6010

[a] Additional analysis requested on 09/17/97.

Note: RL: PQL (EQL) or CRDL D-Date: Digestion Date; A-Date: Analysis Date; DF: Dilution Factor

C Qualifier: U - Not Detected or less than IDL B - Less than RL (PQL, EQL or CRDL), but greater than IDL.

Q Qualifier: N - Spike recovery out of control * - Duplicate analysis out of control

W - Post digestion spike for GFAA out of control E - Serial dilution difference out of control

M Qualifier: P - ICP A - FLAA F - GFAA CV - Cold Vapor

25811

Applied P & Ch Laboratory
13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

Case Narrative

Project: UST 314 /18609

For OHM Remediation Services (Irvine)

APCL Service No: 097-2798

1. Sample Identification

The sample identifications are listed in the following table:

OHM Remediation Services (Irvine) Sample ID	APCL Sample ID
18609-314-336	97-02798-1
18609-314-337	97-02798-2
18609-314-338	97-02798-3
18609-314-339	97-02798-4
18609-314-340	97-02798-5
18609-314-341	97-02798-6

2. Analytical Methodology

Samples are analyzed by EPA methods

8260 (Volatile organics),
M8015V/M8015G (TPH: Gasoline),
M8015E/M8015D (TPH: Diesel),
M8015E/M8015M (TPH: Motor Oil),
ASTM-D2216 (Moisture, percent in soil),
7420 (Lead, Pb,),

3. Holding Time

Samples were extracted, digested and analyzed within the holding times defined by the appropriate EPA methods of the analyses.

4. Tele-log

On 6/30/97 Dwayne Ishida requested that samples 18609-314-339, 18609-314-341,18609-314-345,and 18609-314-347 be analyzed for total lead.

5. Notes

Sample 18609-314-337 contains 1124 μg/L of tetrahydrofuran.

6. Anomaly

Nothing unusual happened during the analyses.

Respectfully submitted,

Dominic Lau
Laboratory Director

OHM Remediation Services Corp.

CHAIN-OF-CUSTODY RECORD

Field Technical Re

202381

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

1 of 1

PROJECT NAME: UST 314

PROJECT LOCATION: M.C.A.S. EL TORO

PROJ. NO.: 18609

PROJECT CONTACT: DWAYNE ISHIDA

PROJECT TELEPHONE NO.: (714) 263-1140

CLIENT'S REPRESENTATIVE: LYNN HORNECKER-SWDIV

PROJECT MANAGER/SUPERVISOR: Bill SEDLAK-OHM

A.P.C.L. Chino Hills, CA

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	8240	TPH Purgeable	TPH Extractable	1312					REMARKS
1	18609-314-336	6/10/97	0815		X	Trip Blank for 6/10/97	2	X	X							
2	18609-314-337	6/10/97	1105		X	Rinsate for UST 314	5	X	X	X						
3	18609-314-338	6/10/97	1020		X	314-SB-01 @ 15'-15.5	1	X	X	X	X					
4	18609-314-339	6/10/97	1038		X	314-SB-01 @ 30'-30.5	1	X	X	X	X					
5	18609-314-340	6/10/97	1227		X	314-SB-02 @ 15.5'-16.0'	1	X	X	X	X					
6	18609-314-341	6/10/97	1338		X	314-SB02 @ 40'-40.5'	1	X	X	X	X					
7																
8																
9																
10																

6/10/97

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1	1-6	OHM	[signature]	6/10/97	1425
2					
3					

REMARKS: APCL courier pickup

5 day TAT

35102

Applied P & Ch Laboratory

Organic Analysis Results for Method M8015E

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	06/12/97
Project ID:	UST 314	Service ID:	972798	Collected by:	
		Lab Sample ID:	97G2721-MB-01	Received Date:	06/12/97
Sample ID:	97G2721-MB-01	Sample Matrix	Soil	Moisture %:	
Sample Type:	Method Blank	Prep. Method:	3550	Instrument ID:	GC: H
Anal. Method:	M8015E	Prep. Date:	06/12/97	Anal. Date:	06/14/97
Batch No:	97G2721	Prep. No:	1 of 1	Anal. Time:	00:21
Data File Name:	2721G.K01	Sample Amount:	20.0 g	Dilution Factor:	1
Extract Vol.	1.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	TPH AS DIESEL	68334-30-5	mg/kg	10	<10	U
2	TPH AS MOTOR OIL	TBD-0002	mg/kg	10	<10	U

Surrogates			Control Limit, %	Surro. Rec.%
1	HEXACOSANE, C_{26}	630-01-3	50-146	83
# of out-of-control				0

Not Detected (N.D.) is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

35216

Applied P & Ch Laboratory

Organic Analysis Results for Method M8015E

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	06/12/97
Project ID:	UST 314	Service ID:	972798	Collected by:	
		Lab Sample ID:	97G2726-MB-01	Received Date:	06/12/97
Sample ID:	**97G2726-MB-01**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Method Blank	Prep. Method:	3510	Instrument ID:	GC: W
Anal. Method:	M8015E	Prep. Date:	06/12/97	Anal. Date:	06/14/97
Batch No:	97G2726	Prep. No:	1 of 1	Anal. Time:	14:40
Data File Name:	2726G.K01	Sample Amount:	1000 mL	Dilution Factor:	1
Extract Vol.	1.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	TPH AS DIESEL	68334-30-5	mg/L	0.5	< 0.5	U
2	TPH AS MOTOR OIL	TBD-0002	mg/L	0.5	< 0.5	U

Surrogates			Control Limit, %	Surro. Rec.%
1	HEXACOSANE, C_{26}	630-01-3	50-149	108
# of out-of-control				0

Not Detected (N.D.) is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

35217

Applied P & Ch Laboratory

Organic Analysis Results for Method M8015E

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	06/10/97
Project ID:	UST 314	Service ID:	972798	Collected by:	
		Lab Sample ID:	97-2798-2	Received Date:	06/10/97
Sample ID:	**18609-314-337**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	3510	Instrument ID:	GC: W
Anal. Method:	M8015E	Prep. Date:	06/12/97	Anal. Date:	06/14/97
Batch No:	97G2726	Prep. No:	1 of 1	Anal. Time:	20:03
Data File Name:	2798.002	Sample Amount:	1000 mL	Dilution Factor:	1
Extract Vol.	1.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	TPH AS DIESEL	68334-30-5	mg/L	0.5	<0.5	U
2	TPH AS MOTOR OIL	TBD-0002	mg/L	0.5	<0.5	U

Surrogates			Control Limit, %	Surro. Rec.%
1	HEXACOSANE, C_{26}	630-01-3	50-149	105
# of out-of-control				0

Not Detected (N.D.) is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

35218

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Organic Analysis Results for Method M8015E

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	06/10/97
Project ID:	UST 314	Service ID:	972798	Collected by:	
		Lab Sample ID:	97-2798-3	Received Date:	06/10/97
Sample ID:	**18609-314-338**	Sample Matrix	Soil	Moisture %:	10.5
Sample Type:	Field Sample	Prep. Method:	3550	Instrument ID:	GC: H
Anal. Method:	M8015E	Prep. Date:	06/12/97	Anal. Date:	06/14/97
Batch No:	97G2721	Prep. No:	1 of 1	Anal. Time:	02:53
Data File Name:	2798.003	Sample Amount:	20.0 g	Dilution Factor:	1
Extract Vol.	1.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	TPH AS DIESEL	68334-30-5	mg/kg	11	<11	U
2	TPH AS MOTOR OIL	TBD-0002	mg/kg	11	<11	U

Surrogates			Control Limit, %	Surro. Rec.%
1	HEXACOSANE, C_{26}	630-01-3	50-146	82
# of out-of-control				0

Not Detected (N.D.) is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

Applied P & Ch Laboratory

Organic Analysis Results for Method M8015E

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	06/10/97
Project ID:	UST 314	Service ID:	972798	Collected by:	
		Lab Sample ID:	97-2798-4	Received Date:	06/10/97
Sample ID:	18609-314-339	Sample Matrix	Soil	Moisture %:	12.7
Sample Type:	Field Sample	Prep. Method:	3550	Instrument ID:	GC: H
Anal. Method:	M8015E	Prep. Date:	06/12/97	Anal. Date:	06/14/97
Batch No:	97G2721	Prep. No:	1 of 1	Anal. Time:	03:19
Data File Name:	2798.004	Sample Amount:	20.0 g	Dilution Factor:	1
Extract Vol.	1.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	TPH AS DIESEL	68334-30-5	mg/kg	11	<11	U
2	TPH AS MOTOR OIL	TBD-0002	mg/kg	11	<11	U

Surrogates			Control Limit, %	Surro. Rec.%
1	HEXACOSANE, C_{26}	630-01-3	50-146	103
# of out-of-control				0

Not Detected (N.D.) is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

35220

Applied P & Ch Laboratory

Organic Analysis Results for Method M8015E

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	06/10/97
Project ID:	UST 314	Service ID:	972798	Collected by:	
		Lab Sample ID:	97-2798-5	Received Date:	06/10/97
Sample ID:	**18609-314-340**	Sample Matrix	Soil	Moisture %:	4.3
Sample Type:	Field Sample	Prep. Method:	3550	Instrument ID:	GC: H
Anal. Method:	M8015E	Prep. Date:	06/12/97	Anal. Date:	06/14/97
Batch No:	97G2721	Prep. No:	1 of 1	Anal. Time:	03:44
Data File Name:	2798.005	Sample Amount:	20.0 g	Dilution Factor:	1
Extract Vol.	1.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	TPH AS DIESEL	68334-30-5	mg/kg	10	<10	U
2	TPH AS MOTOR OIL	TBD-0002	mg/kg	10	<10	U

Surrogates			Control Limit, %	Surro. Rec.%
1	HEXACOSANE, C_{26}	630-01-3	50-146	106
# of out-of-control				0

Not Detected (N.D.) is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

Applied P & Ch Laboratory

Organic Analysis Results for Method M8015E

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	06/10/97
Project ID:	UST 314	Service ID:	972798	Collected by:	
		Lab Sample ID:	97-2798-6	Received Date:	06/10/97
Sample ID:	**18609-314-341**	Sample Matrix	Soil	Moisture %:	5.9
Sample Type:	Field Sample	Prep. Method:	3550	Instrument ID:	GC: H
Anal. Method:	M8015E	Prep. Date:	06/12/97	Anal. Date:	06/14/97
Batch No:	97G2721	Prep. No:	1 of 1	Anal. Time:	04:09
Data File Name:	2798.006	Sample Amount:	20.0 g	Dilution Factor:	1
Extract Vol.	1.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	TPH AS DIESEL	68334-30-5	mg/kg	11	<11	U
2	TPH AS MOTOR OIL	TBD-0002	mg/kg	11	<11	U

Surrogates			Control Limit, %	Surro. Rec.%
1	HEXACOSANE, C_{26}	630-01-3	50-146	100
# of out-of-control				0

Not Detected (N.D.) is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Surrogate Recovery Summary for Method M8015E

Client Name:	OHM Remediation Services (Irvine)	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	972798
Project ID:	UST 314	Project No:	18609	Sample Matrix:	Water
		Batch No:	97G2726		

#	Client Sample No	Lab Sample ID	S1 % #	TOT OUT
1	97G2726-MB-01	97G2726-MB-01	108	0
2	97G2726-LCS-01	97G2726-LCS-01	108	0
3	97G2726-LSD-01	97G2726-LSD-01	112	0
4	18609-314-337	97-2798-2	105	0
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				

QC Control Limit

S1 = HEXACOSANE, C_{26} 50-149

Column to be used to flag recovery values:

* - Values outside of contract required QC Limits D - Surrogate diluted out I - Matrix Interference

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Organic Analysis Results for Method M8015V

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	06/11/97
Project ID:	UST 314	Service ID:	972798	Collected by:	
		Lab Sample ID:	97G2699-MB-01	Received Date:	06/11/97
Sample ID:	**97G2699-MB-01**	Sample Matrix	Soil	Moisture %:	
Sample Type:	Method Blank	Prep. Method:	5030	Instrument ID:	GC: B
Anal. Method:	M8015V	Prep. Date:	06/11/97	Anal. Date:	06/11/97
Batch No:	97G2699	Prep. No:	–	Anal. Time:	11:10
Data File Name:	2699G.K01	Sample Amount:	1 g	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	GASOLINE	8006-61-9	mg/kg	1	<1	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (BFB)	460-00-4	70-132	83
# of out-of-control				0

Not Detected (N.D.) is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

35109

Applied P & Ch Laboratory

Organic Analysis Results for Method M8015V

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	06/13/97
Project ID:	UST 314	Service ID:	972798	Collected by:	
		Lab Sample ID:	97G2730-MB-02	Received Date:	06/13/97
Sample ID:	**97G2730-MB-02**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Method Blank	Prep. Method:	5030	Instrument ID:	GC: N
Anal. Method:	M8015V	Prep. Date:	06/13/97	Anal. Date:	06/13/97
Batch No:	97G2730	Prep. No:	–	Anal. Time:	14:40
Data File Name:	2730G.K02	Sample Amount:	5 mL	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	N

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	GASOLINE	8006-61-9	mg/L	0.05	<0.05	U

Surrogates		Control Limit, %	Surro. Rec.%
1 4-BROMO-FLUOROBENZENE (BFB)	460-00-4	68-124	84
# of out-of-control			0

Not Detected (N.D.) is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

35110

Applied P & Ch Laboratory

Organic Analysis Results for Method M8015V

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	06/10/97
Project ID:	UST 314	Service ID:	972798	Collected by:	
		Lab Sample ID:	97-2798-2	Received Date:	06/10/97
Sample ID:	**18609-314-337**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC: N
Anal.. Method:	M8015V	Prep. Date:	06/13/97	Anal. Date:	06/13/97
Batch No:	97G2730	Prep. No:	–	Anal. Time:	16:44
Data File Name:	2798.002	Sample Amount:	5 mL	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	N

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	GASOLINE	8006-61-9	mg/L	0.05	<0.05	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (BFB)	460-00-4	68-124	89
# of out-of-control				0

Not Detected (N.D.) is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Applied P & Ch Laboratory

Organic Analysis Results for Method M8015V

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	06/10/97
Project ID:	UST 314	Service ID:	972798	Collected by:	
		Lab Sample ID:	97-2798-3	Received Date:	06/10/97
Sample ID:	**18609-314-338**	Sample Matrix	Soil	Moisture %:	10.5
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC: B
Anal. Method:	M8015V	Prep. Date:	06/11/97	Anal. Date:	06/11/97
Batch No:	97G2699	Prep. No:	–	Anal. Time:	17:05
Data File Name:	2798.003	Sample Amount:	1 g	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	GASOLINE	8006-61-9	mg/kg	1.1	<1.1	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (BFB)	460-00-4	70-132	82
# of out-of-control				0

Not Detected (N.D.) is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Applied P & Ch Laboratory

Organic Analysis Results for Method M8015V

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	06/10/97
Project ID:	UST 314	Service ID:	972798	Collected by:	
		Lab Sample ID:	97-2798-4	Received Date:	06/10/97
Sample ID:	**18609-314-339**	Sample Matrix	Soil	Moisture %:	12.7
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC: B
Anal. Method:	M8015V	Prep. Date:	06/11/97	Anal. Date:	06/11/97
Batch No:	97G2699	Prep. No:	–	Anal. Time:	17:31
Data File Name:	2798.004	Sample Amount:	1 g	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	GASOLINE	8006-61-9	mg/kg	1.1	< 1.1	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (BFB)	460-00-4	70-132	82
# of out-of-control				0

Not Detected (N.D.) is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Applied P & Ch Laboratory

Organic Analysis Results for Method M8015V

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	06/10/97
Project ID:	UST 314	Service ID:	972798	Collected by:	
		Lab Sample ID:	97-2798-5	Received Date:	06/10/97
Sample ID:	**18609-314-340**	Sample Matrix	Soil	Moisture %:	4.3
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC: B
Anal. Method:	M8015V	Prep. Date:	06/11/97	Anal. Date:	06/11/97
Batch No:	97G2699	Prep. No:	–	Anal. Time:	17:56
Data File Name:	2798.005	Sample Amount:	1 g	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	GASOLINE	8006-61-9	mg/kg	1.0	<1.0	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (BFB)	460-00-4	70-132	81
# of out-of-control				0

Not Detected (N.D.) is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

35115

Applied P & Ch Laboratory

Organic Analysis Results for Method M8015V

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	06/10/97
Project ID:	UST 314	Service ID:	972798	Collected by:	
		Lab Sample ID:	97-2798-6	Received Date:	06/10/97
Sample ID:	**18609-314-341**	Sample Matrix	Soil	Moisture %:	5.9
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC: B
Anal. Method:	M8015V	Prep. Date:	06/11/97	Anal. Date:	06/11/97
Batch No:	97G2699	Prep. No:	–	Anal. Time:	14:02
Data File Name:	2798.006	Sample Amount:	1 g	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	GASOLINE	8006-61-9	mg/kg	1.1	<1.1	U

Surrogates		Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (BFB) 460-00-4	70-132	85
# of out-of-control			0

Not Detected (N.D.) is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

35116

Applied P & Ch Laboratory

Surrogate Recovery Summary for Method M8015V

Client Name:	OHM Remediation Services (Irvine)	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	972798
Project ID:	UST 314	Project No:	18609	Sample Matrix:	Water
		Batch No:	97G2730		

#	Client Sample No	Lab Sample ID	S1 % #	TOT OUT
1	97G2730-MB-02	97G2730-MB-02	84	0
2	97G2730-LCS-01	97G2730-LCS-01	91	0
3	97G2730-LSD-01	97G2730-LSD-01	94	0
4	18609-314-337-MS	97-2798-2MS	89	0
5	18609-314-337-MSD	97-2798-2MSD	93	0
6	18609-314-337	97-2798-2	89	0
7	18609-314-336	97-2798-1	86	0
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				

	QC Control Limit
S1 = 4-BROMO-FLUOROBENZENE (BFB)	68-124

Column to be used to flag recovery values:

* - Values outside of contract required QC Limits D - Surrogate diluted out I - Matrix Interference

35117

Applied P & Ch Laboratory

Surrogate Recovery Summary for Method M8015V

Client Name:	OHM Remediation Services (Irvine)	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	972798
Project ID:	UST 314	Project No:	18609	Sample Matrix:	Soil
		Batch No:	97G2699		

#	Client Sample No	Lab Sample ID	S1 % #	TOT OUT
1	97G2699-MB-01	97G2699-MB-01	83	0
2	97G2699-LCS-01	97G2699-LCS-01	103	0
3	97G2699-LSD-01	97G2699-LSD-01	98	0
4	18609-314-341-MS	97-2798-6MS	98	0
5	18609-314-341-MSD	97-2798-6MSD	103	0
6	18609-314-341	97-2798-6	85	0
7	18609-314-338	97-2798-3	82	0
8	18609-314-339	97-2798-4	82	0
9	18609-314-340	97-2798-5	81	0
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				

	QC Control Limit
S1 = 4-BROMO-FLUOROBENZENE (BFB)	70-132

Column to be used to flag recovery values:

* – Values outside of contract required QC Limits D – Surrogate diluted out I – Matrix Interference

35118

Applied P & Ch Laboratory

Lab Control Spike/Lab Control Spike Duplicate Recovery for Method M8015V

Client Name:	OHM Remediation Services (Irvine)	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	972798
Project ID:	UST 314	Project No:	18609	Sample Matrix:	Water
		Batch No:	97G2730		
LCS Filename:	2730G.L01	Date Analyzed:	061397	Time Analyzed:	15:05
LCSD Filename:	2730G.J01	Date Analyzed:	061397	Time Analyzed:	15:29

Spiked Components	Unit	Spike Added	Concentration Unspiked	Concentration LCS	LCS Rec% #	QC Limit, % REC
GASOLINE	mg/L	1	0	0.802	80	75-122
# of Out-of-control					0	

Spiked Components	Unit	Spike Added	LCSD Concentration	LCSD Rec% #	RPD% #	QC Limit, % RPD	QC Limit, % REC
GASOLINE	mg/L	1	0.835	84	5	23	75-122
# of Out-of-control				0	0		

Column to be used to flag recovery and RPD values:

* – Values outside of contract required QC Limits D – Spiked components diluted out

Comments: _____

35119

3A

Applied P & Ch Laboratory

Matrix Spike/Matrix Spike Duplicate Recovery for Method M8015V

Client Name:	OHM Remediation Services (Irvine)	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	972798
Project ID:	UST 314	Project No:	18609	Sample Matrix:	Water
		Batch No:	97G2730		
MS Filename:	2730G.M01	Date Analyzed:	061397	Time Analyzed:	15:54
MSD Filename:	2730G.N01	Date Analyzed:	061397	Time Analyzed:	16:19
MS Sample No:	**18609-314-337**	Sample Lab ID:	97-2798-2		

Spiked Components	Unit	Spike Added	Concentration Unspiked	MS	MS Rec% #	QC Limit, % REC
GASOLINE	mg/L	1	0	0.921	92	75-120
# of Out-of-control					0	

Spiked Components	Unit	Spike Added	MSD Concentration	MSD Rec% #	RPD% #	QC Limit, % RPD	REC
GASOLINE	mg/L	1	0.944	94	2	23	75-120
# of Out-of-control				0	0		

Column to be used to flag recovery and RPD values:

* – Values outside of contract required QC Limits D – Spiked components diluted out

Comments: _____

35120

Applied P & Ch Laboratory

Lab Control Spike/Lab Control Spike Duplicate Recovery for Method M8015V

Client Name:	OHM Remediation Services (Irvine)	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	972798
Project ID:	UST 314	Project No:	18609	Sample Matrix:	Soil
		Batch No:	97G2699		
LCS Filename:	2699G.L01	Date Analyzed:	061197	Time Analyzed:	11:36
LCSD Filename:	2699G.J01	Date Analyzed:	061197	Time Analyzed:	12:01

Spiked Components	Unit	Spike Added	Concentration Unspiked	Concentration LCS	LCS Rec% #	QC Limit, % REC
GASOLINE	mg/kg	5	0	5.15	103	77-122
# of Out-of-control					0	

Spiked Components	Unit	Spike Added	LCSD Concentration	LCSD Rec% #	RPD% #	QC Limit, % RPD	QC Limit, % REC
GASOLINE	mg/kg	5	4.82	96	7	31	77-122
# of Out-of-control				0	0		

Column to be used to flag recovery and RPD values:

* – Values outside of contract required QC Limits D – Spiked components diluted out

Comments: _____

35121

3B

Applied P & Ch Laboratory

Matrix Spike/Matrix Spike Duplicate Recovery for Method M8015V

Client Name:	OHM Remediation Services (Irvine)	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	972798
Project ID:	UST 314	Project No:	18609	Sample Matrix:	Soil
		Batch No:	97G2699		
MS Filename:	2699G.M01	Date Analyzed:	061197	Time Analyzed:	12:45
MSD Filename:	2699G.N01	Date Analyzed:	061197	Time Analyzed:	13:11
MS Sample No:	**18609-314-341**	Sample Lab ID:	97-2798-6	Moisture, %	5.9

Spiked Components	Unit	Spike Added	Concentration Unspiked	Concentration MS	MS Rec% #	QC Limit, % REC
GASOLINE	mg/kg	5.31	0	5.12	96	65-127
# of Out-of-control					0	

Spiked Components	Unit	Spike Added	MSD Concentration	MSD Rec% #	RPD% #	QC Limit, % RPD	QC Limit, % REC
GASOLINE	mg/kg	5.31	5.05	95	1	31	65-127
# of Out-of-control				0	0		

Column to be used to flag recovery and RPD values:

* – Values outside of contract required QC Limits D – Spiked components diluted out

Comments: _____

35122

Applied P & Ch Laboratory

Metal Analysis Results

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	06/10/97
Project ID:	UST 314	Service ID:	972798	Collected by:	
		Lab Sample ID:	97-2798-4	Received Date:	06/10/97
Sample ID:	**18609-314-339**	Sample Matrix	Soil	Moisture %:	12.7
Sample Type:	Field Sample .				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
LEAD (TOTAL)	7439-92-1	mg/kg	5.7	<2.1 [a]	U	A		97M1948F	07/02/97	07/02/97	1	7420

Not Detected (N.D.) is shown as IDL moisture-corrected if applicable

[a] Additional analysis requested on 06/30/97.

Note: RL: PQL (EQL) or CRDL D-Date: Digestion Date; A-Date: Analysis Date; DF: Dilution Factor

C Qualifier: U - Not Detected or less than IDL B - Less than RL (PQL, EQL or CRDL), but greater than IDL.

Q Qualifier: N - Spike recovery out of control * - Duplicate analysis out of control

W - Post digestion spike for GFAA out of control E - Serial dilution difference out of control

M Qualifier: P - ICP A - FLAA F - GFAA CV - Cold Vapor

Applied P & Ch Laboratory

Metal Analysis Results

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	06/10/97
Project ID:	UST 314	Service ID:	972798	Collected by:	
		Lab Sample ID:	97-2798-6	Received Date:	06/10/97
Sample ID:	**18609-314-341**	Sample Matrix	Soil	Moisture %:	5.9
Sample Type:	Field Sample				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
LEAD (TOTAL)	7439-92-1	mg/kg	5.3	<2.1 [a]	U	A		97M1948F	07/02/97	07/02/97	1	7420

Not Detected (N.D.) is shown as IDL moisture-corrected if applicable

[a] Additional analysis requested on 06/30/97.

Note: RL: PQL (EQL) or CRDL D-Date: Digestion Date; A-Date: Analysis Date; DF: Dilution Factor

C Qualifier: U - Not Detected or less than IDL B - Less than RL (PQL, EQL or CRDL), but greater than IDL.

Q Qualifier: N - Spike recovery out of control * - Duplicate analysis out of control

W - Post digestion spike for GFAA out of control E - Serial dilution difference out of control

M Qualifier: P - ICP A - FLAA F - GFAA CV - Cold Vapor

Applied P & Ch Laboratory

Organic Analysis Results for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	06/12/97
Project ID:	UST 314	Service ID:	972798	Collected by:	
		Lab Sample ID:	97G2725-MB-01	Received Date:	06/12/97
Sample ID:	**97G2725-MB-01**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Method Blank	Prep. Method:	5030	Instrument ID:	GC/MS: C
Anal. Method:	8260	Prep. Date:	06/12/97	Anal. Date:	06/12/97
Batch No:	97G2725	Prep. No:	–	Anal. Time:	18:10
Data File Name:	G2725K01	Sample Amount:	5 mL	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N) N	

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	BENZENE	71-43-2	µg/L	5	<5	U
2	BROMOBENZENE	108-86-1	µg/L	5	<5	U
3	BROMOCHLOROMETHANE	74-97-5	µg/L	5	<5	U
4	BROMODICHLOROMETHANE	75-27-4	µg/L	5	<5	U
5	BROMOFORM	75-25-2	µg/L	5	<5	U
6	BROMOMETHANE	74-83-9	µg/L	5	<5	U
7	N-BUTYLBENZENE	104-51-8	µg/L	5	<5	U
8	SEC-BUTYLBENZENE	135-98-8	µg/L	5	<5	U
9	TERT-BUTYLBENZENE	98-06-6	µg/L	5	<5	U
10	CARBON TETRACHLORIDE	56-23-5	µg/L	5	<5	U
11	CHLOROBENZENE	108-90-7	µg/L	5	<5	U
12	DIBROMOCHLOROMETHANE	124-48-1	µg/L	5	<5	U
13	CHLOROETHANE	75-00-3	µg/L	5	<5	U
14	CHLOROFORM	67-66-3	µg/L	5	<5	U
15	CHLOROMETHANE	74-87-3	µg/L	5	<5	U
16	2-CHLOROTOLUENE	95-49-8	µg/L	5	<5	U
17	4-CHLOROTOLUENE	106-43-4	µg/L	5	<5	U
18	ISOPROPYLBENZENE (CUMENE)	98-82-8	µg/L	5	<5	U
19	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	µg/L	5	<5	U
20	1,2-DIBROMOETHANE (EDB)	106-93-4	µg/L	5	<5	U
21	DIBROMOMETHANE	74-95-3	µg/L	5	<5	U
22	1,2-DICHLOROBENZENE	95-50-1	µg/L	5	<5	U
23	1,3-DICHLOROBENZENE	541-73-1	µg/L	5	<5	U
24	1,4-DICHLOROBENZENE	106-46-7	µg/L	5	<5	U
25	DICHLORODIFLUOROMETHANE	75-71-8	µg/L	5	<5	U
26	1,1-DICHLOROETHANE	75-34-3	µg/L	5	<5	U
27	1,2-DICHLOROETHANE	107-06-2	µg/L	5	<5	U
28	1,1-DICHLOROETHENE	75-35-4	µg/L	5	<5	U
29	CIS-1,2-DICHLOROETHENE	156-59-2	µg/L	5	<5	U
30	TRANS-1,2-DICHLOROETHENE	156-60-5	µg/L	5	<5	U
31	1,2-DICHLOROPROPANE	78-87-5	µg/L	5	<5	U
32	1,3-DICHLOROPROPANE	142-28-9	µg/L	5	<5	U
33	2,2-DICHLOROPROPANE	594-20-7	µg/L	5	<5	U
34	1,1-DICHLOROPROPENE	563-58-6	µg/L	5	<5	U
35	CIS-1,3-DICHLOROPROPENE	10061-01-5	µg/L	5	<5	U
36	ETHYLBENZENE	100-41-4	µg/L	5	<5	U
37	HEXACHLOROBUTADIENE	87-68-3	µg/L	5	<5	U
38	P-ISOPROPYLTOLUENE	99-87-6	µg/L	5	<5	U
39	METHYLENE CHLORIDE	75-09-2	µg/L	5	<5	U

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#	Component Name	CAS No	Unit	RL	Result	Qualifier
40	NAPHTHALENE	91-20-3	µg/L	5	<5	U
41	N-PROPYLBENZENE	103-65-1	µg/L	5	<5	U
42	STYRENE	100-42-5	µg/L	5	<5	U
43	1,1,1,2-TETRACHLOROETHANE	630-20-6	µg/L	5	<5	U
44	1,1,2,2-TETRACHLOROETHANE	79-34-5	µg/L	5	<5	U
45	TETRACHLOROETHENE	127-18-4	µg/L	5	<5	U
46	TOLUENE	108-88-3	µg/L	5	<5	U
47	1,2,3-TRICHLOROBENZENE	87-61-6	µg/L	5	<5	U
48	1,2,4-TRICHLOROBENZENE	120-82-1	µg/L	5	<5	U
49	1,1,1-TRICHLOROETHANE	71-55-6	µg/L	5	<5	U
50	1,1,2-TRICHLOROETHANE	79-00-5	µg/L	5	<5	U
51	TRICHLOROETHENE	79-01-6	µg/L	5	<5	U
52	TRICHLOROFLUOROMETHANE	75-69-4	µg/L	5	<5	U
53	1,2,3-TRICHLOROPROPANE	96-18-4	µg/L	5	<5	U
54	1,2,4-TRIMETHYLBENZENE	95-63-6	µg/L	5	<5	U
55	1,3,5-TRIMETHYLBENZENE	108-67-8	µg/L	5	<5	U
56	VINYL CHLORIDE	75-01-4	µg/L	5	<5	U
57	O-XYLENE	95-47-6	µg/L	5	<5	U
58	M/P-XYLENE	108-38-3	µg/L	5	<5	U
59	XYLENES (TOTAL)	1330-20-7	µg/L	5	<5	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (BFB)	460-00-4	89-111	94
2	DIBROMOFLUOROMETHANE	1868-53-7	86-117	104
3	1,2-DICHLOROETHANE-D4	17060-07-0	81-113	103
4	TOLUENE-D8	2037-26-5	88-109	90
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	CHLOROBENZENE-D5	3114-55-4	50-200	104
2	1,4-DICHLOROBENZENE-D4	3855-82-1	50-200	99
3	FLUOROBENZENE	462-06-6	50-200	99
# of out-of-control				0

Not Detected (N.D.) is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	06/13/97
Project ID:	UST 314	Service ID:	972798	Collected by:	
		Lab Sample ID:	97G2725-MB-02	Received Date:	06/13/97
Sample ID:	97G2725-MB-02	Sample Matrix	Water	Moisture %:	–
Sample Type:	Method Blank	Prep. Method:	5030	Instrument ID:	GC/MS: C
Anal. Method:	8260	Prep. Date:	06/13/97	Anal. Date:	06/13/97
Batch No:	97G2725	Prep. No:	–	Anal. Time:	04:40
Data File Name:	G2725K02	Sample Amount:	5 mL	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N) N	

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	BENZENE	71-43-2	µg/L	5	<5	U
2	BROMOBENZENE	108-86-1	µg/L	5	<5	U
3	BROMOCHLOROMETHANE	74-97-5	µg/L	5	<5	U
4	BROMODICHLOROMETHANE	75-27-4	µg/L	5	<5	U
5	BROMOFORM	75-25-2	µg/L	5	<5	U
6	BROMOMETHANE	74-83-9	µg/L	5	<5	U
7	N-BUTYLBENZENE	104-51-8	µg/L	5	<5	U
8	SEC-BUTYLBENZENE	135-98-8	µg/L	5	<5	U
9	TERT-BUTYLBENZENE	98-06-6	µg/L	5	<5	U
10	CARBON TETRACHLORIDE	56-23-5	µg/L	5	<5	U
11	CHLOROBENZENE	108-90-7	µg/L	5	<5	U
12	DIBROMOCHLOROMETHANE	124-48-1	µg/L	5	<5	U
13	CHLOROETHANE	75-00-3	µg/L	5	<5	U
14	CHLOROFORM	67-66-3	µg/L	5	<5	U
15	CHLOROMETHANE	74-87-3	µg/L	5	<5	U
16	2-CHLOROTOLUENE	95-49-8	µg/L	5	<5	U
17	4-CHLOROTOLUENE	106-43-4	µg/L	5	<5	U
18	ISOPROPYLBENZENE (CUMENE)	98-82-8	µg/L	5	<5	U
19	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	µg/L	5	<5	U
20	1,2-DIBROMOETHANE (EDB)	106-93-4	µg/L	5	<5	U
21	DIBROMOMETHANE	74-95-3	µg/L	5	<5	U
22	1,2-DICHLOROBENZENE	95-50-1	µg/L	5	<5	U
23	1,3-DICHLOROBENZENE	541-73-1	µg/L	5	<5	U
24	1,4-DICHLOROBENZENE	106-46-7	µg/L	5	<5	U
25	DICHLORODIFLUOROMETHANE	75-71-8	µg/L	5	<5	U
26	1,1-DICHLOROETHANE	75-34-3	µg/L	5	<5	U
27	1,2-DICHLOROETHANE	107-06-2	µg/L	5	<5	U
28	1,1-DICHLOROETHENE	75-35-4	µg/L	5	<5	U
29	CIS-1,2-DICHLOROETHENE	156-59-2	µg/L	5	<5	U
30	TRANS-1,2-DICHLOROETHENE	156-60-5	µg/L	5	<5	U
31	1,2-DICHLOROPROPANE	78-87-5	µg/L	5	<5	U
32	1,3-DICHLOROPROPANE	142-28-9	µg/L	5	<5	U
33	2,2-DICHLOROPROPANE	594-20-7	µg/L	5	<5	U
34	1,1-DICHLOROPROPENE	563-58-6	µg/L	5	<5	U
35	CIS-1,3-DICHLOROPROPENE	10061-01-5	µg/L	5	<5	U
36	ETHYLBENZENE	100-41-4	µg/L	5	<5	U
37	HEXACHLOROBUTADIENE	87-68-3	µg/L	5	<5	U
38	P-ISOPROPYLTOLUENE	99-87-6	µg/L	5	<5	U
39	METHYLENE CHLORIDE	75-09-2	µg/L	5	<5	U

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#	Component Name	CAS No	Unit	RL	Result	Qualifier
40	NAPHTHALENE	91-20-3	µg/L	5	<5	U
41	N-PROPYLBENZENE	103-65-1	µg/L	5	<5	U
42	STYRENE	100-42-5	µg/L	5	<5	U
43	1,1,1,2-TETRACHLOROETHANE	630-20-6	µg/L	5	<5	U
44	1,1,2,2-TETRACHLOROETHANE	79-34-5	µg/L	5	<5	U
45	TETRACHLOROETHENE	127-18-4	µg/L	5	<5	U
46	TOLUENE	108-88-3	µg/L	5	<5	U
47	1,2,3-TRICHLOROBENZENE	87-61-6	µg/L	5	<5	U
48	1,2,4-TRICHLOROBENZENE	120-82-1	µg/L	5	<5	U
49	1,1,1-TRICHLOROETHANE	71-55-6	µg/L	5	<5	U
50	1,1,2-TRICHLOROETHANE	79-00-5	µg/L	5	<5	U
51	TRICHLOROETHENE	79-01-6	µg/L	5	<5	U
52	TRICHLOROFLUOROMETHANE	75-69-4	µg/L	5	<5	U
53	1,2,3-TRICHLOROPROPANE	96-18-4	µg/L	5	<5	U
54	1,2,4-TRIMETHYLBENZENE	95-63-6	µg/L	5	<5	U
55	1,3,5-TRIMETHYLBENZENE	108-67-8	µg/L	5	<5	U
56	VINYL CHLORIDE	75-01-4	µg/L	5	<5	U
57	O-XYLENE	95-47-6	µg/L	5	<5	U
58	M/P-XYLENE	108-38-3	µg/L	5	<5	U
59	XYLENES (TOTAL)	1330-20-7	µg/L	5	<5	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (BFB)	460-00-4	89-111	92
2	DIBROMOFLUOROMETHANE	1868-53-7	86-117	98
3	1,2-DICHLOROETHANE-D4	17060-07-0	81-113	95
4	TOLUENE-D8	2037-26-5	88-109	93
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	CHLOROBENZENE-D5	3114-55-4	50-200	104
2	1,4-DICHLOROBENZENE-D4	3855-82-1	50-200	98
3	FLUOROBENZENE	462-06-6	50-200	105
# of out-of-control				0

Not Detected (N.D.) is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	06/11/97
Project ID:	UST 314	Service ID:	972798	Collected by:	
		Lab Sample ID:	97G2703-MB-01	Received Date:	06/11/97
Sample ID:	97G2703-MB-01	Sample Matrix	Soil	Moisture %:	
Sample Type:	Method Blank	Prep. Method:	5030	Instrument ID:	GC/MS: Q
Anal. Method:	8260	Prep. Date:	06/11/97	Anal. Date:	06/11/97
Batch No:	97G2703	Prep. No:	–	Anal. Time:	14:17
Data File Name:	G2703K01	Sample Amount:	5 g	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	BENZENE	71-43-2	µg/kg	5	<5	U
2	BROMOBENZENE	108-86-1	µg/kg	5	<5	U
3	BROMOCHLOROMETHANE	74-97-5	µg/kg	5	<5	U
4	BROMODICHLOROMETHANE	75-27-4	µg/kg	5	<5	U
5	BROMOFORM	75-25-2	µg/kg	5	<5	U
6	BROMOMETHANE	74-83-9	µg/kg	5	<5	U
7	N-BUTYLBENZENE	104-51-8	µg/kg	5	<5	U
8	SEC-BUTYLBENZENE	135-98-8	µg/kg	5	<5	U
9	TERT-BUTYLBENZENE	98-06-6	µg/kg	5	<5	U
10	CARBON TETRACHLORIDE	56-23-5	µg/kg	5	<5	U
11	CHLOROBENZENE	108-90-7	µg/kg	5	<5	U
12	DIBROMOCHLOROMETHANE	124-48-1	µg/kg	5	<5	U
13	CHLOROETHANE	75-00-3	µg/kg	5	<5	U
14	CHLOROFORM	67-66-3	µg/kg	5	<5	U
15	CHLOROMETHANE	74-87-3	µg/kg	5	<5	U
16	2-CHLOROTOLUENE	95-49-8	µg/kg	5	<5	U
17	4-CHLOROTOLUENE	106-43-4	µg/kg	5	<5	U
18	ISOPROPYLBENZENE (CUMENE)	98-82-8	µg/kg	5	<5	U
19	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	µg/kg	5	<5	U
20	1,2-DIBROMOETHANE (EDB)	106-93-4	µg/kg	5	<5	U
21	DIBROMOMETHANE	74-95-3	µg/kg	5	<5	U
22	1,2-DICHLOROBENZENE	95-50-1	µg/kg	5	<5	U
23	1,3-DICHLOROBENZENE	541-73-1	µg/kg	5	<5	U
24	1,4-DICHLOROBENZENE	106-46-7	µg/kg	5	<5	U
25	DICHLORODIFLUOROMETHANE	75-71-8	µg/kg	5	<5	U
26	1,1-DICHLOROETHANE	75-34-3	µg/kg	5	<5	U
27	1,2-DICHLOROETHANE	107-06-2	µg/kg	5	<5	U
28	1,1-DICHLOROETHENE	75-35-4	µg/kg	5	<5	U
29	CIS-1,2-DICHLOROETHENE	156-59-2	µg/kg	5	<5	U
30	TRANS-1,2-DICHLOROETHENE	156-60-5	µg/kg	5	<5	U
31	1,2-DICHLOROPROPANE	78-87-5	µg/kg	5	<5	U
32	1,3-DICHLOROPROPANE	142-28-9	µg/kg	5	<5	U
33	2,2-DICHLOROPROPANE	594-20-7	µg/kg	5	<5	U
34	1,1-DICHLOROPROPENE	563-58-6	µg/kg	5	<5	U
35	CIS-1,3-DICHLOROPROPENE	10061-01-5	µg/kg	5	<5	U
36	ETHYLBENZENE	100-41-4	µg/kg	5	<5	U
37	HEXACHLOROBUTADIENE	87-68-3	µg/kg	5	<5	U
38	P-ISOPROPYLTOLUENE	99-87-6	µg/kg	5	<5	U
39	METHYLENE CHLORIDE	75-09-2	µg/kg	5	<5	U

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#	Component Name	CAS No	Unit	RL	Result	Qualifier
40	NAPHTHALENE	91-20-3	µg/kg	5	<5	U
41	N-PROPYLBENZENE	103-65-1	µg/kg	5	<5	U
42	STYRENE	100-42-5	µg/kg	5	<5	U
43	1,1,1,2-TETRACHLOROETHANE	630-20-6	µg/kg	5	<5	U
44	1,1,2,2-TETRACHLOROETHANE	79-34-5	µg/kg	5	<5	U
45	TETRACHLOROETHENE	127-18-4	µg/kg	5	<5	U
46	TOLUENE	108-88-3	µg/kg	5	<5	U
47	1,2,3-TRICHLOROBENZENE	87-61-6	µg/kg	5	<5	U
48	1,2,4-TRICHLOROBENZENE	120-82-1	µg/kg	5	<5	U
49	1,1,1-TRICHLOROETHANE	71-55-6	µg/kg	5	<5	U
50	1,1,2-TRICHLOROETHANE	79-00-5	µg/kg	5	<5	U
51	TRICHLOROETHENE	79-01-6	µg/kg	5	<5	U
52	TRICHLOROFLUOROMETHANE	75-69-4	µg/kg	5	<5	U
53	1,2,3-TRICHLOROPROPANE	96-18-4	µg/kg	5	<5	U
54	1,2,4-TRIMETHYLBENZENE	95-63-6	µg/kg	5	<5	U
55	1,3,5-TRIMETHYLBENZENE	108-67-8	µg/kg	5	<5	U
56	VINYL CHLORIDE	75-01-4	µg/kg	5	<5	U
57	O-XYLENE	95-47-6	µg/kg	5	<5	U
58	M/P-XYLENE	108-38-3	µg/kg	5	<5	U
59	XYLENES (TOTAL)	1330-20-7	µg/kg	5	<5	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (BFB)	460-00-4	86-114	102
2	DIBROMOFLUOROMETHANE	1868-53-7	85-116	96
3	1,2-DICHLOROETHANE-D4	17060-07-0	80-119	93
4	TOLUENE-D8	2037-26-5	81-116	97
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	CHLOROBENZENE-D5	3114-55-4	50-200	114
2	1,4-DICHLOROBENZENE-D4	3855-82-1	50-200	104
3	FLUOROBENZENE	462-06-6	50-200	115
# of out-of-control				0

Not Detected (N.D.) is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

Applied P & Ch Laboratory

Organic Analysis Results for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	06/12/97
Project ID:	UST 314	Service ID:	972798	Collected by:	
		Lab Sample ID:	97G2703-MB-02	Received Date:	06/12/97
Sample ID:	97G2703-MB-02	Sample Matrix	Soil	Moisture %:	
Sample Type:	Method Blank	Prep. Method:	5030	Instrument ID:	GC/MS: Q
Anal. Method:	8260	Prep. Date:	06/12/97	Anal. Date:	06/12/97
Batch No:	97G2703	Prep. No:	–	Anal. Time:	00:59
Data File Name:	G2703K02	Sample Amount:	5 g	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	BENZENE	71-43-2	µg/kg	5	<5	U
2	BROMOBENZENE	108-86-1	µg/kg	5	<5	U
3	BROMOCHLOROMETHANE	74-97-5	µg/kg	5	<5	U
4	BROMODICHLOROMETHANE	75-27-4	µg/kg	5	<5	U
5	BROMOFORM	75-25-2	µg/kg	5	<5	U
6	BROMOMETHANE	74-83-9	µg/kg	5	<5	U
7	N-BUTYLBENZENE	104-51-8	µg/kg	5	<5	U
8	SEC-BUTYLBENZENE	135-98-8	µg/kg	5	<5	U
9	TERT-BUTYLBENZENE	98-06-6	µg/kg	5	<5	U
10	CARBON TETRACHLORIDE	56-23-5	µg/kg	5	<5	U
11	CHLOROBENZENE	108-90-7	µg/kg	5	<5	U
12	DIBROMOCHLOROMETHANE	124-48-1	µg/kg	5	<5	U
13	CHLOROETHANE	75-00-3	µg/kg	5	<5	U
14	CHLOROFORM	67-66-3	µg/kg	5	<5	U
15	CHLOROMETHANE	74-87-3	µg/kg	5	<5	U
16	2-CHLOROTOLUENE	95-49-8	µg/kg	5	<5	U
17	4-CHLOROTOLUENE	106-43-4	µg/kg	5	<5	U
18	ISOPROPYLBENZENE (CUMENE)	98-82-8	µg/kg	5	<5	U
19	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	µg/kg	5	<5	U
20	1,2-DIBROMOETHANE (EDB)	106-93-4	µg/kg	5	<5	U
21	DIBROMOMETHANE	74-95-3	µg/kg	5	<5	U
22	1,2-DICHLOROBENZENE	95-50-1	µg/kg	5	<5	U
23	1,3-DICHLOROBENZENE	541-73-1	µg/kg	5	<5	U
24	1,4-DICHLOROBENZENE	106-46-7	µg/kg	5	<5	U
25	DICHLORODIFLUOROMETHANE	75-71-8	µg/kg	5	<5	U
26	1,1-DICHLOROETHANE	75-34-3	µg/kg	5	<5	U
27	1,2-DICHLOROETHANE	107-06-2	µg/kg	5	<5	U
28	1,1-DICHLOROETHENE	75-35-4	µg/kg	5	<5	U
29	CIS-1,2-DICHLOROETHENE	156-59-2	µg/kg	5	<5	U
30	TRANS-1,2-DICHLOROETHENE	156-60-5	µg/kg	5	<5	U
31	1,2-DICHLOROPROPANE	78-87-5	µg/kg	5	<5	U
32	1,3-DICHLOROPROPANE	142-28-9	µg/kg	5	<5	U
33	2,2-DICHLOROPROPANE	594-20-7	µg/kg	5	<5	U
34	1,1-DICHLOROPROPENE	563-58-6	µg/kg	5	<5	U
35	CIS-1,3-DICHLOROPROPENE	10061-01-5	µg/kg	5	<5	U
36	ETHYLBENZENE	100-41-4	µg/kg	5	<5	U
37	HEXACHLOROBUTADIENE	87-68-3	µg/kg	5	<5	U
38	P-ISOPROPYLTOLUENE	99-87-6	µg/kg	5	<5	U
39	METHYLENE CHLORIDE	75-09-2	µg/kg	5	<5	U

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#	Component Name	CAS No	Unit	RL	Result	Qualifier
40	NAPHTHALENE	91-20-3	µg/kg	5	<5	U
41	N-PROPYLBENZENE	103-65-1	µg/kg	5	<5	U
42	STYRENE	100-42-5	µg/kg	5	<5	U
43	1,1,1,2-TETRACHLOROETHANE	630-20-6	µg/kg	5	<5	U
44	1,1,2,2-TETRACHLOROETHANE	79-34-5	µg/kg	5	<5	U
45	TETRACHLOROETHENE	127-18-4	µg/kg	5	<5	U
46	TOLUENE	108-88-3	µg/kg	5	<5	U
47	1,2,3-TRICHLOROBENZENE	87-61-6	µg/kg	5	<5	U
48	1,2,4-TRICHLOROBENZENE	120-82-1	µg/kg	5	<5	U
49	1,1,1-TRICHLOROETHANE	71-55-6	µg/kg	5	<5	U
50	1,1,2-TRICHLOROETHANE	79-00-5	µg/kg	5	<5	U
51	TRICHLOROETHENE	79-01-6	µg/kg	5	<5	U
52	TRICHLOROFLUOROMETHANE	75-69-4	µg/kg	5	<5	U
53	1,2,3-TRICHLOROPROPANE	96-18-4	µg/kg	5	<5	U
54	1,2,4-TRIMETHYLBENZENE	95-63-6	µg/kg	5	<5	U
55	1,3,5-TRIMETHYLBENZENE	108-67-8	µg/kg	5	<5	U
56	VINYL CHLORIDE	75-01-4	µg/kg	5	<5	U
57	O-XYLENE	95-47-6	µg/kg	5	<5	U
58	M/P-XYLENE	108-38-3	µg/kg	5	<5	U
59	XYLENES (TOTAL)	1330-20-7	µg/kg	5	<5	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (BFB)	460-00-4	86-114	105
2	DIBROMOFLUOROMETHANE	1868-53-7	85-116	95
3	1,2-DICHLOROETHANE-D4	17060-07-0	80-119	91
4	TOLUENE-D8	2037-26-5	81-116	102
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	CHLOROBENZENE-D5	3114-55-4	50-200	105
2	1,4-DICHLOROBENZENE-D4	3855-82-1	50-200	95
3	FLUOROBENZENE	462-06-6	50-200	105
# of out-of-control				0

Not Detected (N.D.) is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Applied P & Ch Laboratory

Organic Analysis Results for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	06/10/97
Project ID:	UST 314	Service ID:	972798	Collected by:	
		Lab Sample ID:	97-2798-1	Received Date:	06/10/97
Sample ID:	18609-314-336	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC/MS: C
Anal. Method:	8260	Prep. Date:	06/12/97	Anal. Date:	06/12/97
Batch No:	97G2725	Prep. No:	–	Anal. Time:	22:43
Data File Name:	2798-01	Sample Amount:	5 mL	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N) N	

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	BENZENE	71-43-2	µg/L	5	<5	U
2	BROMOBENZENE	108-86-1	µg/L	5	<5	U
3	BROMOCHLOROMETHANE	74-97-5	µg/L	5	<5	U
4	BROMODICHLOROMETHANE	75-27-4	µg/L	5	<5	U
5	BROMOFORM	75-25-2	µg/L	5	<5	U
6	BROMOMETHANE	74-83-9	µg/L	5	<5	U
7	N-BUTYLBENZENE	104-51-8	µg/L	5	<5	U
8	SEC-BUTYLBENZENE	135-98-8	µg/L	5	<5	U
9	TERT-BUTYLBENZENE	98-06-6	µg/L	5	<5	U
10	CARBON TETRACHLORIDE	56-23-5	µg/L	5	<5	U
11	CHLOROBENZENE	108-90-7	µg/L	5	<5	U
12	DIBROMOCHLOROMETHANE	124-48-1	µg/L	5	<5	U
13	CHLOROETHANE	75-00-3	µg/L	5	<5	U
14	CHLOROFORM	67-66-3	µg/L	5	<5	U
15	CHLOROMETHANE	74-87-3	µg/L	5	<5	U
16	2-CHLOROTOLUENE	95-49-8	µg/L	5	<5	U
17	4-CHLOROTOLUENE	106-43-4	µg/L	5	<5	U
18	ISOPROPYLBENZENE (CUMENE)	98-82-8	µg/L	5	<5	U
19	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	µg/L	5	<5	U
20	1,2-DIBROMOETHANE (EDB)	106-93-4	µg/L	5	<5	U
21	DIBROMOMETHANE	74-95-3	µg/L	5	<5	U
22	1,2-DICHLOROBENZENE	95-50-1	µg/L	5	<5	U
23	1,3-DICHLOROBENZENE	541-73-1	µg/L	5	<5	U
24	1,4-DICHLOROBENZENE	106-46-7	µg/L	5	<5	U
25	DICHLORODIFLUOROMETHANE	75-71-8	µg/L	5	<5	U
26	1,1-DICHLOROETHANE	75-34-3	µg/L	5	<5	U
27	1,2-DICHLOROETHANE	107-06-2	µg/L	5	<5	U
28	1,1-DICHLOROETHENE	75-35-4	µg/L	5	<5	U
29	CIS-1,2-DICHLOROETHENE	156-59-2	µg/L	5	<5	U
30	TRANS-1,2-DICHLOROETHENE	156-60-5	µg/L	5	<5	U
31	1,2-DICHLOROPROPANE	78-87-5	µg/L	5	<5	U
32	1,3-DICHLOROPROPANE	142-28-9	µg/L	5	<5	U
33	2,2-DICHLOROPROPANE	594-20-7	µg/L	5	<5	U
34	1,1-DICHLOROPROPENE	563-58-6	µg/L	5	<5	U
35	CIS-1,3-DICHLOROPROPENE	10061-01-5	µg/L	5	<5	U
36	ETHYLBENZENE	100-41-4	µg/L	5	<5	U
37	HEXACHLOROBUTADIENE	87-68-3	µg/L	5	<5	U
38	P-ISOPROPYLTOLUENE	99-87-6	µg/L	5	<5	U
39	METHYLENE CHLORIDE	75-09-2	µg/L	5	<5	U

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#	Component Name	CAS No	Unit	RL	Result	Qualifier
40	NAPHTHALENE	91-20-3	µg/L	5	<5	U
41	N-PROPYLBENZENE	103-65-1	µg/L	5	<5	U
42	STYRENE	100-42-5	µg/L	5	<5	U
43	1,1,1,2-TETRACHLOROETHANE	630-20-6	µg/L	5	<5	U
44	1,1,2,2-TETRACHLOROETHANE	79-34-5	µg/L	5	<5	U
45	TETRACHLOROETHENE	127-18-4	µg/L	5	<5	U
46	TOLUENE	108-88-3	µg/L	5	<5	U
47	1,2,3-TRICHLOROBENZENE	87-61-6	µg/L	5	<5	U
48	1,2,4-TRICHLOROBENZENE	120-82-1	µg/L	5	<5	U
49	1,1,1-TRICHLOROETHANE	71-55-6	µg/L	5	<5	U
50	1,1,2-TRICHLOROETHANE	79-00-5	µg/L	5	<5	U
51	TRICHLOROETHENE	79-01-6	µg/L	5	<5	U
52	TRICHLOROFLUOROMETHANE	75-69-4	µg/L	5	<5	U
53	1,2,3-TRICHLOROPROPANE	96-18-4	µg/L	5	<5	U
54	1,2,4-TRIMETHYLBENZENE	95-63-6	µg/L	5	<5	U
55	1,3,5-TRIMETHYLBENZENE	108-67-8	µg/L	5	<5	U
56	VINYL CHLORIDE	75-01-4	µg/L	5	<5	U
57	O-XYLENE	95-47-6	µg/L	5	<5	U
58	M/P-XYLENE	108-38-3	µg/L	5	<5	U
59	XYLENES (TOTAL)	1330-20-7	µg/L	5	<5	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (BFB)	460-00-4	89-111	100
2	DIBROMOFLUOROMETHANE	1868-53-7	86-117	103
3	1,2-DICHLOROETHANE-D4	17060-07-0	81-113	102
4	TOLUENE-D8	2037-26-5	88-109	94
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	CHLOROBENZENE-D5	3114-55-4	50-200	103
2	1,4-DICHLOROBENZENE-D4	3855-82-1	50-200	96
3	FLUOROBENZENE	462-06-6	50-200	101
# of out-of-control				0

Not Detected (N.D.) is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

Applied P & Ch Laboratory

Organic Analysis Results for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	06/10/97
Project ID:	UST 314	Service ID:	972798	Collected by:	
		Lab Sample ID:	97-2798-2	Received Date:	06/10/97
Sample ID:	**18609-314-337** [a]	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC/MS: C
Anal. Method:	8260	Prep. Date:	06/13/97	Anal. Date:	06/13/97
Batch No:	97G2725	Prep. No:	–	Anal. Time:	13:19
Data File Name:	2798-02A	Sample Amount:	5 mL	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N) N	

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	BENZENE	71-43-2	µg/L	5	<5	U
2	BROMOBENZENE	108-86-1	µg/L	5	<5	U
3	BROMOCHLOROMETHANE	74-97-5	µg/L	5	<5	U
4	BROMODICHLOROMETHANE	75-27-4	µg/L	5	<5	U
5	BROMOFORM	75-25-2	µg/L	5	<5	U
6	BROMOMETHANE	74-83-9	µg/L	5	<5	U
7	N-BUTYLBENZENE	104-51-8	µg/L	5	<5	U
8	SEC-BUTYLBENZENE	135-98-8	µg/L	5	<5	U
9	TERT-BUTYLBENZENE	98-06-6	µg/L	5	<5	U
10	CARBON TETRACHLORIDE	56-23-5	µg/L	5	<5	U
11	CHLOROBENZENE	108-90-7	µg/L	5	<5	U
12	DIBROMOCHLOROMETHANE	124-48-1	µg/L	5	<5	U
13	CHLOROETHANE	75-00-3	µg/L	5	<5	U
14	CHLOROFORM	67-66-3	µg/L	5	<5	U
15	CHLOROMETHANE	74-87-3	µg/L	5	<5	U
16	2-CHLOROTOLUENE	95-49-8	µg/L	5	<5	U
17	4-CHLOROTOLUENE	106-43-4	µg/L	5	<5	U
18	ISOPROPYLBENZENE (CUMENE)	98-82-8	µg/L	5	<5	U
19	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	µg/L	5	<5	U
20	1,2-DIBROMOETHANE (EDB)	106-93-4	µg/L	5	<5	U
21	DIBROMOMETHANE	74-95-3	µg/L	5	<5	U
22	1,2-DICHLOROBENZENE	95-50-1	µg/L	5	<5	U
23	1,3-DICHLOROBENZENE	541-73-1	µg/L	5	<5	U
24	1,4-DICHLOROBENZENE	106-46-7	µg/L	5	<5	U
25	DICHLORODIFLUOROMETHANE	75-71-8	µg/L	5	<5	U
26	1,1-DICHLOROETHANE	75-34-3	µg/L	5	<5	U
27	1,2-DICHLOROETHANE	107-06-2	µg/L	5	<5	U
28	1,1-DICHLOROETHENE	75-35-4	µg/L	5	<5	U
29	CIS-1,2-DICHLOROETHENE	156-59-2	µg/L	5	<5	U
30	TRANS-1,2-DICHLOROETHENE	156-60-5	µg/L	5	<5	U
31	1,2-DICHLOROPROPANE	78-87-5	µg/L	5	<5	U
32	1,3-DICHLOROPROPANE	142-28-9	µg/L	5	<5	U
33	2,2-DICHLOROPROPANE	594-20-7	µg/L	5	<5	U
34	1,1-DICHLOROPROPENE	563-58-6	µg/L	5	<5	U
35	CIS-1,3-DICHLOROPROPENE	10061-01-5	µg/L	5	<5	U
36	ETHYLBENZENE	100-41-4	µg/L	5	<5	U
37	HEXACHLOROBUTADIENE	87-68-3	µg/L	5	<5	U
38	P-ISOPROPYLTOLUENE	99-87-6	µg/L	5	<5	U
39	METHYLENE CHLORIDE	75-09-2	µg/L	5	<5	U

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#	Component Name	CAS No	Unit	RL	Result	Qualifier
40	NAPHTHALENE	91-20-3	μg/L	5	<5	U
41	N-PROPYLBENZENE	103-65-1	μg/L	5	<5	U
42	STYRENE	100-42-5	μg/L	5	<5	U
43	1,1,1,2-TETRACHLOROETHANE	630-20-6	μg/L	5	<5	U
44	1,1,2,2-TETRACHLOROETHANE	79-34-5	μg/L	5	<5	U
45	TETRACHLOROETHENE	127-18-4	μg/L	5	<5	U
46	TOLUENE	108-88-3	μg/L	5	<5	U
47	1,2,3-TRICHLOROBENZENE	87-61-6	μg/L	5	<5	U
48	1,2,4-TRICHLOROBENZENE	120-82-1	μg/L	5	<5	U
49	1,1,1-TRICHLOROETHANE	71-55-6	μg/L	5	<5	U
50	1,1,2-TRICHLOROETHANE	79-00-5	μg/L	5	<5	U
51	TRICHLOROETHENE	79-01-6	μg/L	5	<5	U
52	TRICHLOROFLUOROMETHANE	75-69-4	μg/L	5	<5	U
53	1,2,3-TRICHLOROPROPANE	96-18-4	μg/L	5	<5	U
54	1,2,4-TRIMETHYLBENZENE	95-63-6	μg/L	5	<5	U
55	1,3,5-TRIMETHYLBENZENE	108-67-8	μg/L	5	<5	U
56	VINYL CHLORIDE	75-01-4	μg/L	5	<5	U
57	O-XYLENE	95-47-6	μg/L	5	<5	U
58	M/P-XYLENE	108-38-3	μg/L	5	<5	U
59	XYLENES (TOTAL)	1330-20-7	μg/L	5	<5	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (BFB)	460-00-4	89-111	91
2	DIBROMOFLUOROMETHANE	1868-53-7	86-117	95
3	1,2-DICHLOROETHANE-D4	17060-07-0	81-113	106
4	TOLUENE-D8	2037-26-5	88-109	93
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	CHLOROBENZENE-D5	3114-55-4	50-200	67
2	1,4-DICHLOROBENZENE-D4	3855-82-1	50-200	106
3	FLUOROBENZENE	462-06-6	50-200	64
# of out-of-control				0

Not Detected (N.D.) is shown as PQL, with dilution and moisture corrected if applicable.
[a]Sample contains 1124 μg/L of tetrahydrofuran.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	06/10/97
Project ID:	UST 314	Service ID:	972798	Collected by:	
		Lab Sample ID:	97-2798-3	Received Date:	06/10/97
Sample ID:	**18609-314-338**	Sample Matrix	Soil	Moisture %:	10.5
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC/MS: Q
Anal. Method:	8260	Prep. Date:	06/12/97	Anal. Date:	06/12/97
Batch No:	97G2703	Prep. No:	–	Anal. Time:	01:32
Data File Name:	2798-03	Sample Amount:	5 g	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	BENZENE	71-43-2	µg/kg	5.6	<5.6	U
2	BROMOBENZENE	108-86-1	µg/kg	5.6	<5.6	U
3	BROMOCHLOROMETHANE	74-97-5	µg/kg	5.6	<5.6	U
4	BROMODICHLOROMETHANE	75-27-4	µg/kg	5.6	<5.6	U
5	BROMOFORM	75-25-2	µg/kg	5.6	<5.6	U
6	BROMOMETHANE	74-83-9	µg/kg	5.6	<5.6	U
7	N-BUTYLBENZENE	104-51-8	µg/kg	5.6	<5.6	U
8	SEC-BUTYLBENZENE	135-98-8	µg/kg	5.6	<5.6	U
9	TERT-BUTYLBENZENE	98-06-6	µg/kg	5.6	<5.6	U
10	CARBON TETRACHLORIDE	56-23-5	µg/kg	5.6	<5.6	U
11	CHLOROBENZENE	108-90-7	µg/kg	5.6	<5.6	U
12	DIBROMOCHLOROMETHANE	124-48-1	µg/kg	5.6	<5.6	U
13	CHLOROETHANE	75-00-3	µg/kg	5.6	<5.6	U
14	CHLOROFORM	67-66-3	µg/kg	5.6	<5.6	U
15	CHLOROMETHANE	74-87-3	µg/kg	5.6	<5.6	U
16	2-CHLOROTOLUENE	95-49-8	µg/kg	5.6	<5.6	U
17	4-CHLOROTOLUENE	106-43-4	µg/kg	5.6	<5.6	U
18	ISOPROPYLBENZENE (CUMENE)	98-82-8	µg/kg	5.6	<5.6	U
19	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	µg/kg	5.6	<5.6	U
20	1,2-DIBROMOETHANE (EDB)	106-93-4	µg/kg	5.6	<5.6	U
21	DIBROMOMETHANE	74-95-3	µg/kg	5.6	<5.6	U
22	1,2-DICHLOROBENZENE	95-50-1	µg/kg	5.6	<5.6	U
23	1,3-DICHLOROBENZENE	541-73-1	µg/kg	5.6	<5.6	U
24	1,4-DICHLOROBENZENE	106-46-7	µg/kg	5.6	<5.6	U
25	DICHLORODIFLUOROMETHANE	75-71-8	µg/kg	5.6	<5.6	U
26	1,1-DICHLOROETHANE	75-34-3	µg/kg	5.6	<5.6	U
27	1,2-DICHLOROETHANE	107-06-2	µg/kg	5.6	<5.6	U
28	1,1-DICHLOROETHENE	75-35-4	µg/kg	5.6	<5.6	U
29	CIS-1,2-DICHLOROETHENE	156-59-2	µg/kg	5.6	<5.6	U
30	TRANS-1,2-DICHLOROETHENE	156-60-5	µg/kg	5.6	<5.6	U
31	1,2-DICHLOROPROPANE	78-87-5	µg/kg	5.6	<5.6	U
32	1,3-DICHLOROPROPANE	142-28-9	µg/kg	5.6	<5.6	U
33	2,2-DICHLOROPROPANE	594-20-7	µg/kg	5.6	<5.6	U
34	1,1-DICHLOROPROPENE	563-58-6	µg/kg	5.6	<5.6	U
35	CIS-1,3-DICHLOROPROPENE	10061-01-5	µg/kg	5.6	<5.6	U
36	ETHYLBENZENE	100-41-4	µg/kg	5.6	<5.6	U
37	HEXACHLOROBUTADIENE	87-68-3	µg/kg	5.6	<5.6	U
38	P-ISOPROPYLTOLUENE	99-87-6	µg/kg	5.6	<5.6	U
39	METHYLENE CHLORIDE	75-09-2	µg/kg	5.6	<5.6	U

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#	Component Name	CAS No	Unit	RL	Result	Qualifier
40	NAPHTHALENE	91-20-3	µg/kg	5.6	<5.6	U
41	N-PROPYLBENZENE	103-65-1	µg/kg	5.6	<5.6	U
42	STYRENE	100-42-5	µg/kg	5.6	<5.6	U
43	1,1,1,2-TETRACHLOROETHANE	630-20-6	µg/kg	5.6	<5.6	U
44	1,1,2,2-TETRACHLOROETHANE	79-34-5	µg/kg	5.6	<5.6	U
45	TETRACHLOROETHENE	127-18-4	µg/kg	5.6	<5.6	U
46	TOLUENE	108-88-3	µg/kg	5.6	<5.6	U
47	1,2,3-TRICHLOROBENZENE	87-61-6	µg/kg	5.6	<5.6	U
48	1,2,4-TRICHLOROBENZENE	120-82-1	µg/kg	5.6	<5.6	U
49	1,1,1-TRICHLOROETHANE	71-55-6	µg/kg	5.6	<5.6	U
50	1,1,2-TRICHLOROETHANE	79-00-5	µg/kg	5.6	<5.6	U
51	TRICHLOROETHENE	79-01-6	µg/kg	5.6	<5.6	U
52	TRICHLOROFLUOROMETHANE	75-69-4	µg/kg	5.6	<5.6	U
53	1,2,3-TRICHLOROPROPANE	96-18-4	µg/kg	5.6	<5.6	U
54	1,2,4-TRIMETHYLBENZENE	95-63-6	µg/kg	5.6	<5.6	U
55	1,3,5-TRIMETHYLBENZENE	108-67-8	µg/kg	5.6	<5.6	U
56	VINYL CHLORIDE	75-01-4	µg/kg	5.6	<5.6	U
57	O-XYLENE	95-47-6	µg/kg	5.6	<5.6	U
58	M/P-XYLENE	108-38-3	µg/kg	5.6	<5.6	U
59	XYLENES (TOTAL)	1330-20-7	µg/kg	5.6	<5.6	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (BFB)	460-00-4	86-114	114
2	DIBROMOFLUOROMETHANE	1868-53-7	85-116	94
3	1,2-DICHLOROETHANE-D4	17060-07-0	80-119	85
4	TOLUENE-D8	2037-26-5	81-116	108
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	CHLOROBENZENE-D5	3114-55-4	50-200	103
2	1,4-DICHLOROBENZENE-D4	3855-82-1	50-200	73
3	FLUOROBENZENE	462-06-6	50-200	110
# of out-of-control				0

Not Detected (N.D.) is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	06/10/97
Project ID:	UST 314	Service ID:	972798	Collected by:	
		Lab Sample ID:	97-2798-4	Received Date:	06/10/97
Sample ID:	**18609-314-339**	Sample Matrix	Soil	Moisture %:	12.7
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC/MS: Q
Anal. Method:	8260	Prep. Date:	06/12/97	Anal. Date:	06/12/97
Batch No:	97G2703	Prep. No:	–	Anal. Time:	02:05
Data File Name:	2798-04	Sample Amount:	5 g	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	BENZENE	71-43-2	µg/kg	5.7	<5.7	U
2	BROMOBENZENE	108-86-1	µg/kg	5.7	<5.7	U
3	BROMOCHLOROMETHANE	74-97-5	µg/kg	5.7	<5.7	U
4	BROMODICHLOROMETHANE	75-27-4	µg/kg	5.7	<5.7	U
5	BROMOFORM	75-25-2	µg/kg	5.7	<5.7	U
6	BROMOMETHANE	74-83-9	µg/kg	5.7	<5.7	U
7	N-BUTYLBENZENE	104-51-8	µg/kg	5.7	<5.7	U
8	SEC-BUTYLBENZENE	135-98-8	µg/kg	5.7	<5.7	U
9	TERT-BUTYLBENZENE	98-06-6	µg/kg	5.7	<5.7	U
10	CARBON TETRACHLORIDE	56-23-5	µg/kg	5.7	<5.7	U
11	CHLOROBENZENE	108-90-7	µg/kg	5.7	<5.7	U
12	DIBROMOCHLOROMETHANE	124-48-1	µg/kg	5.7	<5.7	U
13	CHLOROETHANE	75-00-3	µg/kg	5.7	<5.7	U
14	CHLOROFORM	67-66-3	µg/kg	5.7	<5.7	U
15	CHLOROMETHANE	74-87-3	µg/kg	5.7	<5.7	U
16	2-CHLOROTOLUENE	95-49-8	µg/kg	5.7	<5.7	U
17	4-CHLOROTOLUENE	106-43-4	µg/kg	5.7	<5.7	U
18	ISOPROPYLBENZENE (CUMENE)	98-82-8	µg/kg	5.7	<5.7	U
19	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	µg/kg	5.7	<5.7	U
20	1,2-DIBROMOETHANE (EDB)	106-93-4	µg/kg	5.7	<5.7	U
21	DIBROMOMETHANE	74-95-3	µg/kg	5.7	<5.7	U
22	1,2-DICHLOROBENZENE	95-50-1	µg/kg	5.7	<5.7	U
23	1,3-DICHLOROBENZENE	541-73-1	µg/kg	5.7	<5.7	U
24	1,4-DICHLOROBENZENE	106-46-7	µg/kg	5.7	<5.7	U
25	DICHLORODIFLUOROMETHANE	75-71-8	µg/kg	5.7	<5.7	U
26	1,1-DICHLOROETHANE	75-34-3	µg/kg	5.7	<5.7	U
27	1,2-DICHLOROETHANE	107-06-2	µg/kg	5.7	<5.7	U
28	1,1-DICHLOROETHENE	75-35-4	µg/kg	5.7	<5.7	U
29	CIS-1,2-DICHLOROETHENE	156-59-2	µg/kg	5.7	<5.7	U
30	TRANS-1,2-DICHLOROETHENE	156-60-5	µg/kg	5.7	<5.7	U
31	1,2-DICHLOROPROPANE	78-87-5	µg/kg	5.7	<5.7	U
32	1,3-DICHLOROPROPANE	142-28-9	µg/kg	5.7	<5.7	U
33	2,2-DICHLOROPROPANE	594-20-7	µg/kg	5.7	<5.7	U
34	1,1-DICHLOROPROPENE	563-58-6	µg/kg	5.7	<5.7	U
35	CIS-1,3-DICHLOROPROPENE	10061-01-5	µg/kg	5.7	<5.7	U
36	ETHYLBENZENE	100-41-4	µg/kg	5.7	<5.7	U
37	HEXACHLOROBUTADIENE	87-68-3	µg/kg	5.7	<5.7	U
38	P-ISOPROPYLTOLUENE	99-87-6	µg/kg	5.7	<5.7	U
39	METHYLENE CHLORIDE	75-09-2	µg/kg	5.7	<5.7	U

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#	Component Name	CAS No	Unit	RL	Result	Qualifier
40	NAPHTHALENE	91-20-3	µg/kg	5.7	<5.7	U
41	N-PROPYLBENZENE	103-65-1	µg/kg	5.7	<5.7	U
42	STYRENE	100-42-5	µg/kg	5.7	<5.7	U
43	1,1,1,2-TETRACHLOROETHANE	630-20-6	µg/kg	5.7	<5.7	U
44	1,1,2,2-TETRACHLOROETHANE	79-34-5	µg/kg	5.7	<5.7	U
45	TETRACHLOROETHENE	127-18-4	µg/kg	5.7	<5.7	U
46	TOLUENE	108-88-3	µg/kg	5.7	<5.7	U
47	1,2,3-TRICHLOROBENZENE	87-61-6	µg/kg	5.7	<5.7	U
48	1,2,4-TRICHLOROBENZENE	120-82-1	µg/kg	5.7	<5.7	U
49	1,1,1-TRICHLOROETHANE	71-55-6	µg/kg	5.7	<5.7	U
50	1,1,2-TRICHLOROETHANE	79-00-5	µg/kg	5.7	<5.7	U
51	TRICHLOROETHENE	79-01-6	µg/kg	5.7	<5.7	U
52	TRICHLOROFLUOROMETHANE	75-69-4	µg/kg	5.7	<5.7	U
53	1,2,3-TRICHLOROPROPANE	96-18-4	µg/kg	5.7	<5.7	U
54	1,2,4-TRIMETHYLBENZENE	95-63-6	µg/kg	5.7	<5.7	U
55	1,3,5-TRIMETHYLBENZENE	108-67-8	µg/kg	5.7	<5.7	U
56	VINYL CHLORIDE	75-01-4	µg/kg	5.7	<5.7	U
57	O-XYLENE	95-47-6	µg/kg	5.7	<5.7	U
58	M/P-XYLENE	108-38-3	µg/kg	5.7	<5.7	U
59	XYLENES (TOTAL)	1330-20-7	µg/kg	5.7	<5.7	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (BFB)	460-00-4	86-114	105
2	DIBROMOFLUOROMETHANE	1868-53-7	85-116	95
3	1,2-DICHLOROETHANE-D4	17060-07-0	80-119	87
4	TOLUENE-D8	2037-26-5	81-116	106
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	CHLOROBENZENE-D5	3114-55-4	50-200	118
2	1,4-DICHLOROBENZENE-D4	3855-82-1	50-200	111
3	FLUOROBENZENE	462-06-6	50-200	116
# of out-of-control				0

Not Detected (N.D.) is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Applied P & Ch Laboratory

Organic Analysis Results for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	06/10/97
Project ID:	UST 314	Service ID:	972798	Collected by:	
		Lab Sample ID:	97-2798-5	Received Date:	06/10/97
Sample ID:	18609-314-340	Sample Matrix	Soil	Moisture %:	4.3
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC/MS: Q
Anal. Method:	8260	Prep. Date:	06/12/97	Anal. Date:	06/12/97
Batch No:	97G2703	Prep. No:	–	Anal. Time:	02:38
Data File Name:	2798-05	Sample Amount:	5 g	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	BENZENE	71-43-2	µg/kg	5.2	<5.2	U
2	BROMOBENZENE	108-86-1	µg/kg	5.2	<5.2	U
3	BROMOCHLOROMETHANE	74-97-5	µg/kg	5.2	<5.2	U
4	BROMODICHLOROMETHANE	75-27-4	µg/kg	5.2	<5.2	U
5	BROMOFORM	75-25-2	µg/kg	5.2	<5.2	U
6	BROMOMETHANE	74-83-9	µg/kg	5.2	<5.2	U
7	N-BUTYLBENZENE	104-51-8	µg/kg	5.2	<5.2	U
8	SEC-BUTYLBENZENE	135-98-8	µg/kg	5.2	<5.2	U
9	TERT-BUTYLBENZENE	98-06-6	µg/kg	5.2	<5.2	U
10	CARBON TETRACHLORIDE	56-23-5	µg/kg	5.2	<5.2	U
11	CHLOROBENZENE	108-90-7	µg/kg	5.2	<5.2	U
12	DIBROMOCHLOROMETHANE	124-48-1	µg/kg	5.2	<5.2	U
13	CHLOROETHANE	75-00-3	µg/kg	5.2	<5.2	U
14	CHLOROFORM	67-66-3	µg/kg	5.2	<5.2	U
15	CHLOROMETHANE	74-87-3	µg/kg	5.2	<5.2	U
16	2-CHLOROTOLUENE	95-49-8	µg/kg	5.2	<5.2	U
17	4-CHLOROTOLUENE	106-43-4	µg/kg	5.2	<5.2	U
18	ISOPROPYLBENZENE (CUMENE)	98-82-8	µg/kg	5.2	<5.2	U
19	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	µg/kg	5.2	<5.2	U
20	1,2-DIBROMOETHANE (EDB)	106-93-4	µg/kg	5.2	<5.2	U
21	DIBROMOMETHANE	74-95-3	µg/kg	5.2	<5.2	U
22	1,2-DICHLOROBENZENE	95-50-1	µg/kg	5.2	<5.2	U
23	1,3-DICHLOROBENZENE	541-73-1	µg/kg	5.2	<5.2	U
24	1,4-DICHLOROBENZENE	106-46-7	µg/kg	5.2	<5.2	U
25	DICHLORODIFLUOROMETHANE	75-71-8	µg/kg	5.2	<5.2	U
26	1,1-DICHLOROETHANE	75-34-3	µg/kg	5.2	<5.2	U
27	1,2-DICHLOROETHANE	107-06-2	µg/kg	5.2	<5.2	U
28	1,1-DICHLOROETHENE	75-35-4	µg/kg	5.2	<5.2	U
29	CIS-1,2-DICHLOROETHENE	156-59-2	µg/kg	5.2	<5.2	U
30	TRANS-1,2-DICHLOROETHENE	156-60-5	µg/kg	5.2	<5.2	U
31	1,2-DICHLOROPROPANE	78-87-5	µg/kg	5.2	<5.2	U
32	1,3-DICHLOROPROPANE	142-28-9	µg/kg	5.2	<5.2	U
33	2,2-DICHLOROPROPANE	594-20-7	µg/kg	5.2	<5.2	U
34	1,1-DICHLOROPROPENE	563-58-6	µg/kg	5.2	<5.2	U
35	CIS-1,3-DICHLOROPROPENE	10061-01-5	µg/kg	5.2	<5.2	U
36	ETHYLBENZENE	100-41-4	µg/kg	5.2	<5.2	U
37	HEXACHLOROBUTADIENE	87-68-3	µg/kg	5.2	<5.2	U
38	P-ISOPROPYLTOLUENE	99-87-6	µg/kg	5.2	<5.2	U
39	METHYLENE CHLORIDE	75-09-2	µg/kg	5.2	<5.2	U

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#	Component Name	CAS No	Unit	RL	Result	Qualifier
40	NAPHTHALENE	91-20-3	µg/kg	5.2	<5.2	U
41	N-PROPYLBENZENE	103-65-1	µg/kg	5.2	<5.2	U
42	STYRENE	100-42-5	µg/kg	5.2	<5.2	U
43	1,1,1,2-TETRACHLOROETHANE	630-20-6	µg/kg	5.2	<5.2	U
44	1,1,2,2-TETRACHLOROETHANE	79-34-5	µg/kg	5.2	<5.2	U
45	TETRACHLOROETHENE	127-18-4	µg/kg	5.2	<5.2	U
46	TOLUENE	108-88-3	µg/kg	5.2	<5.2	U
47	1,2,3-TRICHLOROBENZENE	87-61-6	µg/kg	5.2	<5.2	U
48	1,2,4-TRICHLOROBENZENE	120-82-1	µg/kg	5.2	<5.2	U
49	1,1,1-TRICHLOROETHANE	71-55-6	µg/kg	5.2	<5.2	U
50	1,1,2-TRICHLOROETHANE	79-00-5	µg/kg	5.2	<5.2	U
51	TRICHLOROETHENE	79-01-6	µg/kg	5.2	<5.2	U
52	TRICHLOROFLUOROMETHANE	75-69-4	µg/kg	5.2	<5.2	U
53	1,2,3-TRICHLOROPROPANE	96-18-4	µg/kg	5.2	<5.2	U
54	1,2,4-TRIMETHYLBENZENE	95-63-6	µg/kg	5.2	<5.2	U
55	1,3,5-TRIMETHYLBENZENE	108-67-8	µg/kg	5.2	<5.2	U
56	VINYL CHLORIDE	75-01-4	µg/kg	5.2	<5.2	U
57	O-XYLENE	95-47-6	µg/kg	5.2	<5.2	U
58	M/P-XYLENE	108-38-3	µg/kg	5.2	<5.2	U
59	XYLENES (TOTAL)	1330-20-7	µg/kg	5.2	<5.2	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (BFB)	460-00-4	86-114	103
2	DIBROMOFLUOROMETHANE	1868-53-7	85-116	87
3	1,2-DICHLOROETHANE-D4	17060-07-0	80-119	81
4	TOLUENE-D8	2037-26-5	81-116	104
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	CHLOROBENZENE-D5	3114-55-4	50-200	134
2	1,4-DICHLOROBENZENE-D4	3855-82-1	50-200	128
3	FLUOROBENZENE	462-06-6	50-200	137
# of out-of-control				0

Not Detected (N.D.) is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Applied P & Ch Laboratory

Organic Analysis Results for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	06/10/97
Project ID:	UST 314	Service ID:	972798	Collected by:	
		Lab Sample ID:	97-2798-6	Received Date:	06/10/97
Sample ID:	18609-314-341	Sample Matrix	Soil	Moisture %:	5.9
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC/MS: Q
Anal. Method:	8260	Prep. Date:	06/12/97	Anal. Date:	06/12/97
Batch No:	97G2703	Prep. No:	–	Anal. Time:	03:11
Data File Name:	2798-06	Sample Amount:	5 g	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	BENZENE	71-43-2	µg/kg	5.3	<5.3	U
2	BROMOBENZENE	108-86-1	µg/kg	5.3	<5.3	U
3	BROMOCHLOROMETHANE	74-97-5	µg/kg	5.3	<5.3	U
4	BROMODICHLOROMETHANE	75-27-4	µg/kg	5.3	<5.3	U
5	BROMOFORM	75-25-2	µg/kg	5.3	<5.3	U
6	BROMOMETHANE	74-83-9	µg/kg	5.3	<5.3	U
7	N-BUTYLBENZENE	104-51-8	µg/kg	5.3	<5.3	U
8	SEC-BUTYLBENZENE	135-98-8	µg/kg	5.3	<5.3	U
9	TERT-BUTYLBENZENE	98-06-6	µg/kg	5.3	<5.3	U
10	CARBON TETRACHLORIDE	56-23-5	µg/kg	5.3	<5.3	U
11	CHLOROBENZENE	108-90-7	µg/kg	5.3	<5.3	U
12	DIBROMOCHLOROMETHANE	124-48-1	µg/kg	5.3	<5.3	U
13	CHLOROETHANE	75-00-3	µg/kg	5.3	<5.3	U
14	CHLOROFORM	67-66-3	µg/kg	5.3	<5.3	U
15	CHLOROMETHANE	74-87-3	µg/kg	5.3	<5.3	U
16	2-CHLOROTOLUENE	95-49-8	µg/kg	5.3	<5.3	U
17	4-CHLOROTOLUENE	106-43-4	µg/kg	5.3	<5.3	U
18	ISOPROPYLBENZENE (CUMENE)	98-82-8	µg/kg	5.3	<5.3	U
19	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	µg/kg	5.3	<5.3	U
20	1,2-DIBROMOETHANE (EDB)	106-93-4	µg/kg	5.3	<5.3	U
21	DIBROMOMETHANE	74-95-3	µg/kg	5.3	<5.3	U
22	1,2-DICHLOROBENZENE	95-50-1	µg/kg	5.3	<5.3	U
23	1,3-DICHLOROBENZENE	541-73-1	µg/kg	5.3	<5.3	U
24	1,4-DICHLOROBENZENE	106-46-7	µg/kg	5.3	<5.3	U
25	DICHLORODIFLUOROMETHANE	75-71-8	µg/kg	5.3	<5.3	U
26	1,1-DICHLOROETHANE	75-34-3	µg/kg	5.3	<5.3	U
27	1,2-DICHLOROETHANE	107-06-2	µg/kg	5.3	<5.3	U
28	1,1-DICHLOROETHENE	75-35-4	µg/kg	5.3	<5.3	U
29	CIS-1,2-DICHLOROETHENE	156-59-2	µg/kg	5.3	<5.3	U
30	TRANS-1,2-DICHLOROETHENE	156-60-5	µg/kg	5.3	<5.3	U
31	1,2-DICHLOROPROPANE	78-87-5	µg/kg	5.3	<5.3	U
32	1,3-DICHLOROPROPANE	142-28-9	µg/kg	5.3	<5.3	U
33	2,2-DICHLOROPROPANE	594-20-7	µg/kg	5.3	<5.3	U
34	1,1-DICHLOROPROPENE	563-58-6	µg/kg	5.3	<5.3	U
35	CIS-1,3-DICHLOROPROPENE	10061-01-5	µg/kg	5.3	<5.3	U
36	ETHYLBENZENE	100-41-4	µg/kg	5.3	<5.3	U
37	HEXACHLOROBUTADIENE	87-68-3	µg/kg	5.3	<5.3	U
38	P-ISOPROPYLTOLUENE	99-87-6	µg/kg	5.3	<5.3	U
39	METHYLENE CHLORIDE	75-09-2	µg/kg	5.3	<5.3	U

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#	Component Name	CAS No	Unit	RL	Result	Qualifier
40	NAPHTHALENE	91-20-3	µg/kg	5.3	<5.3	U
41	N-PROPYLBENZENE	103-65-1	µg/kg	5.3	<5.3	U
42	STYRENE	100-42-5	µg/kg	5.3	<5.3	U
43	1,1,1,2-TETRACHLOROETHANE	630-20-6	µg/kg	5.3	<5.3	U
44	1,1,2,2-TETRACHLOROETHANE	79-34-5	µg/kg	5.3	<5.3	U
45	TETRACHLOROETHENE	127-18-4	µg/kg	5.3	<5.3	U
46	TOLUENE	108-88-3	µg/kg	5.3	<5.3	U
47	1,2,3-TRICHLOROBENZENE	87-61-6	µg/kg	5.3	<5.3	U
48	1,2,4-TRICHLOROBENZENE	120-82-1	µg/kg	5.3	<5.3	U
49	1,1,1-TRICHLOROETHANE	71-55-6	µg/kg	5.3	<5.3	U
50	1,1,2-TRICHLOROETHANE	79-00-5	µg/kg	5.3	<5.3	U
51	TRICHLOROETHENE	79-01-6	µg/kg	5.3	<5.3	U
52	TRICHLOROFLUOROMETHANE	75-69-4	µg/kg	5.3	<5.3	U
53	1,2,3-TRICHLOROPROPANE	96-18-4	µg/kg	5.3	<5.3	U
54	1,2,4-TRIMETHYLBENZENE	95-63-6	µg/kg	5.3	<5.3	U
55	1,3,5-TRIMETHYLBENZENE	108-67-8	µg/kg	5.3	<5.3	U
56	VINYL CHLORIDE	75-01-4	µg/kg	5.3	<5.3	U
57	O-XYLENE	95-47-6	µg/kg	5.3	<5.3	U
58	M/P-XYLENE	108-38-3	µg/kg	5.3	<5.3	U
59	XYLENES (TOTAL)	1330-20-7	µg/kg	5.3	<5.3	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (BFB)	460-00-4	86-114	102
2	DIBROMOFLUOROMETHANE	1868-53-7	85-116	89
3	1,2-DICHLOROETHANE-D4	17060-07-0	80-119	80
4	TOLUENE-D8	2037-26-5	81-116	103
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	CHLOROBENZENE-D5	3114-55-4	50-200	131
2	1,4-DICHLOROBENZENE-D4	3855-82-1	50-200	123
3	FLUOROBENZENE	462-06-6	50-200	130
# of out-of-control				0

Not Detected (N.D.) is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Applied P & Ch Laboratory

Surrogate Recovery Summary for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	972798
Project ID:	UST 314	Project No:	18609	Sample Matrix:	Soil
		Batch No:	97G2703		

#	Client Sample No	Lab Sample ID	S1 % #	S2 % #	S3 % #	S4 % #	TOT OUT
1	97G2703-MB-01	97G2703-MB-01	102	96	93	97	0
2	97G2703-LCS-01	97G2703-LCS-01	97	93	91	100	0
3	97G2703-LSD-01	97G2703-LSD-01	100	94	89	104	0
4	18609-314-338-MS	97-2798-3MS	105	91	84	101	0
5	18609-314-338-MSD	97-2798-3MSD	105	91	84	102	0
6	97G2703-MB-02	97G2703-MB-02	105	95	91	102	0
7	18609-314-338	97-2798-3	114	94	85	108	0
8	18609-314-339	97-2798-4	105	95	87	106	0
9	18609-314-340	97-2798-5	103	87	81	104	0
10	18609-314-341	97-2798-6	102	89	80	103	0
11							
12							
13							
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16							
17							
18							
19							
20							
21							
22							
23							
24							
25							

	QC Control Limit
S1 = 4-BROMO-FLUOROBENZENE (BFB)	86-114
S2 = DIBROMOFLUOROMETHANE	85-116
S3 = 1,2-DICHLOROETHANE-D4	80-119
S4 = TOLUENE-D8	81-116

Column to be used to flag recovery values:

* – Values outside of contract required QC Limits D – Surrogate diluted out I – Matrix Interference

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Applied P & Ch Laboratory

Surrogate Recovery Summary for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	972798
Project ID:	UST 314	Project No:	18609	Sample Matrix:	Water
		Batch No:	97G2725		

#	Client Sample No	Lab Sample ID	S1 %	#	S2 %	#	S3 %	#	S4 %	#	TOT OUT
1	97G2725-MB-01	97G2725-MB-01	94		104		103		90		0
2	18609-314-342-MS	97-2816-1MS	96		102		102		94		0
3	18609-314-342-MSD	97-2816-1MSD	96		99		99		92		0
4	97G2725-LCS-01	97G2725-LCS-01	92		97		90		95		0
5	97G2725-LSD-01	97G2725-LSD-01	93		102		97		93		0
6	18609-314-336	97-2798-1	100		103		102		94		0
7	97G2725-MB-02	97G2725-MB-02	92		98		95		93		0
8	18609-314-337	97-2798-2	91		95		106		93		0
9											
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23											
24											
25											

	QC Control Limit
S1 = 4-BROMO-FLUOROBENZENE (BFB)	89-111
S2 = DIBROMOFLUOROMETHANE	86-117
S3 = 1,2-DICHLOROETHANE-D4	81-113
S4 = TOLUENE-D8	88-109

Column to be used to flag recovery values:

* - Values outside of contract required QC Limits D - Surrogate diluted out I - Matrix Interference

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Applied P & Ch Laboratory

Lab Control Spike/Lab Control Spike Duplicate Recovery for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	972798
Project ID:	UST 314	Project No:	18609	Sample Matrix:	Soil
		Batch No:	97G2703		
LCS Filename:	G2703L01	Date Analyzed:	061197	Time Analyzed:	14:50
LCSD Filename:	G2703J01	Date Analyzed:	061197	Time Analyzed:	15:23

Spiked Components	Unit	Spike Added	Concentration Unspiked	Concentration LCS	LCS Rec% #	QC Limit, % REC
BENZENE	µg/kg	50	0	48.2	96	80-121
CHLOROBENZENE	µg/kg	50	0	50.7	101	80-118
1,1-DICHLOROETHENE	µg/kg	50	0	47.6	95	68-134
TOLUENE	µg/kg	50	0	50.3	101	80-119
TRICHLOROETHENE	µg/kg	50	0	48.6	97	80-121
# of Out-of-control					0	

Spiked Components	Unit	Spike Added	LCSD Concentration	LCSD Rec% #	RPD% #	QC Limit, % RPD	QC Limit, % REC
BENZENE	µg/kg	50	49.5	99	3	20	80-121
CHLOROBENZENE	µg/kg	50	52.7	105	4	18	80-118
1,1-DICHLOROETHENE	µg/kg	50	46.4	93	2	33	68-134
TOLUENE	µg/kg	50	51.4	103	2	17	80-119
TRICHLOROETHENE	µg/kg	50	50.5	101	4	19	80-121
# of Out-of-control				0	0		

Column to be used to flag recovery and RPD values:

* – Values outside of contract required QC Limits D – Spiked components diluted out

Comments: _____

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Applied P & Ch Laboratory

Matrix Spike/Matrix Spike Duplicate Recovery for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	972798
Project ID:	UST 314	Project No:	18609	Sample Matrix:	Soil
		Batch No:	97G2703		
MS Filename:	G2703M01	Date Analyzed:	061197	Time Analyzed:	15:57
MSD Filename:	G2703N01	Date Analyzed:	061197	Time Analyzed:	16:30
MS Sample No:	**18609-314-338**	Sample Lab ID:	97-2798-3	Moisture, %	10.5

Spiked Components	Unit	Spike Added	Concentration Unspiked	Concentration MS	MS Rec% #	QC Limit, % REC
BENZENE	µg/kg	55.9	0	47.5	85	80-122
CHLOROBENZENE	µg/kg	55.9	0	48.5	87	75-120
1,1-DICHLOROETHENE	µg/kg	55.9	0	49.0	88	58-146
TOLUENE	µg/kg	55.9	0	49.2	88	60-138
TRICHLOROETHENE	µg/kg	55.9	0	49.0	88	71-155
# of Out-of-control					0	

Spiked Components	Unit	Spike Added	MSD Concentration	MSD Rec% #	RPD% #	QC Limit, % RPD	QC Limit, % REC
BENZENE	µg/kg	55.9	48.4	87	2	20	80-122
CHLOROBENZENE	µg/kg	55.9	49.9	89	2	22	75-120
1,1-DICHLOROETHENE	µg/kg	55.9	49.9	89	1	44	58-146
TOLUENE	µg/kg	55.9	49.9	89	1	46	60-138
TRICHLOROETHENE	µg/kg	55.9	49.7	89	1	42	71-155
# of Out-of-control				0	0		

Column to be used to flag recovery and RPD values:

* – Values outside of contract required QC Limits D – Spiked components diluted out

Comments: _____

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Applied P & Ch Laboratory

Lab Control Spike/Lab Control Spike Duplicate Recovery for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	972798
Project ID:	UST 314	Project No:	18609	Sample Matrix:	Water
		Batch No:	97G2725		
LCS Filename:	G2725L01	Date Analyzed:	061297	Time Analyzed:	20:10
LCSD Filename:	G2725J01	Date Analyzed:	061297	Time Analyzed:	20:51

Spiked Components	Unit	Spike Added	Concentration Unspiked	Concentration LCS	LCS Rec% #	QC Limit, % REC
BENZENE	µg/L	50	0	49.9	100	57-150
CHLOROBENZENE	µg/L	50	0	49.9	100	74-123
1,1-DICHLOROETHENE	µg/L	50	0	50.0	100	73-131
TOLUENE	µg/L	50	0	48.8	98	74-126
TRICHLOROETHENE	µg/L	50	0	51.3	103	71-123
# of Out-of-control					0	

Spiked Components	Unit	Spike Added	LCSD Concentration	LCSD Rec% #	RPD% #	QC Limit, % RPD	QC Limit, % REC
BENZENE	µg/L	50	52.3	105	5	43	57-150
CHLOROBENZENE	µg/L	50	52.3	105	5	25	74-123
1,1-DICHLOROETHENE	µg/L	50	50.9	102	2	28	73-131
TOLUENE	µg/L	50	50.1	100	2	24	74-126
TRICHLOROETHENE	µg/L	50	52.7	105	2	26	71-123
# of Out-of-control				0	0		

Column to be used to flag recovery and RPD values:

* – Values outside of contract required QC Limits D – Spiked components diluted out

Comments: _____

35164

3A

Applied P & Ch Laboratory

Matrix Spike/Matrix Spike Duplicate Recovery for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	972798
Project ID:	UST 314	Project No:	18609	Sample Matrix:	Water
		Batch No:	97G2725		
MS Filename:	G2725M01	Date Analyzed:	061297	Time Analyzed:	18:50
MSD Filename:	G2725N01	Date Analyzed:	061297	Time Analyzed:	19:30
MS Sample No:	**18609-314-342**	Sample Lab ID:	97-2816-1		

Spiked Components	Unit	Spike Added	Concentration Unspiked	Concentration MS	MS Rec% #	QC Limit, % REC
BENZENE	µg/L	50	0	46.8	94	57-150
CHLOROBENZENE	µg/L	50	0	46.8	94	74-124
1,1-DICHLOROETHENE	µg/L	50	0	46.7	93	69-126
TOLUENE	µg/L	50	0	44.2	88	74-126
TRICHLOROETHENE	µg/L	50	0	47.5	95	71-123
# of Out-of-control					0	

Spiked Components	Unit	Spike Added	MSD Concentration	MSD Rec% #	RPD% #	QC Limit, % RPD	QC Limit, % REC
BENZENE	µg/L	50	50.1	100	6	43	57-150
CHLOROBENZENE	µg/L	50	49.2	98	4	25	74-124
1,1-DICHLOROETHENE	µg/L	50	50.2	100	7	29	69-126
TOLUENE	µg/L	50	46.7	93	6	27	74-126
TRICHLOROETHENE	µg/L	50	50.3	101	6	25	71-123
# of Out-of-control				0	0		

Column to be used to flag recovery and RPD values:

* – Values outside of contract required QC Limits D – Spiked components diluted out

Comments: _____

35165

Applied P & Ch Laboratory

Method Blank Summary for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	972798
Project ID:	UST 314	Project No:	18609	Analysis Date:	06/11/97
		Sample Matrix:	Soil	Analysis Time:	14:17
Sample ID:	**97G2703-MB-01**	Batch No:	97G2703	Instrument ID:	GC/MS: Q
Lab Sample ID:	97G2703-MB-01	Data File Name:	G2703K01	GC Column:	DB-5.624
		Heated Purge: (Y/N)	Y	Column ID:	0.32 mm

This Method Blank applies to the following samples and QC samples:

#	Client Sample No	Lab Sample ID	Sample Type	Data Filename	Analysis Date	Analysis Time
1	97G2703-LCS-01	97G2703-LCS-01	Lab Control Spike	G2703L01	06/11/97	14:50
2	97G2703-LSD-01	97G2703-LSD-01	Lab Control Spike Duplicate	G2703J01	06/11/97	15:23
3	18609-314-338-MS	97-2798-3MS	Matrix Spike	G2703M01	06/11/97	15:57
4	18609-314-338-MSD	97-2798-3MSD	Matrix Spike Duplicate	G2703N01	06/11/97	16:30
5						
6						
7						
8						
9						
10						
11						
12						
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14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						

35166

Applied P & Ch Laboratory

Wet Analysis Results for Method ASTM-D2216

Client Name: OHM Remediation Services (Irvine) Project No: 18609 Anal. Method ASTM-D2216
Project ID: UST 314 Service ID: 972798 Collected by:

Component Name: PERCENT MOISTURE
CAS No: 7732-18-5

Lab ID	Sample ID	Matrix	Coll. Date	Rcv Date	Anal. Date	Batch	Unit	RL	Result	Q
97-2798-3	18609-314-338	Soil	06/10/97	06/10/97	06/12/97	97W3496	%Moisture	0.5	10.5	
97-2798-4	18609-314-339	Soil	06/10/97	06/10/97	06/12/97	97W3496	%Moisture	0.5	12.7	
97-2798-5	18609-314-340	Soil	06/10/97	06/10/97	06/12/97	97W3496	%Moisture	0.5	4.3	
97-2798-6	18609-314-341	Soil	06/10/97	06/10/97	06/12/97	97W3496	%Moisture	0.5	5.9	

Note: Q - Qualifier.
Qualifier: U - Not Detected or less than MDL
B - Less than RL (PQL, EQL or CRDL), but greater than MDL.

35280

APCL

Applied Physics & Chemistry Laboratory

13760 Magnolia Ave. Chino CA 91710
Tel. (909) 590-1828 Fax (909) 590-1498

RECEIVED
JUL 25 1997

July 25, 1997

Mary Schneider
OHM Remediation Services (Irvine)
2031 Main Street
Irvine Ca. 92714

Dear Ms. Schneider,

Enclosed please find two copies of Level C Deliverables and Electronic Data Deliverables for the project L.A.D. UST 314. This package includes samples in our service ID of 97-2816.

Please contact me if you have any questions.

Sincerely yours,

Kevin Xie, Ph.D.

QA Director

OHM Remediation Services Corp.

CHAIN-OF-CUSTODY RECORD

LAB COPY
Form 0019
Field Technical Services
Rev. 08/89

202385

3302

I. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

CT NAME: L.A.D. UST 314	PROJECT LOCATION: M.C.A.S. EL TORO
NO.: 209	PROJECT CONTACT: DWAYNE ISHIDA
PROJECT TELEPHONE NO.: (714) 263-1146 X 525	
'S REPRESENTATIVE: YNN HORNECKER-SWDIV	PROJECT MANAGER/SUPERVISOR: BILL SEDLAK-OHM

ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS): 8260, TPH-Purgeable, TPH-Extractable, Leachability 1312

A.P.C.L. Chino Hills, CA.

SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	8260	TPH-Purgeable	TPH-Extractable	Leachability 1312					REMARKS
609-314-342	6/11/97	0715		X	Trip Blank for 6/11/97	2	X	X							14 DAY T.A.T.
609-314-343	6/11/97	0820		X	Rinsate for 6/11/97	5	X	X	X						HOLD
609-314-344	6/11/97	0837		X	Soil Sample @ 314-SB-03 @ 25.5-26'	1	X	X	X	X					
609-314-345	6/11/97	0910		X	Soil Sample @ 314-SB-03 @ 41.5-42'	1	X	X	X	X					
609-314-346	6/11/97	1025		X	Soil Sample @ 314-SB-04 @ 25'-25.5'	1	X	X	X	X					
609-314-347	6/11/97	1053		X	Soil Sample @ 314-SB-04 @ 40'-40.5'	1	X	X	X	X					
609-314-348	6/11/97	1054		X	Soil Sample @ 314-SB-04 @ 40.5-41'	1	X	X	X	X					

Mark Bennil 6/11/97

ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1 TO 7	Mark Bennil	Melissa Stinson	6/11/97	14:10

REMARKS: 1.) 5 DAY T.A.T.

SAMPLER'S SIGNATURE: Mark Bennil

Applied P & Ch Laboratory

Organic Analysis Results for Method M8015E

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	06/12/97
Project ID:	L.A.D. UST 314	Service ID:	972816	Collected by:	
		Lab Sample ID:	97G2721-MB-01	Received Date:	06/12/97
Sample ID:	97G2721-MB-01	Sample Matrix	Soil	Moisture %:	
Sample Type:	Method Blank	Prep. Method:	3550	Instrument ID:	GC: H
Anal. Method:	M8015E	Prep. Date:	06/12/97	Anal. Date:	06/14/97
Batch No:	97G2721	Prep. No:	1 of 1	Anal. Time:	00:21
Data File Name:	2721G.K01	Sample Amount:	20.0 g	Dilution Factor:	1
Extract Vol.	1.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	TPH AS DIESEL	68334-30-5	mg/kg	10	<10	U
2	TPH AS MOTOR OIL	TBD-0002	mg/kg	10	<10	U

Surrogates			Control Limit, %	Surro. Rec.%
1	HEXACOSANE, C_{26}	630-01-3	50-146	83
# of out-of-control				0

Not Detected (N.D.) is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

Applied P & Ch Laboratory

Organic Analysis Results for Method M8015E

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	06/11/97
Project ID:	L.A.D. UST 314	Service ID:	972816	Collected by:	
		Lab Sample ID:	97-2816-2	Received Date:	06/11/97
Sample ID:	18609-314-344	Sample Matrix	Soil	Moisture %:	29.7
Sample Type:	Field Sample	Prep. Method:	3550	Instrument ID:	GC: H
Anal. Method:	M8015E	Prep. Date:	06/12/97	Anal. Date:	06/14/97
Batch No:	97G2721	Prep. No:	1 of 1	Anal. Time:	06:41
Data File Name:	2816.002	Sample Amount:	20.0 g	Dilution Factor:	1
Extract Vol.	1.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	TPH AS DIESEL	68334-30-5	mg/kg	14	<14	U
2	TPH AS MOTOR OIL	TBD-0002	mg/kg	14	<14	U

Surrogates			Control Limit, %	Surro. Rec.%
1	HEXACOSANE, C_{26}	630-01-3	50-146	85
# of out-of-control				0

Not Detected (N.D.) is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

Applied P & Ch Laboratory

Organic Analysis Results for Method M8015E

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	06/11/97
Project ID:	L.A.D. UST 314	Service ID:	972816	Collected by:	
		Lab Sample ID:	97-2816-3	Received Date:	06/11/97
Sample ID:	**18609-314-345**	Sample Matrix	Soil	Moisture %:	11.3
Sample Type:	Field Sample	Prep. Method:	3550	Instrument ID:	GC: H
Anal. Method:	M8015E	Prep. Date:	06/12/97	Anal. Date:	06/14/97
Batch No:	97G2721	Prep. No:	1 of 1	Anal. Time:	07:06
Data File Name:	2816.003	Sample Amount:	20.0 g	Dilution Factor:	1
Extract Vol.	1.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	TPH AS DIESEL	68334-30-5	mg/kg	11	<11	U
2	TPH AS MOTOR OIL	TBD-0002	mg/kg	11	<11	U

Surrogates			Control Limit, %	Surro. Rec.%
1	HEXACOSANE, C_{26}	630-01-3	50-146	104
# of out-of-control				0

Not Detected (N.D.) is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

Applied P & Ch Laboratory

Organic Analysis Results for Method M8015E

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	06/11/97
Project ID:	L.A.D. UST 314	Service ID:	972816	Collected by:	
		Lab Sample ID:	97-2816-4	Received Date:	06/11/97
Sample ID:	18609-314-346	Sample Matrix	Soil	Moisture %:	14.5
Sample Type:	Field Sample	Prep. Method:	3550	Instrument ID:	GC: H
Anal. Method:	M8015E	Prep. Date:	06/12/97	Anal. Date:	06/14/97
Batch No:	97G2721	Prep. No:	1 of 1	Anal. Time:	07:32
Data File Name:	2816.004	Sample Amount:	20.0 g	Dilution Factor:	1
Extract Vol.	1.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	TPH AS DIESEL	68334-30-5	mg/kg	12	<12	U
2	TPH AS MOTOR OIL	TBD-0002	mg/kg	12	<12	U

Surrogates			Control Limit, %	Surro. Rec.%
1	HEXACOSANE, C_{26}	630-01-3	50-146	95
# of out-of-control				0

Not Detected (N.D.) is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

Applied P & Ch Laboratory

Organic Analysis Results for Method M8015E

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	06/11/97
Project ID:	L.A.D. UST 314	Service ID:	972816	Collected by:	
		Lab Sample ID:	97-2816-5	Received Date:	06/11/97
Sample ID:	18609-314-347	Sample Matrix	Soil	Moisture %:	4.2
Sample Type:	Field Sample	Prep. Method:	3550	Instrument ID:	GC: H
Anal. Method:	M8015E	Prep. Date:	06/12/97	Anal. Date:	06/14/97
Batch No:	97G2721	Prep. No:	1 of 1	Anal. Time:	07:57
Data File Name:	2816.005	Sample Amount:	20.0 g	Dilution Factor:	1
Extract Vol.	1.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	TPH AS DIESEL	68334-30-5	mg/kg	10	<10	U
2	TPH AS MOTOR OIL	TBD-0002	mg/kg	10	<10	U

Surrogates			Control Limit, %	Surro. Rec.%
1	HEXACOSANE, C_{26}	630-01-3	50-146	92
# of out-of-control				0

Not Detected (N.D.) is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

Applied P & Ch Laboratory

Organic Analysis Results for Method M8015E

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	06/11/97
Project ID:	L.A.D. UST 314	Service ID:	972816	Collected by:	
		Lab Sample ID:	97-2816-6	Received Date:	06/11/97
Sample ID:	18609-314-348	Sample Matrix	Soil	Moisture %:	5.0
Sample Type:	Field Sample	Prep. Method:	3550	Instrument ID:	GC: H
Anal. Method:	M8015E	Prep. Date:	06/12/97	Anal. Date:	06/14/97
Batch No:	97G2721	Prep. No:	1 of 1	Anal. Time:	08:23
Data File Name:	2816.006	Sample Amount:	20.0 g	Dilution Factor:	1
Extract Vol.	1.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	TPH AS DIESEL	68334-30-5	mg/kg	11	<11	U
2	TPH AS MOTOR OIL	TBD-0002	mg/kg	11	<11	U

Surrogates			Control Limit, %	Surro. Rec.%
1	HEXACOSANE, C_{26}	630-01-3	50-146	87
# of out-of-control				0

Not Detected (N.D.) is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method M8015V

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	06/12/97
Project ID:	L.A.D. UST 314	Service ID:	972816	Collected by:	
		Lab Sample ID:	97G2717-MB-01	Received Date:	06/12/97
Sample ID:	**97G2717-MB-01**	Sample Matrix	Soil	Moisture %:	
Sample Type:	Method Blank	Prep. Method:	5030	Instrument ID:	GC: N
Anal. Method:	M8015V	Prep. Date:	06/12/97	Anal. Date:	06/12/97
Batch No:	97G2717	Prep. No:	–	Anal. Time:	17:08
Data File Name:	2717G.K01	Sample Amount:	1 g	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	GASOLINE	8006-61-9	mg/kg	1	<1	U

Surrogates		Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (BFB) 460-00-4	70-132	83
# of out-of-control			0

Not Detected (N.D.) is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

Applied P & Ch Laboratory

Organic Analysis Results for Method M8015V

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	06/13/97
Project ID:	L.A.D. UST 314	Service ID:	972816	Collected by:	
		Lab Sample ID:	97G2730-MB-01	Received Date:	06/13/97
Sample ID:	97G2730-MB-01	Sample Matrix	Water	Moisture %:	–
Sample Type:	Method Blank	Prep. Method:	5030	Instrument ID:	GC: N
Anal. Method:	M8015V	Prep. Date:	06/13/97	Anal. Date:	06/13/97
Batch No:	97G2730	Prep. No:	–	Anal. Time:	12:21
Data File Name:	2730G.K01	Sample Amount:	5 mL	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	N

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	GASOLINE	8006-61-9	mg/L	0.05	< 0.05	U

Surrogates		Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (BFB) 460-00-4	68-124	82
# of out-of-control			0

Not Detected (N.D.) is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

Applied P & Ch Laboratory

Organic Analysis Results for Method M8015V

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	06/13/97
Project ID:	L.A.D. UST 314	Service ID:	972816	Collected by:	
		Lab Sample ID:	97G2730-MB-02	Received Date:	06/13/97
Sample ID:	97G2730-MB-02	Sample Matrix	Water	Moisture %:	–
Sample Type:	Method Blank	Prep. Method:	5030	Instrument ID:	GC: N
Anal. Method:	M8015V	Prep. Date:	06/13/97	Anal. Date:	06/13/97
Batch No:	97G2730	Prep. No:	–	Anal. Time:	14:40
Data File Name:	2730G.K02	Sample Amount:	5 mL	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	N

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	GASOLINE	8006-61-9	mg/L	0.05	<0.05	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (BFB)	460-00-4	68-124	84
# of out-of-control				0

Not Detected (N.D.) is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

Applied P & Ch Laboratory

Organic Analysis Results for Method M8015V

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	06/11/97
Project ID:	L.A.D. UST 314	Service ID:	972816	Collected by:	
		Lab Sample ID:	97-2816-1	Received Date:	06/11/97
Sample ID:	**18609-314-342**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC: N
Anal. Method:	M8015V	Prep. Date:	06/13/97	Anal. Date:	06/13/97
Batch No:	97G2730	Prep. No:	–	Anal. Time:	19:52
Data File Name:	2816.001	Sample Amount:	5 mL	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	N

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	GASOLINE	8006-61-9	mg/L	0.05	<0.05	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (BFB)	460-00-4	68-124	86
# of out-of-control				0

Not Detected (N.D.) is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

Applied P & Ch Laboratory

Organic Analysis Results for Method M8015V

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	06/11/97
Project ID:	L.A.D. UST 314	Service ID:	972816	Collected by:	
		Lab Sample ID:	97-2816-2	Received Date:	06/11/97
Sample ID:	**18609-314-344**	Sample Matrix	Soil	Moisture %:	29.7
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC: N
Anal. Method:	M8015V	Prep. Date:	06/12/97	Anal. Date:	06/12/97
Batch No:	97G2717	Prep. No:	–	Anal. Time:	20:08
Data File Name:	2816.002	Sample Amount:	1 g	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	GASOLINE	8006-61-9	mg/kg	1.4	<1.4	U

Surrogates		Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (BFB) 460-00-4	70-132	87
# of out-of-control			0

Not Detected (N.D.) is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

Applied P & Ch Laboratory

Organic Analysis Results for Method M8015V

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	06/11/97
Project ID:	L.A.D. UST 314	Service ID:	972816	Collected by:	
		Lab Sample ID:	97-2816-3	Received Date:	06/11/97
Sample ID:	**18609-314-345**	Sample Matrix	Soil	Moisture %:	11.3
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC: N
Anal. Method:	M8015V	Prep. Date:	06/12/97	Anal. Date:	06/12/97
Batch No:	97G2717	Prep. No:	–	Anal. Time:	19:43
Data File Name:	2816.003	Sample Amount:	1 g	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	GASOLINE	8006-61-9	mg/kg	1.1	<1.1	U

Surrogates		Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (BFB) 460-00-4	70-132	90
# of out-of-control			0

Not Detected (N.D.) is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method M8015V

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	06/11/97
Project ID:	L.A.D. UST 314	Service ID:	972816	Collected by:	
		Lab Sample ID:	97-2816-4	Received Date:	06/11/97
Sample ID:	18609-314-346	Sample Matrix	Soil	Moisture %:	14.5
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC: N
Anal. Method:	M8015V	Prep. Date:	06/12/97	Anal. Date:	06/12/97
Batch No:	97G2717	Prep. No:	–	Anal. Time:	20:33
Data File Name:	2816.004	Sample Amount:	1 g	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	GASOLINE	8006-61-9	mg/kg	1.2	<1.2	U

Surrogates		Control Limit, %	Surro. Rec.%
1 4-BROMO-FLUOROBENZENE (BFB)	460-00-4	70-132	88
# of out-of-control			0

Not Detected (N.D.) is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method M8015V

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	06/11/97
Project ID:	L.A.D. UST 314	Service ID:	972816	Collected by:	
		Lab Sample ID:	97-2816-5	Received Date:	06/11/97
Sample ID:	**18609-314-347**	Sample Matrix	Soil	Moisture %:	4.2
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC: N
Anal. Method:	M8015V	Prep. Date:	06/12/97	Anal. Date:	06/12/97
Batch No:	97G2717	Prep. No:	-	Anal. Time:	20:58
Data File Name:	2816.005	Sample Amount:	1 g	Dilution Factor:	1
Methanol Vol.	-				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	GASOLINE	8006-61-9	mg/kg	1.0	<1.0	U

Surrogates		Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (BFB) 460-00-4	70-132	89
# of out-of-control			0

Not Detected (N.D.) is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method M8015V

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	06/11/97
Project ID:	L.A.D. UST 314	Service ID:	972816	Collected by:	
		Lab Sample ID:	97-2816-6	Received Date:	06/11/97
Sample ID:	**18609-314-348**	Sample Matrix	Soil	Moisture %:	5.0
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC: N
Anal. Method:	M8015V	Prep. Date:	06/12/97	Anal. Date:	06/12/97
Batch No:	97G2717	Prep. No:	–	Anal. Time:	22:14
Data File Name:	2816.006	Sample Amount:	1 g	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	GASOLINE	8006-61-9	mg/kg	1.1	<1.1	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (BFB)	460-00-4	70-132	90
# of out-of-control				0

Not Detected (N.D.) is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Metal Analysis Results

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	06/11/97
Project ID:	L.A.D. UST 314	Service ID:	972816	Collected by:	
		Lab Sample ID:	97-2816-3	Received Date:	06/11/97
Sample ID:	**18609-314-345**	Sample Matrix	Soil	Moisture %:	11.3
Sample Type:	Field Sample				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
LEAD, (TOTAL)	7439-92-1	mg/kg	5.6	6.9 [a]		A		97M2041F	07/11/97	07/11/97	1	7420

[a] Additional analysis requested by Dwayne Ishida (OHM) on 06/30/97.

Note: RL: PQL (EQL) or CRDL D-Date: Digestion Date; A-Date: Analysis Date; DF: Dilution Factor

C Qualifier: U - Not Detected or less than IDL B - Less than RL (PQL, EQL or CRDL), but greater than IDL.

Q Qualifier: N - Spike recovery out of control * - Duplicate analysis out of control

W - Post digestion spike for GFAA out of control E - Serial dilution difference out of control

M Qualifier: P - ICP A - FLAA F - GFAA CV - Cold Vapor

Applied P & Ch Laboratory

Metal Analysis Results

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	06/11/97
Project ID:	L.A.D. UST 314	Service ID:	972816	Collected by:	
		Lab Sample ID:	97-2816-5	Received Date:	06/11/97
Sample ID:	18609-314-347	Sample Matrix	Soil	Moisture %:	4.2
Sample Type:	Field Sample				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
LEAD, (TOTAL)	7439-92-1	mg/kg	5.2	<2.1 [a]	U	A		97M2041F	07/11/97	07/11/97	1	7420

Not Detected (N.D.) is shown as IDL moisture-corrected if applicable

[a] Additional analysis requested by Dwayne Ishida (OHM) on 06/30/97.

Note: RL: PQL (EQL) or CRDL D-Date: Digestion Date; A-Date: Analysis Date; DF: Dilution Factor

C Qualifier: U - Not Detected or less than IDL; B - Less than RL (PQL, EQL or CRDL), but greater than IDL.

Q Qualifier: N - Spike recovery out of control; * - Duplicate analysis out of control; W - Post digestion spike for GFAA out of control; E - Serial dilution difference out of control

M Qualifier: P - ICP A - FLAA F - GFAA CV - Cold Vapor

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Organic Analysis Results for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	06/11/97
Project ID:	L.A.D. UST 314	Service ID:	972816	Collected by:	
		Lab Sample ID:	97G2703-MB-01	Received Date:	06/11/97
Sample ID:	**97G2703-MB-01**	Sample Matrix	Soil	Moisture %:	
Sample Type:	Method Blank	Prep. Method:	5030	Instrument ID:	GC/MS: Q
Anal. Method:	8260	Prep. Date:	06/11/97	Anal. Date:	06/11/97
Batch No:	97G2703	Prep. No:	–	Anal. Time:	14:17
Data File Name:	G2703K01	Sample Amount:	5 g	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	BENZENE	71-43-2	µg/kg	5	<5	U
2	BROMOBENZENE	108-86-1	µg/kg	5	<5	U
3	BROMOCHLOROMETHANE	74-97-5	µg/kg	5	<5	U
4	BROMODICHLOROMETHANE	75-27-4	µg/kg	5	<5	U
5	BROMOFORM	75-25-2	µg/kg	5	<5	U
6	BROMOMETHANE	74-83-9	µg/kg	5	<5	U
7	N-BUTYLBENZENE	104-51-8	µg/kg	5	<5	U
8	SEC-BUTYLBENZENE	135-98-8	µg/kg	5	<5	U
9	TERT-BUTYLBENZENE	98-06-6	µg/kg	5	<5	U
10	CARBON TETRACHLORIDE	56-23-5	µg/kg	5	<5	U
11	CHLOROBENZENE	108-90-7	µg/kg	5	<5	U
12	DIBROMOCHLOROMETHANE	124-48-1	µg/kg	5	<5	U
13	CHLOROETHANE	75-00-3	µg/kg	5	<5	U
14	CHLOROFORM	67-66-3	µg/kg	5	<5	U
15	CHLOROMETHANE	74-87-3	µg/kg	5	<5	U
16	2-CHLOROTOLUENE	95-49-8	µg/kg	5	<5	U
17	4-CHLOROTOLUENE	106-43-4	µg/kg	5	<5	U
18	ISOPROPYLBENZENE (CUMENE)	98-82-8	µg/kg	5	<5	U
19	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	µg/kg	5	<5	U
20	1,2-DIBROMOETHANE (EDB)	106-93-4	µg/kg	5	<5	U
21	DIBROMOMETHANE	74-95-3	µg/kg	5	<5	U
22	1,2-DICHLOROBENZENE	95-50-1	µg/kg	5	<5	U
23	1,3-DICHLOROBENZENE	541-73-1	µg/kg	5	<5	U
24	1,4-DICHLOROBENZENE	106-46-7	µg/kg	5	<5	U
25	DICHLORODIFLUOROMETHANE	75-71-8	µg/kg	5	<5	U
26	1,1-DICHLOROETHANE	75-34-3	µg/kg	5	<5	U
27	1,2-DICHLOROETHANE	107-06-2	µg/kg	5	<5	U
28	1,1-DICHLOROETHENE	75-35-4	µg/kg	5	<5	U
29	CIS-1,2-DICHLOROETHENE	156-59-2	µg/kg	5	<5	U
30	TRANS-1,2-DICHLOROETHENE	156-60-5	µg/kg	5	<5	U
31	1,2-DICHLOROPROPANE	78-87-5	µg/kg	5	<5	U
32	1,3-DICHLOROPROPANE	142-28-9	µg/kg	5	<5	U
33	2,2-DICHLOROPROPANE	594-20-7	µg/kg	5	<5	U
34	1,1-DICHLOROPROPENE	563-58-6	µg/kg	5	<5	U
35	CIS-1,3-DICHLOROPROPENE	10061-01-5	µg/kg	5	<5	U
36	ETHYLBENZENE	100-41-4	µg/kg	5	<5	U
37	HEXACHLOROBUTADIENE	87-68-3	µg/kg	5	<5	U
38	P-ISOPROPYLTOLUENE	99-87-6	µg/kg	5	<5	U
39	METHYLENE CHLORIDE	75-09-2	µg/kg	5	<5	U

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#	Component Name	CAS No	Unit	RL	Result	Qualifier
40	NAPHTHALENE	91-20-3	µg/kg	5	<5	U
41	N-PROPYLBENZENE	103-65-1	µg/kg	5	<5	U
42	STYRENE	100-42-5	µg/kg	5	<5	U
43	1,1,1,2-TETRACHLOROETHANE	630-20-6	µg/kg	5	<5	U
44	1,1,2,2-TETRACHLOROETHANE	79-34-5	µg/kg	5	<5	U
45	TETRACHLOROETHENE	127-18-4	µg/kg	5	<5	U
46	TOLUENE	108-88-3	µg/kg	5	<5	U
47	1,2,3-TRICHLOROBENZENE	87-61-6	µg/kg	5	<5	U
48	1,2,4-TRICHLOROBENZENE	120-82-1	µg/kg	5	<5	U
49	1,1,1-TRICHLOROETHANE	71-55-6	µg/kg	5	<5	U
50	1,1,2-TRICHLOROETHANE	79-00-5	µg/kg	5	<5	U
51	TRICHLOROETHENE	79-01-6	µg/kg	5	<5	U
52	TRICHLOROFLUOROMETHANE	75-69-4	µg/kg	5	<5	U
53	1,2,3-TRICHLOROPROPANE	96-18-4	µg/kg	5	<5	U
54	1,2,4-TRIMETHYLBENZENE	95-63-6	µg/kg	5	<5	U
55	1,3,5-TRIMETHYLBENZENE	108-67-8	µg/kg	5	<5	U
56	VINYL CHLORIDE	75-01-4	µg/kg	5	<5	U
57	O-XYLENE	95-47-6	µg/kg	5	<5	U
58	M/P-XYLENE	108-38-3	µg/kg	5	<5	U
59	XYLENES (TOTAL)	1330-20-7	µg/kg	5	<5	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (BFB)	460-00-4	86-114	102
2	DIBROMOFLUOROMETHANE	1868-53-7	85-116	96
3	1,2-DICHLOROETHANE-D4	17060-07-0	80-119	93
4	TOLUENE-D8	2037-26-5	81-116	97
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	CHLOROBENZENE-D5	3114-55-4	50-200	114
2	1,4-DICHLOROBENZENE-D4	3855-82-1	50-200	104
3	FLUOROBENZENE	462-06-6	50-200	115
# of out-of-control				0

Not Detected (N.D.) is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	06/12/97
Project ID:	L.A.D. UST 314	Service ID:	972816	Collected by:	
		Lab Sample ID:	97G2703-MB-02	Received Date:	06/12/97
Sample ID:	97G2703-MB-02	Sample Matrix	Soil	Moisture %:	
Sample Type:	Method Blank	Prep. Method:	5030	Instrument ID:	GC/MS: Q
Anal. Method:	8260	Prep. Date:	06/12/97	Anal. Date:	06/12/97
Batch No:	97G2703	Prep. No:	–	Anal. Time:	00:59
Data File Name:	G2703K02	Sample Amount:	5 g	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	BENZENE	71-43-2	µg/kg	5	<5	U
2	BROMOBENZENE	108-86-1	µg/kg	5	<5	U
3	BROMOCHLOROMETHANE	74-97-5	µg/kg	5	<5	U
4	BROMODICHLOROMETHANE	75-27-4	µg/kg	5	<5	U
5	BROMOFORM	75-25-2	µg/kg	5	<5	U
6	BROMOMETHANE	74-83-9	µg/kg	5	<5	U
7	N-BUTYLBENZENE	104-51-8	µg/kg	5	<5	U
8	SEC-BUTYLBENZENE	135-98-8	µg/kg	5	<5	U
9	TERT-BUTYLBENZENE	98-06-6	µg/kg	5	<5	U
10	CARBON TETRACHLORIDE	56-23-5	µg/kg	5	<5	U
11	CHLOROBENZENE	108-90-7	µg/kg	5	<5	U
12	DIBROMOCHLOROMETHANE	124-48-1	µg/kg	5	<5	U
13	CHLOROETHANE	75-00-3	µg/kg	5	<5	U
14	CHLOROFORM	67-66-3	µg/kg	5	<5	U
15	CHLOROMETHANE	74-87-3	µg/kg	5	<5	U
16	2-CHLOROTOLUENE	95-49-8	µg/kg	5	<5	U
17	4-CHLOROTOLUENE	106-43-4	µg/kg	5	<5	U
18	ISOPROPYLBENZENE (CUMENE)	98-82-8	µg/kg	5	<5	U
19	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	µg/kg	5	<5	U
20	1,2-DIBROMOETHANE (EDB)	106-93-4	µg/kg	5	<5	U
21	DIBROMOMETHANE	74-95-3	µg/kg	5	<5	U
22	1,2-DICHLOROBENZENE	95-50-1	µg/kg	5	<5	U
23	1,3-DICHLOROBENZENE	541-73-1	µg/kg	5	<5	U
24	1,4-DICHLOROBENZENE	106-46-7	µg/kg	5	<5	U
25	DICHLORODIFLUOROMETHANE	75-71-8	µg/kg	5	<5	U
26	1,1-DICHLOROETHANE	75-34-3	µg/kg	5	<5	U
27	1,2-DICHLOROETHANE	107-06-2	µg/kg	5	<5	U
28	1,1-DICHLOROETHENE	75-35-4	µg/kg	5	<5	U
29	CIS-1,2-DICHLOROETHENE	156-59-2	µg/kg	5	<5	U
30	TRANS-1,2-DICHLOROETHENE	156-60-5	µg/kg	5	<5	U
31	1,2-DICHLOROPROPANE	78-87-5	µg/kg	5	<5	U
32	1,3-DICHLOROPROPANE	142-28-9	µg/kg	5	<5	U
33	2,2-DICHLOROPROPANE	594-20-7	µg/kg	5	<5	U
34	1,1-DICHLOROPROPENE	563-58-6	µg/kg	5	<5	U
35	CIS-1,3-DICHLOROPROPENE	10061-01-5	µg/kg	5	<5	U
36	ETHYLBENZENE	100-41-4	µg/kg	5	<5	U
37	HEXACHLOROBUTADIENE	87-68-3	µg/kg	5	<5	U
38	P-ISOPROPYLTOLUENE	99-87-6	µg/kg	5	<5	U
39	METHYLENE CHLORIDE	75-09-2	µg/kg	5	<5	U

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#	Component Name	CAS No	Unit	RL	Result	Qualifier
40	NAPHTHALENE	91-20-3	µg/kg	5	<5	U
41	N-PROPYLBENZENE	103-65-1	µg/kg	5	<5	U
42	STYRENE	100-42-5	µg/kg	5	<5	U
43	1,1,1,2-TETRACHLOROETHANE	630-20-6	µg/kg	5	<5	U
44	1,1,2,2-TETRACHLOROETHANE	79-34-5	µg/kg	5	<5	U
45	TETRACHLOROETHENE	127-18-4	µg/kg	5	<5	U
46	TOLUENE	108-88-3	µg/kg	5	<5	U
47	1,2,3-TRICHLOROBENZENE	87-61-6	µg/kg	5	<5	U
48	1,2,4-TRICHLOROBENZENE	120-82-1	µg/kg	5	<5	U
49	1,1,1-TRICHLOROETHANE	71-55-6	µg/kg	5	<5	U
50	1,1,2-TRICHLOROETHANE	79-00-5	µg/kg	5	<5	U
51	TRICHLOROETHENE	79-01-6	µg/kg	5	<5	U
52	TRICHLOROFLUOROMETHANE	75-69-4	µg/kg	5	<5	U
53	1,2,3-TRICHLOROPROPANE	96-18-4	µg/kg	5	<5	U
54	1,2,4-TRIMETHYLBENZENE	95-63-6	µg/kg	5	<5	U
55	1,3,5-TRIMETHYLBENZENE	108-67-8	µg/kg	5	<5	U
56	VINYL CHLORIDE	75-01-4	µg/kg	5	<5	U
57	O-XYLENE	95-47-6	µg/kg	5	<5	U
58	M/P-XYLENE	108-38-3	µg/kg	5	<5	U
59	XYLENES (TOTAL)	1330-20-7	µg/kg	5	<5	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (BFB)	460-00-4	86-114	105
2	DIBROMOFLUOROMETHANE	1868-53-7	85-116	95
3	1,2-DICHLOROETHANE-D4	17060-07-0	80-119	91
4	TOLUENE-D8	2037-26-5	81-116	102
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	CHLOROBENZENE-D5	3114-55-4	50-200	105
2	1,4-DICHLOROBENZENE-D4	3855-82-1	50-200	95
3	FLUOROBENZENE	462-06-6	50-200	105
# of out-of-control				0

Not Detected (N.D.) is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	06/12/97
Project ID:	L.A.D. UST 314	Service ID:	972816	Collected by:	
		Lab Sample ID:	97G2725-MB-01	Received Date:	06/12/97
Sample ID:	97G2725-MB-01	Sample Matrix	Water	Moisture %:	–
Sample Type:	Method Blank	Prep. Method:	5030	Instrument ID:	GC/MS: C
Anal. Method:	8260	Prep. Date:	06/12/97	Anal. Date:	06/12/97
Batch No:	97G2725	Prep. No:	–	Anal. Time:	18:10
Data File Name:	G2725K01	Sample Amount:	5 mL	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	N

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	BENZENE	71-43-2	µg/L	5	<5	U
2	BROMOBENZENE	108-86-1	µg/L	5	<5	U
3	BROMOCHLOROMETHANE	74-97-5	µg/L	5	<5	U
4	BROMODICHLOROMETHANE	75-27-4	µg/L	5	<5	U
5	BROMOFORM	75-25-2	µg/L	5	<5	U
6	BROMOMETHANE	74-83-9	µg/L	5	<5	U
7	N-BUTYLBENZENE	104-51-8	µg/L	5	<5	U
8	SEC-BUTYLBENZENE	135-98-8	µg/L	5	<5	U
9	TERT-BUTYLBENZENE	98-06-6	µg/L	5	<5	U
10	CARBON TETRACHLORIDE	56-23-5	µg/L	5	<5	U
11	CHLOROBENZENE	108-90-7	µg/L	5	<5	U
12	DIBROMOCHLOROMETHANE	124-48-1	µg/L	5	<5	U
13	CHLOROETHANE	75-00-3	µg/L	5	<5	U
14	CHLOROFORM	67-66-3	µg/L	5	<5	U
15	CHLOROMETHANE	74-87-3	µg/L	5	<5	U
16	2-CHLOROTOLUENE	95-49-8	µg/L	5	<5	U
17	4-CHLOROTOLUENE	106-43-4	µg/L	5	<5	U
18	ISOPROPYLBENZENE (CUMENE)	98-82-8	µg/L	5	<5	U
19	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	µg/L	5	<5	U
20	1,2-DIBROMOETHANE (EDB)	106-93-4	µg/L	5	<5	U
21	DIBROMOMETHANE	74-95-3	µg/L	5	<5	U
22	1,2-DICHLOROBENZENE	95-50-1	µg/L	5	<5	U
23	1,3-DICHLOROBENZENE	541-73-1	µg/L	5	<5	U
24	1,4-DICHLOROBENZENE	106-46-7	µg/L	5	<5	U
25	DICHLORODIFLUOROMETHANE	75-71-8	µg/L	5	<5	U
26	1,1-DICHLOROETHANE	75-34-3	µg/L	5	<5	U
27	1,2-DICHLOROETHANE	107-06-2	µg/L	5	<5	U
28	1,1-DICHLOROETHENE	75-35-4	µg/L	5	<5	U
29	CIS-1,2-DICHLOROETHENE	156-59-2	µg/L	5	<5	U
30	TRANS-1,2-DICHLOROETHENE	156-60-5	µg/L	5	<5	U
31	1,2-DICHLOROPROPANE	78-87-5	µg/L	5	<5	U
32	1,3-DICHLOROPROPANE	142-28-9	µg/L	5	<5	U
33	2,2-DICHLOROPROPANE	594-20-7	µg/L	5	<5	U
34	1,1-DICHLOROPROPENE	563-58-6	µg/L	5	<5	U
35	CIS-1,3-DICHLOROPROPENE	10061-01-5	µg/L	5	<5	U
36	ETHYLBENZENE	100-41-4	µg/L	5	<5	U
37	HEXACHLOROBUTADIENE	87-68-3	µg/L	5	<5	U
38	P-ISOPROPYLTOLUENE	99-87-6	µg/L	5	<5	U
39	METHYLENE CHLORIDE	75-09-2	µg/L	5	<5	U

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#	Component Name	CAS No	Unit	RL	Result	Qualifier
40	NAPHTHALENE	91-20-3	µg/L	5	<5	U
41	N-PROPYLBENZENE	103-65-1	µg/L	5	<5	U
42	STYRENE	100-42-5	µg/L	5	<5	U
43	1,1,1,2-TETRACHLOROETHANE	630-20-6	µg/L	5	<5	U
44	1,1,2,2-TETRACHLOROETHANE	79-34-5	µg/L	5	<5	U
45	TETRACHLOROETHENE	127-18-4	µg/L	5	<5	U
46	TOLUENE	108-88-3	µg/L	5	<5	U
47	1,2,3-TRICHLOROBENZENE	87-61-6	µg/L	5	<5	U
48	1,2,4-TRICHLOROBENZENE	120-82-1	µg/L	5	<5	U
49	1,1,1-TRICHLOROETHANE	71-55-6	µg/L	5	<5	U
50	1,1,2-TRICHLOROETHANE	79-00-5	µg/L	5	<5	U
51	TRICHLOROETHENE	79-01-6	µg/L	5	<5	U
52	TRICHLOROFLUOROMETHANE	75-69-4	µg/L	5	<5	U
53	1,2,3-TRICHLOROPROPANE	96-18-4	µg/L	5	<5	U
54	1,2,4-TRIMETHYLBENZENE	95-63-6	µg/L	5	<5	U
55	1,3,5-TRIMETHYLBENZENE	108-67-8	µg/L	5	<5	U
56	VINYL CHLORIDE	75-01-4	µg/L	5	<5	U
57	O-XYLENE	95-47-6	µg/L	5	<5	U
58	M/P-XYLENE	108-38-3	µg/L	5	<5	U
59	XYLENES (TOTAL)	1330-20-7	µg/L	5	<5	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (BFB)	460-00-4	89-111	94
2	DIBROMOFLUOROMETHANE	1868-53-7	86-117	104
3	1,2-DICHLOROETHANE-D4	17060-07-0	81-113	103
4	TOLUENE-D8	2037-26-5	88-109	90
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	CHLOROBENZENE-D5	3114-55-4	50-200	104
2	1,4-DICHLOROBENZENE-D4	3855-82-1	50-200	99
3	FLUOROBENZENE	462-06-6	50-200	99
# of out-of-control				0

Not Detected (N.D.) is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Applied P & Ch Laboratory

Organic Analysis Results for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	06/13/97
Project ID:	L.A.D. UST 314	Service ID:	972816	Collected by:	
		Lab Sample ID:	97G2725-MB-02	Received Date:	06/13/97
Sample ID:	97G2725-MB-02	Sample Matrix	Water	Moisture %:	-
Sample Type:	Method Blank	Prep. Method:	5030	Instrument ID:	GC/MS: C
Anal. Method:	8260	Prep. Date:	06/13/97	Anal. Date:	06/13/97
Batch No:	97G2725	Prep. No:	-	Anal. Time:	04:40
Data File Name:	G2725K02	Sample Amount:	5 mL	Dilution Factor:	1
Methanol Vol.	-				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N) N	

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	BENZENE	71-43-2	µg/L	5	<5	U
2	BROMOBENZENE	108-86-1	µg/L	5	<5	U
3	BROMOCHLOROMETHANE	74-97-5	µg/L	5	<5	U
4	BROMODICHLOROMETHANE	75-27-4	µg/L	5	<5	U
5	BROMOFORM	75-25-2	µg/L	5	<5	U
6	BROMOMETHANE	74-83-9	µg/L	5	<5	U
7	N-BUTYLBENZENE	104-51-8	µg/L	5	<5	U
8	SEC-BUTYLBENZENE	135-98-8	µg/L	5	<5	U
9	TERT-BUTYLBENZENE	98-06-6	µg/L	5	<5	U
10	CARBON TETRACHLORIDE	56-23-5	µg/L	5	<5	U
11	CHLOROBENZENE	108-90-7	µg/L	5	<5	U
12	DIBROMOCHLOROMETHANE	124-48-1	µg/L	5	<5	U
13	CHLOROETHANE	75-00-3	µg/L	5	<5	U
14	CHLOROFORM	67-66-3	µg/L	5	<5	U
15	CHLOROMETHANE	74-87-3	µg/L	5	<5	U
16	2-CHLOROTOLUENE	95-49-8	µg/L	5	<5	U
17	4-CHLOROTOLUENE	106-43-4	µg/L	5	<5	U
18	ISOPROPYLBENZENE (CUMENE)	98-82-8	µg/L	5	<5	U
19	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	µg/L	5	<5	U
20	1,2-DIBROMOETHANE (EDB)	106-93-4	µg/L	5	<5	U
21	DIBROMOMETHANE	74-95-3	µg/L	5	<5	U
22	1,2-DICHLOROBENZENE	95-50-1	µg/L	5	<5	U
23	1,3-DICHLOROBENZENE	541-73-1	µg/L	5	<5	U
24	1,4-DICHLOROBENZENE	106-46-7	µg/L	5	<5	U
25	DICHLORODIFLUOROMETHANE	75-71-8	µg/L	5	<5	U
26	1,1-DICHLOROETHANE	75-34-3	µg/L	5	<5	U
27	1,2-DICHLOROETHANE	107-06-2	µg/L	5	<5	U
28	1,1-DICHLOROETHENE	75-35-4	µg/L	5	<5	U
29	CIS-1,2-DICHLOROETHENE	156-59-2	µg/L	5	<5	U
30	TRANS-1,2-DICHLOROETHENE	156-60-5	µg/L	5	<5	U
31	1,2-DICHLOROPROPANE	78-87-5	µg/L	5	<5	U
32	1,3-DICHLOROPROPANE	142-28-9	µg/L	5	<5	U
33	2,2-DICHLOROPROPANE	594-20-7	µg/L	5	<5	U
34	1,1-DICHLOROPROPENE	563-58-6	µg/L	5	<5	U
35	CIS-1,3-DICHLOROPROPENE	10061-01-5	µg/L	5	<5	U
36	ETHYLBENZENE	100-41-4	µg/L	5	<5	U
37	HEXACHLOROBUTADIENE	87-68-3	µg/L	5	<5	U
38	P-ISOPROPYLTOLUENE	99-87-6	µg/L	5	<5	U
39	METHYLENE CHLORIDE	75-09-2	µg/L	5	<5	U

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#	Component Name	CAS No	Unit	RL	Result	Qualifier
40	NAPHTHALENE	91-20-3	µg/L	5	<5	U
41	N-PROPYLBENZENE	103-65-1	µg/L	5	<5	U
42	STYRENE	100-42-5	µg/L	5	<5	U
43	1,1,1,2-TETRACHLOROETHANE	630-20-6	µg/L	5	<5	U
44	1,1,2,2-TETRACHLOROETHANE	79-34-5	µg/L	5	<5	U
45	TETRACHLOROETHENE	127-18-4	µg/L	5	<5	U
46	TOLUENE	108-88-3	µg/L	5	<5	U
47	1,2,3-TRICHLOROBENZENE	87-61-6	µg/L	5	<5	U
48	1,2,4-TRICHLOROBENZENE	120-82-1	µg/L	5	<5	U
49	1,1,1-TRICHLOROETHANE	71-55-6	µg/L	5	<5	U
50	1,1,2-TRICHLOROETHANE	79-00-5	µg/L	5	<5	U
51	TRICHLOROETHENE	79-01-6	µg/L	5	<5	U
52	TRICHLOROFLUOROMETHANE	75-69-4	µg/L	5	<5	U
53	1,2,3-TRICHLOROPROPANE	96-18-4	µg/L	5	<5	U
54	1,2,4-TRIMETHYLBENZENE	95-63-6	µg/L	5	<5	U
55	1,3,5-TRIMETHYLBENZENE	108-67-8	µg/L	5	<5	U
56	VINYL CHLORIDE	75-01-4	µg/L	5	<5	U
57	O-XYLENE	95-47-6	µg/L	5	<5	U
58	M/P-XYLENE	108-38-3	µg/L	5	<5	U
59	XYLENES (TOTAL)	1330-20-7	µg/L	5	<5	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (BFB)	460-00-4	89-111	92
2	DIBROMOFLUOROMETHANE	1868-53-7	86-117	98
3	1,2-DICHLOROETHANE-D4	17060-07-0	81-113	95
4	TOLUENE-D8	2037-26-5	88-109	93
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	CHLOROBENZENE-D5	3114-55-4	50-200	104
2	1,4-DICHLOROBENZENE-D4	3855-82-1	50-200	98
3	FLUOROBENZENE	462-06-6	50-200	105
# of out-of-control				0

Not Detected (N.D.) is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Applied P & Ch Laboratory

Organic Analysis Results for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	06/11/97
Project ID:	L.A.D. UST 314	Service ID:	972816	Collected by:	
		Lab Sample ID:	97-2816-1	Received Date:	06/11/97
Sample ID:	18609-314-342	Sample Matrix	Water	Moisture %:	-
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC/MS: C
Anal. Method:	8260	Prep. Date:	06/12/97	Anal. Date:	06/12/97
Batch No:	97G2725	Prep. No:	-	Anal. Time:	22:03
Data File Name:	2816-01	Sample Amount:	5 mL	Dilution Factor:	1
Methanol Vol.	-				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	N

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	BENZENE	71-43-2	µg/L	5	<5	U
2	BROMOBENZENE	108-86-1	µg/L	5	<5	U
3	BROMOCHLOROMETHANE	74-97-5	µg/L	5	<5	U
4	BROMODICHLOROMETHANE	75-27-4	µg/L	5	<5	U
5	BROMOFORM	75-25-2	µg/L	5	<5	U
6	BROMOMETHANE	74-83-9	µg/L	5	<5	U
7	N-BUTYLBENZENE	104-51-8	µg/L	5	<5	U
8	SEC-BUTYLBENZENE	135-98-8	µg/L	5	<5	U
9	TERT-BUTYLBENZENE	98-06-6	µg/L	5	<5	U
10	CARBON TETRACHLORIDE	56-23-5	µg/L	5	<5	U
11	CHLOROBENZENE	108-90-7	µg/L	5	<5	U
12	DIBROMOCHLOROMETHANE	124-48-1	µg/L	5	<5	U
13	CHLOROETHANE	75-00-3	µg/L	5	<5	U
14	CHLOROFORM	67-66-3	µg/L	5	<5	U
15	CHLOROMETHANE	74-87-3	µg/L	5	<5	U
16	2-CHLOROTOLUENE	95-49-8	µg/L	5	<5	U
17	4-CHLOROTOLUENE	106-43-4	µg/L	5	<5	U
18	ISOPROPYLBENZENE (CUMENE)	98-82-8	µg/L	5	<5	U
19	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	µg/L	5	<5	U
20	1,2-DIBROMOETHANE (EDB)	106-93-4	µg/L	5	<5	U
21	DIBROMOMETHANE	74-95-3	µg/L	5	<5	U
22	1,2-DICHLOROBENZENE	95-50-1	µg/L	5	<5	U
23	1,3-DICHLOROBENZENE	541-73-1	µg/L	5	<5	U
24	1,4-DICHLOROBENZENE	106-46-7	µg/L	5	<5	U
25	DICHLORODIFLUOROMETHANE	75-71-8	µg/L	5	<5	U
26	1,1-DICHLOROETHANE	75-34-3	µg/L	5	<5	U
27	1,2-DICHLOROETHANE	107-06-2	µg/L	5	<5	U
28	1,1-DICHLOROETHENE	75-35-4	µg/L	5	<5	U
29	CIS-1,2-DICHLOROETHENE	156-59-2	µg/L	5	<5	U
30	TRANS-1,2-DICHLOROETHENE	156-60-5	µg/L	5	<5	U
31	1,2-DICHLOROPROPANE	78-87-5	µg/L	5	<5	U
32	1,3-DICHLOROPROPANE	142-28-9	µg/L	5	<5	U
33	2,2-DICHLOROPROPANE	594-20-7	µg/L	5	<5	U
34	1,1-DICHLOROPROPENE	563-58-6	µg/L	5	<5	U
35	CIS-1,3-DICHLOROPROPENE	10061-01-5	µg/L	5	<5	U
36	ETHYLBENZENE	100-41-4	µg/L	5	<5	U
37	HEXACHLOROBUTADIENE	87-68-3	µg/L	5	<5	U
38	P-ISOPROPYLTOLUENE	99-87-6	µg/L	5	<5	U
39	METHYLENE CHLORIDE	75-09-2	µg/L	5	<5	U

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#	Component Name	CAS No	Unit	RL	Result	Qualifier
40	NAPHTHALENE	91-20-3	µg/L	5	<5	U
41	N-PROPYLBENZENE	103-65-1	µg/L	5	<5	U
42	STYRENE	100-42-5	µg/L	5	<5	U
43	1,1,1,2-TETRACHLOROETHANE	630-20-6	µg/L	5	<5	U
44	1,1,2,2-TETRACHLOROETHANE	79-34-5	µg/L	5	<5	U
45	TETRACHLOROETHENE	127-18-4	µg/L	5	<5	U
46	TOLUENE	108-88-3	µg/L	5	<5	U
47	1,2,3-TRICHLOROBENZENE	87-61-6	µg/L	5	<5	U
48	1,2,4-TRICHLOROBENZENE	120-82-1	µg/L	5	<5	U
49	1,1,1-TRICHLOROETHANE	71-55-6	µg/L	5	<5	U
50	1,1,2-TRICHLOROETHANE	79-00-5	µg/L	5	<5	U
51	TRICHLOROETHENE	79-01-6	µg/L	5	<5	U
52	TRICHLOROFLUOROMETHANE	75-69-4	µg/L	5	<5	U
53	1,2,3-TRICHLOROPROPANE	96-18-4	µg/L	5	<5	U
54	1,2,4-TRIMETHYLBENZENE	95-63-6	µg/L	5	<5	U
55	1,3,5-TRIMETHYLBENZENE	108-67-8	µg/L	5	<5	U
56	VINYL CHLORIDE	75-01-4	µg/L	5	<5	U
57	O-XYLENE	95-47-6	µg/L	5	<5	U
58	M/P-XYLENE	108-38-3	µg/L	5	<5	U
59	XYLENES (TOTAL)	1330-20-7	µg/L	5	<5	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (BFB)	460-00-4	89-111	96
2	DIBROMOFLUOROMETHANE	1868-53-7	86-117	99
3	1,2-DICHLOROETHANE-D4	17060-07-0	81-113	96
4	TOLUENE-D8	2037-26-5	88-109	93
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	CHLOROBENZENE-D5	3114-55-4	50-200	102
2	1,4-DICHLOROBENZENE-D4	3855-82-1	50-200	99
3	FLUOROBENZENE	462-06-6	50-200	97
# of out-of-control				0

Not Detected (N.D.) is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Applied P & Ch Laboratory

Organic Analysis Results for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	06/11/97
Project ID:	L.A.D. UST 314	Service ID:	972816	Collected by:	
		Lab Sample ID:	97-2816-2	Received Date:	06/11/97
Sample ID:	18609-314-344	Sample Matrix	Soil	Moisture %:	29.7
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC/MS: Q
Anal. Method:	8260	Prep. Date:	06/12/97	Anal. Date:	06/12/97
Batch No:	97G2703	Prep. No:	-	Anal. Time:	03:44
Data File Name:	2816-02	Sample Amount:	5 g	Dilution Factor:	1
Methanol Vol.	-				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	BENZENE	71-43-2	µg/kg	7.1	<7.1	U
2	BROMOBENZENE	108-86-1	µg/kg	7.1	<7.1	U
3	BROMOCHLOROMETHANE	74-97-5	µg/kg	7.1	<7.1	U
4	BROMODICHLOROMETHANE	75-27-4	µg/kg	7.1	<7.1	U
5	BROMOFORM	75-25-2	µg/kg	7.1	<7.1	U
6	BROMOMETHANE	74-83-9	µg/kg	7.1	<7.1	U
7	N-BUTYLBENZENE	104-51-8	µg/kg	7.1	<7.1	U
8	SEC-BUTYLBENZENE	135-98-8	µg/kg	7.1	<7.1	U
9	TERT-BUTYLBENZENE	98-06-6	µg/kg	7.1	<7.1	U
10	CARBON TETRACHLORIDE	56-23-5	µg/kg	7.1	<7.1	U
11	CHLOROBENZENE	108-90-7	µg/kg	7.1	<7.1	U
12	DIBROMOCHLOROMETHANE	124-48-1	µg/kg	7.1	<7.1	U
13	CHLOROETHANE	75-00-3	µg/kg	7.1	<7.1	U
14	CHLOROFORM	67-66-3	µg/kg	7.1	<7.1	U
15	CHLOROMETHANE	74-87-3	µg/kg	7.1	<7.1	U
16	2-CHLOROTOLUENE	95-49-8	µg/kg	7.1	<7.1	U
17	4-CHLOROTOLUENE	106-43-4	µg/kg	7.1	<7.1	U
18	ISOPROPYLBENZENE (CUMENE)	98-82-8	µg/kg	7.1	<7.1	U
19	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	µg/kg	7.1	<7.1	U
20	1,2-DIBROMOETHANE (EDB)	106-93-4	µg/kg	7.1	<7.1	U
21	DIBROMOMETHANE	74-95-3	µg/kg	7.1	<7.1	U
22	1,2-DICHLOROBENZENE	95-50-1	µg/kg	7.1	<7.1	U
23	1,3-DICHLOROBENZENE	541-73-1	µg/kg	7.1	<7.1	U
24	1,4-DICHLOROBENZENE	106-46-7	µg/kg	7.1	<7.1	U
25	DICHLORODIFLUOROMETHANE	75-71-8	µg/kg	7.1	<7.1	U
26	1,1-DICHLOROETHANE	75-34-3	µg/kg	7.1	<7.1	U
27	1,2-DICHLOROETHANE	107-06-2	µg/kg	7.1	<7.1	U
28	1,1-DICHLOROETHENE	75-35-4	µg/kg	7.1	<7.1	U
29	CIS-1,2-DICHLOROETHENE	156-59-2	µg/kg	7.1	<7.1	U
30	TRANS-1,2-DICHLOROETHENE	156-60-5	µg/kg	7.1	<7.1	U
31	1,2-DICHLOROPROPANE	78-87-5	µg/kg	7.1	<7.1	U
32	1,3-DICHLOROPROPANE	142-28-9	µg/kg	7.1	<7.1	U
33	2,2-DICHLOROPROPANE	594-20-7	µg/kg	7.1	<7.1	U
34	1,1-DICHLOROPROPENE	563-58-6	µg/kg	7.1	<7.1	U
35	CIS-1,3-DICHLOROPROPENE	10061-01-5	µg/kg	7.1	<7.1	U
36	ETHYLBENZENE	100-41-4	µg/kg	7.1	<7.1	U
37	HEXACHLOROBUTADIENE	87-68-3	µg/kg	7.1	<7.1	U
38	P-ISOPROPYLTOLUENE	99-87-6	µg/kg	7.1	<7.1	U
39	METHYLENE CHLORIDE	75-09-2	µg/kg	7.1	<7.1	U

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#	Component Name	CAS No	Unit	RL	Result	Qualifier
40	NAPHTHALENE	91-20-3	µg/kg	7.1	<7.1	U
41	N-PROPYLBENZENE	103-65-1	µg/kg	7.1	<7.1	U
42	STYRENE	100-42-5	µg/kg	7.1	<7.1	U
43	1,1,1,2-TETRACHLOROETHANE	630-20-6	µg/kg	7.1	<7.1	U
44	1,1,2,2-TETRACHLOROETHANE	79-34-5	µg/kg	7.1	<7.1	U
45	TETRACHLOROETHENE	127-18-4	µg/kg	7.1	<7.1	U
46	TOLUENE	108-88-3	µg/kg	7.1	<7.1	U
47	1,2,3-TRICHLOROBENZENE	87-61-6	µg/kg	7.1	<7.1	U
48	1,2,4-TRICHLOROBENZENE	120-82-1	µg/kg	7.1	<7.1	U
49	1,1,1-TRICHLOROETHANE	71-55-6	µg/kg	7.1	<7.1	U
50	1,1,2-TRICHLOROETHANE	79-00-5	µg/kg	7.1	<7.1	U
51	TRICHLOROETHENE	79-01-6	µg/kg	7.1	<7.1	U
52	TRICHLOROFLUOROMETHANE	75-69-4	µg/kg	7.1	<7.1	U
53	1,2,3-TRICHLOROPROPANE	96-18-4	µg/kg	7.1	<7.1	U
54	1,2,4-TRIMETHYLBENZENE	95-63-6	µg/kg	7.1	<7.1	U
55	1,3,5-TRIMETHYLBENZENE	108-67-8	µg/kg	7.1	<7.1	U
56	VINYL CHLORIDE	75-01-4	µg/kg	7.1	<7.1	U
57	O-XYLENE	95-47-6	µg/kg	7.1	<7.1	U
58	M/P-XYLENE	108-38-3	µg/kg	7.1	<7.1	U
59	XYLENES (TOTAL)	1330-20-7	µg/kg	7.1	<7.1	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (BFB)	460-00-4	86-114	111
2	DIBROMOFLUOROMETHANE	1868-53-7	85-116	98
3	1,2-DICHLOROETHANE-D4	17060-07-0	80-119	88
4	TOLUENE-D8	2037-26-5	81-116	113
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	CHLOROBENZENE-D5	3114-55-4	50-200	104
2	1,4-DICHLOROBENZENE-D4	3855-82-1	50-200	98
3	FLUOROBENZENE	462-06-6	50-200	104
# of out-of-control				0

Not Detected (N.D.) is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Applied P & Ch Laboratory

Organic Analysis Results for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	06/11/97
Project ID:	L.A.D. UST 314	Service ID:	972816	Collected by:	
		Lab Sample ID:	97-2816-3	Received Date:	06/11/97
Sample ID:	**18609-314-345**	Sample Matrix	Soil	Moisture %:	11.3
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC/MS: Q
Anal. Method:	8260	Prep. Date:	06/12/97	Anal. Date:	06/12/97
Batch No:	97G2703	Prep. No:	–	Anal. Time:	04:17
Data File Name:	2816-03	Sample Amount:	5 g	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	BENZENE	71-43-2	µg/kg	5.6	<5.6	U
2	BROMOBENZENE	108-86-1	µg/kg	5.6	<5.6	U
3	BROMOCHLOROMETHANE	74-97-5	µg/kg	5.6	<5.6	U
4	BROMODICHLOROMETHANE	75-27-4	µg/kg	5.6	<5.6	U
5	BROMOFORM	75-25-2	µg/kg	5.6	<5.6	U
6	BROMOMETHANE	74-83-9	µg/kg	5.6	<5.6	U
7	N-BUTYLBENZENE	104-51-8	µg/kg	5.6	<5.6	U
8	SEC-BUTYLBENZENE	135-98-8	µg/kg	5.6	<5.6	U
9	TERT-BUTYLBENZENE	98-06-6	µg/kg	5.6	<5.6	U
10	CARBON TETRACHLORIDE	56-23-5	µg/kg	5.6	<5.6	U
11	CHLOROBENZENE	108-90-7	µg/kg	5.6	<5.6	U
12	DIBROMOCHLOROMETHANE	124-48-1	µg/kg	5.6	<5.6	U
13	CHLOROETHANE	75-00-3	µg/kg	5.6	<5.6	U
14	CHLOROFORM	67-66-3	µg/kg	5.6	<5.6	U
15	CHLOROMETHANE	74-87-3	µg/kg	5.6	<5.6	U
16	2-CHLOROTOLUENE	95-49-8	µg/kg	5.6	<5.6	U
17	4-CHLOROTOLUENE	106-43-4	µg/kg	5.6	<5.6	U
18	ISOPROPYLBENZENE (CUMENE)	98-82-8	µg/kg	5.6	<5.6	U
19	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	µg/kg	5.6	<5.6	U
20	1,2-DIBROMOETHANE (EDB)	106-93-4	µg/kg	5.6	<5.6	U
21	DIBROMOMETHANE	74-95-3	µg/kg	5.6	<5.6	U
22	1,2-DICHLOROBENZENE	95-50-1	µg/kg	5.6	<5.6	U
23	1,3-DICHLOROBENZENE	541-73-1	µg/kg	5.6	<5.6	U
24	1,4-DICHLOROBENZENE	106-46-7	µg/kg	5.6	<5.6	U
25	DICHLORODIFLUOROMETHANE	75-71-8	µg/kg	5.6	<5.6	U
26	1,1-DICHLOROETHANE	75-34-3	µg/kg	5.6	<5.6	U
27	1,2-DICHLOROETHANE	107-06-2	µg/kg	5.6	<5.6	U
28	1,1-DICHLOROETHENE	75-35-4	µg/kg	5.6	<5.6	U
29	CIS-1,2-DICHLOROETHENE	156-59-2	µg/kg	5.6	<5.6	U
30	TRANS-1,2-DICHLOROETHENE	156-60-5	µg/kg	5.6	<5.6	U
31	1,2-DICHLOROPROPANE	78-87-5	µg/kg	5.6	<5.6	U
32	1,3-DICHLOROPROPANE	142-28-9	µg/kg	5.6	<5.6	U
33	2,2-DICHLOROPROPANE	594-20-7	µg/kg	5.6	<5.6	U
34	1,1-DICHLOROPROPENE	563-58-6	µg/kg	5.6	<5.6	U
35	CIS-1,3-DICHLOROPROPENE	10061-01-5	µg/kg	5.6	<5.6	U
36	ETHYLBENZENE	100-41-4	µg/kg	5.6	<5.6	U
37	HEXACHLOROBUTADIENE	87-68-3	µg/kg	5.6	<5.6	U
38	P-ISOPROPYLTOLUENE	99-87-6	µg/kg	5.6	<5.6	U
39	METHYLENE CHLORIDE	75-09-2	µg/kg	5.6	<5.6	U

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#	Component Name	CAS No	Unit	RL	Result	Qualifier
40	NAPHTHALENE	91-20-3	µg/kg	5.6	<5.6	U
41	N-PROPYLBENZENE	103-65-1	µg/kg	5.6	<5.6	U
42	STYRENE	100-42-5	µg/kg	5.6	<5.6	U
43	1,1,1,2-TETRACHLOROETHANE	630-20-6	µg/kg	5.6	<5.6	U
44	1,1,2,2-TETRACHLOROETHANE	79-34-5	µg/kg	5.6	<5.6	U
45	TETRACHLOROETHENE	127-18-4	µg/kg	5.6	<5.6	U
46	TOLUENE	108-88-3	µg/kg	5.6	<5.6	U
47	1,2,3-TRICHLOROBENZENE	87-61-6	µg/kg	5.6	<5.6	U
48	1,2,4-TRICHLOROBENZENE	120-82-1	µg/kg	5.6	<5.6	U
49	1,1,1-TRICHLOROETHANE	71-55-6	µg/kg	5.6	<5.6	U
50	1,1,2-TRICHLOROETHANE	79-00-5	µg/kg	5.6	<5.6	U
51	TRICHLOROETHENE	79-01-6	µg/kg	5.6	<5.6	U
52	TRICHLOROFLUOROMETHANE	75-69-4	µg/kg	5.6	<5.6	U
53	1,2,3-TRICHLOROPROPANE	96-18-4	µg/kg	5.6	<5.6	U
54	1,2,4-TRIMETHYLBENZENE	95-63-6	µg/kg	5.6	<5.6	U
55	1,3,5-TRIMETHYLBENZENE	108-67-8	µg/kg	5.6	<5.6	U
56	VINYL CHLORIDE	75-01-4	µg/kg	5.6	<5.6	U
57	O-XYLENE	95-47-6	µg/kg	5.6	<5.6	U
58	M/P-XYLENE	108-38-3	µg/kg	5.6	<5.6	U
59	XYLENES (TOTAL)	1330-20-7	µg/kg	5.6	<5.6	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (BFB)	460-00-4	86-114	105
2	DIBROMOFLUOROMETHANE	1868-53-7	85-116	94
3	1,2-DICHLOROETHANE-D4	17060-07-0	80-119	91
4	TOLUENE-D8	2037-26-5	81-116	104
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	CHLOROBENZENE-D5	3114-55-4	50-200	109
2	1,4-DICHLOROBENZENE-D4	3855-82-1	50-200	97
3	FLUOROBENZENE	462-06-6	50-200	110
# of out-of-control				0

Not Detected (N.D.) is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	06/11/97
Project ID:	L.A.D. UST 314	Service ID:	972816	Collected by:	
		Lab Sample ID:	97-2816-4	Received Date:	06/11/97
Sample ID:	18609-314-346	Sample Matrix	Soil	Moisture %:	14.5
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC/MS: Q
Anal. Method:	8260	Prep. Date:	06/12/97	Anal. Date:	06/12/97
Batch No:	97G2703	Prep. No:	–	Anal. Time:	04:50
Data File Name:	2816-04	Sample Amount:	5 g	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	BENZENE	71-43-2	µg/kg	5.8	<5.8	U
2	BROMOBENZENE	108-86-1	µg/kg	5.8	<5.8	U
3	BROMOCHLOROMETHANE	74-97-5	µg/kg	5.8	<5.8	U
4	BROMODICHLOROMETHANE	75-27-4	µg/kg	5.8	<5.8	U
5	BROMOFORM	75-25-2	µg/kg	5.8	<5.8	U
6	BROMOMETHANE	74-83-9	µg/kg	5.8	<5.8	U
7	N-BUTYLBENZENE	104-51-8	µg/kg	5.8	<5.8	U
8	SEC-BUTYLBENZENE	135-98-8	µg/kg	5.8	<5.8	U
9	TERT-BUTYLBENZENE	98-06-6	µg/kg	5.8	<5.8	U
10	CARBON TETRACHLORIDE	56-23-5	µg/kg	5.8	<5.8	U
11	CHLOROBENZENE	108-90-7	µg/kg	5.8	<5.8	U
12	DIBROMOCHLOROMETHANE	124-48-1	µg/kg	5.8	<5.8	U
13	CHLOROETHANE	75-00-3	µg/kg	5.8	<5.8	U
14	CHLOROFORM	67-66-3	µg/kg	5.8	<5.8	U
15	CHLOROMETHANE	74-87-3	µg/kg	5.8	<5.8	U
16	2-CHLOROTOLUENE	95-49-8	µg/kg	5.8	<5.8	U
17	4-CHLOROTOLUENE	106-43-4	µg/kg	5.8	<5.8	U
18	ISOPROPYLBENZENE (CUMENE)	98-82-8	µg/kg	5.8	<5.8	U
19	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	µg/kg	5.8	<5.8	U
20	1,2-DIBROMOETHANE (EDB)	106-93-4	µg/kg	5.8	<5.8	U
21	DIBROMOMETHANE	74-95-3	µg/kg	5.8	<5.8	U
22	1,2-DICHLOROBENZENE	95-50-1	µg/kg	5.8	<5.8	U
23	1,3-DICHLOROBENZENE	541-73-1	µg/kg	5.8	<5.8	U
24	1,4-DICHLOROBENZENE	106-46-7	µg/kg	5.8	<5.8	U
25	DICHLORODIFLUOROMETHANE	75-71-8	µg/kg	5.8	<5.8	U
26	1,1-DICHLOROETHANE	75-34-3	µg/kg	5.8	<5.8	U
27	1,2-DICHLOROETHANE	107-06-2	µg/kg	5.8	<5.8	U
28	1,1-DICHLOROETHENE	75-35-4	µg/kg	5.8	<5.8	U
29	CIS-1,2-DICHLOROETHENE	156-59-2	µg/kg	5.8	<5.8	U
30	TRANS-1,2-DICHLOROETHENE	156-60-5	µg/kg	5.8	<5.8	U
31	1,2-DICHLOROPROPANE	78-87-5	µg/kg	5.8	<5.8	U
32	1,3-DICHLOROPROPANE	142-28-9	µg/kg	5.8	<5.8	U
33	2,2-DICHLOROPROPANE	594-20-7	µg/kg	5.8	<5.8	U
34	1,1-DICHLOROPROPENE	563-58-6	µg/kg	5.8	<5.8	U
35	CIS-1,3-DICHLOROPROPENE	10061-01-5	µg/kg	5.8	<5.8	U
36	ETHYLBENZENE	100-41-4	µg/kg	5.8	<5.8	U
37	HEXACHLOROBUTADIENE	87-68-3	µg/kg	5.8	<5.8	U
38	P-ISOPROPYLTOLUENE	99-87-6	µg/kg	5.8	<5.8	U
39	METHYLENE CHLORIDE	75-09-2	µg/kg	5.8	<5.8	U

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#	Component Name	CAS No	Unit	RL	Result	Qualifier
40	NAPHTHALENE	91-20-3	µg/kg	5.8	<5.8	U
41	N-PROPYLBENZENE	103-65-1	µg/kg	5.8	<5.8	U
42	STYRENE	100-42-5	µg/kg	5.8	<5.8	U
43	1,1,1,2-TETRACHLOROETHANE	630-20-6	µg/kg	5.8	<5.8	U
44	1,1,2,2-TETRACHLOROETHANE	79-34-5	µg/kg	5.8	<5.8	U
45	TETRACHLOROETHENE	127-18-4	µg/kg	5.8	<5.8	U
46	TOLUENE	108-88-3	µg/kg	5.8	<5.8	U
47	1,2,3-TRICHLOROBENZENE	87-61-6	µg/kg	5.8	<5.8	U
48	1,2,4-TRICHLOROBENZENE	120-82-1	µg/kg	5.8	<5.8	U
49	1,1,1-TRICHLOROETHANE	71-55-6	µg/kg	5.8	<5.8	U
50	1,1,2-TRICHLOROETHANE	79-00-5	µg/kg	5.8	<5.8	U
51	TRICHLOROETHENE	79-01-6	µg/kg	5.8	<5.8	U
52	TRICHLOROFLUOROMETHANE	75-69-4	µg/kg	5.8	<5.8	U
53	1,2,3-TRICHLOROPROPANE	96-18-4	µg/kg	5.8	<5.8	U
54	1,2,4-TRIMETHYLBENZENE	95-63-6	µg/kg	5.8	<5.8	U
55	1,3,5-TRIMETHYLBENZENE	108-67-8	µg/kg	5.8	<5.8	U
56	VINYL CHLORIDE	75-01-4	µg/kg	5.8	<5.8	U
57	O-XYLENE	95-47-6	µg/kg	5.8	<5.8	U
58	M/P-XYLENE	108-38-3	µg/kg	5.8	<5.8	U
59	XYLENES (TOTAL)	1330-20-7	µg/kg	5.8	<5.8	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (BFB)	460-00-4	86-114	112
2	DIBROMOFLUOROMETHANE	1868-53-7	85-116	105
3	1,2-DICHLOROETHANE-D4	17060-07-0	80-119	106
4	TOLUENE-D8	2037-26-5	81-116	109
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	CHLOROBENZENE-D5	3114-55-4	50-200	106
2	1,4-DICHLOROBENZENE-D4	3855-82-1	50-200	98
3	FLUOROBENZENE	462-06-6	50-200	99
# of out-of-control				0

Not Detected (N.D.) is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

Applied P & Ch Laboratory

Organic Analysis Results for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	06/11/97
Project ID:	L.A.D. UST 314	Service ID:	972816	Collected by:	
		Lab Sample ID:	97-2816-5	Received Date:	06/11/97
Sample ID:	18609-314-347	Sample Matrix	Soil	Moisture %:	4.2
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC/MS: Q
Anal. Method:	8260	Prep. Date:	06/12/97	Anal. Date:	06/12/97
Batch No:	97G2703	Prep. No:	–	Anal. Time:	05:23
Data File Name:	2816-05	Sample Amount:	5 g	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	BENZENE	71-43-2	µg/kg	5.2	<5.2	U
2	BROMOBENZENE	108-86-1	µg/kg	5.2	<5.2	U
3	BROMOCHLOROMETHANE	74-97-5	µg/kg	5.2	<5.2	U
4	BROMODICHLOROMETHANE	75-27-4	µg/kg	5.2	<5.2	U
5	BROMOFORM	75-25-2	µg/kg	5.2	<5.2	U
6	BROMOMETHANE	74-83-9	µg/kg	5.2	<5.2	U
7	N-BUTYLBENZENE	104-51-8	µg/kg	5.2	<5.2	U
8	SEC-BUTYLBENZENE	135-98-8	µg/kg	5.2	<5.2	U
9	TERT-BUTYLBENZENE	98-06-6	µg/kg	5.2	<5.2	U
10	CARBON TETRACHLORIDE	56-23-5	µg/kg	5.2	<5.2	U
11	CHLOROBENZENE	108-90-7	µg/kg	5.2	<5.2	U
12	DIBROMOCHLOROMETHANE	124-48-1	µg/kg	5.2	<5.2	U
13	CHLOROETHANE	75-00-3	µg/kg	5.2	<5.2	U
14	CHLOROFORM	67-66-3	µg/kg	5.2	<5.2	U
15	CHLOROMETHANE	74-87-3	µg/kg	5.2	<5.2	U
16	2-CHLOROTOLUENE	95-49-8	µg/kg	5.2	<5.2	U
17	4-CHLOROTOLUENE	106-43-4	µg/kg	5.2	<5.2	U
18	ISOPROPYLBENZENE (CUMENE)	98-82-8	µg/kg	5.2	<5.2	U
19	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	µg/kg	5.2	<5.2	U
20	1,2-DIBROMOETHANE (EDB)	106-93-4	µg/kg	5.2	<5.2	U
21	DIBROMOMETHANE	74-95-3	µg/kg	5.2	<5.2	U
22	1,2-DICHLOROBENZENE	95-50-1	µg/kg	5.2	<5.2	U
23	1,3-DICHLOROBENZENE	541-73-1	µg/kg	5.2	<5.2	U
24	1,4-DICHLOROBENZENE	106-46-7	µg/kg	5.2	<5.2	U
25	DICHLORODIFLUOROMETHANE	75-71-8	µg/kg	5.2	<5.2	U
26	1,1-DICHLOROETHANE	75-34-3	µg/kg	5.2	<5.2	U
27	1,2-DICHLOROETHANE	107-06-2	µg/kg	5.2	<5.2	U
28	1,1-DICHLOROETHENE	75-35-4	µg/kg	5.2	<5.2	U
29	CIS-1,2-DICHLOROETHENE	156-59-2	µg/kg	5.2	<5.2	U
30	TRANS-1,2-DICHLOROETHENE	156-60-5	µg/kg	5.2	<5.2	U
31	1,2-DICHLOROPROPANE	78-87-5	µg/kg	5.2	<5.2	U
32	1,3-DICHLOROPROPANE	142-28-9	µg/kg	5.2	<5.2	U
33	2,2-DICHLOROPROPANE	594-20-7	µg/kg	5.2	<5.2	U
34	1,1-DICHLOROPROPENE	563-58-6	µg/kg	5.2	<5.2	U
35	CIS-1,3-DICHLOROPROPENE	10061-01-5	µg/kg	5.2	<5.2	U
36	ETHYLBENZENE	100-41-4	µg/kg	5.2	<5.2	U
37	HEXACHLOROBUTADIENE	87-68-3	µg/kg	5.2	<5.2	U
38	P-ISOPROPYLTOLUENE	99-87-6	µg/kg	5.2	<5.2	U
39	METHYLENE CHLORIDE	75-09-2	µg/kg	5.2	<5.2	U

34324

#	Component Name	CAS No	Unit	RL	Result	Qualifier
40	NAPHTHALENE	91-20-3	µg/kg	5.2	<5.2	U
41	N-PROPYLBENZENE	103-65-1	µg/kg	5.2	<5.2	U
42	STYRENE	100-42-5	µg/kg	5.2	<5.2	U
43	1,1,1,2-TETRACHLOROETHANE	630-20-6	µg/kg	5.2	<5.2	U
44	1,1,2,2-TETRACHLOROETHANE	79-34-5	µg/kg	5.2	<5.2	U
45	TETRACHLOROETHENE	127-18-4	µg/kg	5.2	<5.2	U
46	TOLUENE	108-88-3	µg/kg	5.2	<5.2	U
47	1,2,3-TRICHLOROBENZENE	87-61-6	µg/kg	5.2	<5.2	U
48	1,2,4-TRICHLOROBENZENE	120-82-1	µg/kg	5.2	<5.2	U
49	1,1,1-TRICHLOROETHANE	71-55-6	µg/kg	5.2	<5.2	U
50	1,1,2-TRICHLOROETHANE	79-00-5	µg/kg	5.2	<5.2	U
51	TRICHLOROETHENE	79-01-6	µg/kg	5.2	<5.2	U
52	TRICHLOROFLUOROMETHANE	75-69-4	µg/kg	5.2	<5.2	U
53	1,2,3-TRICHLOROPROPANE	96-18-4	µg/kg	5.2	<5.2	U
54	1,2,4-TRIMETHYLBENZENE	95-63-6	µg/kg	5.2	<5.2	U
55	1,3,5-TRIMETHYLBENZENE	108-67-8	µg/kg	5.2	<5.2	U
56	VINYL CHLORIDE	75-01-4	µg/kg	5.2	<5.2	U
57	O-XYLENE	95-47-6	µg/kg	5.2	<5.2	U
58	M/P-XYLENE	108-38-3	µg/kg	5.2	<5.2	U
59	XYLENES (TOTAL)	1330-20-7	µg/kg	5.2	<5.2	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (BFB)	460-00-4	86-114	104
2	DIBROMOFLUOROMETHANE	1868-53-7	85-116	93
3	1,2-DICHLOROETHANE-D4	17060-07-0	80-119	92
4	TOLUENE-D8	2037-26-5	81-116	103
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	CHLOROBENZENE-D5	3114-55-4	50-200	106
2	1,4-DICHLOROBENZENE-D4	3855-82-1	50-200	95
3	FLUOROBENZENE	462-06-6	50-200	104
# of out-of-control				0

Not Detected (N.D.) is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

34325

Applied P & Ch Laboratory

Organic Analysis Results for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	06/11/97
Project ID:	L.A.D. UST 314	Service ID:	972816	Collected by:	
		Lab Sample ID:	97-2816-6	Received Date:	06/11/97
Sample ID:	**18609-314-348**	Sample Matrix	Soil	Moisture %:	5.0
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC/MS: Q
Anal. Method:	8260	Prep. Date:	06/12/97	Anal. Date:	06/12/97
Batch No:	97G2703	Prep. No:	–	Anal. Time:	05:56
Data File Name:	2816-06	Sample Amount:	5 g	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	BENZENE	71-43-2	µg/kg	5.3	<5.3	U
2	BROMOBENZENE	108-86-1	µg/kg	5.3	<5.3	U
3	BROMOCHLOROMETHANE	74-97-5	µg/kg	5.3	<5.3	U
4	BROMODICHLOROMETHANE	75-27-4	µg/kg	5.3	<5.3	U
5	BROMOFORM	75-25-2	µg/kg	5.3	<5.3	U
6	BROMOMETHANE	74-83-9	µg/kg	5.3	<5.3	U
7	N-BUTYLBENZENE	104-51-8	µg/kg	5.3	<5.3	U
8	SEC-BUTYLBENZENE	135-98-8	µg/kg	5.3	<5.3	U
9	TERT-BUTYLBENZENE	98-06-6	µg/kg	5.3	<5.3	U
10	CARBON TETRACHLORIDE	56-23-5	µg/kg	5.3	<5.3	U
11	CHLOROBENZENE	108-90-7	µg/kg	5.3	<5.3	U
12	DIBROMOCHLOROMETHANE	124-48-1	µg/kg	5.3	<5.3	U
13	CHLOROETHANE	75-00-3	µg/kg	5.3	<5.3	U
14	CHLOROFORM	67-66-3	µg/kg	5.3	<5.3	U
15	CHLOROMETHANE	74-87-3	µg/kg	5.3	<5.3	U
16	2-CHLOROTOLUENE	95-49-8	µg/kg	5.3	<5.3	U
17	4-CHLOROTOLUENE	106-43-4	µg/kg	5.3	<5.3	U
18	ISOPROPYLBENZENE (CUMENE)	98-82-8	µg/kg	5.3	<5.3	U
19	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	µg/kg	5.3	<5.3	U
20	1,2-DIBROMOETHANE (EDB)	106-93-4	µg/kg	5.3	<5.3	U
21	DIBROMOMETHANE	74-95-3	µg/kg	5.3	<5.3	U
22	1,2-DICHLOROBENZENE	95-50-1	µg/kg	5.3	<5.3	U
23	1,3-DICHLOROBENZENE	541-73-1	µg/kg	5.3	<5.3	U
24	1,4-DICHLOROBENZENE	106-46-7	µg/kg	5.3	<5.3	U
25	DICHLORODIFLUOROMETHANE	75-71-8	µg/kg	5.3	<5.3	U
26	1,1-DICHLOROETHANE	75-34-3	µg/kg	5.3	<5.3	U
27	1,2-DICHLOROETHANE	107-06-2	µg/kg	5.3	<5.3	U
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30	TRANS-1,2-DICHLOROETHENE	156-60-5	µg/kg	5.3	<5.3	U
31	1,2-DICHLOROPROPANE	78-87-5	µg/kg	5.3	<5.3	U
32	1,3-DICHLOROPROPANE	142-28-9	µg/kg	5.3	<5.3	U
33	2,2-DICHLOROPROPANE	594-20-7	µg/kg	5.3	<5.3	U
34	1,1-DICHLOROPROPENE	563-58-6	µg/kg	5.3	<5.3	U
35	CIS-1,3-DICHLOROPROPENE	10061-01-5	µg/kg	5.3	<5.3	U
36	ETHYLBENZENE	100-41-4	µg/kg	5.3	<5.3	U
37	HEXACHLOROBUTADIENE	87-68-3	µg/kg	5.3	<5.3	U
38	P-ISOPROPYLTOLUENE	99-87-6	µg/kg	5.3	<5.3	U
39	METHYLENE CHLORIDE	75-09-2	µg/kg	5.3	<5.3	U

343

#	Component Name	CAS No	Unit	RL	Result	Qualifier
40	NAPHTHALENE	91-20-3	µg/kg	5.3	<5.3	U
41	N-PROPYLBENZENE	103-65-1	µg/kg	5.3	<5.3	U
42	STYRENE	100-42-5	µg/kg	5.3	<5.3	U
43	1,1,1,2-TETRACHLOROETHANE	630-20-6	µg/kg	5.3	<5.3	U
44	1,1,2,2-TETRACHLOROETHANE	79-34-5	µg/kg	5.3	<5.3	U
45	TETRACHLOROETHENE	127-18-4	µg/kg	5.3	<5.3	U
46	TOLUENE	108-88-3	µg/kg	5.3	<5.3	U
47	1,2,3-TRICHLOROBENZENE	87-61-6	µg/kg	5.3	<5.3	U
48	1,2,4-TRICHLOROBENZENE	120-82-1	µg/kg	5.3	<5.3	U
49	1,1,1-TRICHLOROETHANE	71-55-6	µg/kg	5.3	<5.3	U
50	1,1,2-TRICHLOROETHANE	79-00-5	µg/kg	5.3	<5.3	U
51	TRICHLOROETHENE	79-01-6	µg/kg	5.3	<5.3	U
52	TRICHLOROFLUOROMETHANE	75-69-4	µg/kg	5.3	<5.3	U
53	1,2,3-TRICHLOROPROPANE	96-18-4	µg/kg	5.3	<5.3	U
54	1,2,4-TRIMETHYLBENZENE	95-63-6	µg/kg	5.3	<5.3	U
55	1,3,5-TRIMETHYLBENZENE	108-67-8	µg/kg	5.3	<5.3	U
56	VINYL CHLORIDE	75-01-4	µg/kg	5.3	<5.3	U
57	O-XYLENE	95-47-6	µg/kg	5.3	<5.3	U
58	M/P-XYLENE	108-38-3	µg/kg	5.3	<5.3	U
59	XYLENES (TOTAL)	1330-20-7	µg/kg	5.3	<5.3	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (BFB)	460-00-4	86-114	103
2	DIBROMOFLUOROMETHANE	1868-53-7	85-116	91
3	1,2-DICHLOROETHANE-D4	17060-07-0	80-119	93
4	TOLUENE-D8	2037-26-5	81-116	100
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	CHLOROBENZENE-D5	3114-55-4	50-200	113
2	1,4-DICHLOROBENZENE-D4	3855-82-1	50-200	99
3	FLUOROBENZENE	462-06-6	50-200	110
# of out-of-control				0

Not Detected (N.D.) is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

3432

Columbia Analytical Services inc.

June 13, 1997

Mary Schneider
OHM Remediation Service Corporation
2031 Main Street
Irvine, CA 92714

RECEIVED
JUN 16 1997

Re: MCAS El Toro / Project #18609

Dear Mary:

Enclosed are the results of the samples submitted to our laboratory on April 29, 1997. For your reference, these analyses have been assigned our service request numbers L9701497, L9701498 and L9701499.

All analyses were performed in accordance with our laboratory's quality assurance program. Results are intended to be considered in their entirety and apply only to the samples analyzed. Columbia Analytical Services is not responsible for use of less than the complete report.

Columbia Analytical Services is certified for environmental analyses by the California Department of Health Services (certificate number: 1296, expiration August 1998.)

Please call if you have any questions.

Respectfully submitted,

Columbia Analytical Services, Inc.

Ed Wilson
Project Chemist

EW:z

001

6925 Canoga Avenue ▪ Canoga Park, CA 91303 ▪ (818) 587-5550 ▪ Fax (818) 587-5555

C(mediation Services Corp.

CHAIN-OF-CUSTODY RECORD

LAB COPY
Form 0019
Field Technical Services
Rev. 08/89

201925

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526 L9701497

PROJECT NAME: UST-247-DOTO CONTENTS
PROJECT LOCATION: MCAS EL TORO
PROJ. NO.: 18609
PROJECT CONTACT: THIZAR WILLIAMS
PROJECT TELEPHONE NO.: (714) 263-1146 x620
CLIENT'S REPRESENTATIVE: LYNN HORNECKER, SWDIV
PROJECT MANAGER/SUPERVISOR: BILL SEDLAK, OHM

ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS): GAS | BTEX + MTBE | 8015M full range | 8081 PCB only | Title 22 Metals | Ignitability | CAS

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	GAS	BTEX + MTBE	8015M full range	8081 PCB only	Title 22 Metals	Ignitability	CAS	REMARKS
1	18609-247-296	4/29/97	1040		X	UST 247 ~~SOIL~~ CONTENTS SOIL [signature] 4/29/97	2	X	X		X	X			4 oz jars
2															
3															
4															
5															
6		[signature] 4/29/97													
7															
8															
9															
10															

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1	1	[signature], OHM	Kmca	4/29/97	420
2					
3					
4					

REMARKS
72 hr TAT
PCB on hold

SAMPLER'S SIGNATURE: [signature]

OHM Remediation Services Corp.

CHAIN-OF-CUSTODY RECORD

LAB CO
Form 00
Field Technical Servic
Rev. 08/

201971

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526 L970498

PROJECT NAME	PROJECT LOCATION
UST - 445 - DOTO - CONTENTS	MCAS EL TORO

PROJ. NO.	PROJECT CONTACT	PROJECT TELEPHONE NO.
18609	THIZAR WILLIAMS	(714) 263-1146 x620

CLIENT'S REPRESENTATIVE	PROJECT MANAGER/SUPERVISOR
LYNN HORNECKER, SNDIV	BILL SEDLACK, OHM

CAS

ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS): ABTAS/BTEX + MTBE; C D 8015M full range; 8081 PCB only; Metals Title 22; Elgnitability

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ABTAS/BTEX + MTBE	C D 8015M full range	8081 PCB only	Metals Title 22	Elgnitability			REMARKS
1	18609-445-292	4/29/97	0800		X	UST 445A CONTENTS	3	X	X	~~X~~ NA	X	X	X		PRODUCT, VOA NO PRES
2	18609-445-293	4/29/97	0900		X	UST 445B CONTENTS	3	X	X	~~X~~ NA	X	X	X		PRODUCT, VOA NO PRES
3	18609-445-294	4/29/97	0830		X	UST 445C CONTENTS OWS	6	X	X	X	X	X	X		
4	18609-295	4/29/97	0700		X	TRIP BLANK (4/29/97)	2	X							
5															
6															
7															
8															
9															
10															

4/29/97

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1	1-4	OHM	Kenneth	4/29/97	420
2					
3					
4					

REMARKS
72 hr TAT
item 1-2 : 8081 on hold

SAMPLER'S SIGNATURE

Oil Remediation Services Corp.

CHAIN-OF-CUSTODY RECORD

LAB COPY
Form 0019
Field Technical Services
Rev. 08/89

201924

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

L9901499

PROJECT NAME: UST - CONTENTS
PROJECT LOCATION: MCAS EL TORO
PROJ. NO.: 18609
PROJECT CONTACT: THIZAR WILLIAMS
PROJECT TELEPHONE NO.: (714) 263-1146 X620
CLIENT'S REPRESENTATIVE: LYNN HORNECKER, SWDIV
PROJECT MANAGER/SUPERVISOR: BILL SEDLAK, OHM

ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS): ABGAS | BTEX + MTBE; CD 8015M full range; E 8081 PCB only; F Title 22 Metals; Ignitability; CAS

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ABGAS	BTEX + MTBE	CD 8015M	8081	Title 22 Metals	Ignitability	CAS	REMARKS
1	18609-314-291	4/29/97	1425		X	UST 314 CONTENTS 314W-1	1	NA ~~X~~	~~X~~	4/29/97	X	~~X~~	NA		
2	18609-314-291	4/29/97	0945		X	UST 314 CONTENTS 314W-1	5	X	X	X	X			4/29/97	PCB on hold
3															
4															
5															
6															
7															
8															
9															
10															

4/29/97

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1	1-2	OHM		4/29/97	420
2					
3					
4					

REMARKS: 4/29/97
~~72 h TAT~~ ~~1 W~~ 2 WEEK TAT
One tank, sampled over 2 days.

SAMPLER'S SIGNATURE

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	OHM Remediation Services Corp.	**Service Request:**	L9701497
Project:	UST-247-D070-CONTENTS/18609	**Date Collected:**	NA
Sample Matrix:	Solid	**Date Received:**	NA

MTBE, BTEX and TPH as Gasoline

Sample Name:	Method Blank	Units:	mg/Kg (ppm)
Lab Code:	L970501-MB	Basis:	Dry
Test Notes:			

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Lab Qualifier
Methyl *tert*-Butyl Ether	EPA 5030	8020	0.010	1	5/1/97	5/1/97	0.010	U
Benzene	EPA 5030	8020	0.005	1	5/1/97	5/1/97	0.005	U
Toluene	EPA 5030	8020	0.005	1	5/1/97	5/1/97	0.005	U
Ethylbenzene	EPA 5030	8020	0.005	1	5/1/97	5/1/97	0.005	U
Xylenes, Total	EPA 5030	8020	0.005	1	5/1/97	5/1/97	0.005	U
TPH as Gasoline	EPA 5030	8015M	0.1	1	5/1/97	5/1/97	0.1	U

Approved By: _____ Date: 6/13/97

1S22/020597p

6925 Canoga Avenue ▪ Canoga Park, CA 91303 ▪ (818) 587-5550 ▪ Fax (818) 587-5555

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	OHM Remediation Services Corp.	**Service Request:**	L9701497
Project:	UST-247-D070-CONTENTS/18609	**Date Collected:**	4/29/97
Sample Matrix:	Solid	**Date Received:**	4/29/97

MTBE, BTEX and TPH as Gasoline

Sample Name:	18609-247-296	Units:	mg/Kg (ppm)
Lab Code:	L9701497-001	Basis:	Dry
Test Notes:			

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Lab Qualifier
Methyl *tert*-Butyl Ether	EPA 5030	8020	0.010	1	5/1/97	5/1/97	0.010	U
Benzene	EPA 5030	8020	0.005	1	5/1/97	5/1/97	0.005	U
Toluene	EPA 5030	8020	0.005	1	5/1/97	5/1/97	0.005	U
Ethylbenzene	EPA 5030	8020	0.005	1	5/1/97	5/1/97	0.005	U
Xylenes, Total	EPA 5030	8020	0.005	1	5/1/97	5/1/97	0.005	U
[illegible] as Gasoline	EPA 5030	8015M	0.1	1	5/1/97	5/1/97	0.1	U

Approved By: _____ Date: 6/13/97

1S22/020597p

6925 Canoga Avenue ▪ Canoga Park, CA 91303 ▪ (818) 587-5550 ▪ Fax (818) 587-5555

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	OHM Remediation Services Corp.	**Service Request:**	L9701498
Project:	UST-445-D070-CONTENTS/18609	**Date Collected:**	NA
Sample Matrix:	Liquid	**Date Received:**	NA

MTBE, BTEX and TPH as Gasoline

Sample Name:	Method Blank	Units:	ug/L (ppb)
Lab Code:	L970501-MB	Basis:	NA
Test Notes:			

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Lab Qualifier
Methyl *tert*-Butyl Ether	EPA 5030	8020	10	1	5/1/97	5/1/97	10	U
Benzene	EPA 5030	8020	0.5	1	5/1/97	5/1/97	0.5	U
Toluene	EPA 5030	8020	0.5	1	5/1/97	5/1/97	0.5	U
Ethylbenzene	EPA 5030	8020	0.5	1	5/1/97	5/1/97	0.5	U
Xylenes, Total	EPA 5030	8020	1.0	1	5/1/97	5/1/97	1.0	U
TPH as Gasoline	EPA 5030	8015M	50	1	5/1/97	5/1/97	50	U

Approved By: _____ Date: 6/13/97

1S22/020597p

6925 Canoga Avenue ▪ Canoga Park, CA 91303 ▪ (818) 587-5550 ▪ Fax (818) 587-5555

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	OHM Remediation Services Corp.	**Service Request:**	L9701498
Project:	UST-445-D070-CONTENTS/18609	**Date Collected:**	4/29/97
Sample Matrix:	Liquid	**Date Received:**	4/29/97

MTBE, BTEX and TPH as Gasoline

Sample Name:	18609-445-292	Units:	ug/L (ppb)
Lab Code:	L9701498-001	Basis:	NA
Test Notes:			

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Lab Qualifier
Methyl *tert*-Butyl Ether	EPA 5030	8020	10	50000	5/1/97	5/1/97	500000	U
Benzene	EPA 5030	8020	0.5	50000	5/1/97	5/1/97	25000	U
Toluene	EPA 5030	8020	0.5	50000	5/1/97	5/1/97	330000	
Ethylbenzene	EPA 5030	8020	0.5	50000	5/1/97	5/1/97	640000	
Xylenes, Total	EPA 5030	8020	1.0	50000	5/1/97	5/1/97	3600000	
TPH as Gasoline	EPA 5030	8015M	50	50000	5/1/97	5/1/97	450000000	

Approved By: Ed Wil Date: 6/13/97

1S22/020597p

01498VOA.JC1 - Sample 6/12/97

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: OHM Remediation Services Corp.
Project: UST-445-D070-CONTENTS/18609
Sample Matrix: Liquid

Service Request: L9701498
Date Collected: 4/29/97
Date Received: 4/29/97

MTBE, BTEX and TPH as Gasoline

Sample Name: 18609-445-293
Lab Code: L9701498-002
Test Notes:

Units: ug/L (ppb)
Basis: NA

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Lab Qualifier
Methyl *tert*-Butyl Ether	EPA 5030	8020	10	50000	5/1/97	5/1/97	500000	U
Benzene	EPA 5030	8020	0.5	50000	5/1/97	5/1/97	25000	U
Toluene	EPA 5030	8020	0.5	50000	5/1/97	5/1/97	240000	
Ethylbenzene	EPA 5030	8020	0.5	50000	5/1/97	5/1/97	500000	
Xylenes, Total	EPA 5030	8020	1.0	50000	5/1/97	5/1/97	2600000	
TPH as Gasoline	EPA 5030	8015M	50	HT60000	5/1/97	5/1/97	380000000	

Approved By: _____ Date: 6/13/97

1S22/020597p

01498VOA.JC1 - Sample (2) 6/12/97

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	OHM Remediation Services Corp.	**Service Request:**	L9701498
Project:	UST-445-D070-CONTENTS/18609	**Date Collected:**	4/29/97
Sample Matrix:	Liquid	**Date Received:**	4/29/97

MTBE, BTEX and TPH as Gasoline

Sample Name:	18609-445-294	Units:	ug/L (ppb)
Lab Code:	L9701498-003	Basis:	NA
Test Notes:			

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Lab Qualifier
Methyl *tert*-Butyl Ether	EPA 5030	8020	10	1	5/1/97	5/1/97	10	U
Benzene	EPA 5030	8020	0.5	1	5/1/97	5/1/97	0.5	U
Toluene	EPA 5030	8020	0.5	1	5/1/97	5/1/97	0.5	U
Ethylbenzene	EPA 5030	8020	0.5	1	5/1/97	5/1/97	0.5	U
Xylenes, Total	EPA 5030	8020	1.0	1	5/1/97	5/1/97	1.0	U
TPH as Gasoline	EPA 5030	8015M	50	1	5/1/97	5/1/97	50	U

Approved By: _____ Date: 6/13/97

1S22/020597p

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	OHM Remediation Services Corp.	**Service Request:**	L9701498
Project:	UST-445-D070-CONTENTS/18609	**Date Collected:**	4/29/97
Sample Matrix:	Liquid	**Date Received:**	4/29/97

MTBE, BTEX and TPH as Gasoline

Sample Name:	18609-445-295	Units:	ug/L (ppb)
Lab Code:	L9701498-004	Basis:	NA
Test Notes:			

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Lab Qualifier
Methyl *tert*-Butyl Ether	EPA 5030	8020	10	1	5/1/97	5/1/97	10	U
Benzene	EPA 5030	8020	0.5	1	5/1/97	5/1/97	0.5	U
Toluene	EPA 5030	8020	0.5	1	5/1/97	5/1/97	0.5	U
Ethylbenzene	EPA 5030	8020	0.5	1	5/1/97	5/1/97	0.5	U
Xylenes, Total	EPA 5030	8020	1.0	1	5/1/97	5/1/97	1.0	U
TPH as Gasoline	EPA 5030	8015M	50	1	5/1/97	5/1/97	50	U

Approved By: _____ Date: 6/13/97

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	OHM Remediation Services Corp.	**Service Request:**	L9701499
Project:	UST-314W-1/18609	**Date Collected:**	NA
Sample Matrix:	Liquid	**Date Received:**	NA

MTBE, BTEX and TPH as Gasoline

Sample Name:	Method Blank	Units:	ug/L (ppb)
Lab Code:	L970505-MB	Basis:	NA
Test Notes:			

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Lab Qualifier
Methyl *tert*-Butyl Ether	EPA 5030	8020	10	1	5/5/97	5/5/97	10	U
Benzene	EPA 5030	8020	0.5	1	5/5/97	5/5/97	0.5	U
Toluene	EPA 5030	8020	0.5	1	5/5/97	5/5/97	0.5	U
Ethylbenzene	EPA 5030	8020	0.5	1	5/5/97	5/5/97	0.5	U
Xylenes, Total	EPA 5030	8020	1.0	1	5/5/97	5/5/97	1.0	U
TPH as Gasoline	EPA 5030	8015M	50	1	5/5/97	5/5/97	50	U

Approved By: _____ Date: 6/13/97

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01499VOA.JC1 - MBlank 6/12/97

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	OHM Remediation Services Corp.	**Service Request:**	L9701499
Project:	UST-314W-1/18609	**Date Collected:**	4/29/97
Sample Matrix:	Liquid	**Date Received:**	4/29/97

MTBE, BTEX and TPH as Gasoline

Sample Name:	18609-314-291	Units:	ug/L (ppb)
Lab Code:	L9701499-001	Basis:	NA
Test Notes:			

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Lab Qualifier
Methyl *tert*-Butyl Ether	EPA 5030	8020	10	10	5/5/97	5/5/97	100	U
Benzene	EPA 5030	8020	0.5	10	5/5/97	5/5/97	43	
Toluene	EPA 5030	8020	0.5	10	5/5/97	5/5/97	410	
Ethylbenzene	EPA 5030	8020	0.5	10	5/5/97	5/5/97	47	
Xylenes, Total	EPA 5030	8020	1.0	10	5/5/97	5/5/97	310	
TPH as Gasoline	EPA 5030	8015M	50	10	5/5/97	5/5/97	11000	

Approved By: _____ Date: 6/13/97

1S22/020597p

01499VOA.JC1 - Sample 6/12/97

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: OHM Remediation Services Corp.
Project: UST-247-D070-CONTENTS/18609
Sample Matrix: Solid

Service Request: L9701497
Date Collected: 4/29/97
Date Received: 4/29/97
Date Extracted: 5/1/97
Date Analyzed: 5/1/97

Surrogate Recovery Summary
MTBE, BTEX and TPH as Gasoline

Prep Method: EPA 5030
Analysis Method: 8020/8015M

Units: PERCENT
Basis: NA

Sample Name	Lab Code	Test Notes	Percent Recovery a,a,a-Trifluorotoluene	Percent Recovery a,a,a-Trifluorotoluene
18609-247-296	L9701497-001		78	87
Method Blank	L970501-MB		94	103
Lab Control Sample	L970502-LCS		100	106
Matrix Spike	L9701497-001MS		84	91
Duplicate Matrix Spike	L9701497-001DMS		86	91
CAS Acceptance Limits:			60-130	60-140

Approved By: _____ Date: 6/13/97

SUR2/020397p
01497VOA.IZ1 - SUR 6/12/97

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	OHM Remediation Services Corp.	**Service Request:**	L9701497
Project:	UST-247-D070-CONTENTS/18609	**Date Collected:**	NA
LCS Matrix:	Solid	**Date Received:**	NA
		Date Extracted:	5/2/97
		Date Analyzed:	5/2/97

Laboratory Control Sample Summary
MTBE, BTEX and TPH as Gasoline

Sample Name:	Lab Control Sample	Units:	mg/Kg (ppm)
Lab Code:	L970502-LCS	Basis:	Dry
Test Notes:			

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Lab Qualifier
Benzene	EPA 5030	8020	0.0200	0.0145	72	39-150	
Toluene	EPA 5030	8020	0.0200	0.0144	72	46-148	
Ethylbenzene	EPA 5030	8020	0.0200	0.0141	71	32-160	
TPH as Gasoline	EPA 5030	8015M	1.00	0.75	75	70-140	

Approved By: _____ Date: 6/13/97

LCS/020597p
01497VOA.IZ1 - LCS 6/12/97

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

C	OHM Remediation Services Corp.	**Service Request:**	L9701497
Project:	UST-247-D070-CONTENTS/18609	**Date Collected:**	4/29/97
Sample Matrix:	Solid	**Date Received:**	4/29/97
		Date Extracted:	5/1/97
		Date Analyzed:	5/1/97

Matrix Spike/Duplicate Matrix Spike Summary
MTBE, BTEX and TPH as Gasoline

Sample Name:	18609-247-296	Units:	mg/Kg (ppm)
Lab Code:	L9701497-001MS, L9701497-001DMS	Basis:	Dry
Test Notes:			

Analyte	Prep Method	Analysis Method	MRL	Spike Level MS	Spike Level DMS	Sample Result	Spike Result MS	Spike Result DMS	Percent Recovery MS	Percent Recovery DMS	CAS Acceptance Limits	Relative Percent Difference	Lab Qualifier
Benzene	EPA 5030	8020	0.005	.040	0.0400	0.005	0.0244	0.0290	61	72	39-150	19	
Toluene	EPA 5030	8020	0.005	.040	0.0400	0.005	0.0240	0.0279	60	70	46-148	15	
Ethylbenzene	EPA 5030	8020	0.005	.040	0.0400	0.005	0.0229	0.0267	57	67	32-160	16	
TPH as Gasoline	EPA 5030	8015M	0.1	1.00	1.00	0.1	0.50	0.52	50	52	70-140	4	

Approved By: _____ Date: 6/13/97

01497VOA.IZ1 - DMS 6/12/97

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: OHM Remediation Services Corp.
Project: UST-445-D070-CONTENTS/18609
Sample Matrix: Liquid

Service Request: L9701498
Date Collected: 4/29/97
Date Received: 4/29/97
Date Extracted: 5/1/97
Date Analyzed: 5/1/97

Surrogate Recovery Summary
MTBE, BTEX and TPH as Gasoline

Prep Method: EPA 5030
Analysis Method: 8020/8015M

Units: PERCENT
Basis: NA

Sample Name	Lab Code	Test Notes	Percent Recovery 4-Bromofluorobenzene	Percent Recovery 4-Bromofluorobenzene
18609-445-292	L9701498-001	*	104	279
18609-445-293	L9701498-002	*	99	250
18609-445-294	L9701498-003		90	117
18609-445-295	L9701498-004		91	115
Method Blank	L970501-MB		90	111
Lab Control Sample	L970501-LCS		89	111
18609-445-294	L9701498-003MS		82	112
18609-445-294	L9701498-003DMS		83	107

CAS Acceptance Limits: 60-130 60-140

* Not Applicable because of the sample matrix. The gas chromatogram showed target components that interfered with determination of the surrogate. The sample was not reanalyzed.

Approved By: _____ Date: 6/13/97

SUR2/020397p
01498VOA.JC1 - SUR 6/12/97

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	OHM Remediation Services Corp.	**Service Request:**	L9701498
Project:	UST-445-D070-CONTENTS/18609	**Date Collected:**	NA
LCS Matrix:	Liquid	**Date Received:**	NA
		Date Extracted:	5/1/97
		Date Analyzed:	5/1/97

Laboratory Control Sample Summary
MTBE, BTEX and TPH as Gasoline

Sample Name:	Lab Control Sample	Units:	ug/L (ppb)
Lab Code:	L970501-LCS	Basis:	NA
Test Notes:			

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Lab Qualifier
Benzene	EPA 5030	8020	5.00	4.51	90	39-150	
Toluene	EPA 5030	8020	5.00	4.46	89	46-148	
Ethylbenzene	EPA 5030	8020	5.00	4.35	87	32-160	
TPH as Gasoline	EPA 5030	8015M	1000	1010	101	70-140	

Approved By: _____ Date: 6/13/97

LCS/020597p
01498VOA.JC1 - LCS 6/12/97

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	OHM Remediation Services Corp.	**Service Request:**	L9701498
Project:	UST-445-D070-CONTENTS/18609	**Date Collected:**	4/29/97
Sample Matrix:	Liquid	**Date Received:**	4/29/97
		Date Extracted:	5/1/97
		Date Analyzed:	5/1/97

Matrix Spike/Duplicate Matrix Spike Summary
MTBE, BTEX and TPH as Gasoline

Sample Name:	18609-445-294	Units:	ug/L (ppb)
Lab Code:	L9701498-003MS, L9701498-003DMS	Basis:	NA
Test Notes:			

Analyte	Prep Method	Analysis Method	MRL	Spike Level MS	Spike Level DMS	Sample Result	Spike Result MS	Spike Result DMS	Percent Recovery MS	Percent Recovery DMS	CAS Acceptance Limits	Relative Percent Difference	Lab Qualifier
Benzene	EPA 5030	8020	0.5	5.00	5.00	0.5	4.16	4.26	83	85	39-150	2	
Toluene	EPA 5030	8020	0.5	5.00	5.00	0.5	4.09	4.17	82	83	46-148	2	
Ethylbenzene	EPA 5030	8020	0.5	5.00	5.00	0.5	3.96	4.05	79	81	32-160	2	
TPH as Gasoline	EPA 5030	8015M	50	1000	1000	50	978	966	98	97	70-140	1	

Approved By: _____ Date: 6/13/97

01498VOA.JC1 - DMS 6/12/97

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: OHM Remediation Services Corp.
Project: UST-314W-1/18609
Sample Matrix: Liquid

Service Request: L9701499
Date Collected: 4/29/97
Date Received: 4/29/97
Date Extracted: 5/5/97
Date Analyzed: 5/5/97

Surrogate Recovery Summary
MTBE, BTEX and TPH as Gasoline

Prep Method: EPA 5030
Analysis Method: 8020/8015M

Units: PERCENT
Basis: NA

Sample Name	Lab Code	Test Notes	Percent Recovery 4-Bromofluorobenzene	Percent Recovery 4-Bromofluorobenzene
18609-314-291	L9701499-001		82	88
Method Blank	L970505-MB		96	106
Lab Control Sample	L970505-LCS		94	102
Matrix Spike	L9701499-001MS		91	98
Duplicate Matrix Spike	L9701499-001DMS		86	93

CAS Acceptance Limits: 60-130 60-140

Approved By: _____ Date: 6/13/97

SUR2/020397p
01499VOA.JC1 - SUR 6/12/97

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: OHM Remediation Services Corp.
Project: UST-314W-1/18609
LCS Matrix: Liquid

Service Request: L9701499
Date Collected: NA
Date Received: NA
Date Extracted: 5/5/97
Date Analyzed: 5/5/97

Laboratory Control Sample Summary
MTBE, BTEX and TPH as Gasoline

Sample Name: Lab Control Sample
Lab Code: L970505-LCS
Test Notes:

Units: ug/L (ppb)
Basis: NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Lab Qualifier
Benzene	EPA 5030	8020	40.0	35.2	88	39-150	
Toluene	EPA 5030	8020	40.0	33.6	84	46-148	
Ethylbenzene	EPA 5030	8020	40.0	33.6	84	32-160	
TPH as Gasoline	EPA 5030	8015M	1000	811	81	70-140	

Approved By: _____ Date: 6/13/97

LCS/020597p
01499VOA.JC1 - LCS 6/12/97

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

C	OHM Remediation Services Corp.	**Service Request:**	L9701499
Project:	UST-314W-1/18609	**Date Collected:**	4/29/97
Sample Matrix:	Liquid	**Date Received:**	4/29/97
		Date Extracted:	5/6/97
		Date Analyzed:	5/6/97

Matrix Spike/Duplicate Matrix Spike Summary
MTBE, BTEX and TPH as Gasoline

Sample Name:	18609-314-291 UST 314W-1	Units:	ug/L (ppb)
Lab Code:	L9701499-001 MS, L9701499-001 DMS	Basis:	NA
Test Notes:	*		

Analyte	Prep Method	Analysis Method	MRL	Spike Level MS	Spike Level DMS	Sample Result	Spike Result MS	Spike Result DMS	Percent Recovery MS	Percent Recovery DMS	CAS Acceptance Limits	Relative Percent Difference	Lab Qualifier
Benzene	EPA 5030	8020	0.5	40.0	40.0	4.28	41.2	41.7	92	94	39-150	1	
Toluene	EPA 5030	8020	0.5	40.0	40.0	41.3	72.1	71.9	77	77	46-148	0	
Ethylbenzene	EPA 5030	8020	0.5	40.0	40.0	4.72	38.7	37.7	85	82	32-160	3	
TPH as Gasoline	EPA 5030	8015M	1000	1000	1000	1120	1470	1630	35	51	70-140	10	

Matrix spike outside acceptance criteria. Laboratory control sample was acceptable, therefore data was approved.

Approved By: _____ Date: 6/13/97

01499VOA.JC1 - DMS 6/12/97

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	OHM Remediation Services Corp.	**Service Request:**	L9701497
Project:	UST-247-D070-CONTENTS/18609	**Date Collected:**	NA
Sample Matrix:	Liquid	**Date Received:**	NA

Hydrocarbon Scan / Fuel Characterization

Sample Name:	Method Blank	Units:	mg/L (ppm)
Lab Code:	L970501-MB	Basis:	NA
Test Notes:	*		

Analyte	Prep Method	Analysis Method	PQL	Dilution Factor	Date Extracted	Date Analyzed	Result	LAB Qualifier
C4-C12 - GRO	3550M	8015M	10	1	5/1/97	5/1/97	10	U
C13-C22 - DRO	3550M	8015M	10	1	5/1/97	5/1/97	10	U
C23->C23 - HRO	3550M	8015M	10	1	5/1/97	5/1/97	10	U
TPH-EXTRACTABLE	3550M	8015M	10	1	5/1/97	5/1/97	10	U
Fuel Characterization	3550M	8015M		1	5/1/97	5/1/97	NA	

*	Quantified with diesel fuel
GRO	Gasoline Range Organics
DRO	Diesel Range Organics
HRO	Heavy Oil Range Organics

Approved By: _____ Date: 6/13/97

1S22/052595

01497SOH.MG1 - MBlank 6/12/97

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	OHM Remediation Services Corp.	**Service Request:**	L9701497
Project:	UST-247-D070-CONTENTS/18609	**Date Collected:**	4/29/97
Sample Matrix:	Solid	**Date Received:**	4/29/97

Hydrocarbon Scan / Fuel Characterization

Sample Name:	18609-247-296	Units:	mg/Kg (ppm)
Lab Code:	L9701497-001	Basis:	Dry
Test Notes:	*		

Analyte	Prep Method	Analysis Method	PQL	Dilution Factor	Date Extracted	Date Analyzed	Result	LAB Qualifier
C4-C12 - GRO	3550M	8015M	12	1	5/1/97	5/2/97	12	U
C13-C22 - DRO	3550M	8015M	12	1	5/1/97	5/2/97	12	U
C23->C23 - HRO	3550M	8015M	12	1	5/1/97	5/2/97	12	U
TPH-EXTRACTABLE	3550M	8015M	12	1	5/1/97	5/2/97	12	U
Fuel Characterization	3550M	8015M		1	5/1/97	5/2/97	NA	

*	Quantified with diesel fuel
GRO	Gasoline Range Organics
DRO	Diesel Range Organics
HRO	Heavy Oil Range Organics

Approved By: _____ Date: 6/13/97

1S22/052595

01497SOH.MG1 - Sample 6/12/97

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	OHM Remediation Services Corp.	**Service Request:**	L9701498
Project:	UST-445-D070-CONTENTS/18609	**Date Collected:**	NA
Sample Matrix:	Liquid	**Date Received:**	NA

Hydrocarbon Scan / Fuel Characterization

Sample Name:	Method Blank	Units:	mg/L (ppm)
Lab Code:	L970501-MB	Basis:	NA
Test Notes:	*		

Analyte	Prep Method	Analysis Method	PQL	Dilution Factor	Date Extracted	Date Analyzed	Result	LAB Qualifier
C4 - C12 GRO	3510M	8015M	0.5	1	5/1/97	5/1/97	0.5	U
C13 - C22 DRO	3510M	8015M	0.5	1	5/1/97	5/1/97	0.5	U
C23 > C23 HRO	3510M	8015M	0.5	1	5/1/97	5/1/97	0.5	U
TPH-EXTRACTABLE	3510M	8015M	0.5	1	5/1/97	5/1/97	0.5	U
Fuel Characterization	3510M	8015M		1	5/1/97	5/1/97	NA	

*	Quantified with diesel fuel
GRO	Gasoline Range Organics
DRO	Diesel Range Organics
HRO	Heavy Oil Range Organics

Approved By: _____ Date: 6/13/97

1S22/052595

01498SOH.MG2 - MBlank 6/12/97

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	OHM Remediation Services Corp.	**Service Request:**	L9701498
Project:	UST-445-D070-CONTENTS/18609	**Date Collected:**	4/29/97
Sample Matrix:	Liquid	**Date Received:**	4/29/97

Hydrocarbon Scan / Fuel Characterization

Sample Name:	18609-445-294	Units:	mg/L (ppm)
Lab Code:	L9701498-003	Basis:	NA
Test Notes:	*		

Analyte	Prep Method	Analysis Method	PQL	Dilution Factor	Date Extracted	Date Analyzed	Result	LAB Qualifier
C4 - C12 GRO	3510M	8015M	0.5	1	5/1/97	5/1/97	0.5	U
C13 - C22 DRO	3510M	8015M	0.5	1	5/1/97	5/1/97	0.5	U
C23 > C23 HRO	3510M	8015M	0.5	1	5/1/97	5/1/97	0.5	U
TPH-EXTRACTABLE	3510M	8015M	0.5	1	5/1/97	5/1/97	0.5	U
Fuel Characterization	3510M	8015M		1	5/1/97	5/1/97	NA	

*	Quantified with diesel fuel
GRO	Gasoline Range Organics
DRO	Diesel Range Organics
HRO	Heavy Oil Range Organics

Approved By: _____ Date: 6/13/97

1S22/052595

01498SOH.MG2 - Sample 6/12/97

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: OHM Remediation Services Corp.
Project: UST-445-D070-CONTENTS/18609
Sample Matrix: Liquid

Service Request: L9701498
Date Collected: NA
Date Received: NA

Hydrocarbon Scan / Fuel Characterization

Sample Name: Method Blank
Lab Code: L970501-MB
Test Notes: *

Units: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	PQL	Dilution Factor	Date Extracted	Date Analyzed	Result	LAB Qualifier
C4-C12 - GRO	3550M	8015M	10	1	5/1/97	5/1/97	10	U
C13-C22 - DRO	3550M	8015M	10	1	5/1/97	5/1/97	10	U
C23->C23 - HRO	3550M	8015M	10	1	5/1/97	5/1/97	10	U
TPH-EXTRACTABLE	3550M	8015M	10	1	5/1/97	5/1/97	10	U
Fuel Characterization	3550M	8015M		1	5/1/97	5/1/97	NA	

*	Quantified with diesel fuel
GRO	Gasoline Range Organics
DRO	Diesel Range Organics
HRO	Heavy Oil Range Organics

Approved By: _____ Date: 6/13/97

1S22/052595

01498SOH.MG1 - MBlank 6/12/97

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

.ent:	OHM Remediation Services Corp.	**Service Request:**	L9701498
Project:	UST-445-D070-CONTENTS/18609	**Date Collected:**	4/29/97
Sample Matrix:	Liquid	**Date Received:**	4/29/97

Hydrocarbon Scan / Fuel Characterization

Sample Name:	18609-445-292	Units:	mg/L (ppm)
Lab Code:	L9701498-001	Basis:	NA
Test Notes:	* / C		

Analyte	Prep Method	Analysis Method	PQL	Dilution Factor	Date Extracted	Date Analyzed	Result	LAB Qualifier
C4-C12 - GRO	3550M	8015M	10	1000	5/1/97	5/1/97	10000	U
C13-C22 - DRO	3550M	8015M	10	1000	5/1/97	5/1/97	1000000	
C23->C23 - HRO	3550M	8015M	10	1000	5/1/97	5/1/97	10000	U
TPH-EXTRACTABLE	3550M	8015M	10	1000	5/1/97	5/1/97	1000000	
Fuel Characterization	3550M	8015M		1000	5/1/97	5/1/97	JP-5	

*	Quantified with JP-5 fuel
GRO	Gasoline Range Organics
DRO	Diesel Range Organics
HRO	Heavy Oil Range Organics
C	The MRL is elevated because the sample required diluting.

Approved By: _____ Date: 6/13/97

1S22/052595

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01498SOH.MG1 - Sample 6/12/97

Page No.:

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	OHM Remediation Services Corp.	**Service Request:**	L9701498
Project:	UST-445-D070-CONTENTS/18609	**Date Collected:**	4/29/97
Sample Matrix:	Liquid	**Date Received:**	4/29/97

Hydrocarbon Scan / Fuel Characterization

Sample Name:	18609-445-293	Units:	mg/L (ppm)
Lab Code:	L9701498-002	Basis:	NA
Test Notes:	* / C		

Analyte	Prep Method	Analysis Method	PQL	Dilution Factor	Date Extracted	Date Analyzed	Result	LAB Qualifier
C4-C12 - GRO	3550M	8015M	10	1000	5/1/97	5/1/97	10000	U
C13-C22 - DRO	3550M	8015M	10	1000	5/1/97	5/1/97	1000000	
C23->C23 - HRO	3550M	8015M	10	1000	5/1/97	5/1/97	10000	U
TPH-EXTRACTABLE	3550M	8015M	10	1000	5/1/97	5/1/97	1000000	
Fuel Characterization	3550M	8015M		1000	5/1/97	5/1/97	JP-5	

*	Quantified with JP-5 fuel
GRO	Gasoline Range Organics
DRO	Diesel Range Organics
HRO	Heavy Oil Range Organics
C	The MRL is elevated because the sample required diluting.

Approved By: _____ Date: 6/13/97

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01498SOH.MG1 - Sample (2) 6/12/97

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	OHM Remediation Services Corp.	**Service Request:**	L9701499
Project:	UST-314W-1/18609	**Date Collected:**	NA
Sample Matrix:	Liquid	**Date Received:**	NA

Hydrocarbon Scan / Fuel Characterization

Sample Name:	Method Blank	Units:	mg/L (ppm)
Lab Code:	L970501-MB	Basis:	NA
Test Notes:	*		

Analyte	Prep Method	Analysis Method	PQL	Dilution Factor	Date Extracted	Date Analyzed	Result	LAB Qualifier
C4-C12 - GRO	3510M	8015M	0.5	1	5/1/97	5/1/97	0.5	U
C13-C22 - DRO	3510M	8015M	0.5	1	5/1/97	5/1/97	0.5	U
C23->C23 - HRO	3510M	8015M	0.5	1	5/1/97	5/1/97	0.5	U
TPH-EXTRACTABLE	3510M	8015M	0.5	1	5/1/97	5/1/97	0.5	U
Fuel Characterization	3510M	8015M		1	5/1/97	5/1/97	NA	

*	Quantified with diesel fuel
GRO	Gasoline Range Organics
DRO	Diesel Range Organics
HRO	Heavy Oil Range Organics

Approved By: _____ Date: 6/13/97

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01499SOH.MG1 - MBlank 6/13/97

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	OHM Remediation Services Corp.	**Service Request:**	L9701499
Project:	UST-314W-1/18609	**Date Collected:**	4/29/97
Sample Matrix:	Liquid	**Date Received:**	4/29/97

Hydrocarbon Scan / Fuel Characterization

Sample Name:	18609-314-291	Units:	mg/L (ppm)
Lab Code:	L9701499-001	Basis:	NA
Test Notes:	*		

Analyte	Prep Method	Analysis Method	PQL	Dilution Factor	Date Extracted	Date Analyzed	Result	LAB Qualifier
C4-C12 - GRO	3510M	8015M	0.5	1	5/1/97	5/2/97	0.5	U
C13-C22 - DRO	3510M	8015M	0.5	1	5/1/97	5/2/97	780	
C23->C23 - HRO	3510M	8015M	0.5	1	5/1/97	5/2/97	240	
TPH-EXTRACTABLE	3510M	8015M	0.5	1	5/1/97	5/2/97	1000	
Fuel Characterization	3510M	8015M		1	5/1/97	5/2/97	Diesel/Oil	

*	Quantified with diesel fuel and motor oil
GRO	Gasoline Range Organics
DRO	Diesel Range Organics
HRO	Heavy Oil Range Organics

Approved By: _____ Date: 6/13/97

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01499SOH.MG1 - Sample 6/13/97

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: OHM Remediation Services Corp.
Project: UST-247-D070-CONTENTS/18609
Sample Matrix: Solid

Service Request: L9701497
Date Collected: 4/29/97
Date Received: 4/29/97
Date Extracted: 5/1/97
Date Analyzed: 5/2/97

Surrogate Recovery Summary
Hydrocarbon Scan / Fuel Characterization

Prep Method: 3550M
Analysis Method: 8015M

Units: PERCENT
Basis: NA

Sample Name	Lab Code	Test Notes	Percent Recovery *p*-Terphenyl
18609-247-296	L9701497-001		75
Method Blank	L970501-MB		87
Lab Control Sample	L970501-LCS		72
Matrix Spike	L9701497-001MS		88
Duplicate Matrix Spike	L9701497-001DMS		64

CAS Acceptance Limits: 50-140

Approved By: _____ Date: 6/13/97

SUR3/052595
01497SOIL.MG1 - SUR 6/12/97

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: OHM Remediation Services Corp.
Project: UST-247-D070-CONTENTS/18609
LCS Matrix: Liquid

Service Request: L9701497
Date Collected: NA
Date Received: NA
Date Extracted: 5/1/97
Date Analyzed: 5/1/97

Laboratory Control Sample Summary
Hydrocarbon Scan / Fuel Characterization

Sample Name: Lab Control Sample
Lab Code: L970501-MB
Test Notes:

Units: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	LAB Qualifier
TPH as Diesel	3550M	8015M	200	193	96	70-140	

Approved By: _____ Date: 6/13/97

LCS/52595
01497SOH.MG1 - LCS 6/12/97

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	OHM Remediation Services Corp.	**Service Request:**	L9701497
Project:	UST-247-D070-CONTENTS/18609	**Date Collected:**	4/29/97
Sample Matrix:	Solid	**Date Received:**	4/29/97
		Date Extracted:	5/1/97
		Date Analyzed:	5/2/97

Matrix Spike/Duplicate Matrix Spike Summary
Hydrocarbon Scan / Fuel Characterization

Sample Name: 18609-247-296
Lab Code: L9701497-001MS, L9701497-001DMS
Test Notes:

Units: mg/Kg (ppm)
Basis: Dry

Analyte	Prep Method	Analysis Method	PQL	Spike Level MS	Spike Level DMS	Sample Result	Spike Result MS	Spike Result DMS	Percent Recovery MS	Percent Recovery DMS	CAS Acceptance Limits	Relative Percent Difference	LAB Qualifier
TPH as Diesel	3550M	8015M	12	200	200	12	208	167	104	84	41-136	22	

Approved By: _____ Date: 6/13/97

DMS/052595

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Page No.:

01497SOH.MG1 - DMS 6/12/97

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: OHM Remediation Services Corp.
Project: UST-445-D070-CONTENTS/18609
Sample Matrix: Liquid

Service Request: L9701498
Date Collected: 4/29/97
Date Received: 4/29/97
Date Extracted: 5/1/97
Date Analyzed: 5/1/97

Surrogate Recovery Summary
Hydrocarbon Scan / Fuel Characterization

Prep Method: 3510M
Analysis Method: 8015M

Units: PERCENT
Basis: NA

Sample Name	Lab Code	Test Notes	Percent Recovery *p*-Terphenyl
18609-445-294	L9701498-003		85
Method Blank	L970501-MB		97
Lab Control Sample	L970501-LCS		85
Matrix Spike	L9701498-003MS		74
Duplicate Matrix Spike	L9701498-003DMS		76

CAS Acceptance Limits: 50-140

Approved By: _____ Date: 6/13/97

SUR3/052595
01498SOH.MG2 - SUR 6/12/97

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: OHM Remediation Services Corp.
Project: UST-445-D070-CONTENTS/18609
LCS Matrix: Liquid

Service Request: L9701498
Date Collected: NA
Date Received: NA
Date Extracted: 5/1/97
Date Analyzed: 5/1/97

Laboratory Control Sample Summary
Hydrocarbon Scan / Fuel Characterization

Sample Name: Lab Control Sample
Lab Code: L970501-LCS
Test Notes:

Units: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	LAB Qualifier
TPH as Diesel	3510M	8015M	20.0	21.5	108	70-140	

Approved By: _____ Date: 6/13/97

LCS/52595
01498SOH.MG2 - LCS 6/12/97

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: OHM Remediation Services Corp.
Project: UST-445-D070-CONTENTS/18609
Sample Matrix: Liquid

Service Request: L9701498
Date Collected: 4/29/97
Date Received: 4/29/97
Date Extracted: 5/1/97
Date Analyzed: 5/1/97

Matrix Spike/Duplicate Matrix Spike Summary
Hydrocarbon Scan / Fuel Characterization

Sample Name: 18609-445-294
Lab Code: L9701498-003MS, L9701498-003DMS
Test Notes:

Units: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	PQL	Spike Level MS	Spike Level DMS	Sample Result	Spike Result MS	Spike Result DMS	Percent Recovery MS	Percent Recovery DMS	CAS Acceptance Limits	Relative Percent Difference	LAB Qualifier
TPH as Diesel	3510M	8015M	0.5	20.0	20.0	0.5	19.0	20.0	95	100	41-136	5	

Approved By: _____ Date: 6/13/97
DMS/052595

01498SOH.MG2 - DMS 6/12/97

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: OHM Remediation Services Corp.
Project: UST-445-D070-CONTENTS/18609
Sample Matrix: Liquid

Service Request: L9701498
Date Collected: 4/29/97
Date Received: 4/29/97
Date Extracted: 5/1/97
Date Analyzed: 5/1/97

Surrogate Recovery Summary
Hydrocarbon Scan / Fuel Characterization

Prep Method: 3550M
Analysis Method: 8015M

Units: PERCENT
Basis: NA

Sample Name	Lab Code	Test Notes	Percent Recovery *p*-Terphenyl
18609-445-292	L9701498-001	NA	
18609-445-293	L9701498-002	NA	
Method Blank	L970501-MB		87
Lab Control Sample	L970501-LCS		72
Duplicate Lab Control Sample	L970501-DLCS		92

CAS Acceptance Limits: 50-140

NA Not Applicable; see case narrative.

Approved By: _____ Date: 6/13/97

SUR3/052595
01498SOH.MG1 - SUR 6/12/97

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: OHM Remediation Services Corp.
Project: UST-445-D070-CONTENTS/18609
LCS Matrix: Liquid

Service Request: L9701498
Date Collected: NA
Date Received: NA
Date Extracted: 5/1/97
Date Analyzed: 5/1/97

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary
Hydrocarbon Scan / Fuel Characterization

Sample Name: Lab Control Sample
Lab Code: L970501-LCS, L970501-DLCS
Test Notes:

Units: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	True Value LCS	True Value DLCS	Result LCS	Result DLCS	Percent Recovery LCS	Percent Recovery DLCS	CAS Acceptance Limits	Relative Percent Difference	LAB Qualifier
TPH as Diesel	3550M	8015M	200	200	193	207	96	104	70-140	7	

Approved By: Ed Wil Date: 6/13/97

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DLCS/052595
01498SOH.MG1 - DLCS 6/12/97

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: OHM Remediation Services Corp.
Project: UST-314W-1/18609
Sample Matrix: Liquid

Service Request: L9701499
Date Collected: 4/29/97
Date Received: 4/29/97
Date Extracted: 5/1/97
Date Analyzed: 5/2/97

Surrogate Recovery Summary
Hydrocarbon Scan / Fuel Characterization

Prep Method: 3510M
Analysis Method: 8015M

Units: PERCENT
Basis: NA

Sample Name	Lab Code	Test Notes	Percent Recovery *p*-Terphenyl
18609-314-291	L9701499-001		84
Method Blank	L970501-MB		97
Lab Control Sample	L970501-LCS		85
Matrix Spike	L9701498-003MS		74
Duplicate Matrix Spike	L9701498-003DMS		76

CAS Acceptance Limits: 50-140

Approved By: _____ Date: 6/13/97

SUR3/052595
01499SOH.MG1 - SUR 6/13/97

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	OHM Remediation Services Corp.	**Service Request:**	L9701499
Project:	UST-314W-1/18609	**Date Collected:**	NA
LCS Matrix:	Liquid	**Date Received:**	NA
		Date Extracted:	5/1/97
		Date Analyzed:	5/1/97

Laboratory Control Sample Summary
Hydrocarbon Scan / Fuel Characterization

Sample Name:	Lab Control Sample	Units:	mg/L (ppm)
Lab Code:	L970501-LCS	Basis:	NA
Test Notes:			

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	LAB Qualifier
TPH as Diesel	3510M	8015M	20.0	21.5	108	70-140	

Approved By: _____ Date: 6/13/97

LCS/52595
01499SOH.MG1 - LCS 6/13/97

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	OHM Remediation Services Corp.	**Service Request:**	L9701499
Project:	UST-314W-1/18609	**Date Collected:**	4/29/97
Sample Matrix:	Liquid	**Date Received:**	4/29/97
		Date Extracted:	5/1/97
		Date Analyzed:	5/1/97

Matrix Spike/Duplicate Matrix Spike Summary
Hydrocarbon Scan / Fuel Characterization

Sample Name:	18609-445-294	Units:	mg/L (ppm)
Lab Code:	L9701498-003MS, L9701498-003DMS	Basis:	NA
Test Notes:			

Analyte	Prep Method	Analysis Method	PQL	Spike Level MS	Spike Level DMS	Sample Result	Spike Result MS	Spike Result DMS	Percent Recovery MS	Percent Recovery DMS	CAS Acceptance Limits	Relative Percent Difference	LAB Qualifier
TPH as Diesel	3510M	8015M	0.5	20.0	20.0	0.5	19.0	20.0	95	100	41-136	5	

Approved By: _____ Date: 6/13/97

MS/052595

01499SOH.MG1 - DMS 6/13/97

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	OHM Remediation Services Corp.	**Service Request:**	L9701498
Project:	UST-445-D070-CONTENTS/18609	**Date Collected:**	NA
Sample Matrix:	Liquid	**Date Received:**	NA

Polychlorinated Biphenyls (PCBs)

Sample Name:	Method Blank	Units:	ug/L (ppb)
Lab Code:	L970501-MB	Basis:	NA
Test Notes:			

Analyte	Prep Method	Analysis Method	PQL	Dilution Factor	Date Extracted	Date Analyzed	Result	LAB Qualifier
Aroclor 1016	EPA 3510B	8081	1	1	5/1/97	5/2/97	1	U
Aroclor 1221	EPA 3510B	8081	1	1	5/1/97	5/2/97	1	U
Aroclor 1232	EPA 3510B	8081	1	1	5/1/97	5/2/97	1	U
Aroclor 1242	EPA 3510B	8081	1	1	5/1/97	5/2/97	1	U
Aroclor 1248	EPA 3510B	8081	1	1	5/1/97	5/2/97	1	U
Aroclor 1254	EPA 3510B	8081	1	1	5/1/97	5/2/97	1	U
Aroclor 1260	EPA 3510B	8081	1	1	5/1/97	5/2/97	1	U

Approved By: _____ Date: 6/13/97

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

ent:	OHM Remediation Services Corp.	**Service Request:**	L9701498
roject:	UST-445-D070-CONTENTS/18609	**Date Collected:**	4/29/97
Sample Matrix:	Liquid	**Date Received:**	4/29/97

Polychlorinated Biphenyls (PCBs)

Sample Name:	18609-445-294 UST 445C	Units:	ug/L (ppb)
Lab Code:	L9701498-003	Basis:	NA
Test Notes:			

Analyte	Prep Method	Analysis Method	PQL	Dilution Factor	Date Extracted	Date Analyzed	Result	LAB Qualifier
Aroclor 1016	EPA 3510B	8081	1	1	5/1/97	5/2/97	1	U
Aroclor 1221	EPA 3510B	8081	1	1	5/1/97	5/2/97	1	U
Aroclor 1232	EPA 3510B	8081	1	1	5/1/97	5/2/97	1	U
Aroclor 1242	EPA 3510B	8081	1	1	5/1/97	5/2/97	1	U
Aroclor 1248	EPA 3510B	8081	1	1	5/1/97	5/2/97	1	U
Aroclor 1254	EPA 3510B	8081	1	1	5/1/97	5/2/97	1	U
lor 1260	EPA 3510B	8081	1	1	5/1/97	5/2/97	1	U

Approved By: _____ Date: 6/13/97

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01498SOA.AA1 - Sample 6/12/97

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: OHM Remediation Services Corp.
Project: UST-445-D070-CONTENTS/18609
Sample Matrix: Liquid

Service Request: L9701498
Date Collected: 4/29/97
Date Received: 4/29/97
Date Extracted: 5/1/97
Date Analyzed: 5/2/97

Surrogate Recovery Summary
Polychlorinated Biphenyls (PCBs)

Prep Method: EPA 3510B
Analysis Method: 8081

Units: PERCENT
Basis: NA

Sample Name	Lab Code	Test Notes	Percent Recovery Tetrachloro-m-xylene
18609-445-294 UST 445C	L9701498-003		88
Method Blank	L970501-MB		103
Laboratory Control Sample	L970501-LCS		85
Duplicate Lab Control Sample	L970501-DLCS		106

CAS Acceptance Limits: 45-140

Approved By: _____ Date: 6/13/97

SUR3/052595
01498SOA.AA1 - SUR 6/12/97

6925 Canoga Avenue • Canoga Park, CA 91303

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	OHM Remediation Services Corp.	**Service Request:**	L9701498
Project:	UST-445-D070-CONTENTS/18609	**Date Collected:**	NA
LCS Matrix:	Liquid	**Date Received:**	NA
		Date Extracted:	5/1/97
		Date Analyzed:	5/2/97

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary
Polychlorinated Biphenyls (PCBs)

Sample Name: Lab Control Sample
Lab Code: L970501-LCS, L970501-DLCS
Test Notes:

Units: ug/L (ppb)
Basis: NA

Analyte	Prep Method	Analysis Method	True Value LCS	True Value DLCS	Result LCS	Result DLCS	Percent Recovery LCS	Percent Recovery DLCS	CAS Acceptance Limits	Relative Percent Difference	LAB Qualifier
Aroclor 1260	EPA 3510B	8081	10.0	10.0	8.30	8.10	83	81	62-154	2	

Approved By: _____ Date: 6/13/97

DLCS/052595
01498SOA.AA1 - DLCS 6/12/97

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: OHM Remediation Services Corp.
Project: UST-247-D070-CONTENTS/18609
Sample Matrix: Solid

Service Request: L9701497
Date Collected: 4/29/97
Date Received: 4/29/97

Ignitability

Sample Name: 18609-247-296
Lab Code: L9701497-001
Test Notes:

Units: DEG F
Basis: NA

Analyte	Prep Method	Analysis Method	Dilution Factor	Date Extracted	Date Analyzed	Result	LAB Qualifier
Ignitability	METHOD	1010	1	NA	5/1/97	200	U

Approved By: _____ Date: 6/13/97

1S22.052595

01497WET.PE1 - Sample 6/12/97

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	OHM Remediation Services Corp.	**Service Request:**	L9701498
Project:	UST-445-D070-CONTENTS/18609	**Date Collected:**	4/29/97
Sample Matrix:	Liquid	**Date Received:**	4/29/97

Ignitability

Sample Name:	18609-445-292	Units:	DEG F
Lab Code:	L9701498-001	Basis:	NA
Test Notes:			

Analyte	Prep Method	Analysis Method	Dilution Factor	Date Extracted	Date Analyzed	Result	LAB Qualifier
Ignitability	METHOD	1010	1	NA	4/29/97	149	

Approved By: _____ Date: 6/13/97

1S22/052595

01498WET.PE1 - Sample 6/12/97

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	OHM Remediation Services Corp.	**Service Request:**	L9701498
Project:	UST-445-D070-CONTENTS/18609	**Date Collected:**	4/29/97
Sample Matrix:	Liquid	**Date Received:**	4/29/97

Ignitability

Sample Name:	18609-445-293	Units:	DEG F
Lab Code:	L9701498-002	Basis:	NA
Test Notes:			

Analyte	Prep Method	Analysis Method	Dilution Factor	Date Extracted	Date Analyzed	Result	LAB Qualifier
Ignitability	METHOD	1010	1	NA	4/29/97	149	

Approved By: _____ Date: 6/13/97

1S22/052595

01498WET.PE1 - Sample (2) 6/12/97

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	OHM Remediation Services Corp.	**Service Request:**	L9701498
Project:	UST-445-D070-CONTENTS/18609	**Date Collected:**	4/29/97
Sample Matrix:	Liquid	**Date Received:**	4/29/97

Ignitability

Sample Name:	18609-445-294	Units:	DEG F
Lab Code:	L9701498-003	Basis:	NA
Test Notes:			

Analyte	Prep Method	Analysis Method	Dilution Factor	Date Extracted	Date Analyzed	Result	LAB Qualifier
Ignitability	METHOD	1010	1	NA	4/29/97	200	U

Approved By: _____ Date: 6/13/97

:S22/052595

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	OHM Remediation Services Corp.	**Service Request:**	L9701498
Project:	UST-445-D070-CONTENTS/18609	**Date Collected:**	4/29/97
Sample Matrix:	Liquid	**Date Received:**	4/29/97

Ignitability

Sample Name:	18609-445-292	Units:	DEG F
Lab Code:	L9701498-001DUP	Basis:	NA
Test Notes:			

Analyte	Prep Method	Analysis Method	Dilution Factor	Date Extracted	Date Analyzed	Result	LAB Qualifier
Ignitability	METHOD	1010	1	NA	4/29/97	140	

Approved By: _____ Date: 6/13/97

1S22/052595

01498WET.PE1 - Sample (4) 6/12/97

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	OHM Remediation Services Corp.	**Service Request:**	L9701498
Project:	UST-445-D070-CONTENTS/18609	**Date Collected:**	4/29/97
Sample Matrix:	Liquid	**Date Received:**	4/29/97

Ignitability

Sample Name:	18609-445-293	Units:	DEG F
Lab Code:	L9701498-002DUP	Basis:	NA
Test Notes:			

Analyte	Prep Method	Analysis Method	Dilution Factor	Date Extracted	Date Analyzed	Result	LAB Qualifier
Ignitability	METHOD	1010	1	NA	4/29/97	144	

Approved By: _____ Date: 6/13/97

1S22/052595

01498WET.PE1 - Sample (5) 6/12/97

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	OHM	**Service Request:**	L9701499
Project:	UST-314W-1	**Date Collected:**	4/28/97
Sample Matrix:	LIQUID	**Date Received:**	4/29/97

Ignitability

Sample Name:	18609-314-291	Units:	DEG F
Lab Code:	L9701499-001	Basis:	NA
Test Notes:			

Analyte	Prep Method	Analysis Method	Dilution Factor	Date Extracted	Date Analyzed	Result	LAB Qualifier
Ignitability	METHOD	1010	1	NA	4/29/97	200	U

Approved By: Ed Wil Date: 6/13/97

1S22/052595

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	OHM Remediation Services Corp.	**Service Request:**	L9701497
Project:	UST-247-D070-CONTENTS/18609	**Date Collected:**	NA
LCS Matrix:	LIQUID	**Date Received:**	NA
		Date Extracted:	NA
		Date Analyzed:	5/1/97

p-Xylene Check Sample / Duplicate p-Xylene Check Sample
Ignitability

Sample Name: Duplicate p-Xylene Check Sample
Lab Code: L970501-XCS L970501-DXCS
Test Notes:

Units: DEG F
Basis: NA

Analyte	Prep Method	Analysis Method	True Value LCS	True Value DLCS	Result LCS	Result DLCS	Percent Recovery LCS	Percent Recovery DLCS	CAS Acceptance Limits	Relative Percent Difference	LAB Qualifier
Ignitability	METHOD	1010	81.0	81.0	82.4	84.2	102	104	77.4-84.6	2	

Approved By: _____ Date: 6/13/97

DLCS/052595
01497WET.PE1 - DXCS 6/12/97

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: OHM Remediation Services Corp.
Project: UST-445-D070-CONTENTS/18609
LCS Matrix: Liquid

Service Request: L9701498
Date Collected: NA
Date Received: NA
Date Extracted: NA
Date Analyzed: 4/29/97

p-Xylene Check Sample / Duplicate p-Xylene Check Sample
Ignitability

Sample Name: Duplicate p-Xylene Check Sample
Lab Code: L970501-XCS L970501-DXCS
Test Notes:

Units: DEG F
Basis: NA

Analyte	Prep Method	Analysis Method	True Value LCS	True Value DLCS	Result LCS	Result DLCS	Percent Recovery LCS	Percent Recovery DLCS	CAS Acceptance Limits	Relative Percent Difference	LAB Qualifier
Ignitability	METHOD	1010	81.0	81.0	82.4	84.2	102	104	77.4-84.6	2	

Approved By: Ed Wil Date: 6/13/97

DLCS/052595
01498WET.PE1 - DXCS 6/12/97

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: OHM
Project: UST-314W-1
LCS Matrix: LIQUID

Service Request: L9701499
Date Collected: NA
Date Received: NA
Date Extracted: NA
Date Analyzed: 4/29/97

p-Xylene Check Sample / Duplicate p-Xylene Check Sample
Ignitability

Sample Name: Duplicate p-Xylene Check Sample
Lab Code: L970501-XCS L970501-DXCS
Test Notes:

Units: DEG F
Basis: NA

Analyte	Prep Method	Analysis Method	True Value LCS	True Value DLCS	Result LCS	Result DLCS	Percent Recovery LCS	Percent Recovery DLCS	CAS Acceptance Limits	Relative Percent Difference	LAB Qualifier
Ignitability	METHOD	1010	81.0	81.0	82.4	84.2	102	104	77.4-84.6	2	

Approved By: _____ Date: 6/13/97

DLCS/052595
01499WET.PE1 - DXCS 6/12/97

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	OHM Remediation Services Corp.	**Service Request:**	L9701497
Project:	UST-247-D070-CONTENTS/18609	**Date Collected:**	NA
Sample Matrix:	Solid	**Date Received:**	NA

Metals

Sample Name:	Method Blank	Units:	mg/Kg (ppm)
Lab Code:	L970505-MB	Basis:	Dry
Test Notes:			

Analyte	Prep Method	Analysis Method	PQL	Dilution Factor	Date Digested	Date Analyzed	Result	Lab Qualifier
Antimony, Total	EPA3050	6010	10	1	5/5/97	5/6/97	10	U
Arsenic, Total	EPA 3050	7060	5	1	5/5/97	5/6/97	5	U
Barium, Total	EPA 3050	6010	1	1	5/5/97	5/6/97	1	U
Beryllium, Total	EPA 3050	6010	0.5	1	5/5/97	5/6/97	0.5	U
Cadmium, Total	EPA 3050	6010	1	1	5/5/97	5/6/97	1	U
Chromium, Total	EPA 3050	6010	2	1	5/5/97	5/6/97	2	U
Cobalt, Total	EPA 3050	6010	2	1	5/5/97	5/6/97	2	U
Copper, Total	EPA 3050	6010	2	1	5/5/97	5/6/97	2	U
Lead, Total	EPA 3050	6010	5	1	5/5/97	5/6/97	5	U
Mercury, Total	EPA 7471	7471	0.2	1	5/6/97	5/6/97	0.2	U
Molybdenum, Total	EPA 3050	6010	10	1	5/5/97	5/6/97	10	U
Nickel, Total	EPA 3050	6010	5	1	5/5/97	5/6/97	5	U
Selenium, Total	EPA 3050	7740	5	1	5/5/97	5/6/97	5	U
Silver, Total	EPA 3050	6010	1	1	5/5/97	5/6/97	1	U
Thallium, Total	EPA 3050	6010	20	1	5/5/97	5/6/97	20	U
Vanadium, Total	EPA 3050	6010	2	1	5/5/97	5/6/97	2	U
Zinc, Total	EPA 3050	6010	1	1	5/5/97	5/6/97	1	U

Approved By: _____ Date: 6/13/97

1S44/021397p

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	OHM Remediation Services Corp.	**Service Request:**	L9701497
Project:	UST-247-D070-CONTENTS/18609	**Date Collected:**	4/29/97
Sample Matrix:	Solid	**Date Received:**	4/29/97

Metals

Sample Name: 18609-247-296
Lab Code: L9701497-001
Test Notes:

Units: mg/Kg (ppm)
Basis: Dry

Analyte	Prep Method	Analysis Method	PQL	Dilution Factor	Date Digested	Date Analyzed	Result	Lab Qualifier
Antimony, Total	EPA 3050	6010	12	1	5/5/97	5/6/97	12	U
Arsenic, Total	EPA 3050	7060	6	1	5/5/97	5/6/97	6	U
Barium, Total	EPA 3050	6010	1.2	1	5/5/97	5/6/97	110	
Beryllium, Total	EPA 3050	6010	0.6	1	5/5/97	5/6/97	0.6	U
Cadmium, Total	EPA 3050	6010	1.2	1	5/5/97	5/6/97	1.2	U
Chromium, Total	EPA 3050	6010	2.4	1	5/5/97	5/6/97	14	
Cobalt, Total	EPA 3050	6010	2.4	1	5/5/97	5/6/97	5.5	
Copper, Total	EPA 3050	6010	2.4	1	5/5/97	5/6/97	8.9	
Lead, Total	EPA 3050	6010	6	1	5/5/97	5/6/97	17	
Mercury, Total	EPA 7471	7471	0.24	1	5/6/97	5/6/97	0.24	U
Molybdenum, Total	EPA 3050	6010	12	1	5/5/97	5/6/97	12	U
Nickel, Total	EPA 3050	6010	6	1	5/5/97	5/6/97	7	
Selenium, Total	EPA 3050	7740	6	1	5/5/97	5/6/97	6	U
Silver, Total	EPA 3050	6010	1.2	1	5/5/97	5/6/97	1.2	U
Thallium, Total	EPA 3050	6010	24	1	5/5/97	5/6/97	24	U
Vanadium, Total	EPA 3050	6010	2.4	1	5/5/97	5/6/97	37	
Zinc, Total	EPA 3050	6010	1.2	1	5/5/97	5/6/97	52	

Approved By: _____ Date: 6/13/97

021397p

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: OHM Remediation Services Corp.
Project: UST-445-D070-CONTENTS/18609
Sample Matrix: Liquid

Service Request: L9701498
Date Collected: NA
Date Received: NA

Metals

Sample Name: Method Blank
Lab Code: L970506-MB
Test Notes:

Units: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	PQL	Dilution Factor	Date Digested	Date Analyzed	Result	Lab Qualifier
Antimony, Total	EPA 3010	6010	0.05	1	5/6/97	5/6/97	0.05	U
Arsenic, Total	EPA 3020	7060	0.005	1	5/6/97	5/6/97	0.005	U
Barium, Total	EPA 3010	6010	0.02	1	5/6/97	5/6/97	0.02	U
Beryllium, Total	EPA 3010	6010	0.005	1	5/6/97	5/6/97	0.005	U
Cadmium, Total	EPA 3010	6010	0.005	1	5/6/97	5/6/97	0.005	U
Chromium, Total	EPA 3010	6010	0.01	1	5/6/97	5/6/97	0.01	U
Cobalt, Total	EPA 3010	6010	0.01	1	5/6/97	5/6/97	0.01	U
Copper, Total	EPA 3010	6010	0.01	1	5/6/97	5/6/97	0.01	U
Lead, Total	EPA 3010	6010	0.05	1	5/6/97	5/6/97	0.05	U
Mercury, Total	EPA 7470	7470	0.001	1	5/6/97	5/6/97	0.001	U
Molybdenum, Total	EPA 3010	6010	0.02	1	5/6/97	5/6/97	0.02	U
Nickel, Total	EPA 3010	6010	0.04	1	5/6/97	5/6/97	0.04	U
Selenium, Total	EPA 3020	7740	0.005	1	5/6/97	5/6/97	0.005	U
Silver, Total	EPA 3010	6010	0.01	1	5/6/97	5/6/97	0.01	U
Thallium, Total	EPA 3010	6010	0.1	1	5/6/97	5/6/97	0.1	U
Vanadium, Total	EPA 3010	6010	0.01	1	5/6/97	5/6/97	0.01	U
Zinc, Total	EPA 3010	6010	0.02	1	5/6/97	5/6/97	0.02	U

Approved By: _____ Date: 6/13/97
1S-(4:021397p

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	OHM Remediation Services Corp.	**Service Request:**	L9701498
Project:	UST-445-D070-CONTENTS/18609	**Date Collected:**	4/29/97
Sample Matrix:	Liquid	**Date Received:**	4/29/97

Metals

Sample Name:	18609-445-292	Units:	mg/L (ppm)
Lab Code:	L9701498-001	Basis:	NA
Test Notes:			

Analyte	Prep Method	Analysis Method	PQL	Dilution Factor	Date Digested	Date Analyzed	Result	Lab Qualifier
Antimony, Total	EPA 3010	6010	0.05	5	5/6/97	5/6/97	0.25	U
Arsenic, Total	EPA 3020	7060	0.005	5	5/6/97	5/6/97	0.025	U
Barium, Total	EPA 3010	6010	0.02	5	5/6/97	5/6/97	0.1	U
Beryllium, Total	EPA 3010	6010	0.005	5	5/6/97	5/6/97	0.025	U
Cadmium, Total	EPA 3010	6010	0.005	5	5/6/97	5/6/97	0.025	U
Chromium, Total	EPA 3010	6010	0.01	5	5/6/97	5/6/97	0.025	U
Cobalt, Total	EPA 3010	6010	0.01	5	5/6/97	5/6/97	0.05	U
Copper, Total	EPA 3010	6010	0.01	5	5/6/97	5/6/97	0.09	
Lead, Total	EPA 3010	6010	0.05	5	5/6/97	5/6/97	0.25	U
Mercury, Total	EPA 7470	7470	0.001	5	5/6/97	5/6/97	0.005	U
Molybdenum, Total	EPA 3010	6010	0.02	5	5/6/97	5/6/97	0.1	U
Nickel, Total	EPA 3010	6010	0.04	5	5/6/97	5/6/97	0.2	U
Selenium, Total	EPA 3020	7740	0.005	5	5/6/97	5/6/97	0.025	U
Silver, Total	EPA 3010	6010	0.01	5	5/6/97	5/6/97	0.05	U
Thallium, Total	EPA 3010	6010	0.1	5	5/6/97	5/6/97	0.5	U
Vanadium, Total	EPA 3010	6010	0.01	5	5/6/97	5/6/97	0.05	U
Zinc, Total	EPA 3010	6010	0.02	5	5/6/97	5/6/97	0.1	U

Approved By: _____ Date: 6/13/97

21397p

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: OHM Remediation Services Corp.
Project: UST-445-D070-CONTENTS/18609
Sample Matrix: Liquid

Service Request: L9701498
Date Collected: 4/29/97
Date Received: 4/29/97

Metals

Sample Name: 18609-445-293
Lab Code: L9701498-002
Test Notes:

Units: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	PQL	Dilution Factor	Date Digested	Date Analyzed	Result	Lab Qualifier
Antimony, Total	EPA 3010	6010	0.05	5	5/6/97	5/6/97	0.25	U
Arsenic, Total	EPA 3020	7060	0.005	5	5/6/97	5/6/97	0.025	U
Barium, Total	EPA 3010	6010	0.02	5	5/6/97	5/6/97	0.1	U
Beryllium, Total	EPA 3010	6010	0.005	5	5/6/97	5/6/97	.025	U
Cadmium, Total	EPA 3010	6010	0.005	5	5/6/97	5/6/97	0.025	U
Chromium, Total	EPA 3010	6010	0.01	5	5/6/97	5/6/97	0.05	U
Cobalt, Total	EPA 3010	6010	0.01	5	5/6/97	5/6/97	0.05	U
Copper, Total	EPA 3010	6010	0.01	5	5/6/97	5/6/97	0.05	U
Lead, Total	EPA 3010	6010	0.05	5	5/6/97	5/6/97	0.25	U
Mercury, Total	EPA 7470	7470	0.001	5	5/6/97	5/6/97	0.005	U
Molybdenum, Total	EPA 3010	6010	0.02	5	5/6/97	5/6/97	0.1	U
Nickel, Total	EPA 3010	6010	0.04	5	5/6/97	5/6/97	0.2	U
Selenium, Total	EPA 3020	7740	0.005	5	5/6/97	5/6/97	0.025	U
Silver, Total	EPA 3010	6010	0.01	5	5/6/97	5/6/97	0.05	U
Thallium, Total	EPA 3010	6010	0.1	5	5/6/97	5/6/97	0.5	U
Vanadium, Total	EPA 3010	6010	0.01	5	5/6/97	5/6/97	0.05	U
Zinc, Total	EPA 3010	6010	0.02	5	5/6/97	5/6/97	0.1	U

Approved By: _____ Date: 6/13/97
1S44/021397p

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	OHM Remediation Services Corp.	**Service Request:**	L9701498
Project:	UST-445-D070-CONTENTS/18609	**Date Collected:**	4/29/97
Sample Matrix:	Liquid	**Date Received:**	4/29/97

Metals

Sample Name: 18609-445-294
Lab Code: L9701498-003
Test Notes:

Units: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	PQL	Dilution Factor	Date Digested	Date Analyzed	Result	Lab Qualifier
Antimony, Total	EPA 3010	6010	0.05	1	5/6/97	5/6/97	0.05	U
Arsenic, Total	EPA 3020	7060	0.005	1	5/6/97	5/6/97	0.011	
Barium, Total	EPA 3010	6010	0.02	1	5/6/97	5/6/97	0.16	
Beryllium, Total	EPA 3010	6010	0.005	1	5/6/97	5/6/97	0.005	U
Cadmium, Total	EPA 3010	6010	0.005	1	5/6/97	5/6/97	0.008	
Chromium, Total	EPA 3010	6010	0.01	1	5/6/97	5/6/97	0.04	
Cobalt, Total	EPA 3010	6010	0.01	1	5/6/97	5/6/97	0.01	U
Copper, Total	EPA 3010	6010	0.01	1	5/6/97	5/6/97	0.05	
Lead, Total	EPA 3010	6010	0.05	1	5/6/97	5/6/97	0.30	
Mercury, Total	EPA 7470	7470	0.001	5	5/6/97	5/6/97	0.025	
Molybdenum, Total	EPA 3010	6010	0.02	1	5/6/97	5/6/97	0.02	U
Nickel, Total	EPA 3010	6010	0.04	1	5/6/97	5/6/97	0.04	U
Selenium, Total	EPA 3020	7740	0.005	1	5/6/97	5/6/97	0.005	U
Silver, Total	EPA 3010	6010	0.01	1	5/6/97	5/6/97	0.01	U
Thallium, Total	EPA 3010	6010	0.1	1	5/6/97	5/6/97	0.1	U
Vanadium, Total	EPA 3010	6010	0.01	1	5/6/97	5/6/97	0.04	
Zinc, Total	EPA 3010	6010	0.02	1	5/6/97	5/6/97	1.1	

Approved By: _____ Date: 6/13/97

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: OHM Remediation Services Corp.
Project: UST-314W-1/18609
Sample Matrix: Liquid

Service Request: L9701499
Date Collected: NA
Date Received: NA

Metals

Sample Name: Method Blank
Lab Code: L970507-MB
Test Notes:

Units: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	PQL	Dilution Factor	Date Digested	Date Analyzed	Result	Lab Qualifier
Antimony, Total	EPA 3010	6010	0.05	1	5/7/97	5/7/97	0.05	U
Arsenic, Total	EPA 3020	7060	0.005	1	5/7/97	5/7/97	0.005	U
Barium, Total	EPA 3010	6010	0.02	1	5/7/97	5/7/97	0.02	U
Beryllium, Total	EPA 3010	6010	0.005	1	5/7/97	5/7/97	0.005	U
Cadmium, Total	EPA 3010	6010	0.005	1	5/7/97	5/7/97	0.005	U
Chromium, Total	EPA 3010	6010	0.01	1	5/7/97	5/7/97	0.01	U
Cobalt, Total	EPA 3010	6010	0.01	1	5/7/97	5/7/97	0.01	U
Copper, Total	EPA 3010	6010	0.01	1	5/7/97	5/7/97	0.01	U
Lead, Total	EPA 3010	6010	0.05	1	5/7/97	5/7/97	0.05	U
Mercury, Total	EPA 7470	7470	0.001	1	5/7/97	5/7/97	0.001	U
Molybdenum, Total	EPA 3010	6010	0.02	1	5/7/97	5/7/97	0.02	U
Nickel, Total	EPA 3010	6010	0.04	1	5/7/97	5/7/97	0.04	U
Selenium, Total	EPA 3020	7740	0.005	1	5/7/97	5/7/97	0.005	U
Silver, Total	EPA 3010	6010	0.01	1	5/7/97	5/7/97	0.01	U
Thallium, Total	EPA 3010	6010	0.1	1	5/7/97	5/7/97	0.1	U
Vanadium, Total	EPA 3010	6010	0.01	1	5/7/97	5/7/97	0.01	U
Zinc, Total	EPA 3010	6010	0.02	1	5/7/97	5/7/97	0.02	U

Approved By: _____ Date: 6/13/97

1S44/021397p

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: OHM Remediation Services Corp.
Project: UST-314W-1/18609
Sample Matrix: Liquid

Service Request: L9701499
Date Collected: 4/29/97
Date Received: 4/29/97

Metals

Sample Name: 18609-314-291
Lab Code: L9701499-001
Test Notes:

Units: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	PQL	Dilution Factor	Date Digested	Date Analyzed	Result	Lab Qualifier
Antimony, Total	EPA 3010	6010	0.05	5	5/7/97	5/7/97	0.25	U
Arsenic, Total	EPA 3020	7060	0.005	5	5/7/97	5/7/97	0.14	
Barium, Total	EPA 3010	6010	0.02	5	5/7/97	5/7/97	0.74	
Beryllium, Total	EPA 3010	6010	0.005	5	5/7/97	5/7/97	0.025	U
Cadmium, Total	EPA 3010	6010	0.005	5	5/7/97	5/7/97	0.086	
Chromium, Total	EPA 3010	6010	0.01	5	5/7/97	5/7/97	1.0	
Cobalt, Total	EPA 3010	6010	0.01	5	5/7/97	5/7/97	0.05	U
Copper, Total	EPA 3010	6010	0.01	5	5/7/97	5/7/97	2.0	
Lead, Total	EPA 3010	6010	0.05	5	5/7/97	5/7/97	2.9	
Mercury, Total	EPA 7470	7470	0.001	1	5/7/97	5/7/97	0.001	U
Molybdenum, Total	EPA 3010	6010	0.02	5	5/7/97	5/7/97	0.1	U
Nickel, Total	EPA 3010	6010	0.04	5	5/7/97	5/7/97	0.29	
Selenium, Total	EPA 3020	7740	0.005	5	5/7/97	5/7/97	0.025	U
Silver, Total	EPA 3010	6010	0.01	5	5/7/97	5/7/97	0.05	U
Thallium, Total	EPA 3010	6010	0.1	5	5/7/97	5/7/97	0.5	U
Vanadium, Total	EPA 3010	6010	0.01	5	5/7/97	5/7/97	0.05	U
Zinc, Total	EPA 3010	6010	0.02	5	5/7/97	5/7/97	14	

Approved By: _____ Date: 6/13/97

021397p

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: OHM Remediation Services Corp.
Project: UST-247-D070-CONTENTS/18609
LCS Matrix: Solid

Service Request: L9701497
Date Collected: NA
Date Received: NA
Date Digested: 5/5/97
Date Analyzed: 5/6/97

Laboratory Control Sample Summary
Metals

Sample Name: Lab Control Sample
Lab Code: L970505-LCS
Test Notes:

Units: mg/Kg (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Lab Qualifier
Antimony, Total	EPA 3050	6010	0.500	0.485	97	75-125	
Arsenic, Total	EPA 3050	7060	0.0200	0.0159	80	75-125	
Barium, Total	EPA 3050	6010	1.25	1.18	94	75-125	
Beryllium, Total	EPA 3050	6010	0.100	0.091	91	75-125	
Cadmium, Total	EPA 3050	6010	0.100	0.095	95	75-125	
Chromium, Total	EPA 3050	6010	0.500	0.486	97	75-125	
Cobalt, Total	EPA 3050	6010	0.500	0.487	97	75-125	
Copper, Total	EPA 3050	6010	0.500	0.477	95	75-125	
Lead, Total	EPA 3050	6010	0.500	0.471	94	75-125	
Mercury, Total	EPA 7471	7471	0.00500	0.00476	95	75-125	
Molybdenum, Total	EPA 3050	6010	0.500	0.488	98	75-125	
Nickel, Total	EPA 3050	6010	0.500	0.470	94	75-125	
Selenium, Total	EPA 3050	7740	0.0200	0.0177	88	75-125	
Silver, Total	EPA 3050	6010	0.25	0.224	90	75-125	
Thallium, Total	EPA 3050	6010	1.25	1.22	98	75-125	
Vanadium, Total	EPA 3050	6010	0.500	0.466	93	75-125	
Zinc, Total	EPA 3050	6010	0.500	0.481	96	75-125	

Approved By: _____ Date: 6/13/97

LCS/020597p
01497ICP.IZ1 - LCS 6/12/97

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: OHM Remediation Services Corp.
Project: UST-247-D070-CONTENTS/18609
Sample Matrix: Solid

Service Request: L9701497
Date Collected: 4/29/97
Date Received: 4/29/97
Date Digested: 5/5/97
Date Analyzed: 5/6/97

Matrix Spike Summary
Metals

Sample Name: 18609-247-296
Lab Code: L9701497-001MS
Test Notes:

Units: mg/Kg (ppm)
Basis: Dry

Analyte	Prep Method	Analysis Method	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Lab Qualifier
Antimony, Total	EPA 3050	6010	12	61	12	35.9	59	30-120	
Arsenic, Total	EPA 3050	7060	6	24.4	6	22.0	90	60-130	
Barium, Total	EPA 3050	6010	1.2	152	112	253	93	60-130	
Beryllium, Total	EPA 3050	6010	0.6	12.2	0.6	11.5	94	60-130	
Cadmium, Total	EPA 3050	6010	1.2	12.2	1.2	11.9	98	60-130	
Chromium, Total	EPA 3050	6010	2.4	61	14.0	68.2	89	60-130	
Cobalt, Total	EPA 3050	6010	2.4	61	5.5	62.3	93	60-130	
Copper, Total	EPA 3050	6010	2.4	61	8.9	65.3	92	60-130	
Lead, Total	EPA 3050	6010	6	61	16.7	73.2	93	60-130	
Mercury, Total	EPA 7471	7471	0.24	0.304	0.24	0.326	107	60-130	
Molybdenum, Total	EPA 3050	6010	12	61	12	60.3	99	60-130	
Nickel, Total	EPA 3050	6010	6	61	7.1	61.5	89	60-130	
Selenium, Total	EPA 3050	7740	6	24.4	6	18.3	75	50-130	
Silver, Total	EPA 3050	6010	1.2	30.5	1.2	29.1	95	60-130	
Thallium, Total	EPA 3050	6010	24	152	24	144	95	60-130	
Vanadium, Total	EPA 3050	6010	2.4	61	37.3	86.5	81	60-130	
Zinc, Total	EPA 3050	6010	1.2	61	52.3	103	83	60-130	

Approved By: _____ Date: 6/13/97

MS/020597p
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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: OHM Remediation Services Corp.
Project: UST-247-D070-CONTENTS/18609
Sample Matrix: Solid

Service Request: L9701497
Date Collected: 4/29/97
Date Received: 4/29/97
Date Digested: 5/5/97
Date Analyzed: 5/6/97

Duplicate Summary
Metals

Sample Name: 18609-247-296
Lab Code: L9701497-001DUP
Test Notes:

Units: mg/Kg (ppm)
Basis: Dry

Analyte	Prep Method	Analysis Method	PQL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Lab Qualifier
Antimony, Total	EPA 3050	6010	12	12	12	12	0	
Arsenic, Total	EPA 3050	7060	6	6	6	6	0	
Barium, Total	EPA 3050	6010	1.2	112	129	120	14	
Beryllium, Total	EPA 3050	6010	0.6	0.6	0.6	0.6	0	
Cadmium, Total	EPA 3050	6010	1.2	1.2	1.2	1.2	0	
Chromium, Total	EPA 3050	6010	2.4	14.0	12.3	13.2	13	
Cobalt, Total	EPA 3050	6010	2.4	5.5	5.2	54	6	
Copper, Total	EPA 3050	6010	2.4	8.9	9.2	91	3	
Lead, Total	EPA 3050	6010	6	16.7	16.8	168	0	
Mercury, Total	EPA 7471	7471	0.24	0.24	0.24	0.24	0	
Molybdenum, Total	EPA 3050	6010	12	12	12	12	0	
Nickel, Total	EPA 3050	6010	6	7.1	6	6.6	17	
Selenium, Total	EPA 3050	7740	6	6	6	6	0	
Silver, Total	EPA 3050	6010	1.2	1.2	1.2	1.2	0	
Thallium, Total	EPA 3050	6010	24	24	24	24	0	
Vanadium, Total	EPA 3050	6010	2.4	37.3	35.9	36.6	4	
Zinc, Total	EPA 3050	6010	1.2	52.3	51.9	52.1	0	

Approved By: _____ Date: 6/13/97

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: OHM Remediation Services Corp.
Project: UST-445-D070-CONTENTS/18609
LCS Matrix: Liquid

Service Request: L9701498
Date Collected: NA
Date Received: NA
Date Digested: 5/6/97
Date Analyzed: 5/6/97

Laboratory Control Sample Summary
Metals

Sample Name: Lab Control Sample
Lab Code: L970506-LCS
Test Notes:

Units: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Lab Qualifier
Antimony, Total	EPA 3010	6010	5.00	4.77	95	80-120	
Arsenic, Total	EPA 3020	7060	0.0400	0.0409	102	80-120	
Barium, Total	EPA 3010	6010	0.500	0.469	94	80-120	
Beryllium, Total	EPA 3010	6010	0.100	0.096	96	80-120	
Cadmium, Total	EPA 3010	6010	0.100	0.088	88	80-120	
Chromium, Total	EPA 3010	6010	0.500	0.474	95	80-120	
Cobalt, Total	EPA 3010	6010	0.500	0.472	94	80-120	
Copper, Total	EPA 3010	6010	0.500	0.485	97	80-120	
Lead, Total	EPA 3010	6010	5.00	4.64	93	80-120	
Mercury, Total	EPA 7470	7470	0.00500	0.00505	101	80-120	
Molybdenum, Total	EPA 3010	6010	0.500	0.482	96	80-120	
Nickel, Total	EPA 3010	6010	0.500	0.468	94	80-120	
Selenium, Total	EPA 3020	7740	0.0400	0.0421	105	80-120	
Silver, Total	EPA 3010	6010	0.100	0.092	92	80-120	
Thallium, Total	EPA 3010	6010	5.00	4.62	92	80-120	
Vanadium, Total	EPA 3010	6010	0.500	0.467	93	80-120	
Zinc, Total	EPA 3010	6010	0.500	0.481	96	80-120	

Approved By: [signature] Date: 6/13/97

LCS/020597p
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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: OHM Remediation Services Corp.
Project: UST-445-D070-CONTENTS/18609
Sample Matrix: Liquid

Service Request: L9701498
Date Collected: 4/29/97
Date Received: 4/29/97
Date Digested: 5/6/97
Date Analyzed: 5/6/97

Matrix Spike Summary
Metals

Sample Name: 18609-445-294
Lab Code: L9701498-003MS
Test Notes:

Units: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Lab Qualifier
Antimony, Total	EPA 3010	6010	0.05	5.00	0.05	4.27	85	75-125	
Arsenic, Total	EPA 3020	7060	0.005	0.0400	0.011	0.0488	94	75-125	
Barium, Total	EPA 3010	6010	0.02	0.500	0.16	0.578	84	75-125	
Beryllium, Total	EPA 3010	6010	0.005	0.100	0.005	0.088	88	75-125	
Cadmium, Total	EPA 3010	6010	0.005	0.100	0.008	0.093	85	75-125	
Chromium, Total	EPA 3010	6010	0.01	0.500	0.037	0.461	85	75-125	
Cobalt, Total	EPA 3010	6010	0.01	0.500	0.01	0.438	88	75-125	
Copper, Total	EPA 3010	6010	0.01	0.500	0.045	0.482	87	75-125	
Lead, Total	EPA 3010	6010	0.05	5.00	0.30	4.54	85	75-125	
Mercury, Total	EPA 7470	7470	0.001	0.00500	0.0249	0.0373	NC	75-125	G
Molybdenum, Total	EPA 3010	6010	0.02	0.500	0.02	0.435	87	75-125	
Nickel, Total	EPA 3010	6010	0.04	0.500	0.04	0.447	89	75-125	
Selenium, Total	EPA 3020	7740	0.005	0.0400	0.005	0.0136	34	60-125	N
Silver, Total	EPA 3010	6010	0.01	0.100	0.01	0.087	87	75-125	
Thallium, Total	EPA 3010	6010	0.1	5.00	0.1	4.17	83	75-125	
Vanadium, Total	EPA 3010	6010	0.01	0.500	0.035	0.461	92	75-125	
Zinc, Total	EPA 3010	6010	0.02	0.500	1.14	1.48	68	75-125	N

Approved By: _____ Date: 6/13/97

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: OHM Remediation Services Corp.
Project: UST-445-D070-CONTENTS/18609
Sample Matrix: Liquid

Service Request: L9701498
Date Collected: 4/29/97
Date Received: 4/29/97
Date Digested: 5/6/97
Date Analyzed: 5/6/97

Duplicate Summary
Metals

Sample Name: 18609-445-294
Lab Code: L9701498-003DUP
Test Notes:

Units: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	PQL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Lab Qualifier
Antimony, Total	EPA 3010	6010	0.05	0.05	0.05	0.05	0	
Arsenic, Total	EPA 3020	7060	0.005	0.011	0.009	0.01	20	
Barium, Total	EPA 3010	6010	0.02	0.16	0.14	0.15	13	
Beryllium, Total	EPA 3010	6010	0.005	0.005	0.005	0.005	0	
Cadmium, Total	EPA 3010	6010	0.005	0.008	0.009	0.008	12	
Chromium, Total	EPA 3010	6010	0.01	0.04	0.03	0.04	29	
Cobalt, Total	EPA 3010	6010	0.01	0.01	0.01	0.01	0	
Copper, Total	EPA 3010	6010	0.01	0.05	0.04	0.04	22	
Lead, Total	EPA 3010	6010	0.05	0.30	0.27	0.28	11	
Mercury, Total	EPA 7470	7470	0.001	0.025	0.026	0.026	4	
Molybdenum, Total	EPA 3010	6010	0.02	0.02	0.02	0.02	0	
Nickel, Total	EPA 3010	6010	0.04	0.04	0.04	0.04	0	
Selenium, Total	EPA 3020	7740	0.005	0.005	0.005	0.005	0	
Silver, Total	EPA 3010	6010	0.01	0.01	0.01	0.01	0	
Thallium, Total	EPA 3010	6010	0.1	0.1	0.1	0.1	0	
Vanadium, Total	EPA 3010	6010	0.01	0.04	0.03	0.04	29	
Zinc, Total	EPA 3010	6010	0.02	1.1	1.1	1.1	0	

Approved By: _____ Date: 6/13/97

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014981CP.IZ1 - DUP 6/12/97

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: OHM Remediation Services Corp.
Project: UST-314W-1/18609
LCS Matrix: Water

Service Request: L9701499
Date Collected: NA
Date Received: NA
Date Digested: 5/7/97
Date Analyzed: 5/7/97

Laboratory Control Sample Summary
Metals

Sample Name: Lab Control Sample
Lab Code: L970507-LCS
Test Notes:

Units: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Lab Qualifier
Antimony, Total	EPA 3010	6010	5.00	4.75	95	80-120	
Arsenic, Total	EPA 3020	7060	0.0400	0.0409	102	80-120	
Barium, Total	EPA 3010	6010	0.500	0.453	91	80-120	
Beryllium, Total	EPA 3010	6010	0.100	0.095	95	80-120	
Cadmium, Total	EPA 3010	6010	0.100	0.091	91	80-120	
Chromium, Total	EPA 3010	6010	0.500	0.473	95	80-120	
Cobalt, Total	EPA 3010	6010	0.500	0.468	94	80-120	
Copper, Total	EPA 3010	6010	0.500	0.484	97	80-120	
Lead, Total	EPA 3010	6010	5.00	4.67	93	80-120	
Mercury, Total	EPA 7470	7470	0.00500	0.00487	97	80-120	
Molybdenum, Total	EPA 3010	6010	0.500	0.481	96	80-120	
Nickel, Total	EPA 3010	6010	0.500	0.458	92	80-120	
Selenium, Total	EPA 3020	7740	0.0400	0.0423	106	80-120	
Silver, Total	EPA 3010	6010	0.100	0.092	92	80-120	
Thallium, Total	EPA 3010	6010	5.00	4.55	91	80-120	
Vanadium, Total	EPA 3010	6010	0.500	0.459	92	80-120	
Zinc, Total	EPA 3010	6010	0.500	0.476	95	80-120	

Approved By: _____ Date: 6/13/97

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	OHM Remediation Services Corp.	**Service Request:**	L9701499
Project:	UST-314W-1/18609	**Date Collected:**	4/29/97
Sample Matrix:	Liquid	**Date Received:**	NA
		Date Digested:	5/7/97
		Date Analyzed:	5/7/97

Matrix Spike Summary
Metals

Sample Name:	Batch QC	Units:	mg/L (ppm)
Lab Code:	L9701565-002MS	Basis:	NA
Test Notes:			

Analyte	Prep Method	Analysis Method	PQL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Lab Qualifier
Antimony, Total	EPA 3010	6010	0.05	5.00	0.05	4.83	97	75-125	
Arsenic, Total	EPA 3020	7060	0.005	0.0400	0.005	0.0368	92	75-125	
Barium, Total	EPA 3010	6010	0.02	0.500	0.026	0.493	93	75-125	
Beryllium, Total	EPA 3010	6010	0.005	0.100	0.005	0.097	97	75-125	
Cadmium, Total	EPA 3010	6010	0.005	0.100	0.005	0.097	92	75-125	
Chromium, Total	EPA 3010	6010	0.01	0.500	0.01	0.485	97	75-125	
Cobalt, Total	EPA 3010	6010	0.01	0.500	0.01	0.476	95	75-125	
Copper, Total	EPA 3010	6010	0.01	0.500	0.026	0.521	99	75-125	
Lead, Total	EPA 3010	6010	0.05	5.00	1.85	6.97	102	75-125	
Mercury, Total	EPA 7470	7470	0.001	0.00500	0.001	0.00508	102	75-125	
Molybdenum, Total	EPA 3010	6010	0.02	0.500	0.02	0.492	98	75-125	
Nickel, Total	EPA 3010	6010	0.04	0.500	0.04	0.465	93	75-125	
Selenium, Total	EPA 3020	7740	0.005	0.0400	0.005	0.0388	97	60-125	
Silver, Total	EPA 3010	6010	0.01	0.100	0.01	0.093	93	75-125	
Thallium, Total	EPA 3010	6010	0.1	5.00	0.1	4.62	92	75-125	
Vanadium, Total	EPA 3010	6010	0.01	0.500	0.01	0.474	95	75-125	
Zinc, Total	EPA 3010	6010	0.02	0.500	24.2	25.1	NC	75-125	N

Approved By: _____ Date: 6/13/97

MS/020597p
01499ICP.ST1 - MS 6/13/97

6925 Canoga Avenue ▪ Canoga Park, CA 91303 ▪ (818) 587-5550 ▪ Fax (818) 587-5555

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: OHM Remediation Services Corp.
Project: UST-314W-1/18609
Sample Matrix: Liquid

Service Request: L9701499
Date Collected: 4/29/97
Date Received: 4/29/97
Date Digested: 5/7/97
Date Analyzed: 5/7/97

Duplicate Summary
Metals

Sample Name: Batch QC
Lab Code: L9701565-002DUP
Test Notes:

Units: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	PQL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Lab Qualifier
Antimony, Total	EPA 3010	6010	0.05	0.05	0.05	0.05	0	
Arsenic, Total	EPA 3020	7060	0.005	0.005	0.005	0.005	0	
Barium, Total	EPA 3010	6010	0.02	0.026	0.023	0.024	12	
Beryllium, Total	EPA 3010	6010	0.005	0.005	0.005	0.005	0	
Cadmium, Total	EPA 3010	6010	0.005	0.005	0.003	0.004	50	
Chromium, Total	EPA 3010	6010	0.01	0.01	0.01	0.01	0	
Cobalt, Total	EPA 3010	6010	0.01	0.01	0.01	0.01	0	
Copper, Total	EPA 3010	6010	0.01	0.026	0.026	0.026	0	
Lead, Total	EPA 3010	6010	0.05	1.85	1.41	1.63	27	
Mercury, Total	EPA 7470	7470	0.001	0.001	0.001	0.001	0	
Molybdenum, Total	EPA 3010	6010	0.02	0.02	0.02	0.02	0	
Nickel, Total	EPA 3010	6010	0.04	0.04	0.04	0.04	0	
Selenium, Total	EPA 3020	7740	0.005	0.005	0.005	0.005	0	
Silver, Total	EPA 3010	6010	0.01	0.01	0.01	0.01	0	
Thallium, Total	EPA 3010	6010	0.1	0.1	0.1	0.1	0	
Vanadium, Total	EPA 3010	6010	0.01	0.01	0.01	0.01	0	
Zinc, Total	EPA 3010	6010	0.02	24.2	22.8	23.5	6	

Approved By: _____ Date: 6/13/97

DUP/020597p
01499ICP.ST1 - DUP 6/12/97

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Columbia Analytical Services inc.

June 12, 1997

Mary Schneider
OHM Remediation Service Corporation
2031 Main Street
Irvine, CA 92714

RECEIVED
JUN 16 1997

Re: MCAS El Toro / Project #18609

Dear Mary:

Enclosed are the results of the samples submitted to our laboratory on April 28, 1997. For your reference, these analyses have been assigned our service request numbers L9701472, L9701473 and L9701474.

All analyses were performed in accordance with our laboratory's quality assurance program. Results are intended to be considered in their entirety and apply only to the samples analyzed. Columbia Analytical Services is not responsible for use of less than the complete report.

Columbia Analytical Services is certified for environmental analyses by the California Department of Health Services (certificate number: 1296, expiration August 1998.)

Please call if you have any questions.

Respectfully submitted,

Columbia Analytical Services, Inc.

Ed Wilson
Project Chemist

EW/iz

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L9701412

OHM Remediation Services Corp.

CHAIN-OF-CUSTODY RECORD

LAB COF
Form 001
Field Technical Service
201927 Rev. 08/8

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME: UST - 314 - DO 70 - CONTENTS
PROJECT LOCATION: MCAS EL TORO
PROJ. NO.: 18609
PROJECT CONTACT: THIZAR WILLIAMS
PROJECT TELEPHONE NO.: (714) 263-1146 x620
CLIENT'S REPRESENTATIVE: LYNN HORNECKER, SWDIV
PROJECT MANAGER/SUPERVISOR: BILL SEDLAK, OHM

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	GAS/BTEX+MTBE A+P	8015M Full range *	8081 PCB only *	Title 22 Metals	Ignitability				REMARKS
1	18609-314-290	4/28/97	1320		X	UST 314 CONTENTS 314E-1	6	x	x	x	x	x				
2																
3																
4																
5																
6																
7																
8																
9																
10																

ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)

CAS

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1	1	[signature]	[signature]	4/28/97	2:35
2					
3					
4					

REMARKS
* - 8081 on hold
TB = 18609-288 on COC 201926
72 h TAT
4/29 client changed due date to 14 days

SAMPLER'S SIGNATURE: [signature]

Remediation Services Corp.

L470141S

CHAIN-OF-CUSTODY RECORD

LAB COP
Form 001
Field Technical Service
Rev. 08/8

201928

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME	PROJECT LOCATION
UST - 314 - D070 - CONTENTS	MCAS EL TORO

PROJ. NO.	PROJECT CONTACT	PROJECT TELEPHONE NO.
18609	THIZAR WILLIAMS	(714) 263-1146 X620

CLIENT'S REPRESENTATIVE	PROJECT MANAGER/SUPERVISOR
LYNN HORNECKER, SWDIV	BILL SEDLAK, OHM

ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS): GAS/BTEX + MTBE A + B C D E U; 8015M - full range; 8081 - PCB only; Title 22 Metals; Ignitability; CAS

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	GAS/BTEX + MTBE A + B C D E U	8015M - full range	8081 - PCB only	Title 22 Metals	Ignitability	CAS	REMARKS
1	18609-314-287	4/28/97	11:00		X	UST 314 CONTENTS, WATER	6	X	X	X	X	X		OWS
2														
3														
4														
5														
6														
7														
8														
9														
10														

4/28/97

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1	1	[signature], OHM	Kenneth Mati	4/28/97	2:30
2					
3					
4					

REMARKS
TB = 18609 - 288 on COC 201926
72 h TAT
4/29 Client changed TAT to two weeks.
5/6 Client changed TAT ← 72 hrs.

SAMPLER'S SIGNATURE: [signature]

OHM Remediation Services Corp.

CHAIN-OF-CUSTODY RECORD

L9701474

LAB COPY
Form 0019
Field Technical Services
Rev. 08/89

201926

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

A+B LOG 4

PROJECT NAME: UST - 357 - 0070 - CONTENTS

PROJECT LOCATION: MCAS EL TORO

PROJ. NO.: 18609

PROJECT CONTACT: THIZAR WILLIAMS

PROJECT TELEPHONE NO.: (714) 263 - 1146 x620

CLIENT'S REPRESENTATIVE: LYNN HORNECKER, ~~SWDIV~~ SWDIV

PROJECT MANAGER/SUPERVISOR: BILL SEDLAK, OHM

4/28/97

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	GAS/BTEX + MTBE	8015M - full range	8081 - PCB only	Title 22 Metals	Ignitability				REMARKS
1	18609-288	4/28/97	7:00		X	TRIP BLANK (4/28/97)	2	X								17486-293
2	18609-357-285	4/28/97	10:35		X	UST 357 STANDING WATER CONTENTS,	6	X	X	X	X	X	X			17486-357-291
3	18609-357-286	4/28/97	10:45		X	UST 357 CONTENTS, SOIL	1	X	X	X	X	X	X			17486-357-292
4																
5																
6																
7																
8																
9																
10																

CAS

4/28/97

8/29/97

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1	1 - 3	OHM	Kenneth Moat	4/28/97	2:30
2					
3					
4					

REMARKS: 72 h TAT

SAMPLER'S SIGNATURE:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: OHM Remediation Services Corp.
Project: UST-314-D070-Contents/18609
Sample Matrix: Water

Service Request: L9701472
Date Collected: NA
Date Received: NA

Metals

Sample Name: Method Blank
Lab Code: L970430-MB7
Test Notes:

Units: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	PQL	Dilution Factor	Date Digested	Date Analyzed	Result	Lab Qualifier
Antimony, Total	EPA 3010	6010	0.05	1	4/30/97	5/2/97	0.05	U
Arsenic, Total	EPA 3020	7060	0.005	1	4/30/97	5/1/97	0.005	U
Barium, Total	EPA 3010	6010	0.02	1	4/30/97	5/2/97	0.02	U
Beryllium, Total	EPA 3010	6010	0.005	1	4/30/97	5/2/97	0.005	U
Cadmium, Total	EPA 3010	6010	0.005	1	4/30/97	5/2/97	0.005	U
Chromium, Total	EPA 3010	6010	0.01	1	4/30/97	5/2/97	0.01	U
Cobalt, Total	EPA 3010	6010	0.01	1	4/30/97	5/2/97	0.01	U
Copper, Total	EPA 3010	6010	0.01	1	4/30/97	5/2/97	0.01	U
Lead, Total	EPA 3010	6010	0.05	1	4/30/97	5/2/97	0.05	U
Mercury, Total	EPA 7470	7470	0.001	1	4/30/97	5/1/97	0.001	U
Molybdenum, Total	EPA 3010	6010	0.02	1	4/30/97	5/2/97	0.02	U
Nickel, Total	EPA 3010	6010	0.04	1	4/30/97	5/2/97	0.04	U
Selenium, Total	EPA 3020	7740	0.005	1	4/30/97	5/1/97	0.005	U
Silver, Total	EPA 3010	6010	0.01	1	4/30/97	5/2/97	0.01	U
Thallium, Total	EPA 3010	6010	0.1	1	4/30/97	5/2/97	0.1	U
Vanadium, Total	EPA 3010	6010	0.01	1	4/30/97	5/2/97	0.01	U
Zinc, Total	EPA 3010	6010	0.02	1	4/30/97	5/2/97	0.02	U

Approved By: _____ Date: 6/11/97

021397p

3001

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: OHM Remediation Services Corp.
Project: UST-314-D070-Contents/18609
Sample Matrix: Water

Service Request: L9701472
Date Collected: 4/28/97
Date Received: 4/28/97

Metals

Sample Name: 18609-314-290
Lab Code: L9701472-001
Test Notes:

Units: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	PQL	Dilution Factor	Date Digested	Date Analyzed	Result	Lab Qualifier
Antimony, Total	EPA 3010	6010	0.05	5	4/30/97	5/2/97	0.25	U
Arsenic, Total	EPA 3020	7060	0.005	5	4/30/97	5/1/97	0.27	
Barium, Total	EPA 3010	6010	0.02	5	4/30/97	5/2/97	3.4	
Beryllium, Total	EPA 3010	6010	0.005	5	4/30/97	5/2/97	0.025	U
Cadmium, Total	EPA 3010	6010	0.005	5	4/30/97	5/2/97	0.43	
Chromium, Total	EPA 3010	6010	0.01	5	4/30/97	5/2/97	0.88	
Cobalt, Total	EPA 3010	6010	0.01	5	4/30/97	5/2/97	0.07	
Copper, Total	EPA 3010	6010	0.01	5	4/30/97	5/2/97	6.7	
Lead, Total	EPA 3010	6010	0.05	5	4/30/97	5/2/97	11	
Mercury, Total	EPA 7470	7470	0.001	1	4/30/97	5/1/97	0.001	U
Molybdenum, Total	EPA 3010	6010	0.02	5	4/30/97	5/2/97	1.1	
Nickel, Total	EPA 3010	6010	0.04	5	4/30/97	5/2/97	0.29	
Selenium, Total	EPA 3020	7740	0.005	5	4/30/97	5/1/97	0.025	U
Silver, Total	EPA 3010	6010	0.01	5	4/30/97	5/2/97	0.05	U
Thallium, Total	EPA 3010	6010	0.1	5	4/30/97	5/2/97	0.5	U
Vanadium, Total	EPA 3010	6010	0.01	5	4/30/97	5/2/97	0.18	
Zinc, Total	EPA 3010	6010	0.02	5	4/30/97	5/2/97	120	

Approved By: _____ Date: 6/11/97

1S44/021397p

3002

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: OHM Remediation Services Corp.
Project: UST-314-D070-Contents/18609
Sample Matrix: Water

Service Request: L9701473
Date Collected: NA
Date Received: NA

Metals

Sample Name: Method Blank
Lab Code: L970430-MB
Test Notes:

Units: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	PQL	Dilution Factor	Date Digested	Date Analyzed	Result	Lab Qualifier
Antimony, Total	EPA 3010	6010	0.05	1	4/30/97	5/2/97	0.05	
Arsenic, Total	EPA 3020	7060	0.005	1	4/30/97	5/1/97	0.005	
Barium, Total	EPA 3010	6010	0.02	1	4/30/97	5/2/97	0.02	
Beryllium, Total	EPA 3010	6010	0.005	1	4/30/97	5/2/97	0.005	
Cadmium, Total	EPA 3010	6010	0.005	1	4/30/97	5/2/97	0.005	
Chromium, Total	EPA 3010	6010	0.01	1	4/30/97	5/2/97	0.01	
Cobalt, Total	EPA 3010	6010	0.01	1	4/30/97	5/2/97	0.01	
Copper, Total	EPA 3010	6010	0.01	1	4/30/97	5/2/97	0.01	
Lead, Total	EPA 3010	6010	0.05	1	4/30/97	5/2/97	0.05	
Mercury, Total	EPA 7470	7470	0.001	1	4/30/97	5/1/97	0.001	
Molybdenum, Total	EPA 3010	6010	0.02	1	4/30/97	5/2/97	0.02	
Nickel, Total	EPA 3010	6010	0.04	1	4/30/97	5/2/97	0.04	
Selenium, Total	EPA 3020	7740	0.005	1	4/30/97	5/1/97	0.005	
Silver, Total	EPA 3010	6010	0.01	1	4/30/97	5/2/97	0.01	
Thallium, Total	EPA 3010	6010	0.1	1	4/30/97	5/2/97	0.1	
Vanadium, Total	EPA 3010	6010	0.01	1	4/30/97	5/2/97	0.01	
Zinc, Total	EPA 3010	6010	0.02	1	4/30/97	5/2/97	0.02	

Approved By: _____ Date: 6/11/97

021397p

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: OHM Remediation Services Corp.
Project: UST-314-D070-Contents/18609
Sample Matrix: Water

Service Request: L9701473
Date Collected: 4/28/97
Date Received: 4/28/97

Metals

Sample Name: 18609-314-287
Lab Code: L9701473-001
Test Notes:

Units: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	PQL	Dilution Factor	Date Digested	Date Analyzed	Result	Lab Qualifier
Antimony, Total	EPA 3010	6010	0.05	1	4/30/97	5/2/97	0.05	U
Arsenic, Total	EPA 3020	7060	0.005	1	4/30/97	5/1/97	0.005	U
Barium, Total	EPA 3010	6010	0.02	1	4/30/97	5/2/97	0.08	
Beryllium, Total	EPA 3010	6010	0.005	1	4/30/97	5/2/97	0.005	U
Cadmium, Total	EPA 3010	6010	0.005	1	4/30/97	5/2/97	0.005	U
Chromium, Total	EPA 3010	6010	0.01	1	4/30/97	5/2/97	0.01	U
Cobalt, Total	EPA 3010	6010	0.01	1	4/30/97	5/2/97	0.01	U
Copper, Total	EPA 3010	6010	0.01	1	4/30/97	5/2/97	0.02	
Lead, Total	EPA 3010	6010	0.05	1	4/30/97	5/2/97	0.05	U
Mercury, Total	EPA 7470	7470	0.001	1	4/30/97	5/1/97	0.001	U
Molybdenum, Total	EPA 3010	6010	0.02	1	4/30/97	5/2/97	0.02	U
Nickel, Total	EPA 3010	6010	0.04	1	4/30/97	5/2/97	0.08	
Selenium, Total	EPA 3020	7740	0.005	1	4/30/97	5/1/97	0.005	U
Silver, Total	EPA 3010	6010	0.01	1	4/30/97	5/2/97	0.01	U
Thallium, Total	EPA 3010	6010	0.1	1	4/30/97	5/2/97	0.1	U
Vanadium, Total	EPA 3010	6010	0.01	1	4/30/97	5/2/97	0.09	
Zinc, Total	EPA 3010	6010	0.02	1	4/30/97	5/2/97	0.20	

Approved By: _____ Date: 6/11/97
1S44/021397p

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	OHM Remediation Services Corp.	Service Request:	L9701474
Project:	UST-357-D070-Contents/17486	Date Collected:	NA
Sample Matrix:	Soil	Date Received:	NA

Metals

Sample Name:	Method Blank	Units:	mg/Kg (ppm)
Lab Code:	L970430-MB	Basis:	NA
Test Notes:			

Analyte	Prep Method	Analysis Method	PQL	MDL	Dilution Factor	Date Digested	Date Analyzed	Result	Lab Qualifier
Antimony, Total	EPA 3050	6010	10	3	1	4/30/97	4/30/97	10	U
Arsenic, Total	EPA 3050	7060	5	0.2	1	4/30/97	5/1/97	5	U
Barium, Total	EPA 3050	6010	1	0.08	1	4/30/97	4/30/97	1	U
Beryllium, Total	EPA 3050	6010	0.5	0.02	1	4/30/97	4/30/97	0.5	U
Cadmium, Total	EPA 3050	6010	1	0.3	1	4/30/97	4/30/97	1	U
Chromium, Total	EPA 3050	6010	2	0.2	1	4/30/97	4/30/97	2	U
Cobalt, Total	EPA 3050	6010	2	0.3	1	4/30/97	4/30/97	2	U
Copper, Total	EPA 3050	6010	2	0.3	1	4/30/97	4/30/97	2	U
Lead, Total	EPA 3050	6010	5	0.1	1	4/30/97	4/30/97	5	U
Mercury, Total	EPA 7471	7471	0.2	0.01	1	5/1/97	5/1/97	0.2	U
Molybdenum, Total	EPA 3050	6010	10	0.2	1	4/30/97	4/30/97	10	U
Nickel, Total	EPA 3050	6010	5	1	1	4/30/97	4/30/97	5	U
Selenium, Total	EPA 3050	7740	5	0.3	1	4/30/97	5/1/97	5	U
Silver, Total	EPA 3050	6010	1	0.4	1	4/30/97	4/30/97	1	U
Thallium, Total	EPA 3050	6010	20	0.003	1	4/30/97	4/30/97	20	U
Vanadium, Total	EPA 3050	6010	2	0.3	1	4/30/97	4/30/97	2	U
Zinc, Total	EPA 3050	6010	1	0.06	1	4/30/97	4/30/97	1	U

Approved By: [signature] Date: 6/11/97

21397p

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: OHM Remediation Services Corp.
Project: UST-357-D070-Contents/17486
Sample Matrix: Soil

Service Request: L9701474
Date Collected: 4/28/97
Date Received: 4/28/97

Metals

Sample Name: 17486-357-292
Lab Code: L9701474-003
Test Notes:

Units: mg/Kg (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	PQL	MDL	Dilution Factor	Date Digested	Date Analyzed	Result	Lab Qualifier
Antimony, Total	EPA 3050	6010	14	3	1	4/30/97	4/30/97	14	U
Arsenic, Total	EPA 3050	7060	6.8	0.2	1	4/30/97	4/30/97	6.8	U
Barium, Total	EPA 3050	6010	1.4	0.08	1	4/30/97	4/30/97	65	
Beryllium, Total	EPA 3050	6010	0.7	0.02	1	4/30/97	4/30/97	0.7	U
Cadmium, Total	EPA 3050	6010	1.4	0.3	1	4/30/97	4/30/97	9.0	
Chromium, Total	EPA 3050	6010	2.8	0.2	1	4/30/97	4/30/97	210	
Cobalt, Total	EPA 3050	6010	2.8	0.3	1	4/30/97	4/30/97	8.4	
Copper, Total	EPA 3050	6010	2.8	0.3	1	4/30/97	4/30/97	62	
Lead, Total	EPA 3050	6010	6.8	0.1	1	4/30/97	4/30/97	120	
Mercury, Total	EPA 7471	7471	0.28	0.01	1	4/30/97	4/30/97	0.28	U
Molybdenum, Total	EPA 3050	6010	14	0.2	1	4/30/97	4/30/97	14	U
Nickel, Total	EPA 3050	6010	6.8	1	1	4/30/97	4/30/97	24	
Selenium, Total	EPA 3050	7740	6.8	0.3	1	4/30/97	4/30/97	6.8	U
Silver, Total	EPA 3050	6010	1.4	0.4	1	4/30/97	4/30/97	1.4	U
Thallium, Total	EPA 3050	6010	28	0.003	1	4/30/97	4/30/97	28	U
Vanadium, Total	EPA 3050	6010	2.8	0.3	1	4/30/97	4/30/97	18	
Zinc, Total	EPA 3050	6010	1.4	0.06	1	4/30/97	4/30/97	560	

Approved By: _____ Date: 6/11/97
1S44/021397p

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: OHM Remediation Services Corp.
Project: UST-357-D070-Contents/17486
Sample Matrix: Water

Service Request: L9701474
Date Collected: NA
Date Received: NA

Metals

Sample Name: Method Blank
Lab Code: L970430-MB
Test Notes:

Units: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	PQL	Dilution Factor	Date Digested	Date Analyzed	Result	Lab Qualifier
Antimony, Total	EPA 3010	6010	0.05	1	4/30/97	5/2/97	0.05	U
Arsenic, Total	EPA 3020	7060	0.005	1	4/30/97	5/1/97	0.005	U
Barium, Total	EPA 3010	6010	0.02	1	4/30/97	5/2/97	0.02	U
Beryllium, Total	EPA 3010	6010	0.005	1	4/30/97	5/2/97	0.005	U
Cadmium, Total	EPA 3010	6010	0.005	1	4/30/97	5/2/97	0.005	U
Chromium, Total	EPA 3010	6010	0.01	1	4/30/97	5/2/97	0.01	U
Cobalt, Total	EPA 3010	6010	0.01	1	4/30/97	5/2/97	0.01	U
Copper, Total	EPA 3010	6010	0.01	1	4/30/97	5/2/97	0.01	U
Lead, Total	EPA 3010	6010	0.05	1	4/30/97	5/2/97	0.05	U
Mercury, Total	EPA 7470	7470	0.001	1	4/30/97	5/1/97	0.001	U
Molybdenum, Total	EPA 3010	6010	0.02	1	4/30/97	5/2/97	0.02	U
Nickel, Total	EPA 3010	6010	0.04	1	4/30/97	5/2/97	0.04	U
Selenium, Total	EPA 3020	7740	0.005	1	4/30/97	5/1/97	0.005	U
Silver, Total	EPA 3010	6010	0.01	1	4/30/97	5/2/97	0.01	U
Thallium, Total	EPA 3010	6010	0.1	1	4/30/97	5/2/97	0.1	U
Vanadium, Total	EPA 3010	6010	0.01	1	4/30/97	5/2/97	0.01	U
Zinc, Total	EPA 3010	6010	0.02	1	4/30/97	5/2/97	0.02	U

Approved By: _____ Date: 6/11/97

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: OHM Remediation Services Corp.
Project: UST-357-D070-Contents/17486
Sample Matrix: Water

Service Request: L9701474
Date Collected: 4/28/97
Date Received: 4/28/97

Metals

Sample Name: 17486-357-291
Lab Code: L9701474-002
Test Notes:

Units: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	PQL	Dilution Factor	Date Digested	Date Analyzed	Result	Lab Qualifier
Antimony, Total	EPA 3010	6010	0.05	1	4/30/97	5/2/97	0.05	U
Arsenic, Total	EPA 3020	7060	0.005	1	4/30/97	5/2/97	0.005	U
Barium, Total	EPA 3010	6010	0.02	1	4/30/97	5/2/97	0.02	
Beryllium, Total	EPA 3010	6010	0.005	1	4/30/97	5/2/97	0.005	U
Cadmium, Total	EPA 3010	6010	0.005	1	4/30/97	5/2/97	0.005	U
Chromium, Total	EPA 3010	6010	0.01	1	4/30/97	5/2/97	0.03	
Cobalt, Total	EPA 3010	6010	0.01	1	4/30/97	5/2/97	0.01	
Copper, Total	EPA 3010	6010	0.01	1	4/30/97	5/2/97	0.09	
Lead, Total	EPA 3010	6010	0.05	1	4/30/97	5/2/97	0.05	U
Mercury, Total	EPA 7470	7470	0.001	1	4/30/97	5/2/97	0.001	U
Molybdenum, Total	EPA 3010	6010	0.02	1	4/30/97	5/2/97	0.03	
Nickel, Total	EPA 3010	6010	0.04	1	4/30/97	5/2/97	0.07	
Selenium, Total	EPA 3020	7740	0.005	1	4/30/97	5/2/97	0.005	U
Silver, Total	EPA 3010	6010	0.01	1	4/30/97	5/2/97	0.01	U
Thallium, Total	EPA 3010	6010	0.1	1	4/30/97	5/2/97	0.1	U
Vanadium, Total	EPA 3010	6010	0.01	1	4/30/97	5/2/97	0.01	U
Zinc, Total	EPA 3010	6010	0.02	1	4/30/97	5/2/97	0.58	

Approved By: EDWil Date: 6/11/97
1S44/021397p

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: OHM Remediation Services Corp.
Project: UST-314-D070-Contents/18609
LCS Matrix: Water

Service Request: L9701472
Date Collected: NA
Date Received: NA
Date Digested: 4/30/97
Date Analyzed: 5/2/97

Laboratory Control Sample Summary
Metals

Sample Name: Lab Control Sample
Lab Code: L970430-LCS
Test Notes:

Units: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Lab Qualifier
Antimony, Total	EPA 3010	6010	5.00	4.8	96	80-120	
Arsenic, Total	EPA 3020	7060	0.0400	0.0424	106	80-120	
Barium, Total	EPA 3010	6010	0.500	0.477	95	80-120	
Beryllium, Total	EPA 3010	6010	0.100	0.096	96	80-120	
Cadmium, Total	EPA 3010	6010	0.100	0.092	92	80-120	
Chromium, Total	EPA 3010	6010	0.500	0.475	95	80-120	
Cobalt, Total	EPA 3010	6010	0.500	0.479	96	80-120	
Copper, Total	EPA 3010	6010	0.500	0.485	97	80-120	
Lead, Total	EPA 3010	6010	5.00	4.72	94	80-120	
Mercury, Total	EPA 7470	7470	0.00500	0.00493	99	80-120	
Molybdenum, Total	EPA 3010	6010	0.500	0.486	97	80-120	
Nickel, Total	EPA 3010	6010	0.500	0.467	93	80-120	
Selenium, Total	EPA 3020	7740	0.0400	0.0414	104	80-120	
Silver, Total	EPA 3010	6010	0.100	0.095	95	80-120	
Thallium, Total	EPA 3010	6010	5.00	4.7	94	80-120	
Vanadium, Total	EPA 3010	6010	0.500	0.472	94	80-120	
Zinc, Total	EPA 3010	6010	0.500	0.477	95	80-120	

Approved By: _____ Date: 6/11/97

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: OHM Remediation Services Corp.
Project: UST-314-D070-Contents/18609
Sample Matrix: Water

Service Request: L9701472
Date Collected: NA
Date Received: NA
Date Digested: 4/30/97
Date Analyzed: 5/2/97

Matrix Spike Summary
Metals

Sample Name: Batch QC
Lab Code: L9701473-001MS
Test Notes:

Units: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Lab Qualifier
Antimony, Total	EPA 3010	6010	0.05	5.00	0.05	4.38	88	75-125	
Arsenic, Total	EPA 3020	7060	0.005	0.0400	0.0028	0.0367	85	75-125	
Barium, Total	EPA 3010	6010	0.02	0.500	0.077	0.519	88	75-125	
Beryllium, Total	EPA 3010	6010	0.005	0.100	0.005	0.089	89	75-125	
Cadmium, Total	EPA 3010	6010	0.005	0.100	0.005	0.086	86	75-125	
Chromium, Total	EPA 3010	6010	0.01	0.500	0.01	0.448	90	75-125	
Cobalt, Total	EPA 3010	6010	0.01	0.500	0.01	0.446	89	75-125	
Copper, Total	EPA 3010	6010	0.01	0.500	0.018	0.465	89	75-125	
Lead, Total	EPA 3010	6010	0.05	5.00	0.05	4.40	88	75-125	
Mercury, Total	EPA 7470	7470	0.001	0.00500	0.001	0.00493	99	75-125	
Molybdenum, Total	EPA 3010	6010	0.02	0.500	0.02	0.447	89	75-125	
Nickel, Total	EPA 3010	6010	0.04	0.500	0.075	0.502	85	75-125	
Selenium, Total	EPA 3020	7740	0.005	0.0400	0.005	0.0362	90	60-125	
Silver, Total	EPA 3010	6010	0.01	0.100	0.01	0.089	89	75-125	
Thallium, Total	EPA 3010	6010	0.1	5.00	0.1	4.36	87	75-125	
Vanadium, Total	EPA 3010	6010	0.01	0.500	0.088	0.53	88	75-125	
Zinc, Total	EPA 3010	6010	0.02	0.500	0.205	0.644	88	75-125	

Approved By: _____ Date: 6/11/97

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: OHM Remediation Services Corp.
Project: UST-314-D070-Contents/18609
Sample Matrix: Water

Service Request: L9701472
Date Collected: NA
Date Received: NA
Date Digested: 4/30/97
Date Analyzed: 5/2/97

Duplicate Summary
Metals

Sample Name: 17486-357-291
Lab Code: L9701474-002DUP
Test Notes:

Units: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	PQL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Lab Qualifier
Antimony, Total	EPA 3010	6010	0.05	0.05	0.05	0.05	0	
Arsenic, Total	EPA 3020	7060	0.005	0.005	0.005	0.005	0	
Barium, Total	EPA 3010	6010	0.02	0.022	0.023	0.022	9	
Beryllium, Total	EPA 3010	6010	0.005	0.005	0.005	0.005	0	
Cadmium, Total	EPA 3010	6010	0.005	0.005	0.005	0.005	0	
Chromium, Total	EPA 3010	6010	0.01	0.027	0.028	0.028	4	
Cobalt, Total	EPA 3010	6010	0.01	0.013	0.012	0.012	8	
Copper, Total	EPA 3010	6010	0.01	0.089	0.091	0.09	2	
Lead, Total	EPA 3010	6010	0.05	0.05	0.05	0.05	0	
Mercury, Total	EPA 7470	7470	0.001	0.001	0.001	0.001	0	
Molybdenum, Total	EPA 3010	6010	0.02	0.026	0.029	0.028	11	
Nickel, Total	EPA 3010	6010	0.04	0.072	0.074	0.073	3	
Selenium, Total	EPA 3020	7740	0.005	0.005	0.005	0.005	0	
Silver, Total	EPA 3010	6010	0.01	0.01	0.01	0.01	0	
Thallium, Total	EPA 3010	6010	0.1	0.1	0.1	0.1	0	
Vanadium, Total	EPA 3010	6010	0.01	0.01	0.01	0.01	0	
Zinc, Total	EPA 3010	6010	0.02	0.575	0.589	0.582	2	

Approved By: _____ Date: 8/27/97

Amended

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: OHM Remediation Services Corp.
Project: UST-314-D070-Contents/18609
Sample Matrix: Water

Service Request: L9701472
Date Collected: NA
Date Received: NA
Date Digested: 4/30/97
Date Analyzed: 5/2/97

Duplicate Summary
Metals

Sample Name: Duplicate
Lab Code: L9701474-002DUP
Test Notes:

Units: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	PQL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Lab Qualifier
Antimony, Total	EPA 3010	6010	0.05	0.05	0.05	0.05	0	
Arsenic, Total	EPA 3020	7060	0.005	0.005	0.005	0.005	0	
Barium, Total	EPA 3010	6010	0.02	0.022	0.023	0.022	9	
Beryllium, Total	EPA 3010	6010	0.005	0.005	0.005	0.005	0	
Cadmium, Total	EPA 3010	6010	0.005	0.005	0.005	0.005	0	
Chromium, Total	EPA 3010	6010	0.01	0.027	0.028	0.028	4	
Cobalt, Total	EPA 3010	6010	0.01	0.013	0.012	0.012	8	
Copper, Total	EPA 3010	6010	0.01	0.089	0.091	0.09	2	
Lead, Total	EPA 3010	6010	0.05	0.05	0.05	0.05	0	
Mercury, Total	EPA 7470	7470	0.001	0.001	0.001	0.001	0	
Molybdenum, Total	EPA 3010	6010	0.02	0.026	0.029	0.028	11	
Nickel, Total	EPA 3010	6010	0.04	0.072	0.074	0.073	3	
Selenium, Total	EPA 3020	7740	0.005	0.005	0.005	0.005	0	
Silver, Total	EPA 3010	6010	0.01	0.01	0.01	0.01	0	
Thallium, Total	EPA 3010	6010	0.1	0.1	0.1	0.1	0	
Vanadium, Total	EPA 3010	6010	0.01	0.01	0.01	0.01	0	
Zinc, Total	EPA 3010	6010	0.02	0.575	0.589	0.582	2	

Approved By: _____ Date: 6/11/97

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: OHM Remediation Services Corp.
Project: UST-314-D070-Contents/18609
LCS Matrix: Water

Service Request: L9701473
Date Collected: NA
Date Received: NA
Date Digested: 4/30/97
Date Analyzed: 5/2/97

Laboratory Control Sample Summary
Metals

Sample Name: Lab Control Sample
Lab Code: L970430-LCS
Test Notes:

Units: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Lab Qualifier
Antimony, Total	EPA 3010	6010	5.00	4.80	96	80-120	
Arsenic, Total	EPA 3020	7060	0.0400	0.0424	106	80-120	
Barium, Total	EPA 3010	6010	0.500	0.477	95	80-120	
Beryllium, Total	EPA 3010	6010	0.100	0.096	96	80-120	
Cadmium, Total	EPA 3010	6010	0.100	0.092	92	80-120	
Chromium, Total	EPA 3010	6010	0.500	0.475	95	80-120	
Cobalt, Total	EPA 3010	6010	0.500	0.479	96	80-120	
Copper, Total	EPA 3010	6010	0.500	0.485	97	80-120	
Lead, Total	EPA 3010	6010	5.00	4.72	94	80-120	
Mercury, Total	EPA 7470	7470	0.00500	0.00493	99	80-120	
Molybdenum, Total	EPA 3010	6010	0.500	0.486	97	80-120	
Nickel, Total	EPA 3010	6010	0.500	0.467	93	80-120	
Selenium, Total	EPA 3020	7740	0.0400	0.0414	103	80-120	
Silver, Total	EPA 3010	6010	0.100	0.095	95	80-120	
Thallium, Total	EPA 3010	6010	5.00	4.70	94	80-120	
Vanadium, Total	EPA 3010	6010	0.500	0.472	94	80-120	
Zinc, Total	EPA 3010	6010	0.500	0.477	95	80-120	

Approved By: _____ Date: 6/4/97

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: OHM Remediation Services Corp.
Project: UST-314-D070-Contents/18609
Sample Matrix: Water

Service Request: L9701473
Date Collected: 4/28/97
Date Received: 4/28/97
Date Digested: 4/30/97
Date Analyzed: 5/2/97

Matrix Spike Summary
Metals

Sample Name: 18609-314-287
Lab Code: L9701473-001MS
Test Notes:

Units: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	PQL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Lab Qualifier
Antimony, Total	EPA 3010	6010	0.05	5.00	0.05	4.38	88	75-125	
Arsenic, Total	EPA 3020	7060	0.005	0.0400	0.005	0.0367	92	75-125	
Barium, Total	EPA 3010	6010	0.02	0.500	0.08	0.519	88	75-125	
Beryllium, Total	EPA 3010	6010	0.005	0.100	0.005	0.089	89	75-125	
Cadmium, Total	EPA 3010	6010	0.005	0.100	0.005	0.086	86	75-125	
Chromium, Total	EPA 3010	6010	0.01	0.500	0.01	0.448	90	75-125	
Cobalt, Total	EPA 3010	6010	0.01	0.500	0.01	0.446	89	75-125	
Copper, Total	EPA 3010	6010	0.01	0.500	0.02	0.465	89	75-125	
Lead, Total	EPA 3010	6010	0.05	5.00	0.05	4.40	88	75-125	
Mercury, Total	EPA 7470	7470	0.001	0.00500	0.001	0.00493	99	75-125	
Molybdenum, Total	EPA 3010	6010	0.02	0.500	0.02	0.447	89	75-125	
Nickel, Total	EPA 3010	6010	0.04	0.500	0.08	0.502	84	75-125	
Selenium, Total	EPA 3020	7740	0.005	0.0400	0.005	0.0362	90	60-125	
Silver, Total	EPA 3010	6010	0.01	0.100	0.01	0.089	89	75-125	
Thallium, Total	EPA 3010	6010	0.1	5.00	0.1	4.36	87	75-125	
Vanadium, Total	EPA 3010	6010	0.01	0.500	0.09	0.530	88	75-125	
Zinc, Total	EPA 3010	6010	0.02	0.500	0.20	0.644	89	75-125	

Approved By: _____ Date: 6/4/97

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: OHM Remediation Services Corp.
Project: UST-314-D070-Contents/18609
Sample Matrix: Water

Service Request: L9701473
Date Collected: NA
Date Received: NA
Date Digested: 4/30/97
Date Analyzed: 5/2/97

Duplicate Summary
Metals

Sample Name: 17486-357-291
Lab Code: L9701474-002DUP
Test Notes:

Units: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	PQL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Lab Qualifier
Antimony, Total	EPA 3010	6010	0.05	0.05	0.05	0.05	0	U
Arsenic, Total	EPA 3020	7060	0.005	0.005	0.005	0.005	0	U
Barium, Total	EPA 3010	6010	0.02	0.02	0.02	0.02	0	U
Beryllium, Total	EPA 3010	6010	0.005	0.005	0.005	0.005	0	U
Cadmium, Total	EPA 3010	6010	0.005	0.005	0.005	0.005	0	U
hromium, Total	EPA 3010	6010	0.01	0.03	0.03	0.03	0	
Cobalt, Total	EPA 3010	6010	0.01	0.01	0.01	0.01	0	U
Copper, Total	EPA 3010	6010	0.01	0.09	0.09	0.09	0	
Lead, Total	EPA 3010	6010	0.05	0.05	0.05	0.05	0	U
Mercury, Total	EPA 7470	7470	0.001	0.001	0.001	0.001	0	U
Molybdenum, Total	EPA 3010	6010	0.02	0.03	0.03	0.03	0	
Nickel, Total	EPA 3010	6010	0.04	0.07	0.07	0.07	0	
Selenium, Total	EPA 3020	7740	0.005	0.005	0.005	0.005	0	U
Silver, Total	EPA 3010	6010	0.01	0.01	0.01	0.01	0	U
Thallium, Total	EPA 3010	6010	0.1	0.1	0.1	0.1	0	U
Vanadium, Total	EPA 3010	6010	0.01	0.01	0.01	0.01	0	U
Zinc, Total	EPA 3010	6010	0.02	0.58	0.59	0.58	2	

Approved By: _____ Date: 8/27/97

Amended

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: OHM Remediation Services Corp.
Project: UST-314-D070-Contents/18609
Sample Matrix: Water

Service Request: L9701473
Date Collected: NA
Date Received: NA
Date Digested: 4/30/97
Date Analyzed: 5/2/97

Duplicate Summary
Metals

Sample Name: Batch QC
Lab Code: L9701474-002DUP
Test Notes:

Units: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	PQL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Lab Qualifier
Antimony, Total	EPA 3010	6010	0.05	0.05	0.05	0.05	0	U
Arsenic, Total	EPA 3020	7060	0.005	0.005	0.005	0.005	0	U
Barium, Total	EPA 3010	6010	0.02	0.02	0.02	0.02	0	U
Beryllium, Total	EPA 3010	6010	0.005	0.005	0.005	0.005	0	U
Cadmium, Total	EPA 3010	6010	0.005	0.005	0.005	0.005	0	U
Chromium, Total	EPA 3010	6010	0.01	0.03	0.03	0.03	0	
Cobalt, Total	EPA 3010	6010	0.01	0.01	0.01	0.01	0	U
Copper, Total	EPA 3010	6010	0.01	0.09	0.09	0.09	0	
Lead, Total	EPA 3010	6010	0.05	0.05	0.05	0.05	0	U
Mercury, Total	EPA 7470	7470	0.001	0.001	0.001	0.001	0	U
Molybdenum, Total	EPA 3010	6010	0.02	0.03	0.03	0.03	0	
Nickel, Total	EPA 3010	6010	0.04	0.07	0.07	0.07	0	
Selenium, Total	EPA 3020	7740	0.005	0.005	0.005	0.005	0	U
Silver, Total	EPA 3010	6010	0.01	0.01	0.01	0.01	0	U
Thallium, Total	EPA 3010	6010	0.1	0.1	0.1	0.1	0	U
Vanadium, Total	EPA 3010	6010	0.01	0.01	0.01	0.01	0	U
Zinc, Total	EPA 3010	6010	0.02	0.58	0.59	0.58	2	

Approved By: _____ Date: 6/12/97

DUP/020597p
01473ICP.IZ1 - DLP 6/12/97

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: OHM Remediation Services Corp.
Project: UST-357-D070-Contents/17486
LCS Matrix: Water

Service Request: L9701474
Date Collected: NA
Date Received: NA
Date Digested: 4/30/97
Date Analyzed: 4/30/97

Laboratory Control Sample Summary
Metals

Sample Name: Lab Control Sample
Lab Code: L970430-LCS
Test Notes:

Units: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Lab Qualifier
Antimony, Total	EPA 3050	6010	0.500	0.495	99	75-125	
Arsenic, Total	EPA 3050	7060	0.0200	0.0182	91	75-125	
Barium, Total	EPA 3050	6010	1.25	1.16	93	75-125	
Beryllium, Total	EPA 3050	6010	0.100	0.095	95	75-125	
Cadmium, Total	EPA 3050	6010	0.100	0.096	96	75-125	
Chromium, Total	EPA 3050	6010	0.500	0.492	98	75-125	
Cobalt, Total	EPA 3050	6010	0.500	0.490	98	75-125	
Copper, Total	EPA 3050	6010	0.500	0.495	99	75-125	
Lead, Total	EPA 3050	6010	0.500	0.475	95	75-125	
Mercury, Total	EPA 7471	7471	0.00500	0.00486	97	75-125	
Molybdenum, Total	EPA 3050	6010	0.500	0.507	101	75-125	
Nickel, Total	EPA 3050	6010	0.500	0.471	94	75-125	
Selenium, Total	EPA 3050	7740	0.0200	0.0192	96	75-125	
Silver, Total	EPA 3050	6010	0.250	0.239	96	75-125	
Thallium, Total	EPA 3050	6010	1.25	1.10	88	75-125	
Vanadium, Total	EPA 3050	6010	0.500	0.482	96	75-125	
Zinc, Total	EPA 3050	6010	0.500	0.498	100	75-125	

Approved By: _____ Date: 6/4/97

LCS/020597p
01474ICP.IZ2 - LCS 6/10/97

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: OHM Remediation Services Corp.
Project: UST-357-D070-Contents/17486
Sample Matrix: Soil

Service Request: L9701474
Date Collected: 4/28/97
Date Received: 4/28/97
Date Digested: 4/30/97
Date Analyzed: 4/30/97

Matrix Spike Summary
Metals

Sample Name: 17486-357-292
Lab Code: L9701474-003MS
Test Notes:

Units: mg/Kg (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	PQL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Lab Qualifier
Antimony, Total	EPA 3050	6010	14	68.5	14	39.0	57	30-120	
Arsenic, Total	EPA 3050	7060	6.8	27.4	6.8	24.8	91	60-130	
Barium, Total	EPA 3050	6010	1.4	171	65	228	95	60-130	
Beryllium, Total	EPA 3050	6010	0.7	13.7	0.7	12.7	93	60-130	
Cadmium, Total	EPA 3050	6010	1.4	13.7	9.0	22.1	96	60-130	
Chromium, Total	EPA 3050	6010	2.8	68.5	215	232	NC	60-130	G
Cobalt, Total	EPA 3050	6010	2.8	68.5	8.4	71.9	93	60-130	
Copper, Total	EPA 3050	6010	2.8	68.5	61.7	128	97	60-130	
Lead, Total	EPA 3050	6010	6.8	68.5	117	202	124	60-130	
Mercury, Total	EPA 7471	7471	0.28	0.342	0.082	0.400	93	60-130	
Molybdenum, Total	EPA 3050	6010	14	68.5	14	79.1	115	60-130	
Nickel, Total	EPA 3050	6010	6.8	68.5	23.7	83.0	87	60-130	
Selenium, Total	EPA 3050	7740	6.8	27.4	6.8	24.2	88	50-130	
Silver, Total	EPA 3050	6010	1.4	34.2	1.4	27.7	81	60-130	
Thallium, Total	EPA 3050	6010	28	171	28	119	70	60-130	
Vanadium, Total	EPA 3050	6010	2.8	68.5	18.4	79.1	89	60-130	
Zinc, Total	EPA 3050	6010	1.4	68.5	557	875	NC	60-130	G

Approved By: _____ Date: 6/11/97

MS/020597p
01474ICP.IZ2 - MS 6/10/97

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QA/QC Report

Client: OHM Remediation Services Corp.
Project: UST-357-D070-Contents/17486
Sample Matrix: Soil

Service Request: L9701474
Date Collected: 4/28/97
Date Received: 4/28/97
Date Digested: 4/30/97
Date Analyzed: 4/30/97

Duplicate Summary
Metals

Sample Name: 17486-357-292
Lab Code: L9701474-003DUP
Test Notes:

Units: mg/Kg (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	PQL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Lab Qualifier
Antimony, Total	EPA 3050	6010	14	14	14	14	0	
Arsenic, Total	EPA 3050	7060	6.8	6.8	6.8	6.8	0	
Barium, Total	EPA 3050	6010	1.4	65	61	63	6	
Beryllium, Total	EPA 3050	6010	0.7	0.7	0.7	0.7	0	
Cadmium, Total	EPA 3050	6010	1.4	9.0	8.9	9.0	1	
Chromium, Total	EPA 3050	6010	2.8	210	290	250	32	
Cobalt, Total	EPA 3050	6010	2.8	8.4	7.4	7.9	13	
Copper, Total	EPA 3050	6010	2.8	62	56	59	10	
Lead, Total	EPA 3050	6010	6.8	120	120	120	0	
Mercury, Total	EPA 7471	7471	0.28	0.28	0.28	0.28	0	
Molybdenum, Total	EPA 3050	6010	14	14	14	14	0	
Nickel, Total	EPA 3050	6010	6.8	24	23	24	4	
Selenium, Total	EPA 3050	7740	6.8	6.8	6.8	6.8	0	
Silver, Total	EPA 3050	6010	1.4	1.4	1.4	1.4	0	
Thallium, Total	EPA 3050	6010	28	28	28	28	0	
Vanadium, Total	EPA 3050	6010	2.8	18	17	18	6	
Zinc, Total	EPA 3050	6010	1.4	560	620	590	10	

Approved By: _____ Date: 6/11/97

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: OHM Remediation Services Corp.
Project: UST-357-D070-Contents/17486
LCS Matrix: Water

Service Request: L9701474
Date Collected: NA
Date Received: NA
Date Digested: 4/30/97
Date Analyzed: 5/2/97

Laboratory Control Sample Summary
Metals

Sample Name: Lab Control Sample
Lab Code: L970430-LCS
Test Notes:

Units: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Lab Qualifier
Antimony, Total	EPA 3010	6010	5.00	4.80	96	80-120	
Arsenic, Total	EPA 3020	7060	0.0400	0.0424	106	80-120	
Barium, Total	EPA 3010	6010	0.500	0.477	95	80-120	
Beryllium, Total	EPA 3010	6010	0.100	0.096	96	80-120	
Cadmium, Total	EPA 3010	6010	0.100	0.092	92	80-120	
Chromium, Total	EPA 3010	6010	0.500	0.475	95	80-120	
Cobalt, Total	EPA 3010	6010	0.500	0.479	96	80-120	
Copper, Total	EPA 3010	6010	0.500	0.485	97	80-120	
Lead, Total	EPA 3010	6010	5.00	4.72	94	80-120	
Mercury, Total	EPA 7470	7470	0.00500	0.00493	99	80-120	
Molybdenum, Total	EPA 3010	6010	0.500	0.486	97	80-120	
Nickel, Total	EPA 3010	6010	0.500	0.467	93	80-120	
Selenium, Total	EPA 3020	7740	0.0400	0.0414	104	80-120	
Silver, Total	EPA 3010	6010	0.100	0.095	95	80-120	
Thallium, Total	EPA 3010	6010	5.00	4.70	94	80-120	
Vanadium, Total	EPA 3010	6010	0.500	0.472	94	80-120	
Zinc, Total	EPA 3010	6010	0.500	0.477	95	80-120	

Approved By: _____ Date: 6/11/97

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01474IC7.IZ1 - LCS 6/10/97

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: OHM Remediation Services Corp.
Project: UST-357-D070-Contents/17486
Sample Matrix: Water

Service Request: L9701474
Date Collected: NA
Date Received: NA
Date Digested: 4/30/97
Date Analyzed: 5/2/97

Matrix Spike Summary
Metals

Sample Name: Batch QC
Lab Code: L9701473-001MS
Test Notes:

Units: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Lab Qualifier
Antimony, Total	EPA 3010	6010	0.05	5.00	0.05	4.38	88	75-125	
Arsenic, Total	EPA 3020	7060	0.005	0.0400	0.005	0.0367	92	75-125	
Barium, Total	EPA 3010	6010	0.02	0.500	0.077	0.519	88	75-125	
Beryllium, Total	EPA 3010	6010	0.005	0.100	0.005	0.089	89	75-125	
Cadmium, Total	EPA 3010	6010	0.005	0.100	0.005	0.086	86	75-125	
Chromium, Total	EPA 3010	6010	0.01	0.500	0.01	0.448	90	75-125	
Cobalt, Total	EPA 3010	6010	0.01	0.500	0.01	0.446	89	75-125	
Copper, Total	EPA 3010	6010	0.01	0.500	0.018	0.465	89	75-125	
Lead, Total	EPA 3010	6010	0.05	5.00	0.05	4.40	88	75-125	
Mercury, Total	EPA 7470	7470	0.001	0.00500	0.001	0.00493	99	75-125	
Molybdenum, Total	EPA 3010	6010	0.02	0.500	0.02	0.447	89	75-125	
Nickel, Total	EPA 3010	6010	0.04	0.500	0.075	0.502	85	75-125	
Selenium, Total	EPA 3020	7740	0.005	0.0400	0.005	0.0362	90	60-125	
Silver, Total	EPA 3010	6010	0.01	0.100	0.01	0.089	89	75-125	
Thallium, Total	EPA 3010	6010	0.1	5.00	0.1	4.36	87	75-125	
Vanadium, Total	EPA 3010	6010	0.01	0.500	0.088	0.530	88	75-125	
Zinc, Total	EPA 3010	6010	0.02	0.500	0.205	0.644	88	75-125	

Approved By: _____ Date: 6/11/97

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: OHM Remediation Services Corp.
Project: UST-357-D070-Contents/17486
Sample Matrix: Water

Service Request: L9701474
Date Collected: 4/28/97
Date Received: 4/28/97
Date Digested: 4/30/97
Date Analyzed: 5/2/97

Duplicate Summary
Metals

Sample Name: 17486-357-291
Lab Code: L9701474-002DUP
Test Notes:

Units: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	PQL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Lab Qualifier
Antimony, Total	EPA 3010	6010	0.05	0.05	0.05	0.05	0	
Arsenic, Total	EPA 3020	7060	0.005	0.005	0.005	0.005	0	
Barium, Total	EPA 3010	6010	0.02	0.02	0.02	0.02	0	
Beryllium, Total	EPA 3010	6010	0.005	0.005	0.005	0.005	0	
Cadmium, Total	EPA 3010	6010	0.005	0.005	0.005	0.005	0	
Chromium, Total	EPA 3010	6010	0.01	0.03	0.03	0.03	0	
Cobalt, Total	EPA 3010	6010	0.01	0.01	0.01	0.01	0	
Copper, Total	EPA 3010	6010	0.01	0.09	0.09	0.09	0	
Lead, Total	EPA 3010	6010	0.05	0.05	0.05	0.05	0	
Mercury, Total	EPA 7470	7470	0.001	0.001	0.001	0.001	0	
Molybdenum, Total	EPA 3010	6010	0.02	0.03	0.03	0.03	0	
Nickel, Total	EPA 3010	6010	0.04	0.07	0.07	0.07	0	
Selenium, Total	EPA 3020	7740	0.005	0.005	0.005	0.005	0	
Silver, Total	EPA 3010	6010	0.01	0.01	0.01	0.01	0	
Thallium, Total	EPA 3010	6010	0.1	0.1	0.1	0.1	0	
Vanadium, Total	EPA 3010	6010	0.01	0.01	0.01	0.01	0	
Zinc, Total	EPA 3010	6010	0.02	0.58	0.59	0.58	2	

Approved By: _____ Date: 6/11/97

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01474ICP.IZ1 - DUP 6/10/97

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	OHM Remediation Services Corp.	**Service Request:**	L9701472
Project:	UST-314-D070-Contents/18609	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

MTBE, BTEX and TPH as Gasoline

Sample Name:	Method Blank	Units:	ug/L (ppb)
Lab Code:	L970505-MB	Basis:	NA
Test Notes:			

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Lab Qualifier
Methyl *tert*-Butyl Ether	EPA 5030	8020	0.5	1	5/5/97	5/5/97	0.5	U
Benzene	EPA 5030	8020	0.5	1	5/5/97	5/5/97	0.5	U
Toluene	EPA 5030	8020	0.5	1	5/5/97	5/5/97	0.5	U
Ethylbenzene	EPA 5030	8020	0.5	1	5/5/97	5/5/97	0.5	U
Xylenes, Total	EPA 5030	8020	1.0	1	5/5/97	5/5/97	1.0	U
TPH as Gasoline	EPA 5030	8015M	50	1	5/5/97	5/5/97	50	U

Approved By: _____ Date: 6/11/97

1S22/020597p

01472VOA.JC1 - MBlank 6/10/97

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	OHM Remediation Services Corp.	**Service Request:**	L9701472
Project:	UST-314-D070-Contents/18609	**Date Collected:**	4/28/97
Sample Matrix:	Water	**Date Received:**	4/28/97

MTBE, BTEX and TPH as Gasoline

Sample Name:	18609-314-290 UST 314 Contents 314E-1	Units:	ug/L (ppb)
Lab Code:	L9701472-001	Basis:	NA
Test Notes:			

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Lab Qualifier
Methyl *tert*-Butyl Ether	EPA 5030	8020	10	10	5/5/97	5/5/97	100	U
Benzene	EPA 5030	8020	0.5	10	5/5/97	5/5/97	9.0	
Toluene	EPA 5030	8020	0.5	10	5/5/97	5/5/97	110	
Ethylbenzene	EPA 5030	8020	0.5	10	5/5/97	5/5/97	42	
Xylenes, Total	EPA 5030	8020	0.5	10	5/5/97	5/5/97	300	
TPH as Gasoline	EPA 5030	8015M	50	10	5/5/97	5/5/97	21000	

Approved By: _____ Date: 6/11/97

1S22/020597p

01472VOA.JC1 - Sample 6/10/97

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

nt:	OHM Remediation Services Corp.	**Service Request:**	L9701473
Project:	UST-314-D070-Contents/18609	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

MTBE, BTEX and TPH as Gasoline

Sample Name:	Method Blank	Units:	ug/L (ppb)
Lab Code:	L970505-MB	Basis:	NA
Test Notes:			

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Lab Qualifier
Methyl *tert*-Butyl Ether	EPA 5030	8020	10	1	5/5/97	5/5/97	10	U
Benzene	EPA 5030	8020	0.5	1	5/5/97	5/5/97	0.5	U
Toluene	EPA 5030	8020	0.5	1	5/5/97	5/5/97	0.5	U
Ethylbenzene	EPA 5030	8020	0.5	1	5/5/97	5/5/97	0.5	U
Xylenes, Total	EPA 5030	8020	1.0	1	5/5/97	5/5/97	1.0	U
TPH as Gasoline	EPA 5030	8015M	50	1	5/5/97	5/5/97	50	U

Approved By: _____ Date: 6/11/97

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: OHM Remediation Services Corp.
Project: UST-314-D070-Contents/18609
Sample Matrix: Water

Service Request: L9701473
Date Collected: 4/28/97
Date Received: 4/28/97

MTBE, BTEX and TPH as Gasoline

Sample Name: 18609-314-287
Lab Code: L9701473-001
Test Notes:

Units: ug/L (ppb)
Basis: NA

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Lab Qualifier
Methyl *tert*-Butyl Ether	EPA 5030	8020	10	1	5/5/97	5/5/97	10	U
Benzene	EPA 5030	8020	0.5	1	5/5/97	5/5/97	0.5	U
Toluene	EPA 5030	8020	0.5	1	5/5/97	5/5/97	0.5	U
Ethylbenzene	EPA 5030	8020	0.5	1	5/5/97	5/5/97	0.5	U
Xylenes, Total	EPA 5030	8020	1.0	1	5/5/97	5/5/97	1.0	U
TPH as Gasoline	EPA 5030	8015M	50	1	5/5/97	5/5/97	50	U

Approved By: E. Wil Date: 6/4/97

1S22/020597p

01473VOA.JC1 - Sample 6/10/97

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Analytical Report

ent:	OHM	**Service Request:**	L9701474
Project:	UST-357-D070-Contents	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA

MTBE, BTEX and TPH as Gasoline

Sample Name:	Method Blank	Units:	mg/Kg (ppm)
Lab Code:	L970501-MB	Basis:	Dry
Test Notes:			

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Lab Qualifier
Methyl *tert*-Butyl Ether	EPA 5030	8020	0.010	1	5/1/97	5/1/97	0.010	U
Benzene	EPA 5030	8020	0.005	1	5/1/97	5/1/97	0.005	U
Toluene	EPA 5030	8020	0.005	1	5/1/97	5/1/97	0.005	U
Ethylbenzene	EPA 5030	8020	0.005	1	5/1/97	5/1/97	0.005	U
Xylenes, Total	EPA 5030	8020	0.005	1	5/1/97	5/1/97	0.005	U
TPH as Gasoline	EPA 5030	8015M	0.1	1	5/1/97	5/1/97	0.1	U

Approved By: _____ Date: 6/11/97

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	OHM	**Service Request:**	L9701474
Project:	UST-357-D070-Contents	**Date Collected:**	4/28/97
Sample Matrix:	Soil	**Date Received:**	4/28/97

MTBE, BTEX and TPH as Gasoline

Sample Name:	18609-357-~~286~~ -292	Units:	mg/Kg (ppm)
Lab Code:	L9701474-003 8/29/97	Basis:	Dry
Test Notes:			

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Lab Qualifier
Methyl *tert*-Butyl Ether	EPA 5030	8020	0.010	1	5/1/97	5/1/97	0.010	U
Benzene	EPA 5030	8020	0.005	1	5/1/97	5/1/97	0.005	U
Toluene	EPA 5030	8020	0.005	1	5/1/97	5/1/97	0.005	U
Ethylbenzene	EPA 5030	8020	0.005	1	5/1/97	5/1/97	0.005	U
Xylenes, Total	EPA 5030	8020	0.005	1	5/1/97	5/1/97	0.005	U
TPH as Gasoline	EPA 5030	8015M	0.1	1	5/1/97	5/1/97	0.1	U

Approved By: _____ Date: 6/4/97

1S22/020597p

01474VOA.IZ2 - Sample 6/10/97

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	OHM	**Service Request:**	L9701474
Project:	UST-357-D070-Contents	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

MTBE, BTEX and TPH as Gasoline

Sample Name:	Method Blank	Units:	ug/L (ppb)
Lab Code:	L970501-MB	Basis:	NA
Test Notes:			

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Lab Qualifier
Methyl *tert*-Butyl Ether	EPA 5030	8020	10	1	5/1/97	5/1/97	10	U
Benzene	EPA 5030	8020	0.5	1	5/1/97	5/1/97	0.5	U
Toluene	EPA 5030	8020	0.5	1	5/1/97	5/1/97	0.5	U
Ethylbenzene	EPA 5030	8020	0.5	1	5/1/97	5/1/97	0.5	U
Xylenes, Total	EPA 5030	8020	1.0	1	5/1/97	5/1/97	1.0	U
TPH as Gasoline	EPA 5030	8015M	50	1	5/1/97	5/1/97	50	U

Approved By: _____ Date: 6/11/97

1S22/020597p

01474VOA.IZ1 - MBlank 6/10/97

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	OHM	**Service Request:**	L9701474
Project:	UST-357-D070-Contents	**Date Collected:**	4/28/97
Sample Matrix:	Water	**Date Received:**	4/28/97

MTBE, BTEX and TPH as Gasoline

Sample Name:	17486-293	Units:	ug/L (ppb)
Lab Code:	L9701474-001	Basis:	NA
Test Notes:			

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Lab Qualifier
Methyl *tert*-Butyl Ether	EPA 5030	8020	10	1	5/1/97	5/1/97	10	U
Benzene	EPA 5030	8020	0.5	1	5/1/97	5/1/97	0.5	U
Toluene	EPA 5030	8020	0.5	1	5/1/97	5/1/97	0.5	U
Ethylbenzene	EPA 5030	8020	0.5	1	5/1/97	5/1/97	0.5	U
Xylenes, Total	EPA 5030	8020	1.0	1	5/1/97	5/1/97	1.0	U
TPH as Gasoline	EPA 5030	8015M	50	1	5/1/97	5/1/97	50	U

Approved By: _____ Date: 8/27/97

Amended

1S22/020597p

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01474VOA.IZ1 - Sample 8/27/97

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	OHM	**Service Request:**	L9701474
Project:	UST-357-D070-Contents	**Date Collected:**	4/28/97
Sample Matrix:	Water	**Date Received:**	4/28/97

MTBE, BTEX and TPH as Gasoline

Sample Name:	18609-288	Units:	ug/L (ppb)
Lab Code:	L9701474-001	Basis:	NA
Test Notes:			

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Lab Qualifier
Methyl *tert*-Butyl Ether	EPA 5030	8020	10	1	5/1/97	5/1/97	10	U
Benzene	EPA 5030	8020	0.5	1	5/1/97	5/1/97	0.5	U
Toluene	EPA 5030	8020	0.5	1	5/1/97	5/1/97	0.5	U
Ethylbenzene	EPA 5030	8020	0.5	1	5/1/97	5/1/97	0.5	U
Xylenes, Total	EPA 5030	8020	1.0	1	5/1/97	5/1/97	1.0	U
TPH as Gasoline	EPA 5030	8015M	50	1	5/1/97	5/1/97	50	U

Approved By: _____ Date: 6/4/97

1S22/020597p

01474VOA.IZ1 - Sample 6/10/97

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: OHM
Project: UST-357-D070-Contents
Sample Matrix: Water

Service Request: L9701474
Date Collected: 4/28/97
Date Received: 4/28/97

MTBE, BTEX and TPH as Gasoline

Sample Name: 17486-357-291
Lab Code: L9701474-002
Test Notes:

Units: ug/L (ppb)
Basis: NA

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Lab Qualifier
Methyl *tert*-Butyl Ether	EPA 5030	8020	10	1	5/1/97	5/1/97	10	U
Benzene	EPA 5030	8020	0.5	1	5/1/97	5/1/97	0.5	U
Toluene	EPA 5030	8020	0.5	1	5/1/97	5/1/97	0.5	U
Ethylbenzene	EPA 5030	8020	0.5	1	5/1/97	5/1/97	0.5	U
Xylenes, Total	EPA 5030	8020	1.0	1	5/1/97	5/1/97	1.0	U
TPH as Gasoline	EPA 5030	8015M	50	1	5/1/97	5/1/97	50	U

Approved By: _____ Date: 8/27/97

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Page No.:

01474VOA.IZ1 - Sample (2) 8/27/97

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	OHM	**Service Request:**	L9701474
Project:	UST-357-D070-Contents	**Date Collected:**	4/28/97
Sample Matrix:	Water	**Date Received:**	4/28/97

MTBE, BTEX and TPH as Gasoline

Sample Name:	18609-357-285	Units:	ug/L (ppb)
Lab Code:	L9701474-002	Basis:	NA
Test Notes:			

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Lab Qualifier
Methyl *tert*-Butyl Ether	EPA 5030	8020	10	1	5/1/97	5/1/97	10	U
Benzene	EPA 5030	8020	0.5	1	5/1/97	5/1/97	0.5	U
Toluene	EPA 5030	8020	0.5	1	5/1/97	5/1/97	0.5	U
Ethylbenzene	EPA 5030	8020	0.5	1	5/1/97	5/1/97	0.5	U
Xylenes, Total	EPA 5030	8020	1.0	1	5/1/97	5/1/97	1.0	U
TPH as Gasoline	EPA 5030	8015M	50	1	5/1/97	5/1/97	50	U

Approved By: _____ Date: 6/11/97

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01474VOA.IZ1 - Sample (2) 6/10/97

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: OHM Remediation Services Corp.
Project: UST-314-D070-Contents/18609
Sample Matrix: Water

Service Request: L9701472
Date Collected: 4/28/97
Date Received: 4/28/97
Date Extracted: 5/5/97
Date Analyzed: 5/5/97

Surrogate Recovery Summary
MTBE, BTEX and TPH as Gasoline

Prep Method: EPA 5030
Analysis Method: 8020/8015M

Units: PERCENT
Basis: NA

Sample Name	Lab Code	Test Notes	Percent Recovery 4-Bromofluorobenzene	Percent Recovery 4-Bromofluorobenzene
18609-314-290 UST 314 Conte	L9701472-001		102	103
Method Blank	L970505-MB		96	106
Lab Control Sample	L970505-LCS		94	102
Batch QC	L9701499-001 MS		91	98
Batch QC	L9701499-001 DMS		86	93

CAS Acceptance Limits: 60-130 60-140

Approved By: _____ Date: 6/4/97

SUR2/020397p
01472VOA.JC1 - SUR 6/10/97

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: OHM Remediation Services Corp.
Project: UST-314-D070-Contents/18609
LCS Matrix: Water

Service Request: L9701472
Date Collected: NA
Date Received: NA
Date Extracted: 5/5/97
Date Analyzed: 5/5/97

Laboratory Control Sample Summary
MTBE, BTEX and TPH as Gasoline

Sample Name: Lab Control Sample
Lab Code: L970505-LCS
Test Notes:

Units: ug/L (ppb)
Basis: NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Lab Qualifier
Benzene	EPA 5030	8020	40.0	35.2	88	39-150	
Toluene	EPA 5030	8020	40.0	33.6	84	46-148	
Ethylbenzene	EPA 5030	8020	40.0	33.6	84	32-160	
TPH as Gasoline	EPA 5030	8015M	1000	811	81	70-140	

Approved By: _____ Date: 6/11/97

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	OHM Remediation Services Corp.	**Service Request:**	L9701472
Project:	UST-314-D070-Contents/18609	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Extracted:	5/6/97
		Date Analyzed:	5/6/97

Matrix Spike/Duplicate Matrix Spike Summary
MTBE, BTEX and TPH as Gasoline

Sample Name:	Batch QC	Units:	ug/L (ppb)
Lab Code:	L9701499-001MS, L9701499-001DMS	Basis:	NA
Test Notes:			

Analyte	Prep Method	Analysis Method	MRL	Spike Level MS	Spike Level DMS	Sample Result	Spike Result MS	Spike Result DMS	Percent Recovery MS	Percent Recovery DMS	CAS Acceptance Limits	Relative Percent Difference	Lab Qualifier
Benzene	EPA 5030	8020	0.5	40.0	40.0	4.28	41.2	41.7	92	94	39-150	1	
Toluene	EPA 5030	8020	0.5	40.0	40.0	41.3	72.1	71.9	77	76	46-148	0	
Ethylbenzene	EPA 5030	8020	0.5	40.0	40.0	4.72	38.7	37.7	85	82	32-160	3	
TPH as Gasoline	EPA 5030	8015M	50	50	50	1120	1470	1630			70-140	10	

* Matrix spike outside acceptance criteria. Laboratory control sample was acceptable, therefore data was approved.

Approved By: _____ Date: 6/11/97

01472VOA.JC1 - DMS 6/10/97

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: OHM Remediation Services Corp.
Project: UST-314-D070-Contents/18609
Sample Matrix: Water

Service Request: L9701473
Date Collected: 4/28/97
Date Received: 4/28/97
Date Extracted: 5/5/97
Date Analyzed: 5/5/97

Surrogate Recovery Summary
MTBE, BTEX and TPH as Gasoline

Prep Method: EPA 5030
Analysis Method: 8020/8015M

Units: PERCENT
Basis: NA

Sample Name	Lab Code	Test Notes	Percent Recovery 4-Bromofluorobenzene	Percent Recovery 4-Bromofluorobenzene
18609-314-287	L9701473-001		85	95
Method Blank	L970505-MB		96	106
Lab Control Sample	L970505-LCS		94	102
Batch QC	L9701499-001MS		91	98
Batch QC	L9701499-001DMS		86	93

CAS Acceptance Limits: 60-130 60-140

Approved By: _____ Date: 6/11/97

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: OHM Remediation Services Corp.
Project: UST-314-D070-Contents/18609
LCS Matrix: Water

Service Request: L9701473
Date Collected: NA
Date Received: NA
Date Extracted: 5/5/97
Date Analyzed: 5/5/97

Laboratory Control Sample Summary
MTBE, BTEX and TPH as Gasoline

Sample Name: Lab Control Sample
Lab Code: L970505-LCS
Test Notes:

Units: ug/L (ppb)
Basis: NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Lab Qualifier
Benzene	EPA 5030	8020	40.0	35.2	88	39-150	
Toluene	EPA 5030	8020	40.0	33.6	84	46-148	
Ethylbenzene	EPA 5030	8020	40.0	33.6	84	32-160	
TPH as Gasoline	EPA 5030	8015M	1000	811	81	70-140	

Approved By: _____ Date: 6/11/97

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

	OHM Remediation Services Corp.	**Service Request:**	L9701473
Project:	UST-314-D070-Contents/18609	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Extracted:	5/6/97
		Date Analyzed:	5/6/97

Matrix Spike/Duplicate Matrix Spike Summary
MTBE, BTEX and TPH as Gasoline

Sample Name:	Batch QC	Units:	ug/L (ppb)
Lab Code:	L9701499-001 MS, L9701499-001 DMS	Basis:	NA
Test Notes:			

Analyte	Prep Method	Analysis Method	MRL	Spike Level MS	Spike Level DMS	Sample Result	Spike Result MS	Spike Result DMS	Percent Recovery MS	Percent Recovery DMS	CAS Acceptance Limits	Relative Percent Difference	Lab Qualifier
Benzene	EPA 5030	8020	0.5	40.0	40.0	4.28	41.2	41.7	92	94	39-150	1	
Toluene	EPA 5030	8020	0.5	40.0	40.0	41.3	72.1	71.9	77	76	46-148	0	
Ethylbenzene	EPA 5030	8020	0.5	40.0	40.0	4.72	38.7	37.7	85	82	32-160	3	
TPH as Gasoline	EPA 5030	8015M	50	1000	1000	1120	1480	1630			70-140	10	*

* Matrix spike outside acceptance criteria. Laboratory control sample was acceptable, therefore data was approved.

Approved By: _____ Date: 6/11/97

01473VOA.JC1 - DMS 6/10/97

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: OHM
Project: UST-357-D070-Contents
Sample Matrix: Soil

Service Request: L9701474
Date Collected: 4/28/97
Date Received: 4/28/97
Date Extracted: 5/1/97
Date Analyzed: 5/1/97

Surrogate Recovery Summary
MTBE, BTEX and TPH as Gasoline

Prep Method: EPA 5030
Analysis Method: 8020/8015M

Units: PERCENT
Basis: NA

Sample Name	Lab Code	Test Notes	Percent Recovery a,a,a-Trifluorotoluene	Percent Recovery a,a,a-Trifluorotoluene
18609-357-286	L9701474-003		67	75
Method Blank	L970501-MB		94	103
Lab Control Sample	L970502-LCS		100	106
Batch QC	L9701497-001 MS		84	91
Batch QC	L9701497-001 DMS		86	91

CAS Acceptance Limits: 60-130 60-140

Approved By: _____ Date: 6/4/97

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: OHM
Project: UST-357-D070-Contents
LCS Matrix: Soil

Service Request: L9701474
Date Collected: NA
Date Received: NA
Date Extracted: 5/2/97
Date Analyzed: 5/2/97

Laboratory Control Sample Summary
MTBE, BTEX and TPH as Gasoline

Sample Name: Lab Control Sample
Lab Code: L970502-LCS
Test Notes:

Units: mg/Kg (ppm)
Basis: Dry

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Lab Qualifier
Benzene	EPA 5030	8020	0.0200	0.0145	72	39-150	
Toluene	EPA 5030	8020	0.0200	0.0144	72	46-148	
Ethylbenzene	EPA 5030	8020	0.0200	0.0141	71	32-160	
TPH as Gasoline	EPA 5030	8015M	1.00	0.75	75	70-140	

Approved By: _____ Date: 6/11/97

LCS/020597p
01474VOA.IZ2 - LCS 6/10/97

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: OHM
Project: UST-357-D070-Contents
Sample Matrix: Soil

Service Request: L9701474
Date Collected: 4/28/97
Date Received: 4/28/97
Date Extracted: 5/1/97
Date Analyzed: 5/1/97

Matrix Spike/Duplicate Matrix Spike Summary
MTBE, BTEX and TPH as Gasoline

Sample Name: Batch QC
Lab Code: L9701497-001 MS, L9701497-001 DMS
Test Notes: *

Units: mg/Kg (ppm)
Basis: Dry

Analyte	Prep Method	Analysis Method	MRL	Spike Level MS	Spike Level DMS	Sample Result	Spike Result MS	Spike Result DMS	Percent Recovery MS	Percent Recovery DMS	CAS Acceptance Limits	Relative Percent Difference	Lab Qualifier
Benzene	EPA 5030	8020	0.005	.040	0.0400	0.005	0.0244	0.0290	61	72	39-150	19	
Toluene	EPA 5030	8020	0.005	.040	0.0400	0.005	0.0240	0.0279	60	70	46-148	15	
Ethylbenzene	EPA 5030	8020	0.005	.040	0.0400	0.005	0.0229	0.0267	57	67	32-160	16	
TPH as Gasoline	EPA 5030	8015M	0.1	1.00	1.00	0.1	0.50	0.52			70-140	4	

* Matrix spike outside acceptance criteria. Laboratory control sample was acceptable, therefore data was approved.

Approved By: _____ Date: 6/11/97
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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: OHM
Project: UST-357-D070-Contents
Sample Matrix: Water

Service Request: L9701474
Date Collected: 4/28/97
Date Received: 4/28/97
Date Extracted: 5/1/97
Date Analyzed: 5/1/97

Surrogate Recovery Summary
MTBE, BTEX and TPH as Gasoline

Prep Method: EPA 5030
Analysis Method: 8020/8015M

Units: PERCENT
Basis: NA

Sample Name	Lab Code	Test Notes	Percent Recovery 4-Bromofluorobenzene	Percent Recovery 4-Bromofluorobenzene
17486-293	L9701474-001		87	102
17486-357-291	L9701474-002		67	89
Method Blank	L970501-MB		85	105
Lab Control Sample	L970501-LCS		96	108
17486-293	L9701474-001MS		83	94
17486-293	L9701474-001DMS		90	102

CAS Acceptance Limits: 60-130 60-140

Approved By: _____ Date: 8/27/97

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: OHM
Project: UST-357-D070-Contents
Sample Matrix: Water

Service Request: L9701474
Date Collected: 4/28/97
Date Received: 4/28/97
Date Extracted: 5/1/97
Date Analyzed: 5/1/97

Surrogate Recovery Summary
MTBE, BTEX and TPH as Gasoline

Prep Method: EPA 5030
Analysis Method: 8020/8015M

Units: PERCENT
Basis: NA

Sample Name	Lab Code	Test Notes	Percent Recovery 4-Bromofluorobenzene	Percent Recovery 4-Bromofluorobenzene
18609-288	L9701474-001		87	102
18609-357-285	L9701474-002		67	89
Method Blank	L970501-MB		85	105
Lab Control Sample	L970501-LCS		96	108
18609-288	L9701474-001MS		83	94
18609-288	L9701474-001DMS		90	102

CAS Acceptance Limits: 60-130 60-140

Approved By: Ed Wil Date: 6/11/97

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: OHM
Project: UST-357-D070-Contents
LCS Matrix: Water

Service Request: L9701474
Date Collected: NA
Date Received: NA
Date Extracted: 5/1/97
Date Analyzed: 5/1/97

Laboratory Control Sample Summary
MTBE, BTEX and TPH as Gasoline

Sample Name: Lab Control Sample
Lab Code: L970501-LCS
Test Notes:

Units: ug/L (ppb)
Basis: NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Lab Qualifier
Benzene	EPA 5030	8020	40.0	38.8	97	39-150	
Toluene	EPA 5030	8020	40.0	36.7	92	46-148	
Ethylbenzene	EPA 5030	8020	40.0	36.2	91	32-160	
TPH as Gasoline	EPA 5030	8015M	1000	899	90	70-140	

Approved By: _____ Date: 6/11/97

LCS/020597p
01474VOA.IZ1 - LCS 6/10/97

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	OHM	**Service Request:**	L9701474
Project:	UST-357-D070-Contents	**Date Collected:**	4/28/97
Sample Matrix:	Water	**Date Received:**	4/28/97
		Date Extracted:	5/1/97
		Date Analyzed:	5/1/97

Matrix Spike/Duplicate Matrix Spike Summary
MTBE, BTEX and TPH as Gasoline

Sample Name: 17486-293
Lab Code: L9701474-001MS, L9701474-001DMS
Test Notes:

Units: ug/L (ppb)
Basis: NA

Analyte	Prep Method	Analysis Method	MRL	Spike Level MS	Spike Level DMS	Sample Result	Spike Result MS	Spike Result DMS	Percent Recovery MS	Percent Recovery DMS	CAS Acceptance Limits	Relative Percent Difference	Lab Qualifier
Benzene	EPA 5030	8020	0.5	5.00	5.00	0.5	4.54	4.79	91	96	39-150	5	
Toluene	EPA 5030	8020	0.5	5.00	5.00	0.5	4.45	4.70	89	94	46-148	5	
Ethylbenzene	EPA 5030	8020	0.5	5.00	5.00	0.5	4.30	4.51	86	90	32-160	5	
TPH as Gasoline	EPA 5030	8015M	50	1000	1000	50	1050	970	105	97	70-140	8	

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Approved By: _____ Date: 8/27/97
01474VOA.IZ1 - DMS 8/27/97

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Cl	OHM	**Service Request:**	L9701474
Project:	UST-357-D070-Contents	**Date Collected:**	4/28/97
Sample Matrix:	Water	**Date Received:**	4/28/97
		Date Extracted:	5/1/97
		Date Analyzed:	5/1/97

Matrix Spike/Duplicate Matrix Spike Summary
MTBE, BTEX and TPH as Gasoline

Sample Name:	18609-288	Units:	ug/L (ppb)
Lab Code:	L9701474-001MS, L9701474-001DMS	Basis:	NA
Test Notes:			

Analyte	Prep Method	Analysis Method	MRL	Spike Level MS	Spike Level DMS	Sample Result	Spike Result MS	Spike Result DMS	Percent Recovery MS	Percent Recovery DMS	CAS Acceptance Limits	Relative Percent Difference	Lab Qualifier
Benzene	EPA 5030	8020	0.5	5.00	5.00	0.5	4.54	4.79	91	96	39-150	5	
Toluene	EPA 5030	8020	0.5	5.00	5.00	0.5	4.45	4.70	89	94	46-148	5	
Ethylbenzene	EPA 5030	8020	0.5	5.00	5.00	0.5	4.30	4.51	86	90	32-160	5	
TPH as Gasoline	EPA 5030	8015M	50	1000	1000	50	1050	970	105	97	70-140	8	

Approved By: _____ Date: 6/11/97

01474VOA.IZ1 - DMS 6/10/97

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: OHM Remediation Services Corp.
Project: UST-314-D070-Contents/18609
Sample Matrix: Water

Service Request: L9701472
Date Collected: NA
Date Received: NA

Hydrocarbon Scan / Fuel Characterization

Sample Name: Method Blank
Lab Code: L970429-MB
Test Notes: *

Units: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	PQL	Dilution Factor	Date Extracted	Date Analyzed	Result	LAB Qualifier
C4-C12 - GRO	EPA 3510M	8015M	0.5	1	4/29/97	4/29/97	0.5	U
C13-C22 - DRO	EPA 3510M	8015M	0.5	1	4/29/97	4/29/97	0.5	U
C23->C23 - HRO	EPA 3510M	8015M	0.5	1	4/29/97	4/29/97	0.5	U
TPH-EXTRACTABLE	EPA 3510M	8015M	0.5	1	4/29/97	4/29/97	0.5	U
Fuel Characterization	EPA 3510M	8015M		1	4/29/97	4/29/97	NA	

*	Quantified with diesel fuel
GRO	Gasoline Range Organics
DRO	Diesel Range Organics
HRO	Heavy Oil Range Organics

Approved By: _____ Date: 6/11/97

1S22/052595

01472SOH.MG1 - MBlank 6/10/97

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	OHM Remediation Services Corp.	**Service Request:**	L9701472
Project:	UST-314-D070-Contents/18609	**Date Collected:**	4/28/97
Sample Matrix:	Water	**Date Received:**	4/28/97

Hydrocarbon Scan / Fuel Characterization

Sample Name:	18609-314-290	Units:	mg/L (ppm)
Lab Code:	L9701472-001	Basis:	NA
Test Notes:	* / D		

Analyte	Prep Method	Analysis Method	PQL	Dilution Factor	Date Extracted	Date Analyzed	Result	LAB Qualifier
C4-C12 - GRO	EPA 3510M	8015M	5.0	10	4/29/97	4/30/97	50	U
C13-C22 - DRO	EPA 3510M	8015M	5.0	10	4/29/97	4/30/97	2100	
C23->C23 - HRO	EPA 3510M	8015M	5.0	10	4/29/97	4/30/97	350	
TPH-EXTRACTABLE	EPA 3510M	8015M	5.0	10	4/29/97	4/30/97	2400	
Fuel Characterization	EPA 3510M	8015M		10	4/29/97	4/30/97	diesel/oil	

*	Quantified with diesel fuel and motor oil
GRO	Gasoline Range Organics
DRO	Diesel Range Organics
HRO	Heavy Oil Range Organics
D	The MRL is elevated because of matrix interferences and because the sample required diluting.

Approved By: _____ Date: 6/12/97

1S22/052595

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	OHM Remediation Services Corp.	**Service Request:**	L9701473
Project:	UST-314-D070-Contents/18609	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Hydrocarbon Scan / Fuel Characterization

Sample Name:	Method Blank	Units:	mg/L (ppm)
Lab Code:	L970429-MB	Basis:	NA
Test Notes:	*		

Analyte	Prep Method	Analysis Method	PQL	Dilution Factor	Date Extracted	Date Analyzed	Result	LAB Qualifier
C4-C12 - GRO	3510M	8015M	0.5	1	4/29/97	4/29/97	0.5	U
C13-C22 - DRO	3510M	8015M	0.5	1	4/29/97	4/29/97	0.5	U
C23->C23 - HRO	3510M	8015M	0.5	1	4/29/97	4/29/97	0.5	U
TPH-EXTRACTABLE	3510M	8015M	0.5	1	4/29/97	4/29/97	0.5	U
Fuel Characterization	3510M	8015M		1	4/29/97	4/29/97	NA	

*	Quantified with diesel fuel
GRO	Gasoline Range Organics
DRO	Diesel Range Organics
HRO	Heavy Oil Range Organics

Approved By: _____ Date: 6/11/97

1S22/052595

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	OHM Remediation Services Corp.	**Service Request:**	L9701473
Project:	UST-314-D070-Contents/18609	**Date Collected:**	4/28/97
Sample Matrix:	Water	**Date Received:**	4/28/97

Hydrocarbon Scan / Fuel Characterization

Sample Name:	18609-314-287 UST 314 Contents, Water	Units:	mg/L (ppm)
Lab Code:	L9701473-001	Basis:	NA
Test Notes:	*		

Analyte	Prep Method	Analysis Method	PQL	Dilution Factor	Date Extracted	Date Analyzed	Result	LAB Qualifier
C4-C12 - GRO	3510M	8015M	0.5	1	4/29/97	4/29/97	0.5	U
C13-C22 - DRO	3510M	8015M	0.5	1	4/29/97	4/29/97	0.5	U
C23->C23 - HRO	3510M	8015M	0.5	1	4/29/97	4/29/97	0.5	U
TPH-EXTRACTABLE	3510M	8015M	0.5	1	4/29/97	4/29/97	0.5	U
Fuel Characterization	3510M	8015M		1	4/29/97	4/29/97	NA	

*	Quantified with diesel fuel
GRO	Gasoline Range Organics
DRO	Diesel Range Organics
HRO	Heavy Oil Range Organics

Approved By: _____ Date: 6/11/97

1S22/052595

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	OHM Remediation Services Corp.	**Service Request:**	L9701474
Project:	UST-357-D070-Contents/17486	**Date Collected:**	NA
Sample Matrix:	Liquid	**Date Received:**	NA

Hydrocarbon Scan / Fuel Characterization

Sample Name:	Method Blank	Units:	mg/kg (ppm)
Lab Code:	L970429-MB	Basis:	NA
Test Notes:	*		

Analyte	Prep Method	Analysis Method	PQL	Dilution Factor	Date Extracted	Date Analyzed	Result	LAB Qualifier
C4-C12 - GRO	8015M	8015M	10	1	4/29/97	4/29/97	10	U
C13-C22 - DRO	8015M	8015M	10	1	4/29/97	4/29/97	10	U
C23->C23 - HRO	8015M	8015M	10	1	4/29/97	4/29/97	10	U
TPH-EXTRACTABLE	8015M	8015M	10	1	4/29/97	4/29/97	10	U
Fuel Characterization	8015M	8015M		1	4/29/97	4/29/97	NA	

*	Quantified with diesel fuel
GRO	Gasoline Range Organics
DRO	Diesel Range Organics
HRO	Heavy Oil Range Organics

Approved By: _____ Date: 6/11/97

1S22/052595

01474SOH.AA2 - MBlank 6/10/97

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	OHM Remediation Services Corp.	**Service Request:**	L9701474
Project:	UST-357-D070-Contents/17486	**Date Collected:**	4/28/97
Sample Matrix:	Soil	**Date Received:**	4/28/97

Hydrocarbon Scan / Fuel Characterization

Sample Name:	17486-357-292	Units:	mg/kg (ppm)
Lab Code:	L9701474-003	Basis:	Dry
Test Notes:	*		

Analyte	Prep Method	Analysis Method	PQL	Dilution Factor	Date Extracted	Date Analyzed	Result	LAB Qualifier
C4-C12 - GRO	8015M	8015M	14	1	4/29/97	4/30/97	14	U
C13-C22 - DRO	8015M	8015M	14	1	4/29/97	4/30/97	14	U
C23->C23 - HRO	8015M	8015M	14	1	4/29/97	4/30/97	1100	
TPH-EXTRACTABLE	8015M	8015M	14	1	4/29/97	4/30/97	1100	
Fuel Characterization	8015M	8015M		1	4/29/97	4/30/97	motor oil	

*	Quantified with motor oil
GRO	Gasoline Range Organics
DRO	Diesel Range Organics
HRO	Heavy Oil Range Organics

Approved By: _____ Date: 6/11/97

1S22/052595

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	OHM Remediation Services Corp.	**Service Request:**	L9701474
Project:	UST-357-D070-Contents/17486	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Hydrocarbon Scan / Fuel Characterization

Sample Name:	Method Blank	Units:	mg/L (ppm)
Lab Code:	L970429-MB	Basis:	NA
Test Notes:	*		

Analyte	Prep Method	Analysis Method	PQL	Dilution Factor	Date Extracted	Date Analyzed	Result	LAB Qualifier
C4-C12 - GRO	8015M	8015M	0.5	1	4/29/97	4/29/97	0.5	U
C13-C22 - DRO	8015M	8015M	0.5	1	4/29/97	4/29/97	0.5	U
C23->C23 - HRO	8015M	8015M	0.5	1	4/29/97	4/29/97	0.5	U
TPH-EXTRACTABLE	8015M	8015M	0.5	1	4/29/97	4/29/97	0.5	U
Fuel Characterization	8015M	8015M		1	4/29/97	4/29/97	NA	

*	Quantified with diesel fuel
GRO	Gasoline Range Organics
DRO	Diesel Range Organics
HRO	Heavy Oil Range Organics

Approved By: _____ Date: 6/11/97

1S22/052595

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	OHM Remediation Services Corp.	**Service Request:**	L9701474
Project:	UST-357-D070-Contents/17486	**Date Collected:**	4/28/97
Sample Matrix:	Water	**Date Received:**	4/28/97

Hydrocarbon Scan / Fuel Characterization

Sample Name:	17486-357-291	Units:	mg/L (ppm)
Lab Code:	L9701474-002	Basis:	NA
Test Notes:	*		

Analyte	Prep Method	Analysis Method	PQL	Dilution Factor	Date Extracted	Date Analyzed	Result	LAB Qualifier
C4-C12 - GRO	8015M	8015M	0.5	1	4/29/97	4/29/97	0.5	U
C13-C22 - DRO	8015M	8015M	0.5	1	4/29/97	4/29/97	0.6	
C23->C23 - HRO	8015M	8015M	0.5	1	4/29/97	4/29/97	0.5	U
TPH-EXTRACTABLE	8015M	8015M	0.5	1	4/29/97	4/29/97	0.6	
Fuel Characterization	8015M	8015M		1	4/29/97	4/29/97	Diesel	

*	Quantified with diesel fuel
GRO	Gasoline Range Organics
DRO	Diesel Range Organics
HRO	Heavy Oil Range Organics

Approved By: _____ Date: 6/11/97

1S22/052595

01474SOH.AA1 - Sample 6/10/97

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	OHM Remediation Services Corp.	**Service Request:**	L9701472
Project:	UST-314-D070-Contents/18609	**Date Collected:**	4/28/97
Sample Matrix:	Water	**Date Received:**	4/28/97
		Date Extracted:	4/29/97
		Date Analyzed:	4/30/97

Surrogate Recovery Summary
Hydrocarbon Scan / Fuel Characterization

Prep Method:	EPA 3510M	Units:	PERCENT
Analysis Method:	8015M	Basis:	NA

Sample Name	Lab Code	Test Notes	Percent Recovery *p*-Terphenyl
18609-314-290	L9701472-001		70
Method Blank	L970429-MB		99
Lab Control Sample	L970429-LCS		108
17486-357-291	L9701474-002MS		86
17486-357-291	L9701474-002DMS		97

CAS Acceptance Limits: 50-140

Approved By: _____ Date: 8/27/97

Amended

SUR3/052595
01472SOH.MG1 - SUR 8/27/97

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: OHM Remediation Services Corp.
Project: UST-314-D070-Contents/18609
Sample Matrix: Water

Service Request: L9701472
Date Collected: 4/28/97
Date Received: 4/28/97
Date Extracted: 4/29/97
Date Analyzed: 4/30/97

Surrogate Recovery Summary
Hydrocarbon Scan / Fuel Characterization

Prep Method: EPA 3510M
Analysis Method: 8015M

Units: PERCENT
Basis: NA

Sample Name	Lab Code	Test Notes	Percent Recovery *p*-Terphenyl
18609-314-290	L9701472-001		70
Method Blank	L970429-MB		99
Lab Control Sample	L970429-LCS		108
18609-357-285	L9701474-002MS		86
18609-357-285	L9701474-002DMS		97

CAS Acceptance Limits: 50-140

Approved By: _____ Date: 6/11/97

SUR3/052595
01472SOH.MG1 - SUR 6/10/97

6925 Corporate Avenue - Cypress Park, CA 90630 (949) 587-5550 Fax (949) 587-5555

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: OHM Remediation Services Corp.
Project: UST-314-D070-Contents/18609
LCS Matrix: Water

Service Request: L9701472
Date Collected: NA
Date Received: NA
Date Extracted: 4/29/97
Date Analyzed: 4/29/97

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary
Hydrocarbon Scan / Fuel Characterization

Sample Name: Duplicate Lab Control Sample
Lab Code: L970429-LCS, L970429-DLCS
Test Notes:

Units: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	True Value LCS	True Value DLCS	Result LCS	Result DLCS	Percent Recovery LCS	Percent Recovery DLCS	CAS Acceptance Limits	Relative Percent Difference	LAB Qualifier
TPH as Diesel	EPA 3510M	8015M	20.0	20.0	25.0	22.6	125	113	70-140	10	

Approved By: _____ Date: 6/11/97

DLCS/052595
01472SOH.MGI - DLCS 6/10/97

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	OHM Remediation Services Corp.	**Service Request:**	L9701472
Project:	UST-314-D070-Contents/18609	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Extracted:	4/29/97
		Date Analyzed:	4/30/97

Matrix Spike/Duplicate Matrix Spike Summary
Hydrocarbon Scan / Fuel Characterization

Sample Name: 17486-357-291 — Units: mg/L (ppm)
Lab Code: L9701474-002MS, L9701474-002DMS — Basis: NA
Test Notes:

Analyte	Prep Method	Analysis Method	PQL	Spike Level MS	Spike Level DMS	Sample Result	Spike Result MS	Spike Result DMS	Percent Recovery MS	Percent Recovery DMS	CAS Acceptance Limits	Relative Percent Difference	LAB Qualifier
TPH as Diesel	EPA 3510M	8015M	0.5	20.0	20.0	0.584	21.5	22.7	105	111	41-136	5	

Approved By: _____ Date: 8/27/97

DMS/052595

Amended

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: OHM Remediation Services Corp.
Project: UST-314-D070-Contents/18609
Sample Matrix: Water

Service Request: L9701472
Date Collected: NA
Date Received: NA
Date Extracted: 4/29/97
Date Analyzed: 4/30/97

Matrix Spike/Duplicate Matrix Spike Summary
Hydrocarbon Scan / Fuel Characterization

Sample Name: 18609-357-285
Lab Code: L9701474-002MS, L9701474-002DMS
Test Notes:

Units: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	PQL	Spike Level MS	Spike Level DMS	Sample Result	Spike Result MS	Spike Result DMS	Percent Recovery MS	Percent Recovery DMS	CAS Acceptance Limits	Relative Percent Difference	LAB Qualifier
TPH as Diesel	EPA 3510M	8015M	0.5	20.0	20.0	0.584	21.5	22.7	105	111	41-136	5	

Approved By: _____ Date: 6/11/97
DMS/052595

01472SOH.MGI - DMS 6/10/97

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: OHM Remediation Services Corp.
Project: UST-314-D070-Contents/18609
Sample Matrix: Water

Service Request: L9701473
Date Collected: 4/28/97
Date Received: 4/28/97
Date Extracted: 4/29/97
Date Analyzed: 4/29/97

Surrogate Recovery Summary
Hydrocarbon Scan / Fuel Characterization

Prep Method: 3510M
Analysis Method: 8015M

Units: PERCENT
Basis: NA

Sample Name	Lab Code	Test Notes	Percent Recovery *p*-Terphenyl
18609-314-287 UST 314 Contents, Water	L9701473-001		113
Method Blank	L970429-MB		99
Lab Control Sample	L970429-LCS		108
17486-357-291	L9701474-002MS		86
17486-357-291	L9701474-002DMS		97

CAS Acceptance Limits: 50-140

Approved By: _____ Date: 8/27/97

Amended

SUR3/052595
01473SOH.MG1 - SUR 8/27/97

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: OHM Remediation Services Corp.
Project: UST-314-D070-Contents/18609
Sample Matrix: Water

Service Request: L9701473
Date Collected: 4/28/97
Date Received: 4/28/97
Date Extracted: 4/29/97
Date Analyzed: 4/29/97

Surrogate Recovery Summary
Hydrocarbon Scan / Fuel Characterization

Prep Method: 3510M
Analysis Method: 8015M

Units: PERCENT
Basis: NA

Sample Name	Lab Code	Test Notes	Percent Recovery *p*-Terphenyl
18609-314-287 UST 314 Contents, Water	L9701473-001		113
Method Blank	L970429-MB		99
Lab Control Sample	L970429-LCS		108
18609-357-285 UST 357	L9701474-002MS		86
18609-357-285 UST 358	L9701474-002DMS		97

CAS Acceptance Limits: 50-140

Approved By: _____ Date: 6/11/97

SUR3/052595
01473SOH.MGI - SUR 6/10/97

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	OHM Remediation Services Corp.	**Service Request:**	L9701473
Project:	UST-314-D070-Contents/18609	**Date Collected:**	NA
LCS Matrix:	Water	**Date Received:**	NA
		Date Extracted:	4/29/97
		Date Analyzed:	4/29/97

Laboratory Control Sample Summary
Hydrocarbon Scan / Fuel Characterization

Sample Name:	Lab Control Sample	Units:	mg/L (ppm)
Lab Code:	L970429-LCS	Basis:	NA
Test Notes:			

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	LAB Qualifier
TPH as Diesel	3510M	8015M	20.0	25.0	125	70-140	

Approved By: _____ Date: 6/11/97

LCS/52595
01473SOH.MG1 - LCS 6/10/97

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	OHM Remediation Services Corp.	**Service Request:**	L9701473
Project:	UST-314-D070-Contents/18609	**Date Collected:**	4/28/97
Sample Matrix:	Water	**Date Received:**	4/28/97
		Date Extracted:	4/29/97
		Date Analyzed:	4/29/97

Matrix Spike/Duplicate Matrix Spike Summary
Hydrocarbon Scan / Fuel Characterization

Sample Name: 17486-357-291
Lab Code: L9701474-002MS, L9701474-002DMS
Test Notes:

Units: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	PQL	Spike Level MS	Spike Level DMS	Sample Result	Spike Result MS	Spike Result DMS	Percent Recovery MS	Percent Recovery DMS	CAS Acceptance Limits	Relative Percent Difference	LAB Qualifier
TPH as Diesel	3510M	8015M	0.5	20.0	20.0	0.584	21.5	22.7	105	111	41-136	5	

Approved By: _____ Date: 8/27/97

DMS/052595

Amended

01473SOH.MG1 - DMS 8/27/97

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

C	OHM Remediation Services Corp.	**Service Request:**	L9701473
Project:	UST-314-D070-Contents/18609	**Date Collected:**	4/28/97
Sample Matrix:	Water	**Date Received:**	4/28/97
		Date Extracted:	4/29/97
		Date Analyzed:	4/29/97

Matrix Spike/Duplicate Matrix Spike Summary
Hydrocarbon Scan / Fuel Characterization

Sample Name: 18609-357-285 UST 358 — Units: mg/L (ppm)
Lab Code: L9701474-002MS, L9701474-002DMS — Basis: NA
Test Notes:

Analyte	Prep Method	Analysis Method	PQL	Spike Level MS	Spike Level DMS	Sample Result	Spike Result MS	Spike Result DMS	Percent Recovery MS	Percent Recovery DMS	CAS Acceptance Limits	Relative Percent Difference	LAB Qualifier
TPH as Diesel	3510M	8015M	0.5	20.0	20.0	0.584	21.5	22.7	105	111	41-136	5	

Approved By: _____ Date: 6/11/97

DMS/052595

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: OHM Remediation Services Corp.
Project: UST-357-D070-Contents/17486
Sample Matrix: Soil

Service Request: L9701474
Date Collected: 4/28/97
Date Received: 4/28/97
Date Extracted: 4/29/97
Date Analyzed: 4/30/97

Surrogate Recovery Summary
Hydrocarbon Scan / Fuel Characterization

Prep Method: 8015M
Analysis Method: 8015M

Units: PERCENT
Basis: NA

Sample Name	Lab Code	Test Notes	Percent Recovery *p*-Terphenyl
17486-357-292	L9701474-003		103
Method Blank	L970429-MB		100
Lab Control Sample	L970429-LCS		94
17486-357-292	L9701474-003MS		104
17486-357-292	L9701474-003DMS		89

CAS Acceptance Limits: 40-150

Approved By: _____ Date: 6/11/97

SUR3/052595
01474SOH.AA2 - SUR 6/10/97

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	OHM Remediation Services Corp.	**Service Request:**	L9701474
Project:	UST-357-D070-Contents/17486	**Date Collected:**	NA
LCS Matrix:	Liquid	**Date Received:**	NA
		Date Extracted:	4/29/97
		Date Analyzed:	4/29/97

Laboratory Control Sample Summary
Hydrocarbon Scan / Fuel Characterization

Sample Name:	Lab Control Sample	Units:	mg/kg (ppm)
Lab Code:	L970429-LCS	Basis:	NA
Test Notes:			

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	LAB Qualifier
TPH as Diesel	8015M	8015M	200	221	112	70-140	

Approved By: _____ Date: 6/11/97

LCS/52595
01474SOH.AA2 - LCS 6/10/97

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	OHM Remediation Services Corp.	**Service Request:**	L9701474
Project:	UST-357-D070-Contents/17486	**Date Collected:**	4/28/97
Sample Matrix:	Soil	**Date Received:**	4/28/97
		Date Extracted:	4/29/97
		Date Analyzed:	4/30/97

Matrix Spike/Duplicate Matrix Spike Summary
Hydrocarbon Scan / Fuel Characterization

Sample Name: 17486-357-292
Lab Code: L9701474-003MS, L9701474-003DMS
Test Notes: *

Units: mg/kg (ppm)
Basis: Dry

Analyte	Prep Method	Analysis Method	PQL	Spike Level MS	Spike Level DMS	Sample Result	Spike Result MS	Spike Result DMS	Percent Recovery MS	Percent Recovery DMS	CAS Acceptance Limits	Relative Percent Difference	LAB Qualifier
TPH as Diesel	8015M	8015M	10	200	200	10	229	203	104	89	41-136	12	

No diesel range organics were detected in the sample; however, 1100 ppm of heavy oil range organics were detected.

Approved By: _____ Date: 6/11/97

DMS/052595

01474SOH.AA2 - DMS 6/10/97

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: OHM Remediation Services Corp.
Project: UST-357-D070-Contents/17486
Sample Matrix: Water

Service Request: L9701474
Date Collected: 4/28/97
Date Received: 4/28/97
Date Extracted: 4/29/97
Date Analyzed: 4/29/97

Surrogate Recovery Summary
Hydrocarbon Scan / Fuel Characterization

Prep Method: 8015M
Analysis Method: 8015M

Units: PERCENT
Basis: NA

Sample Name	Lab Code	Test Notes	Percent Recovery *p*-Terphenyl
17486-357-291	L9701474-002		93
Method Blank	L970429-MB		99
Lab Control Sample	L970429-LCS		91
17486-357-291	L9701474-002MS		86
17486-357-291	L9701474-002DMS		97

CAS Acceptance Limits: 40-150

Approved By: _____ Date: 6/11/97

SUR3/052595
01474SOH.AA1 - SUR 6/10/97

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: OHM Remediation Services Corp.
Project: UST-357-D070-Contents/17486
LCS Matrix: Water

Service Request: L9701474
Date Collected: NA
Date Received: NA
Date Extracted: 4/29/97
Date Analyzed: 4/29/97

Laboratory Control Sample Summary
Hydrocarbon Scan / Fuel Characterization

Sample Name: Lab Control Sample
Lab Code: L970429-LCS
Test Notes:

Units: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	LAB Qualifier
TPH as Diesel	8015M	8015M	20.0	22.5	112	70-140	

Approved By: _____ Date: 6/11/97

LCS/52595
01474SOH.AA1 - LCS 6/10/97

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	OHM Remediation Services Corp.	**Service Request:**	L9701474
Project:	UST-357-D070-Contents/17486	**Date Collected:**	4/28/97
Sample Matrix:	Water	**Date Received:**	4/28/97
		Date Extracted:	4/29/97
		Date Analyzed:	4/29/97

Matrix Spike/Duplicate Matrix Spike Summary
Hydrocarbon Scan / Fuel Characterization

Sample Name: 17486-357-291
Lab Code: L9701474-002MS, L9701474-002DMS
Test Notes:

Units: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	PQL	Spike Level MS	Spike Level DMS	Sample Result	Spike Result MS	Spike Result DMS	Percent Recovery MS	Percent Recovery DMS	CAS Acceptance Limits	Relative Percent Difference	LAB Qualifier
TPH as Diesel	8015M	8015M	0.5	20.0	20.0	0.58	21.5	22.7	105	111	41-136	6	

Approved By: _____ Date: 6/11/97

DMS/052595

01474SOH.AA1 - DMS 6/10/97

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: OHM Remediation Services Corp.
Project: UST-314-D070-Contents/18609
Sample Matrix: Water

Service Request: L9701473
Date Collected: NA
Date Received: NA

Polychlorinated Biphenyls (PCBs)

Sample Name: Method Blank
Lab Code: L970513-MB
Test Notes:

Units: ug/L (ppb)
Basis: NA

Analyte	Prep Method	Analysis Method	PQL	Dilution Factor	Date Extracted	Date Analyzed	Result	LAB Qualifier
Aroclor 1016	EPA 3510B	8081	1	1	5/13/97	5/16/97	1	U
Aroclor 1221	EPA 3510B	8081	1	1	5/13/97	5/16/97	1	U
Aroclor 1232	EPA 3510B	8081	1	1	5/13/97	5/16/97	1	U
Aroclor 1242	EPA 3510B	8081	1	1	5/13/97	5/16/97	1	U
Aroclor 1248	EPA 3510B	8081	1	1	5/13/97	5/16/97	1	U
Aroclor 1254	EPA 3510B	8081	1	1	5/13/97	5/16/97	1	U
Aroclor 1260	EPA 3510B	8081	1	1	5/13/97	5/16/97	1	U

Approved By: _____ Date: 6/4/97

1S22/052595

01473SOA.AA1 - MBlank 6/10/97

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	OHM Remediation Services Corp.	**Service Request:**	L9701473
Project:	UST-314-D070-Contents/18609	**Date Collected:**	4/28/97
Sample Matrix:	Water	**Date Received:**	4/28/97

Polychlorinated Biphenyls (PCBs)

Sample Name:	18609-314-287	Units:	ug/L (ppb)
Lab Code:	L9701473-001	Basis:	NA
Test Notes:			

Analyte	Prep Method	Analysis Method	PQL	Dilution Factor	Date Extracted	Date Analyzed	Result	LAB Qualifier
Aroclor 1016	EPA 3510B	8081	1	1	5/13/97	5/16/97	1	U
Aroclor 1221	EPA 3510B	8081	1	1	5/13/97	5/16/97	1	U
Aroclor 1232	EPA 3510B	8081	1	1	5/13/97	5/16/97	1	U
Aroclor 1242	EPA 3510B	8081	1	1	5/13/97	5/16/97	1	U
Aroclor 1248	EPA 3510B	8081	1	1	5/13/97	5/16/97	1	U
Aroclor 1254	EPA 3510B	8081	1	1	5/13/97	5/16/97	1	U
Aroclor 1260	EPA 3510B	8081	1	1	5/13/97	5/16/97	1	U

Approved By: _____ Date: 6/11/97

1S22/052595

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: OHM Remediation Services Corp.
Project: UST-357-D070-Contents/17486
Sample Matrix: Solid

Service Request: L9701474
Date Collected: NA
Date Received: NA

Polychlorinated Biphenyls (PCBs)

Sample Name: Method Blank
Lab Code: L970429-MB
Test Notes:

Units: mg/kg (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	PQL	Dilution Factor	Date Extracted	Date Analyzed	Result	LAB Qualifier
Aroclor 1016	EPA 3550B	8081	0.1	1	4/29/97	4/30/97	0.1	U
Aroclor 1221	EPA 3550B	8081	0.1	1	4/29/97	4/30/97	0.1	U
Aroclor 1232	EPA 3550B	8081	0.1	1	4/29/97	4/30/97	0.1	U
Aroclor 1242	EPA 3550B	8081	0.1	1	4/29/97	4/30/97	0.1	U
Aroclor 1248	EPA 3550B	8081	0.1	1	4/29/97	4/30/97	0.1	U
Aroclor 1254	EPA 3550B	8081	0.1	1	4/29/97	4/30/97	0.1	U
Aroclor 1260	EPA 3550B	8081	0.1	1	4/29/97	4/30/97	0.1	U

Approved By: _____ Date: 6/11/97

1S22/052595

01474SOA.AA3 - MBlank 6/10/97

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	OHM Remediation Services Corp.	**Service Request:**	L9701474
Project:	UST-357-D070-Contents/17486	**Date Collected:**	4/28/97
Sample Matrix:	Soil	**Date Received:**	4/28/97

Polychlorinated Biphenyls (PCBs)

Sample Name:	17486-357-292	Units:	mg/kg (ppm)
Lab Code:	L9701474-003	Basis:	Dry
Test Notes:	B		

Analyte	Prep Method	Analysis Method	PQL	Dilution Factor	Date Extracted	Date Analyzed	Result	LAB Qualifier
Aroclor 1016	EPA 3550B	8081	0.1	50	4/29/97	5/1/97	5	U
Aroclor 1221	EPA 3550B	8081	0.1	50	4/29/97	5/1/97	5	U
Aroclor 1232	EPA 3550B	8081	0.1	50	4/29/97	5/1/97	5	U
Aroclor 1242	EPA 3550B	8081	0.1	50	4/29/97	5/1/97	5	U
Aroclor 1248	EPA 3550B	8081	0.1	50	4/29/97	5/1/97	5	U
Aroclor 1254	EPA 3550B	8081	0.1	50	4/29/97	5/1/97	5	U
Aroclor 1260	EPA 3550B	8081	0.1	50	4/29/97	5/1/97	5	U

B The MRL/MDL is elevated because of matrix interferences.

Approved By: _____ Date: 6/11/97

1S22/052595

01474SOA.AA3 - Sample 6/10/97

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	OHM Remediation Services Corp.	**Service Request:**	L9701474
Project:	UST-357-D070-Contents/17486	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Polychlorinated Biphenyls (PCBs)

Sample Name:	Method Blank	Units:	ug/L (ppb)
Lab Code:	L970430-MB	Basis:	NA
Test Notes:			

Analyte	Prep Method	Analysis Method	PQL	Dilution Factor	Date Extracted	Date Analyzed	Result	LAB Qualifier
Aroclor 1016	EPA 3510B	8081	1	1	4/30/97	5/1/97	1	U
Aroclor 1221	EPA 3510B	8081	1	1	4/30/97	5/1/97	1	U
Aroclor 1232	EPA 3510B	8081	1	1	4/30/97	5/1/97	1	U
Aroclor 1242	EPA 3510B	8081	1	1	4/30/97	5/1/97	1	U
Aroclor 1248	EPA 3510B	8081	1	1	4/30/97	5/1/97	1	U
Aroclor 1254	EPA 3510B	8081	1	1	4/30/97	5/1/97	1	U
Aroclor 1260	EPA 3510B	8081	1	1	4/30/97	5/1/97	1	U

Approved By: _____ Date: 6/11/97

1S22/052595

01474SOA.AA2 - MBlank 6/10/97

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	OHM Remediation Services Corp.	**Service Request:**	L9701474
Project:	UST-357-D070-Contents/17486	**Date Collected:**	4/28/97
Sample Matrix:	Water	**Date Received:**	4/28/97

Polychlorinated Biphenyls (PCBs)

Sample Name:	17486-357-291	Units:	ug/L (ppb)
Lab Code:	L9701474-002	Basis:	NA
Test Notes:	*		

Analyte	Prep Method	Analysis Method	PQL	Dilution Factor	Date Extracted	Date Analyzed	Result	LAB Qualifier
Aroclor 1016	EPA 3510B	8081	1	20	4/30/97	5/1/97	20	U
Aroclor 1221	EPA 3510B	8081	1	20	4/30/97	5/1/97	20	U
Aroclor 1232	EPA 3510B	8081	1	20	4/30/97	5/1/97	20	U
Aroclor 1242	EPA 3510B	8081	1	20	4/30/97	5/1/97	20	U
Aroclor 1248	EPA 3510B	8081	1	20	4/30/97	5/1/97	20	U
Aroclor 1254	EPA 3510B	8081	1	20	4/30/97	5/1/97	20	U
Aroclor 1260	EPA 3510B	8081	1	20	4/30/97	5/1/97	20	U

B The MRL/MDL is elevated because of matrix interferences.

Approved By: _____ Date: 6/11/97

1S22/052595

01474SOA.AA2 - Sample 6/10/97

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	OHM Remediation Services Corp.	**Service Request:**	L9701473
Project:	UST-314-D070-Contents/18609	**Date Collected:**	4/28/97
Sample Matrix:	Water	**Date Received:**	4/28/97
		Date Extracted:	5/13/97
		Date Analyzed:	5/16/97

Surrogate Recovery Summary
Polychlorinated Biphenyls (PCBs)

Prep Method:	EPA 3510B	Units:	PERCENT
Analysis Method:	8081	Basis:	NA

Sample Name	Lab Code	Test Notes	Percent Recovery Tetrachloro-m-xylene
18609-314-287	L9701473-001		108
Method Blank	L970513-MB		91
Lab Control Sample	L970513-LCS		87
Duplicate Lab Control Sample	L970513-DLCS		86

CAS Acceptance Limits: 45-140

Approved By: _____ Date: 6/4/97

SUR3/052595
01473SOA.AA1 - SUR 6/10/97

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	OHM Remediation Services Corp.	**Service Request:**	L9701473
Project:	UST-314-D070-Contents/18609	**Date Collected:**	NA
LCS Matrix:	Water	**Date Received:**	NA
		Date Extracted:	5/13/97
		Date Analyzed:	5/16/97

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary
Polychlorinated Biphenyls (PCBs)

Sample Name:	Lab Control Sample	Units:	ug/L (ppb)
Lab Code:	L970513-LCS, L970513-DLCS	Basis:	NA
Test Notes:			

Analyte	Prep Method	Analysis Method	True Value LCS	True Value DLCS	Result LCS	Result DLCS	Percent Recovery LCS	Percent Recovery DLCS	CAS Acceptance Limits	Relative Percent Difference	LAB Qualifier
Aroclor 1260	EPA 3510B	8081	10.0	10.0	11.1	12.0	111	120	62-154	8	

Approved By: _____ Date: 6/11/97

DLCS/052595
01473SOA.AA1 - DLCS 6/10/97

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	OHM Remediation Services Corp.	**Service Request:**	L9701474
Project:	UST-357-D070-Contents/17486	**Date Collected:**	4/28/97
Sample Matrix:	Soil	**Date Received:**	4/28/97
		Date Extracted:	4/29/97
		Date Analyzed:	5/1/97

Surrogate Recovery Summary
Polychlorinated Biphenyls (PCBs)

Prep Method:	EPA 3550B	Units:	PERCENT
Analysis Method:	8081	Basis:	NA

Sample Name	Lab Code	Test Notes	Percent Recovery Tetrachloro-m-xylene
17486-357-292	L9701474-003	*	
Method Blank	L970429-MB		90
Lab Control Sample	L970429-LCS		101
17486-357-292	L9701474-003MS	*	
17486-357-292	L9701474-003DMS	*	

CAS Acceptance Limits: 45-140

* Not Applicable because of the sample matrix. Analysis of this sample required a dilution such that the surrogate concentration was diluted below the method reporting limit.

Approved By: _____ Date: 6/11/97

SUR3/052595
01474SOA.AA3 - SUR 6/10/97

6925 Cosgrove Avenue

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	OHM Remediation Services Corp.	**Service Request:**	L9701474
Project:	UST-357-D070-Contents/17486	**Date Collected:**	NA
LCS Matrix:	Solid	**Date Received:**	NA
		Date Extracted:	4/29/97
		Date Analyzed:	5/1/97

Laboratory Control Sample Summary
Polychlorinated Biphenyls (PCBs)

Sample Name:	Lab Control Sample	Units:	mg/kg (ppm)
Lab Code:	L970429-LCS	Basis:	NA
Test Notes:			

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	LAB Qualifier
Aroclor 1260	EPA 3550B	8081	0.333	0.283	85	62-154	

Approved By: _____ Date: 6/4/97

LCS/52595
01474SOA.AA3 - LCS 6/10/97

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	OHM Remediation Services Corp.	**Service Request:**	L9701474
Project:	UST-357-D070-Contents/17486	**Date Collected:**	4/28/97
Sample Matrix:	Water	**Date Received:**	4/28/97
		Date Extracted:	4/30/97
		Date Analyzed:	5/1/97

Surrogate Recovery Summary
Polychlorinated Biphenyls (PCBs)

Prep Method:	EPA 3510B	Units:	PERCENT
Analysis Method:	8081	Basis:	NA

Sample Name	**Lab Code**	**Test Notes**	**Percent Recovery** Tetrachloro-m-xylene
17486-357-291	L9701474-002	*	
Method Blank	L970430-MB		89
Lab Control Sample	L970430-LCS		86
Duplicate Lab Control Sample	L970430-DLCS		85

CAS Acceptance Limits: 45-140

* Not Applicable because of the sample matrix. Analysis of this sample required a dilution such that the surrogate concentration was diluted below the method reporting limit.

Approved By: _____ Date: 6/1/97

SUR3/052595
01474SOA.AA2 - SUR 6/10/97

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	OHM Remediation Services Corp.	**Service Request:**	L9701474
Project:	UST-357-D070-Contents/17486	**Date Collected:**	NA
LCS Matrix:	Water	**Date Received:**	NA
		Date Extracted:	4/30/97
		Date Analyzed:	5/1/97

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary
Polychlorinated Biphenyls (PCBs)

Sample Name: Lab Control Sample
Lab Code: L970430-LCS, L970430-DLCS
Test Notes:

Units: ug/L (ppb)
Basis: NA

Analyte	Prep Method	Analysis Method	True Value LCS	True Value DLCS	Result LCS	Result DLCS	Percent Recovery LCS	Percent Recovery DLCS	CAS Acceptance Limits	Relative Percent Difference	LAB Qualifier
Aroclor 1260	EPA 3510B	8081	10.0	10.0	8.10	8.30	81	83	62-154	2	

Approved By: _____ Date: 6/4/97

DLCS/052595
01474SOA.AA2 - DLCS 6/10/97

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	OHM	**Service Request:**	L9701472
Project:	UST-314-D070-Contents	**Date Collected:**	4/28/97
Sample Matrix:	Water	**Date Received:**	4/28/97

Ignitability

Sample Name:	18609-314-290	Units:	DEG F
Lab Code:	L9701472-001	Basis:	NA
Test Notes:			

Analyte	Prep Method	Analysis Method	Dilution Factor	Date Extracted	Date Analyzed	Result	LAB Qualifier
Ignitability	METHOD	1010	1	4/29/97	4/29/97	200	U

Approved By: _____ Date: 6/11/97

1S22/052595

01472WET.PE2 - Sample 6/10/97

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	OHM	**Service Request:**	L9701473
Project:	UST-314-D070-Contents	**Date Collected:**	4/28/97
Sample Matrix:	H20	**Date Received:**	4/29/97

Ignitability

Sample Name:	18609-314-287	Units:	DEG F
Lab Code:	L9701473-001	Basis:	NA
Test Notes:			

Analyte	Prep Method	Analysis Method	Dilution Factor	Date Extracted	Date Analyzed	Result	LAB Qualifier
Ignitability	METHOD	1010	1	NA	4/29/97	200	U

Approved By: _____ Date: 6/11/97

1S22/052595

01473WET.PE1 - Sample 6/10/97

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	OHM	**Service Request:**	L9701474
Project:	UST-357-D070-Contents	**Date Collected:**	4/28/97
Sample Matrix:	Water	**Date Received:**	4/28/97

Ignitability

Sample Name:	17486-357-291	Units:	DEG F
Lab Code:	L9701474-002	Basis:	NA
Test Notes:			

Analyte	Prep Method	Analysis Method	Dilution Factor	Date Extracted	Date Analyzed	Result	LAB Qualifier
Ignitability	METHOD	1010	1	NA	4/29/97	200	U

Approved By: _____ Date: 8/27/97

Amended

1S22/052595

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01474WET.PE2 - Sample 8/27/97

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	OHM	**Service Request:**	L9701474
Project:	UST-357-D070-Contents	**Date Collected:**	4/28/97
Sample Matrix:	Water	**Date Received:**	4/28/97

Ignitability

Sample Name:	18609-357-285	Units:	DEG F
Lab Code:	L9701474-002	Basis:	NA
Test Notes:			

Analyte	Prep Method	Analysis Method	Dilution Factor	Date Extracted	Date Analyzed	Result	LAB Qualifier
Ignitability	METHOD	1010	1	NA	4/29/97	200	U

Approved By: _____ Date: 6/11/97

1S22/052595

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	OHM	**Service Request:**	L9701474
Project:	UST-357-D070-Contents	**Date Collected:**	4/28/97
Sample Matrix:	Water	**Date Received:**	4/28/97

Ignitability

Sample Name:	17486-357-291	Units:	DEG F
Lab Code:	L9701474-002 Dup.	Basis:	NA
Test Notes:			

Analyte	Prep Method	Analysis Method	Dilution Factor	Date Extracted	Date Analyzed	Result	LAB Qualifier
Ignitability	METHOD	1010	1	NA	4/29/97	200	U

Approved By: _____ Date: 8/27/97

Amended

1S22/052595

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Page No.:

01474WET.PE2 - Sample (2) 8/27/97

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	OHM	**Service Request:**	L9701474
Project:	UST-357-D070-Contents	**Date Collected:**	4/28/97
Sample Matrix:	Water	**Date Received:**	4/28/97

Ignitability

Sample Name:	18609-357-285	Units:	DEG F
Lab Code:	L9701474-002 Dup.	Basis:	NA
Test Notes:			

Analyte	Prep Method	Analysis Method	Dilution Factor	Date Extracted	Date Analyzed	Result	LAB Qualifier
Ignitability	METHOD	1010	1	NA	4/29/97	200	U

Approved By: _____ Date: 6/11/97

1S22/052595

01474WET.PE2 - Sample (2) 6/10/97

6925 Canoga Avenue ▪ Canoga Park, CA 91303 ▪ (818) 587-5550 ▪ Fax (818) 587-5555

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	OHM	**Service Request:**	L9701474
Project:	UST-357-D070-Contents	**Date Collected:**	4/28/07
Sample Matrix:	Soil	**Date Received:**	4/28/97

Ignitability

Sample Name:	18609-357-286	Units:	DEG F
Lab Code:	L9701474-003	Basis:	NA
Test Notes:			

Analyte	Prep Method	Analysis Method	Dilution Factor	Date Extracted	Date Analyzed	Result	LAB Qualifier
Ignitability	METHOD	1010	1	NA	4/29/97	200	U

Approved By: _____ Date: 6/11/97

1S22/052595

01474WET.PE2 - Sample (3) 6/10/97

6925 Canoga Avenue ▪ Canoga Park, CA 91303 ▪ (818) 587-5550 ▪ Fax (818) 587-5555

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: OHM
Project: UST-314-D070-Contents
LCS Matrix: Liquid

Service Request: L9701472
Date Collected: NA
Date Received: NA
Date Extracted: 4/29/97
Date Analyzed: 4/29/97

p-Xylene Check Sample / Duplicate p-Xylene Check Sample
Ignitability

Sample Name: Duplicate p-Xylene Check Sample
Lab Code: L970429-XCS L970429-DXCS
Test Notes:

Units: DEG F
Basis: NA

Analyte	Prep Method	Analysis Method	True Value LCS	True Value DLCS	Result LCS	Result DLCS	Percent Recovery LCS	Percent Recovery DLCS	CAS Acceptance Limits	Relative Percent Difference	LAB Qualifier
Ignitability	METHOD	1010	81.0	81.0	78.8	82.4	97	102	77.4-84.6	4	

Approved By: _____ Date: 6/11/97

DLCS/052595
01472WET.PE2 - DXCS 6/10/97

6925 Canoga Avenue ▪ Canoga Park, CA 91303 ▪ (818) 587-5550 ▪ Fax (818) 587-5555

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	OHM	**Service Request:**	L9701473
Project:	UST-314-D070-Contents	**Date Collected:**	NA
LCS Matrix:	LIQUID	**Date Received:**	NA
		Date Extracted:	NA
		Date Analyzed:	4/29/97

p-Xylene Check Sample / Duplicate p-Xylene Check Sample
Ignitability

Sample Name:	Duplicate p-Xylene Check Sample	Units:	DEG F
Lab Code:	L970429-XCS L970429-DXCS	Basis:	NA
Test Notes:			

							Percent Recovery				
			True Value		Result				CAS	Relative	
Analyte	**Prep Method**	**Analysis Method**	LCS	DLCS	LCS	DLCS	LCS	DLCS	Acceptance Limits	**Percent Difference**	**LAB Qualifier**
Ignitability	METHOD	1010	81.0	81.0	78.8	82.4	97	102	77.4-84.6	4	

Approved By: _____ Date: 6/11/97

DLCS/052595
01473WET.PE1 - DXCS 6/10/97

6925 Canoga Avenue ▪ Canoga Park, CA 91303 ▪ (818) 587-5550 ▪ Fax (818) 587-5555

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	OHM	**Service Request:**	L9701474
Project:	UST-357-D070-Contents	**Date Collected:**	NA
LCS Matrix:	LIQUID	**Date Received:**	NA
		Date Extracted:	NA
		Date Analyzed:	4/29/97

p-Xylene Check Sample / Duplicate p-Xylene Check Sample
Ignitability

Sample Name:	Duplicate p-Xylene Check Sample	Units:	DEG F
Lab Code:	L970429-XCS, L970429-DXCS	Basis:	NA
Test Notes:			

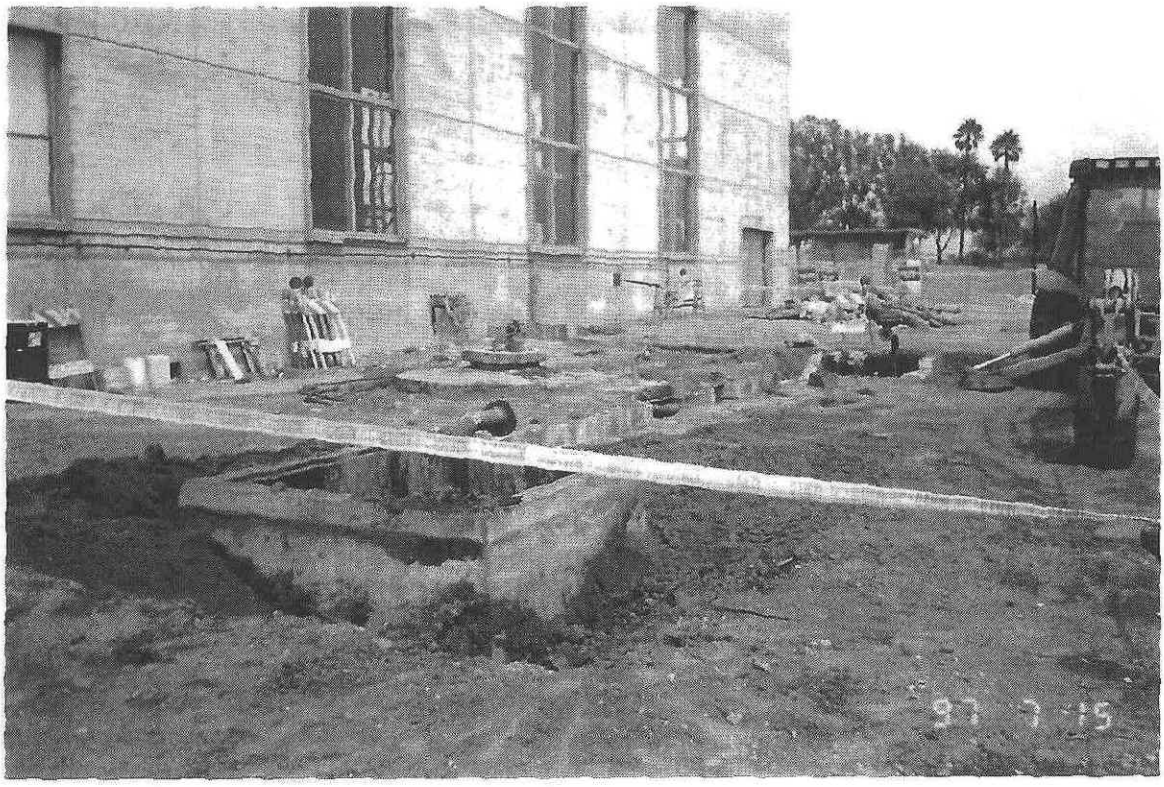
Analyte	Prep Method	Analysis Method	True Value LCS	True Value DLCS	Result LCS	Result DLCS	Percent Recovery LCS	Percent Recovery DLCS	CAS Acceptance Limits	Relative Percent Difference	LAB Qualifier
Ignitability	METHOD	1010	81.0	81.0	78.8	82.4	97	102	77.4-84.6	4	

Approved By: _____ Date: 6/11/97

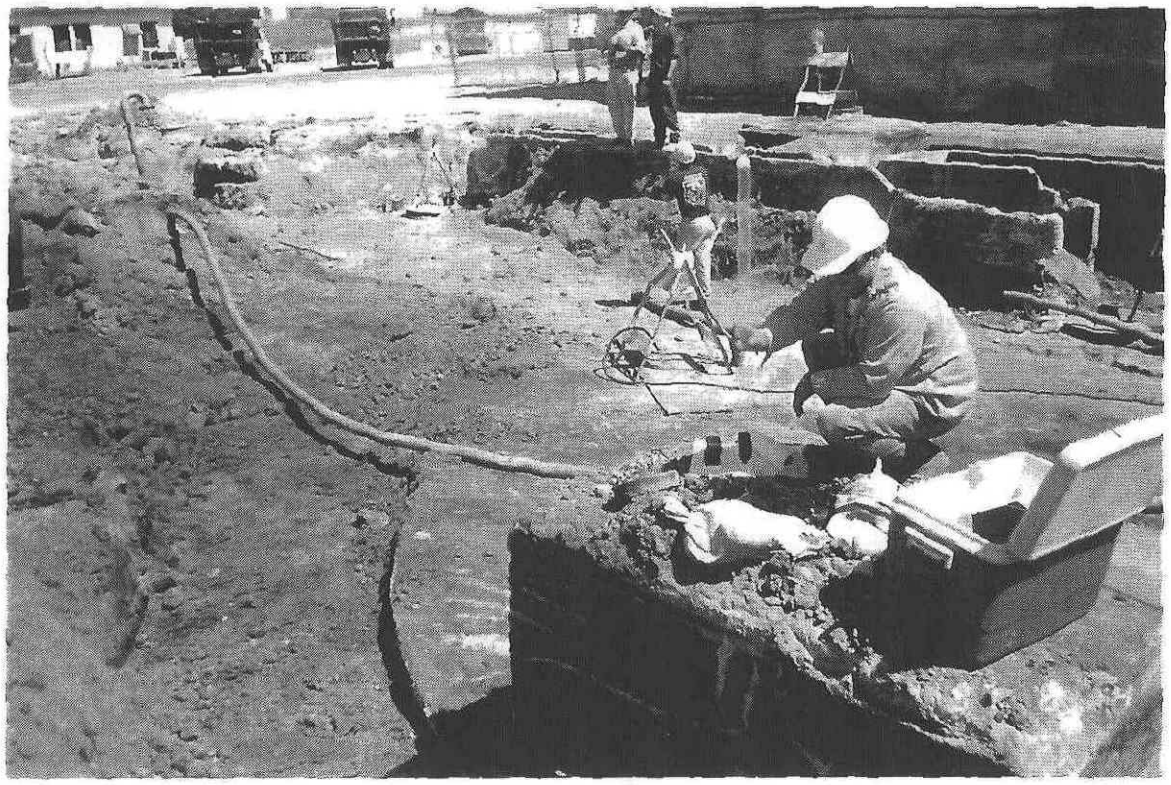
DLCS/052595
01474WET.PE2 - DXCS 6/10/97

6925 Canoga Avenue ▪ Canoga Park, CA 91303 ▪ (818) 587-5550 ▪ Fax (818) 587-5555

Appendix G
Site Photographs



Photograph No. 1: *UST Site 314A,B, and D Vaults* and piping demolition and removal.



Photograph No. 2: Sampling the contents of UST 314A

Photograph No. 3: Excavation and demolition of UST 314A

Photograph No. 4: 3" gasline cut and repaired

Photograph No. 5: Rerouting of 3" gas line and addition of new gas line piece.

Photograph No. 6: Restoration of asphalt areas at UST Site 314A

Appendix H
Waste Manifest

8900 Total Gallons

ADVANCED ENVIRONMENTAL, INC.

13579 Whittram Avenue · Fontana, CA 92335 · (909) 356-9025 · Fax (909) 356-5841
CL#675668 EPA #CAD 982403198

Receiving **NO.-** 7386

PH _____ WT. TK. 10062

DATE 7-28-97

RECEIVED FROM: [redacted]

9661336

AEI/OHM

WASHOUT _____ P.O. _____

Quantity & Products

5303
5305

2438 Gals.
STEOC LOADED. 490
J.

B.S. & W. 100 % (Gravity @60°F) 23 °Api Temp 60 °F

Sediments 5 % %

Hauler: AEI

Ticket No.: _____

Driver: KEVIN

Loader: ONCIL

Tank No. 651 Net Gal. _____

In 4:24 PM Out 5:41 PM

1067

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

ADVANCED ENVIRONMENTAL, INC.

13579 WHITTRAM AVENUE • FONTANA, CA 92335 • (909) 356-9025

E.P.A. I.D. #CAT080025711

C.L. #675686

DELIVERED TO:/SELLER Compading

DELIVERED TO:/BUYER AEI

DRIVER Lenny Dunkel

CARRIER AEI

B/L NO. 7786

ADVANCED ENVIRONMENTAL, INC., WEIGHMASTER

GROSS BY [illegible] DEPUTY - DATE 7-28-97

TARE BY [illegible] DEPUTY - DATE 7-28-97

COMMODITY

waste water

TRUCK LICENSE NO. SP58566

TRAILER LICENSE NO. LVM6077

TRAILER LICENSE NO.

WEIGHT IN LBS.

05:41 PM JUL 28 1997
19 ID. NO.
57880 LB GR RECALLED
37180 LB TR
20700 LB NT

ORIGINAL

Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CA6170023208 Manifest Document No. 000014

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
Commanding General (IAW)
MCAS-El Toro, P.O. Box 95001
Santa Ana, CA 92709-5001
4. Generator's Phone (714) 726-2772

A. State Manifest Document Number 96613368

B. State Generator's ID HAHQ360389185

5. Transporter 1 Company Name: ADVANCED ENVIRONMENTAL
6. US EPA ID Number: CAD982403198

C. State Transporter's ID

D. Transporter's Phone 590-4229

7. Transporter 2 Company Name
8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
Advanced Environmental, Inc.
13579 Whittram Ave.
Fontana, CA 92335
10. US EPA ID Number: CAT080025711

G. State Facility's ID CAT080025711

H. Facility's Phone (909) 356-9025

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. Lead impacted water, Non-RCRA hazardous waste, liquid, (NONE)	001	TT	04000	G	State ~~135~~ 221 EPA/Other NONE
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above
UST rinsates contaminated with lead
Lead: 11.0 mg/l (STLC); <5.0 mg/l (TCLP)

K. Handling Codes for Wastes Listed Above
a. 01
b.
c.
d.

15. Special Handling Instructions and Additional Information
FAX facility signed manifest to ATN: Steve Chandler at fax number (714) 263-1147, Project #18609, DO#70, Emergency number (714) 980-6333, ERG #n/a, Approval number 97OT059A

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Eddie Benavente | Signature: [signature] | Month 07 Day 28 Year 97

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Kevin Dunlop | Signature: [signature] | Month 07 Day 28 Year 97

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Month Day Year

19. Discrepancy Indication Space
THC actual 6A) 2438

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Chazel Bacci | Signature: [signature] | Month 07 Day 28 Year 97

DO NOT WRITE BELOW THIS LINE.

GENERATOR
TRANSPORTER
FACILITY

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA, CALL 1-800-852-7550

DTSC 8022A (4/97)
EPA 8700-22

White: TSDF SENDS THIS COPY TO DTSC WITHIN 30 DAYS.
To: P.O. Box 3000, Sacramento, CA 95812

ADVANCED ENVIRONMENTAL, INC.

13579 Whittram Avenue · Fontana, CA 92335 · (909) 356-9025 · Fax (909) 356-5841
CL#675668 EPA #CAD 982403198

Receiving **NO.-** 7440

PH _____ WT. TK. 10157

DATE 8-1-97

RECEIVED FROM: Commanding General
944133167
OBM / AEI

WASHOUT _____ P.O. _____

Quantity & Products

2,758 Gals.
5303
5305
STEVE ROBERTS
I

B.S. % W. 96 % (Gravity @60°F) 4.4 °Api Temp 60 °F

Sediments 40 %

Hauler: ACI

Ticket No.: _____

Driver: Fernando

Loader: Tony

Tank No. 65 Net Gal. _____

In 4:17 pm Out 10:50 am

10157

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

ADVANCED ENVIRONMENTAL, INC.

13579 WHITTRAM AVENUE · FONTANA, CA 92335 · (909) 356-9025

E.P.A. I.D. #CAT080025711
C.L. #675088

DELIVERED TO:/SELLER Commanding General

DELIVERED TO:/BUYER AEI

DRIVER Fernando Lara

CARRIER AEI

B/L NO. 7440

WEIGHT IN LBS.

10:55 Am AUG 1, 1997
05 ID NO
16300 LB GR
39140 LB TR
23120 LB NT

ADVANCED ENVIRONMENTAL, INC., WEIGHMASTER

GROSS BY Jaime Alvina DEPUTY - DATE 8-1-97

TARE BY Jaime Alvina DEPUTY - DATE 8-1-97

COMMODITY	TRUCK LICENSE NO.
WASTE OIL	SP68556
	TRAILER LICENSE NO. 1K M6077
	TRAILER LICENSE NO.

ORIGINAL

Please print or type. Form designed for use on elite (12-pitch) typewriter.

Department of Toxic Substances Control
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CA6170023208 Manifest Document No. 0014
2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
Commanding General (IAW)
MCAS-El Toro, P.O. Box 95001
Santa Ana, CA 92709-5001
4. Generator's Phone (714) 726-2772

A. State Manifest Document Number: 96613367
B. State Generator's ID: HAHQ360389 16

5. Transporter 1 Company Name: ADVANCE ENV.
6. US EPA ID Number: CAT080025711
C. State Transporter's ID:
D. Transporter's Phone:

7. Transporter 2 Company Name:
8. US EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
Advanced Environmental, Inc.
13579 Whittram Ave.
Fontana, CA 92335
10. US EPA ID Number: CAT080025711
G. State Facility's ID: CAT080025711
H. Facility's Phone: (909) 356-9025

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. Lead impacted water, Non-RCRA hazardous waste, liquid, (NONE)	001	TT	02400	G	State 221; EPA/Other NONE
b.					State; EPA/Other
c.					State; EPA/Other
d.					State; EPA/Other

J. Additional Descriptions for Materials Listed Above
UST rinsates contaminated with lead
Lead: 11.0 mg/l (STLC); <5.0 mg/l (TCLP)

K. Handling Codes for Wastes Listed Above
a. 01 b. c. d.

15. Special Handling Instructions and Additional Information
FAX facility signed manifest to ATN: Steve Chandler at fax number (714) 263-1147, Project #18609, DO#70, Emergency number (714) 980-6333, ERG #n/a, Approval number

16 GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: E. BENAVENTE Signature: [signature] Month 07 Day 31 Year 97

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Fernando Lara Signature: [signature] Month 07 Day 31 Year 97

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: Signature: Month Day Year

19. Discrepancy Indication Space
The actual gallons are 2,758 Bill to solids.

20 Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Jaime Alemán Signature: [signature] Month 08 Day 11 Year 97

DO NOT WRITE BELOW THIS LINE.

White: TSDF SENDS THIS COPY TO DTSC WITHIN 30 DAYS.
To: P.O. Box 3000, Sacramento, CA 95812

DTSC 8022A (4/97)
EPA 8700—22

GENERATOR
TRANSPORTER
FACILITY

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA, CALL 1-800-852-7550

ADVANCED ENVIRONMENTAL, INC.

13579 Whittram Avenue · Fontana, CA 92335 · (909) 356-9025 · Fax (909) 356-5841
CL#675668 EPA #CAD 982403198

Receiving **NO.-** 7414

PH _____ WT. TK. DIV

DATE 7-30-97

RECEIVED FROM: ~~Commanding General~~
18009-0003
AEI / CHM

WASHOUT _____ P.O. _____

Quantity & Products

7,297 Gals.
STEVE ROBERTS
I

5303
5305

B.S. % W. 100 % Gravity @60°F) _____ °Api Temp 60 °F

Sediments LCL %

Hauler: ACI

Ticket No.: _____

Driver: Fernando

Loader: Tony

Tank No. 351 Net Gal. _____

In 1:47 pm Out 3:19 pm

10116

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

ADVANCED ENVIRONMENTAL, INC.

13579 WHITTRAM AVENUE · FONTANA, CA 92335 · (909) 356-9025

E.P.A. I.D. #CAT080025711
C.L. #675688

DELIVERED TO:/SELLER Commanding

DELIVERED TO:/BUYER AMI

DRIVER Gerardo Lara

CARRIER AMI

B/L NO. 7414

ADVANCED ENVIRONMENTAL, INC., WEIGHMASTER

GROSS BY Jaime Alcaraz DEPUTY - DATE 7-30-97

TARE BY Jaime Alcaraz DEPUTY - DATE 7-30-97

COMMODITY	TRUCK LICENSE NO.
WASTE WATER	1VM 6070
	TRAILER LICENSE NO.
	TRAILER LICENSE NO.

WEIGHT IN LBS.

03:19 PM JUL 30 1997
13 ID. NO.
61000 LB GR RECALLED
40540 LB TR
20460 LB NT

ORIGINAL

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: C A 6 1 7 0 0 2 3 2 0 8
Manifest Document No.:
2. Page 1 of 1

3. Generator's Name and Mailing Address
Commanding General (IAW)
MCAS-El Toro, P.O. Box 95001
Santa Ana, CA 92709-5001
4. Generator's Phone (714) 726-2772

18609-0003

5. Transporter 1 Company Name: ADVANCE ENV.
6. US EPA ID Number: CAT080025711

7. Transporter 2 Company Name:
8. US EPA ID Number:

9. Designated Facility Name and Site Address
Advanced Environmental, Inc.
13579 Whittram Ave.
Fontana, CA 92335
10. US EPA ID Number: C A T 0 8 0 0 2 5 7 1 1

A. Transporter's Phone
B. Transporter's Phone
C. Facility's Phone (909) 356-9025

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Non-hazardous waste, liquid	0 0 1	T T	02500	G
b.				
c.				
d.				

GENERATOR

D. Additional Descriptions for Materials Listed Above
UST rinsates impacted with petroleum hydrocarbons

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
FAX facility signed manifest to ATN: Steve Chandler at fax number (714) 263-1147, Project #18609, DO#70, Emergency number (714) 980-6333, ERG #n/a, Approval number 9707058A

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
Printed/Typed Name: E. BENAVENTE
Signature:
Month 07 Day 30 Year 97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Fernando Lara
Signature:
Month 7 Day 30 Year 97

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Month Day Year

FACILITY

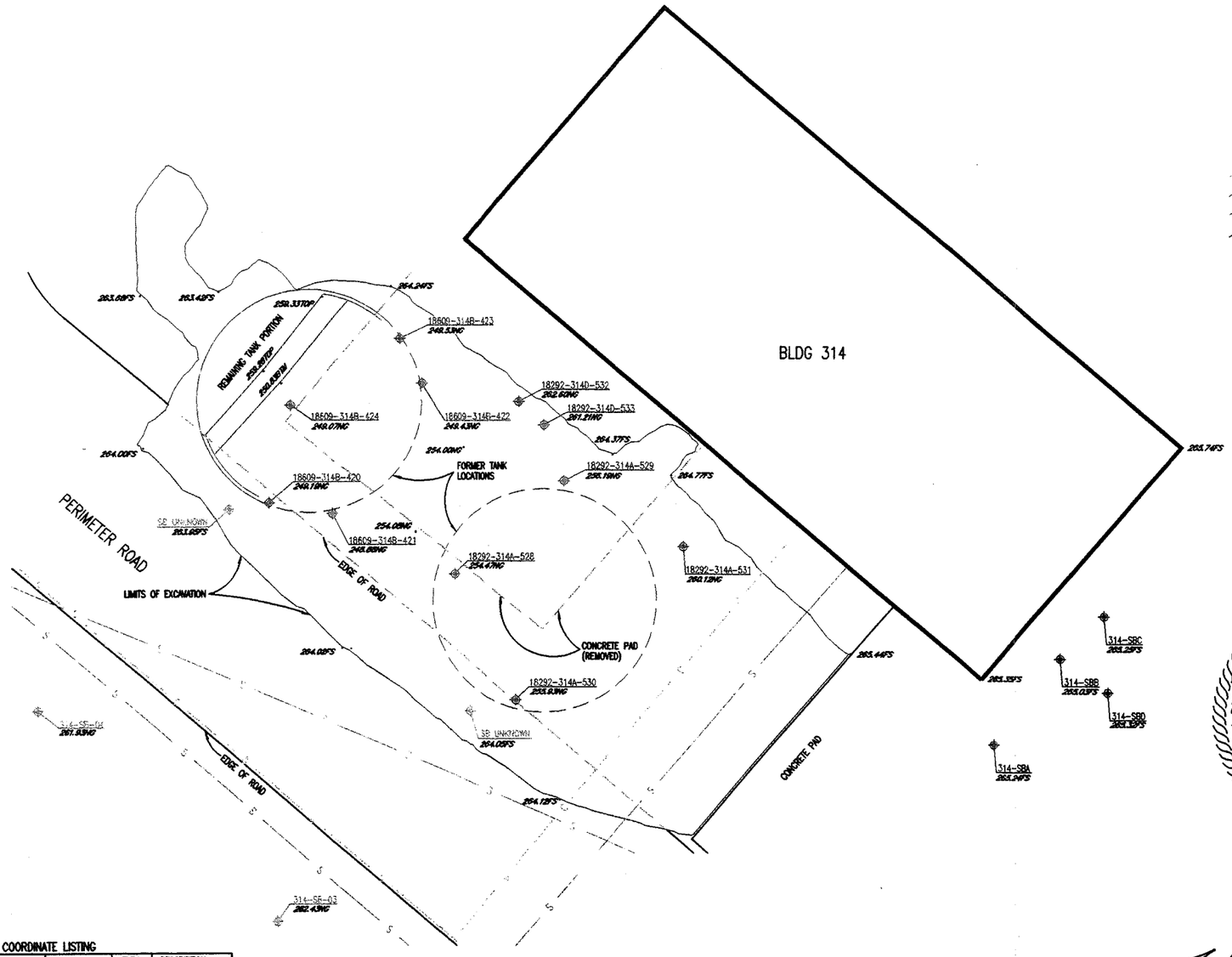
19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Jaime Alcman
Signature: Jaime Alcman
Month 07 Day 30 Year 97

ORIGINAL – RETURN TO GENERATOR

Appendix I
Land Survey Report

MCAS, EL TORO D.O. 70 SITE 314



LEGEND

- SAMPLE LOCATION (6-18-97)
- SAMPLE LOCATION (8-15-97)
- SAMPLE LOCATION (8-21-97)
- SAMPLE LOCATION (10-22-97)
- 6-18-97 SURVEY
- 8-21-97 SURVEY
- 8-15-97 SURVEY
- 10-22-97 SURVEY
- SEWER LINE
- GAS LINE
- FS FINISH SURFACE
- NG NATURAL GRADE

GRAPHIC SCALE

20 0 10 20 40

(IN FEET)

1 INCH = 20 FT

PREPARED FOR:

OHM REMEDIATION SERVICES, CORP.
2031 MAIN ST., IRVINE, CA 921714
(714) 263-1146

SAMPLE COORDINATE LISTING

#	NORTHING	EASTING	ELEV.	DESCRIPTION
252	2187666.3883	6109505.3648	262.43	BH 314SB05
253	2187693.0805	6109466.3672	261.93	BH 314SB04
3	2187718.5906	6109568.3132	260.12	18292-314A-531
4	2187728.8271	6109550.0089	256.19	18292-314A-529
5	2187737.5473	6109546.9576	261.21	18292-314D-533
6	2187741.1868	6109543.1216	262.60	18292-314D-532
7	2187714.3285	6109532.9479	254.46	18292-314A-528
8	2187694.7311	6109542.8244	255.93	18292-314A-530
103	2187723.7849	6109514.1667	248.88	314B-421
104	2187725.4727	6109504.2071	249.19	314B-420
105	2187740.6882	6109507.6131	249.07	314B-424
106	2187751.0439	6109524.4698	249.53	314B-423
107	2187744.1043	6109527.8933	249.43	314B-422
284	2187687.9277	6109616.3184	265.24	314-SBA
285	2187701.0767	6109626.6240	265.02	314-SBB
286	2187707.9253	6109633.3623	265.24	314-SBC
287	2187696.0736	6109633.9679	265.32	314-SBD

REVISIONS		
REV NO.	DESCRIPTION	DATE
1	INCLUDE ADDITIONAL GEOPHYS/EXCAVATION	10-25-97
2	FINAL SUBMITTAL	11-4-97
3	ADDITIONAL SAMPLES/FINAL SUBMITTAL	7-25-98

LICENSED LAND SURVEYOR
EDWARD L. SCHENET
L.S. 4240
Exp. 6/30/00
STATE OF CALIFORNIA

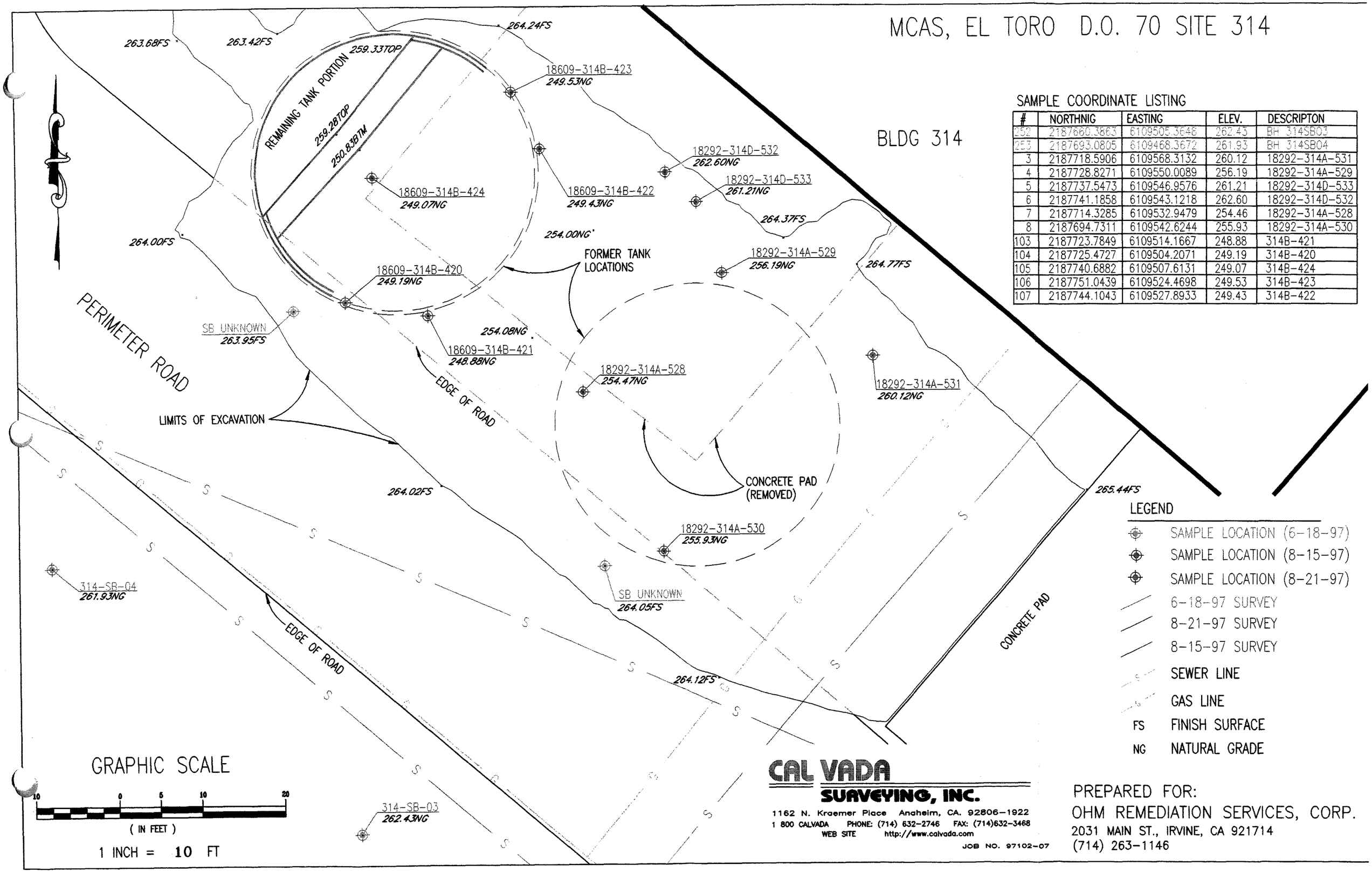
Edward L. Schenet

EDWARD L. SCHENET
Registration No. 4240
in the State of California

CAL VADA SURVEYING, INC.
108 Business Center Drive Corona, CA. 91720
1 800 CALVADA PHONE: (909) 280-9960 FAX: (909) 280-9746
WEB SITE http://www.calvada.com

JOB NO. 97102-07C

MCAS, EL TORO D.O. 70 SITE 314

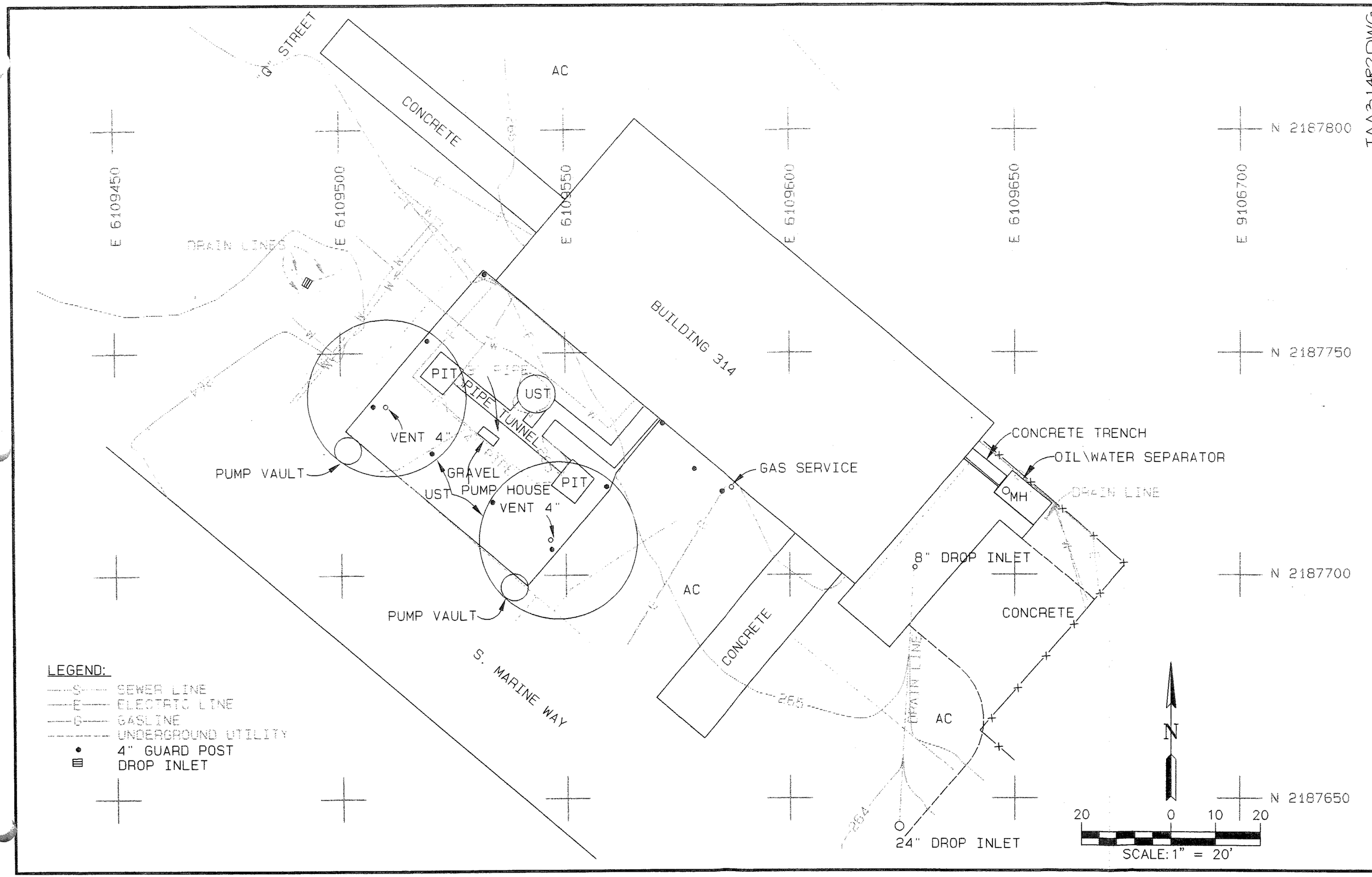


SAMPLE COORDINATE LISTING

#	NORTHNIG	EASTING	ELEV.	DESCRIPTON
252	2187660.3863	6109505.3648	262.43	BH 314SB03
253	2187693.0805	6109468.3672	261.93	BH 314SB04
3	2187718.5906	6109568.3132	260.12	18292-314A-531
4	2187728.8271	6109550.0089	256.19	18292-314A-529
5	2187737.5473	6109546.9576	261.21	18292-314D-533
6	2187741.1858	6109543.1218	262.60	18292-314D-532
7	2187714.3285	6109532.9479	254.46	18292-314A-528
8	2187694.7311	6109542.6244	255.93	18292-314A-530
103	2187723.7849	6109514.1667	248.88	314B-421
104	2187725.4727	6109504.2071	249.19	314B-420
105	2187740.6882	6109507.6131	249.07	314B-424
106	2187751.0439	6109524.4698	249.53	314B-423
107	2187744.1043	6109527.8933	249.43	314B-422

LEGEND

- SAMPLE LOCATION (6-18-97)
- SAMPLE LOCATION (8-15-97)
- SAMPLE LOCATION (8-21-97)
- 6-18-97 SURVEY
- 8-21-97 SURVEY
- 8-15-97 SURVEY
- SEWER LINE
- GAS LINE
- FS FINISH SURFACE
- NG NATURAL GRADE



TAA3114R2.DWG

towill, inc.
15405 Redhill Avenue, Suite A
Tustin, CA. 92680
(714) 566-9280

UST 314 A B & C
MCAS EL TORO

P.M.	D. HOLMES	
CALCULATED	N. DARLING	
DRAWN	N. DARLING	
CHECKED	D. HOLMES	

DATE 05/06/97
JOB NUMBER 5490500

SHEET 1 OF 1

Appendix J
Compaction Test Field Reports

R. T. FRANKIAN & ASSOCIATES

1329 SCOTT ROAD
BURBANK, CALIFORNIA 91504

Telephone: (818) 531-1501
Telecopier: (818) 531-1511

December 2, 1997

OHM Remediation Services Corporation
2031 Main Street
Irvine, California 92614

Job No. 97-049-20

Attention: Mr. Dhananjay Rawal

Subject: Report of Observation & Testing
Backfill of Excavation
Site 314
Marine Corps Air Station
El Toro, California

Gentlemen:

INTRODUCTION

This report presents the results of our observation and testing services performed for the backfill of the excavation resulting from the removal of two 25,000-gallon concrete underground storage tanks (UST) from the area designated as Site 314. Our services included observing the preparation of the site for backfill, and inspection and testing of the placement of compacted fill which consisted of imported soils. The services we performed related to Site 314 were conducted from August 20, 1997 through September 3, 1997.

The grading work was performed by OHM Remediation Services Corporation, General Contractor, under our observation and testing in accordance with the recommendations and requirements contained in the following documents:

- Scope of Work for Geotechnical Engineering (Soils and Foundation), prepared for the Marine Corps Air Station Delivery Order No. 0070, El Toro, California dated December, 1996.

- Section 02220 General Excavation, Filling, and Backfilling Specification dated June, 1992.

The layout of the Marine Corps Air Station in El Toro and the approximate location of the excavation resulting from the removal of the two UST is shown on the Site Location Map, Figure 1. The layout of the excavation is shown on the Plot Plan, Figure 2.

SUMMARY OF PROJECT SPECIFICATIONS

The specifications for the project require that the bottom of the excavation be approved by a representative of the Project Civil Engineer for conformance with the project specifications prior to fill placement operations. After stabilization of the subgrade to a firm and unyielding condition, backfill placement and compaction could then commence. It is required that fill soils be compacted to a minimum of 90 percent of the maximum dry density as determined by the ASTM D-1557-91 Test Method except for the upper 12 inches of backfill. It is required that the upper 12 inches of backfill be compacted to 95 percent relative compaction except in landscape areas where 90 percent relative compaction is sufficient.

GRADING OPERATIONS

After removal of the underground storage tank, the exposed bottom of the area to be filled was inspected and approved by a representative of the Project Civil Engineer. Any significant organic material or deleterious debris which was present at the time of excavation was removed and placed outside the fill area. After stabilization of the subgrade to a firm and unyielding condition, backfill placement and compaction commenced. The soil backfill was placed in thin lifts, moisture conditioned, and compacted to a minimum of 90 percent of the soil's maximum dry density as determined by the ASTM D-1557-91 Test Method. The upper 12 inches of backfill was compacted to a minimum of 95 percent of the maximum dry density.

GRADING EQUIPMENT

The fill material was placed and spread into thin lifts with a Cat 320N Excavator or Cat 966F rubber-tired loader. The soil was moisture conditioned as required using a garden hose. The soils were compacted with a vibratory sheepsfoot roller, a loader, or backhoe.

FIELD OBSERVATION AND TESTING

A portion of the southwest concrete UST as shown on the Plot Plan, Figure 2, was left in place to provide lateral support for existing adjacent utilities. After approval of the excavation bottom, compacted fill within the excavation area was placed and compacted under the observation of our field representative. The limits of compacted fill are shown on the attached Plot Plan, Figure 2. The deepest portion of the excavation

was at a depth of approximately 15 feet. Fill soils were compacted in accordance with the project specifications to finish grade.

Field density tests were performed at frequent intervals to determine the degree of compaction being attained. In general, one field density determination was made for each 500 cubic yards of fill placed, or for each 2 vertical feet of fill placed. With the exception of the final series of tests, each field density test was taken at a depth of about 6 to 12 inches below the then-existing working surface of the fill.

The Sand Cone Method (ASTM Designation D-1556-90) was utilized for the field density determinations. Field density tests were taken at the approximate locations shown on the attached Plot Plan, Figure 2. The test results are shown on the attached tabulation entitled, "Field Density Test Results." This tabulation includes the approximate depth below adjacent grade at which each test was performed.

GRADING RESULTS

Field density tests were accepted only where the tests indicated that at least 90 percent of the maximum dry density had been obtained except in the upper 12 inches where 95 percent of the maximum dry density is required. Any areas in which tests were not acceptable were reworked until acceptable test results were obtained.

CONCLUSIONS AND RECOMMENDATIONS

Based on our observations and test results, backfill placement and compaction comply with the project specifications. The locations of all the backfill areas must be adequately surveyed for location, depth and elevation, so that the presence of the fill can be factored into future development schemes. This firm should be consulted regarding planned improvements in the area, so that appropriate recommendations may be presented.

-oOo-

The following documents are attached and complete this report:

- Site Location Map (Figure 1)
- Plot Plan (Figure 2)
- Tabulation of Field Density Test Results
- Appendix - Laboratory Compaction Tests

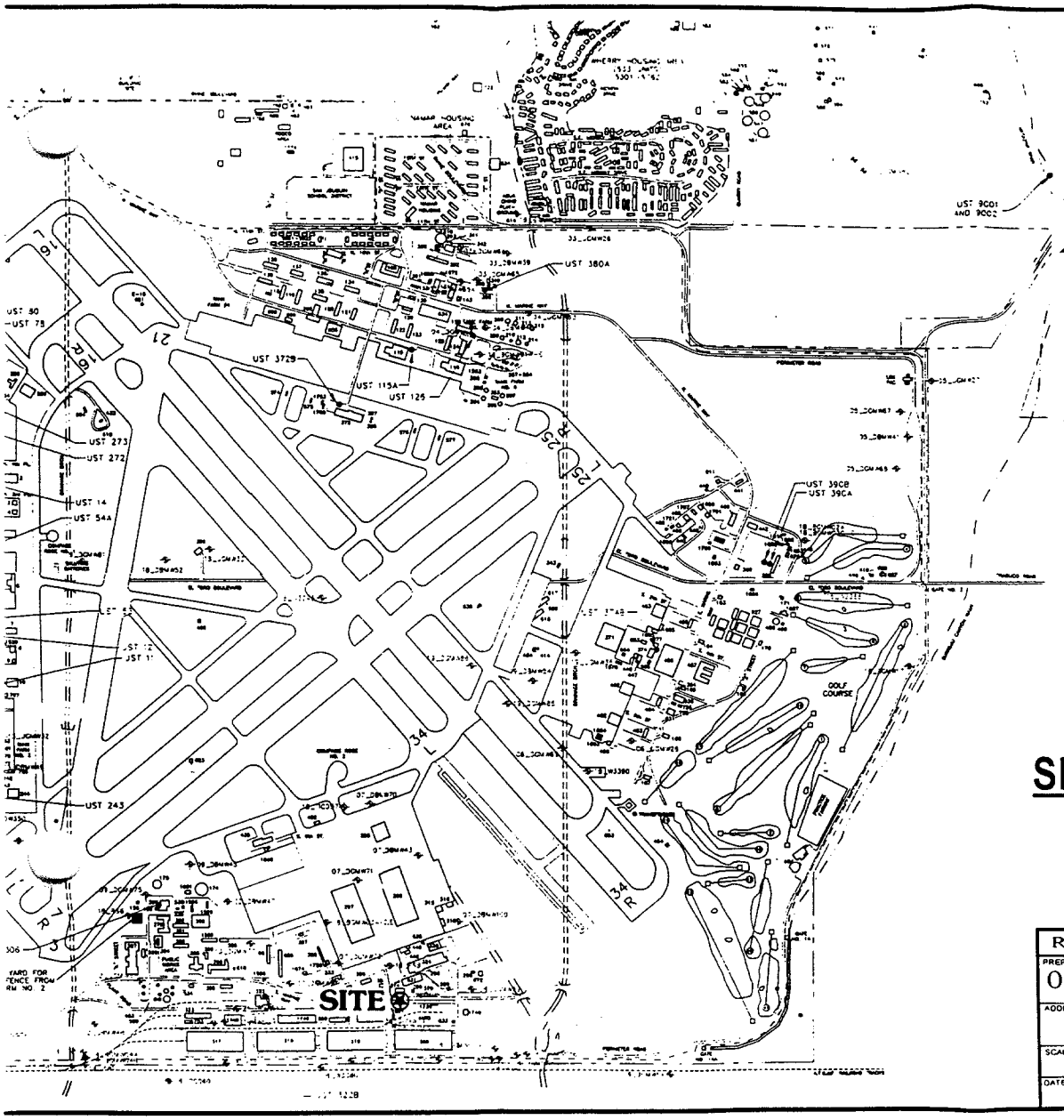
Respectfully submitted,

R. T. FRANKIAN & ASSOCIATES

Alan W. Rasplicka

by: Alan W. Rasplicka, P.E.
Project Civil Engineer

AWR/sjc(3)



REFERENCE:
STATION MAP DATED 4-30-97 BY OHM REMEDIATION SERVICES CORP.

LEGEND:

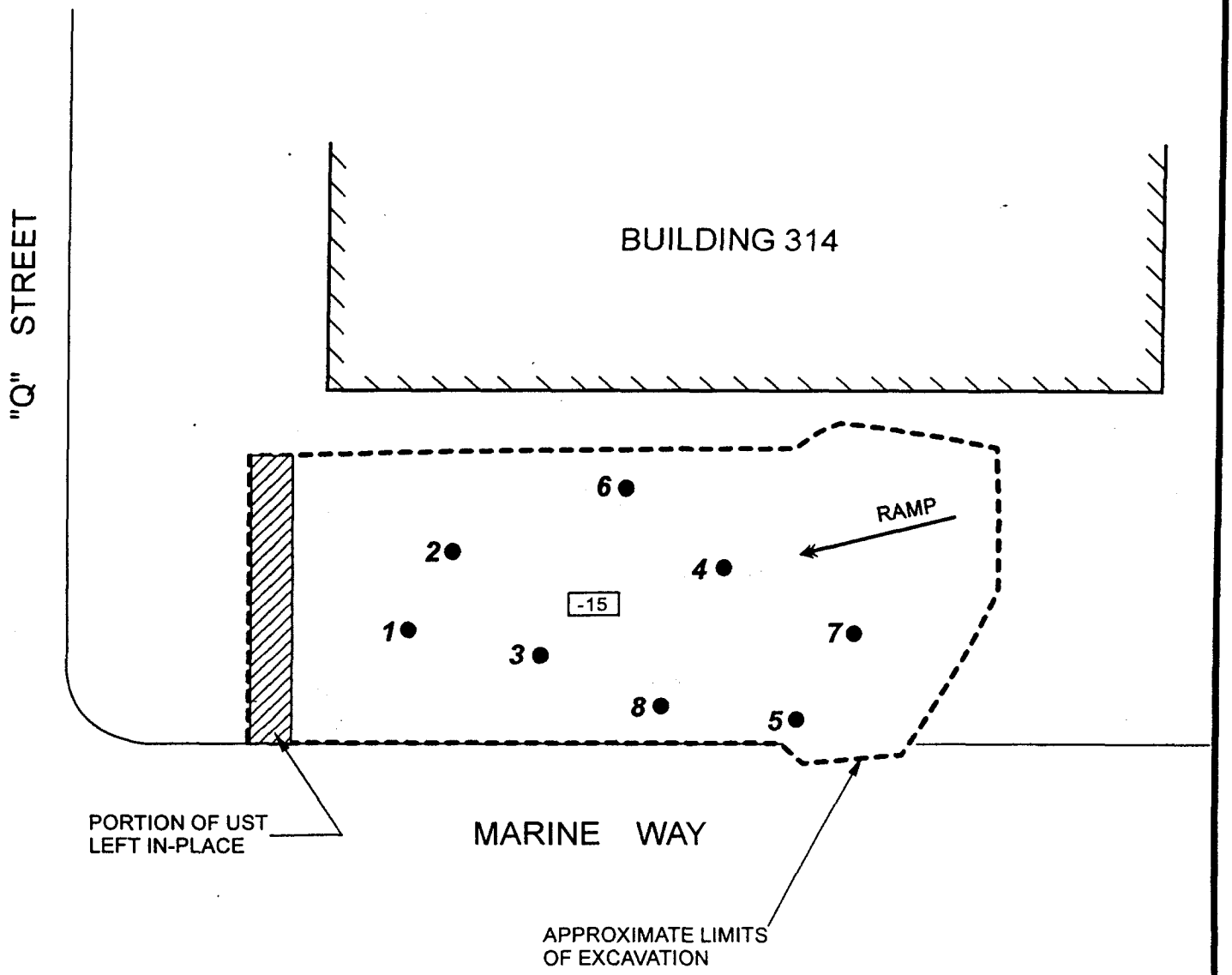
- ● APPROXIMATE LOCATION OF UST
- ⊕ EXISTING GROUNDWATER MONITORING WELL

0 1200 2400
SCALE IN FEET

SITE LOCATION MAP

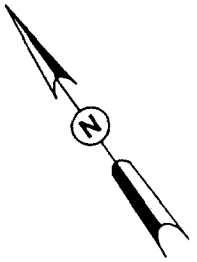
SITE 314

R.T. FRANKIAN & ASSOCIATES		
PREPARED FOR: OHM REMEDIATION SERVICES CORI		
ADDRESS: MCAS EL TORO, EL TORO, CALIFORNIA		
SCALE: 1" = 1200'	DRAWN BY: Mohammed	CHECKED BY: AWR
DATE: 12-2-97	FIGURE 1	JOB NO: 97-049-2



PLOT PLAN

SITE 314



LEGEND:

8 ● FIELD DENSITY TEST LOCATION AND NUMBER

-15 APPROXIMATE DEPTH OF EXCAVATION (feet).

R.T. FRANKIAN & ASSOCIATES		
PREPARED FOR OHM REMEDIATION SERVICES CORP.		
ADDRESS MCAS EL TORO EL TORO, CALIFORNIA		
SCALE 1" = 20'	DRAWN BY Mohammed	CHECKED BY AWR
DATE 12-2-97	FIGURE 2	JOB NO 97-049-20

TABULATION - FIELD DENSITY TEST RESULTS

Test No.	Date	Location	Depth	Field Dry Density, pcf	Field Moisture %	Maximum Dry Density, pcf	Percent Compaction
1	8-25-97	Site 314	-13	117	10	130	90
2	8-26-97	Site 314	-11	119	13	128	93
3	8-26-97	Site 314	-9	120	14	128	94
4	8-27-97	Site 314	-7	122	13	128	95
5	8-28-97	Site 314	-3.5	123	13	128	96
6	8-28-97	Site 314	-0.5	121	13	128	95
7	8-28-97	Site 314	-2	124	13	128	97
8	9-3-97	Site 314	-0.5	139	10	135	97

LABORATORY COMPACTION TESTS

The maximum dry density and optimum moisture content of each soil type utilized in the compacted fill were determined in the laboratory in accordance with ASTM Soil Compaction Method D-1557-91. The maximum densities of the soil samples were obtained on the sample portion passing the No. 4 sieve, and field density test results were adjusted, where required, for gravel content. The results of the laboratory compaction tests are as follows:

Soil Type	Soil Description and Classification	Maximum Dry Density (pcf)	Optimum Moisture Content
A	Dark gray sandy gravel (GP)	139	8.0%
B	Light to medium brown fine to medium silty sand with minor clay. (SM)	127	9.5%
C	Crushed gravel and sand soils mixture (SW/SP)	136	7.0%
D	Dark brown fine to medium sand with 1/4 inch gravel (SW/SP)	134	8.0%
E	Brown clayey silt (ML)	118	14.5%
F	Light brown sandy silt (SM)	128	12.0%
G	Silty fine to medium sand with 1/4 inch gravel (SW/SP)	132	8.5%
H	Dark brown sandy silt (ML)	130	11.5%
I	Light to dark brown fine clayey silt with sand (SM/ML)	126	11.0%
J	Brown silty sand w/some clay & gravel (SM/SC)	122	12.0%

Appendix K
Soil Boring Logs

Geologic Log/Well Construction 314-SB-01

Project EL TORO	Drilling Company GREG DRILLING		
Project Number 18609	Drill Rig B-53 LIMITED ACCESS	Begin Drilling 6/10/97	
Client SWDIV	Driller TOM	End Drilling 6/10/97	
Location MARINE CORPS AIR STATION, BUILDG 314	Drill Method HSA		
Geologist A. SIDDIQUI	Date Drilled 6/10/97	Initial: NOT ENCOUNTERED	TIME: -
Borehole Diameter 7-1/2 INCHES	Total Depth of Borehole 37 FEET bgs	Static: NOT ENCOUNTERED	TIME: -

DESCRIPTION	Depth (feet)	Soil Group	Graphic Log	Samples	PID/FID (ppm)	Blows/6 in.	Recovery (inches)	WELL CONSTRUCTION DETAIL
Top 5' hand augered.	0							
Silty sand (SM): Dark yellowish brown (10YR, 4/4), 70% fine to medium sand, 30% non to low plastic fines, slightly moist.	1	SM			0.0			
	2							
	3							
	4							
	5				6.0			
Silt (ML): Dark brown (10YR, 3/3), 90% low plastic fines, 10% fine sand, slightly moist.	6	ML						
	7							
Silty sand (SM): Dark yellowish brown (10YR, 4/4), 70% fine sand, 30% low plastic fines, slightly moist.	8							
	9	SM						
	10				5.6			
	11							
	12							
	13							
	14							
Silty sand (SM): Dark yellowish brown (10YR, 4/4), 85% fine to medium sand, 15% non-plastic fines, slightly moist. **Sample no: 18609-314-338 @ 15-15.5 feet.**	15				5.6			
	16							
	17							
	18							
Sand (SP): Yellowish brown (10YR, 5/4), 95% fine to medium sand, 5% non-plastic fines, slightly moist, trace fine rounded gravel 1/2" max.	19							
	20	SP			1.0			

OHM Remediation Services Corp.

NOTE: This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.

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Geologic Log of Well 314-SB-01

Project MCAS, EL TORO, BLDG 314 Project No. 18609

DESCRIPTION	Depth (feet)	Soil Group	Graphic Log	Samples	PID/FID (ppm)	Blows/6 In.	Recovery (6 inches)	WELL DETAIL
Sand (SP): Yellowish brown (10YR, 5/4), 95% fine to medium sand, 5% non-plastic fines, slightly moist, trace fine rounded gravel 1/2" max.	20	SP			5.0			
	21							
	22							
	23							
	24							
Sand (SP). Same as above.	25				5.9			
	26							
	27							
	28							
Silty sand (SM): Olive brown (2.5Y, 4/3), 75% fine to medium (mostly fine) sand, 25% non-plastic fines, slightly moist. **Sample no: 18609-314-339 @30-30.5 feet.**	29							
	30	SM			5.7			
	31							
	32							
	33							
	34							
Gravely sand (SP): Light olive brown (2.5Y, 5/3), 70% fine to medium sand, 30% fine to coarse sub-rounded gravel, 3/4" max, occasional cobble, trace non-plastic fines, slightly moist. Encounter refusal at 37' bgs.	35	SP			8.1			
	36							
	37							
	38							
	39							
	40							

OHM Remediation Services Corp.

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Geologic Log/Well Construction 314-SB-02

Project EL TORO	Drilling Company GREG DRILLING		
Project Number 18609	Drill Rig B-53 LIMITED ACCESS	Begin Drilling 6/10/97	
Client SWDIV	Driller TOM	End Drilling 6/10/97	
Location MARINE CORPS AIR STATION, BUILDG 314	Drill Method HSA		
Geologist A. SIDDIQUI	Date Drilled 6/10/97	Initial: NOT ENCOUNTERED	TIME: -
Borehole Diameter 7-1/2 INCHES	Total Depth of Borehole 41 FEET bgs	Static: NOT ENCOUNTERED	TIME: -

DESCRIPTION	Depth (feet)	Soil Group	Graphic Log	Samples	PID/FID (ppm)	Blows/6 in.	Recovery (inches)	WELL CONSTRUCTION DETAIL
Top 5' hand augered.	0							
Silty sand (SM): Yellow brown (10YR, 4/4), 70% fine sand, 30% low plastic fine, slightly moist.	1	SM						
	2							
	3							
	4							
Sandy silt (ML): Brown (10YR, 4/3), 80% low plastic fines, 20% fine sand, slightly moist.	5	ML			2.0			
	6							
	7							
	8							
	9							
Silty sand (SM): Dark yellowish brown (10YR, 3/6), 60% fine sand, 40% low plastic fines, slightly moist.	10	SM			4.0			
	11							
	12							
	13							
Silty sand (SM): Dark yellowish brown (10YR, 4/4), 85% fine to medium sand, 15% non plastic fines, trace fine sub-rounded gravel, slightly moist. **Sample no: 18609-314-340 @ 15-15.5 feet.**	14							
	15	SM			1.0			
	16							
	17							
	18							
	19							
	20							

OHM Remediation Services Corp.

NOTE: This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered

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Geologic Log of Well 314-SB-02

Project MCAS, EL TORO, BLDG 314 Project No. 18609

DESCRIPTION	Depth (feet)	Soil Group	Graphic Log	Samples	PID/FID (ppm)	Blows/6 In.	Recovery (6 inches)	WELL DETAIL
Silty sand (SM): Dark yellowish brown (10YR, 3/4), 70% fine to medium sand, 30% non plastic fines, slightly moist, micaceous.	20	SM			3.8			
	21							
@ 22 feet encounter gravel as mentioned by driller.	22	SP						
	23							
	24							
Sand (SP): Yellowish brown (10YR, 5/4) 80% fine to medium sand, 20% fine sub-rounded gravel, slightly moist.	25							
	26							
	27							
	28							
	29							
Sand (SP): Yellowish brown (10YR, 5/4) 95% fine to medium sand, 5% fine sub-rounded gravel, slightly moist.	30				5.6			
	31							
	32							
	33							
	34							
Sand (SP): Light olive brown (2.5Y, 5/3), 100% fine to medium sand, slightly moist.	35				7.0			
	36							
	37							
	38							
Gravely sand (SP): Light olive brown (2.5Y, 5/3), 80% fine to medium sand, 15% fine to coarse sub-rounded gravel, 5% non-plastic fines, slightly moist.	39							
	40							

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OHM Remediation Services Corp.

Geologic Log of Well 314-SB-02

Project MCAS, EL TORO, BLDG 314 Project No. 18609

DESCRIPTION	Depth (feet)	Soil Group	Graphic Log	Samples	PID/FID (ppm)	Blows/6 In.	Recovery (6 inches)	WELL DETAIL
Gravely sand (SP): Light olive brown (2.5Y, 5/3), 80% fine to medium sand, 15% fine to coarse sub-rounded gravel, 5% non-plastic fines, slightly moist. **Sample no: 18609-314-341 @ 40-40.5 feet.** Total depth= 41 feet.	40	SP						
	41							
	42							
	43							
	44							
	45							
	46							
	47							
	48							
	49							
	50							
	51							
	52							
	53							
	54							
	55							
	56							
	57							
	58							
	59							
	60							

OHM Remediation Services Corp.

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Geologic Log/Well Construction 314-SB-03

Project EL TORO	Drilling Company GREG DRILLING		
Project Number 18609	Drill Rig B-53 LIMITED ACCESS	Begin Drilling 6/11/97	
Client SWDIV	Driller TOM	End Drilling 6/11/97	
Location MARINE CORPS AIR STATION, BUILDG 314	Drill Method HSA		
Geologist A. SIDDIQUI	Date Drilled 6/10/97	Initial: NOT ENCOUNTERED	TIME: -
Borehole Diameter 6 INCHES / Total Depth of Borehole 42.5 FEET bgs	Static: NOT ENCOUNTERED	TIME: -	

DESCRIPTION	Depth (feet)	Soil Group	Graphic Log	Samples	PID/FID (ppm)	Blows/6 in.	Recovery (inches)	WELL CONSTRUCTION DETAIL
Top 5' hand augered.	0							
	1	SP						
	2							
	3							
Sand (SP). Yellowish brown (10YR, 5/4), 95% fine sand, 5% low plastic fine, slightly moist.	4							
	5				0.4			
Silty sand (SM). Dark yellowish brown (10YR, 4/4), 80% fine sand, 20% low plastic fine, slightly moist.	6	SM						
	7							
	8							
	9	ML						
Silt (ML). Yellowish brown (10YR, 3/4), 90% low plastic, 10% fine sand, slightly moist.	10				5.1			
	11							
	12							
	13							
	14	SP-SM						
Sand (SP-SM). Brown (7.5YR, 4/4), 90% fine to medium sand, 10% non-plastic fine, slightly moist.	15				2.7			
	16							
	17							
	18							
Sand (SP). Yellowish brown (10YR, 5/4), 95% fine to midium sand, 5% non-plastic fines, trace fine sub-rounded gravel, slightly moist.	19							
	20	SP						

OHM Remediation Services Corp.

NOTE: This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.

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Geologic Log of Well 314-SB-03

Project MCAS, EL TORO, BLDG 314 Project No. 18609

DESCRIPTION	Depth (feet)	Soil Group	Graphic Log	Samples	PID/FID (ppm)	Blows/6 In.	Recovery (6 inches)	WELL DETAIL
Sand (SP): Yellowish brown (10YR, 5/4), 95% fine to midium sand, 5% non-plastic fines, trace fine sub-rounded gravel, slightly moist.	20	SP			1.2			
	21							
	22							
	23							
	24							
	25							
Silt (ML): Brown (7.5YR, 4/4), 95% low plastic fines, 5% fine sand, slightly moist. **Sample no: 18609-314-344 @25.5-26 feet.**	26	ML			2.0			
	27							
	28							
Gravely sand (SP-SM): Yellowish brown (10YR, 5/4), 70% fine to medium sand, 20% fine sub-angular to sub-rounded gravel, 10 % non-plastic fines, slightly moist.	29	SP/ SM						
	30							
Silty sand (SM): Dark yellowish brown (10YR, 4/4), 70% fine sand, 30% low plastic fines, slightly moist.	31	SM						
	32							
Encounter gravel at 32 feet as dictated by driller	33							
	34							
No recovery.	35				0.0			
	36							
	37							
	38							
	39							
No recovery.	40				0.0			

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OHM Remediation Services Corp.

Geologic Log of Well 314-SB-03

Project MCAS, EL TORO, BLDG 314 Project No. 18609

DESCRIPTION	Depth (feet)	Soil Group	Graphic Log	Samples	PID/FID (ppm)	Blows/6 In.	Recovery (6 inches)	WELL DETAIL
Silty sand (SP). Dark yellowish brown (10YR, 4/6), 75% fine sand, 25% low plastic fine, slightly moist. **Sample no: 18609-314-345 @ 41.5-42 feet.** Total depth= 42.5 feet.	40	SM						
	41							
	42							
	43							
	44							
	45							
	46							
	47							
	48							
	49							
	50							
	51							
	52							
	53							
	54							
	55							
	56							
	57							
	58							
	59							
	60							

OHM Remediation Services Corp.

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Geologic Log/Well Construction 314-SB-04

Project EL TORO	Drilling Company GREG DRILLING		
Project Number 18609	Drill Rig B-53 LIMITED ACCESS	Begin Drilling 6/11/97	
Client SWDIV	Driller TOM	End Drilling 6/11/97	
Location MARINE CORPS AIR STATION, BUILDG 314	Drill Method HSA		
Geologist A. SIDDIQUI	Date Drilled 6/11/97	Initial: NOT ENCOUNTERED	TIME: -
Borehole Diameter 6 INCHES	Total Depth of Borehole 41 FEET bgs	Static: NOT ENCOUNTERED	TIME: -

DESCRIPTION	Depth (feet)	Soil Group	Graphic Log	Samples	PID/FID (ppm)	Blows/6 in.	Recovery (inches)	WELL CONSTRUCTION DETAIL
Top 5' hand augered.	0							
	1							
	2							
	3							
	4							
Silty sand (SM): Yellowish brown (10YR, 5/4), 80% fine to medium sand, 20% non-plastic fines, trace fine sub-rounded gravel, slightly moist.	5	SM			3.0			
	6							
	7							
	8							
	9							
Silt (ML): Dark yellowish brown (10YR, 4/4), 90% low plastic fines, 10% fine sand, slightly moist.	10	ML			7.8			
	11							
	12							
	13							
	14	SM						
Silty sand (SM). Dark yellowish brown (10YR, 4/4), 80% fine to medium sand, 20% non-plastic fines, slightly moist.	15				5.4			
	16	SP						
	17							
	18							
	19							
	20				13.1			

OHM Remediation Services Corp.

NOTE: This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.

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Geologic Log of Well 314-SB-04

Project MCAS, EL TORO, BLDG 314 Project No. 18609

DESCRIPTION	Depth (feet)	Soil Group	Graphic Log	Samples	PID/FID (ppm)	Blows/6 In.	Recovery (6 inches)	WELL DETAIL
	20	SP						
	21							
Sandy silt (ML): Dark yellowish brown (10YR 3/6), 65% low plastic fines, 35% fine sand, slightly moist.	22	ML						
	23							
	24							
Gravely sand (SP): Yellowish brown (10YR, 5/4), 80% fine gravel, 15% fine gravel, 5% non-plastic fines, slightly moist. **Sample no: 18609-314-346 @ 25-25.5 feet.**	25	SP						
	26							
Dark fine gravel (SM): Olive brown (2.5Y, 4/3), 80% fine to medium sand, 20% non-plastic fines, slightly moist.	27	SM						
	28							
	29							
	30	SP/ SM			9.9			
Gravely sand (SP-SM): Olive brown (2.5Y, 4/3), 80% fine to medium sand, 15% fine to coarse sub-rounded sub-angular gravel, 5% non-plastic fines, slightly moist.	31							
	32							
	33							
	34							
Gravely sand (SP-SM): Brown (10YR, 5/3), 70% fine to medium sand, 20% fine to coarse sub-rounded to sub-angular gravel, 10% non-plastic fines, slightly moist.	35	SP/ SM			3.1			
	36							
	37							
	38							
	39							
	40				0.0			

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Geologic Log of Well 314-SB-04

Project MCAS, EL TORO, BLDG 314 Project No. 18609

DESCRIPTION	Depth (feet)	Soil Group	Graphic Log	Samples	PID/FID (ppm)	Blows/6 In.	Recovery (6 inches)	WELL DETAIL
Gravely sand (SP-SM): Same as above. **Sample no: 18609-314-347 @40-40.5 feet.** **Sample no: 18609-314-348 @40.5-41 feet.** Total depth= 41 feet.	40	SP-SM						
	41							
	42							
	43							
	44							
	45							
	46							
	47							
	48							
	49							
	50							
	51							
	52							
	53							
	54							
	55							
	56							
	57							
	58							
	59							
	60							

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Geologic Log/Well Construction 314-SB-05

Project EL TORO	Drilling Company BC2		
Project Number 18609	Drill Rig CME 85	Begin Drilling -	
Client SWDIV	Driller Steve	End Drilling -	
Location MARINE CORPS AIR STATION, BUILDG 314	Drill Method HSA		
Geologist A. SIDDIQUI	Date Drilled 9/16/97	Initial: NOT ENCOUNTERED	TIME: -
Borehole Diameter 8 INCHES	Total Depth of Borehole 40.5 FEET bgs	Static: NOT ENCOUNTERED	TIME: -

DESCRIPTION	Depth (feet)	Soil Group	Graphic Log	Samples	PID/FID (ppm)	Blows/6 in.	Recovery (inches)	WELL CONSTRUCTION DETAIL
Top 5' hand augered.	0							
	1	SM						
	2							
Silty gravely sand (SM): Dark olive brown (2.5YR, 3/3), 60% fine sand, 20% non-plastic fines, 20% fine sand, angular gravel, slightly moist.	3							
	4							
	5							
	6							
	7							
	8							
	9							
Silty sand (SM). Dark yellowish brown (2.5Y, 3/3), 60% fine sands, 35% non-plastic fines, 5% fine sub-angular gravel, slightly moist, medium dense.	10				0.0	10	4	
	11					13	6	
						15	6	
	12							
	13							
	14							
Sand (SP-SM): Dark yellowish brown (10YR, 3/6), 90% fine to medium sand, 10% non-plastic fines, slightly moist, medium dense.	15				0.0	8	6	
						12	6	
Sample no: 18609-314-554 @ 15-15.5 feet.	16	SP/SM				13	6	
	17							
	18							
	19				8	9	6	
	20				13	10	6	

OHM Remediation Services Corp.

NOTE: This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.

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Geologic Log of Well 314-SB-05

Project MCAS, EL TORO, BLDG 314 Project No. 18609

DESCRIPTION	Depth (feet)	Soil Group	Graphic Log	Samples	PID/FID (ppm)	Blows/6 In.	Recovery (6 inches)	WELL DETAIL
	20	SP/SM				12	6	
Sand (SP-SM): Dark yellowish brown (10YR 4/6), 90% fine to medium sand, 10% non-plastic fines, slightly moist, medium dense.	21							
	22							
	23							
Sand (SP-SM): Yellowish brown (10YR, 5/4), Same as above, trace fine sub-rounded gravel. **Sample no: 18609-314-555 @ 25-25.5 feet.**	24				0.0	8	3	
						10	6	
	25					13	6	
Silty sand (SM): Dark yellowish brown (10YR, 4/4), 80% fine sand, 20% non-pastic fine, slightly moist, medium dense, well sorted	26	SM						
	27							
	28							
	29				0.0	9	2	
Sand (SP): Light yellowish brown (10YR, 6/4), 95% fine to medium sand, 5% non-plastic fien, slightly moist, medium dense.	30	SP				10	6	
						11	6	
	31							
	32							
	33							
	34					10	3	
Sand (SP): Light olive brown (2.5Y, 5/3), Same as above, trace fine subrounded gravel, moist. **Sample no: 18609-314-557 @ 35-35.5 feet.**	35					12	6	
						15	6	
	36							
	37							
	38							
Sand (SP): Yellowish brown (10YR, 5/4), Same as above, no gravel.	39					9	4	
	40					13	6	

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Geologic Log of Well 314-SB-05

Project MCAS, EL TORO, BLDG 314 Project No. 18609

DESCRIPTION	Depth (feet)	Soil Group	Graphic Log	Samples	PID/FID (ppm)	Blows/6 In.	Recovery (6 inches)	WELL DETAIL
Sand (SP): Yellowish brown (10YR, 6/4), 95% fine to medium sand, 5% non-plastic fine, slightly moist, medium dense. **Sample no: 18609-314-557 @40-40.5 feet.** Total depth= 40.5 feet	40	SP				14	6	
	41							
	42							
	43							
	44							
	45							
	46							
	47							
	48							
	49							
	50							
	51							
	52							
	53							
	54							
	55							
	56							
	57							
	58							
	59							
	60							

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OHM Remediation Services Corp.

Geologic Log/Well Construction 314-SB-06

Project EL TORO	Drilling Company BC2		
Project Number 18609	Drill Rig CME 85	Begin Drilling -	
Client SWDIV	Driller Steve	End Drilling -	
Location MARINE CORPS AIR STATION, BUILDG 314	Drill Method HSA		
Geologist A. SIDDIQUI	Date Drilled 9/16/97	Initial: NOT ENCOUNTERED	TIME: -
Borehole Diameter 8 INCHES	Total Depth of Borehole 40.5 FEET bgs	Static: NOT ENCOUNTERED	TIME: -

DESCRIPTION	Depth (feet)	Soil Group	Graphic Log	Samples	PID/FID (ppm)	Blows/6 in.	Recovery (inches)	WELL CONSTRUCTION DETAIL
Top 5' hand augered.	0							
	1	SM						
	2							
	3							
Silty sand (SM): Dark grayish brown (2.5Y, 4/2), 70% fine sand, 25% non-plastic fine, 5% fine sub-rounded gravel, slightly moist.	4	SM						
	5							
	6							
	7							
	8							
Silty sand (SM): Olive brown (2.5Y, 4/3), 60% fine sand, 40% non-plastic fines, trace sub-rounded to sub-angular gravel, slightly moist, medium dense.	9	SM			0.0	8	5	
	10					10	6	
						12	6	
	11							
	12							
	13							
Silty sand (SM): Dark yellowish brown (10YR, 3/6), 70% fine sand, 30% non-plastic fines, slightly moist, medium dense, discolored at places, HC odor.	14	SM			15	9	6	
						11	6	
Sample no: 18609-314-558 @ 15-15.5 feet.	15					13	6	
	16							
	17							
	18							
Sand (SP-SM): Dark yellowish brown (10YR, 4/4), 90% fine medium sand, 10% non-plastic fines, slightly moist, medium dense.	19	SP/SM			0.0	8	6	
	20					10	6	

OHM Remediation Services Corp.

NOTE: This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.

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Geologic Log of Well 314-SB-06

Project MCAS, EL TORO, BLDG 314 Project No. 18609

DESCRIPTION	Depth (feet)	Soil Group	Graphic Log	Samples	PID/FID (ppm)	Blows/6 In.	Recovery (6 inches)	WELL DETAIL
	20	SP/ SM				15	6	
	21							
	22							
	23							
Sand (SP): Light yellowish brown (10YR, 6/4), 90% fine to medium sand, 5% non-plastic fines, 5% fine sub-rounded gravel, slightly moist, medium dense. **Sample no: 18609-314-559 @ 25-25.5 feet.**	24	SP			0.0	10	4	
						12	6	
	25					15	6	
	26							
	27							
	28							
Same as above, no gravel.	29	SP			0.0	9	3	
						12	6	
	30					14	6	
	31							
	32							
	33							
	34				0.0	12	2	
Same as above: Light olive brown (2.5Y, 5/4), **Sample no: 18609-314-560 @ 35-35.5 feet.**	35	SP				13	6	
						14	6	
	36							
	37							
	38							
Sand (SP): Light olive brown (2.5Y, 5/4), 85% fine to medium sand, 10% fine sub-rounded gravel, slightly moist, medium dense.	39				0.0	15	0.0	
	40					21	6	

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Geologic Log of Well 314-SB-06

Project MCAS, EL TORO, BLDG 314 Project No. 18609

DESCRIPTION	Depth (feet)	Soil Group	Graphic Log	Samples	PID/FID (ppm)	Blows/6 In.	Recovery (6 inches)	WELL DETAIL
Sand (SP): Light olive brown (2.5Y, 5/4), 85% fine to medium sand, 10% fine sub-rounded gravel, lightly moist, medium dense. **Sample no: 18609-314-561 @40-40.5 feet.** Total depth= 40.5 feet.	40	SP				27	6	
	41							
	42							
	43							
	44							
	45							
	46							
	47							
	48							
	49							
	50							
	51							
	52							
	53							
	54							
	55							
	56							
	57							
	58							
	59							
	60							

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Geologic Log/Well Construction 314-SB-07

Project EL TORO	Drilling Company BC2		
Project Number 18609	Drill Rig CME 85	Begin Drilling -	
Client SWDIV	Driller Steve	End Drilling -	
Location MARINE CORPS AIR STATION, BUILDG 314	Drill Method HSA		
Geologist A. SIDDIQUI	Date Drilled 9/16/97	Initial: NOT ENCOUNTERED	TIME: -
Borehole Diameter 8 INCHES	Total Depth of Borehole 40 FEET bgs	Static: NOT ENCOUNTERED	TIME: -

DESCRIPTION	Depth (feet)	Soil Group	Graphic Log	Samples	PID/FID (ppm)	Blows/6 in.	Recovery (inches)	WELL CONSTRUCTION DETAIL
Top 5' hand augered.	0							
	1							
	2							
	3							
Silty gravely sand (SM): Olive brown (2.5Y, 4/3), 60% fine sand, 20% non-plastic fines, 20% fine sub-angular to sub-rounded gravel, slightly moist.	4	SM						
	5							
	6							
	7							
	8							
Silty sand (SM): Olive brown (2.5Y, 4/4), 65% fine sand, 30% non-plastic, 5% fine sub-rounded gravel, slightly moist, medium dense.	9	SM			0.0	9	6	
	10					10	6	
						12	6	
	11							
	12							
	13							
Sand (SP-SM). Dark yellowish brown (10YR, 4/6), 90% fine sand, 10% non-plastic fine, slightly moist, medium dense, well sorted.	14	SP/ SM			0.0	8	6	
Sample no: 18609-314-562 @ 15-15.5 feet.	15					9	6	
						11	6	
	16							
	17							
	18							
	19				0.0	8	6	
	20	ML				10	6	

OHM Remediation Services Corp.

NOTE: This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.

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Geologic Log of Well 314-SB-07

Project MCAS, EL TORO, BLDG 314 Project No. 18609

DESCRIPTION	Depth (feet)	Soil Group	Graphic Log	Samples	PID/FID (ppm)	Blows/6 In.	Recovery (6 inches)	WELL DETAIL
	20					12	6	
Sandy silt (ML): Dark yellowish brown (10YR, 3/4), 75% low plastic fines, 25% fine sand, slightly moist, very stiff.	21	ML						
	22							
	23							
Sand (SP): Yellowish brown (10YR, 5/4), 95% fine to medium sand, 5% non-plastic fines, slightly moist, medium dense.	24	SP			0.0	10		
						11		
	25					13		
Silty sand (SM): Dark olive brown (2.5Y, 3/3), 80% fine to medium sand, 20% non-plastic fine, slightly moist, medium dense.	26	SM						
	27							
	28							
		SP						
Sand (SP): Light yellowish brown (2.5Y, 6/3), 95% fine to medium sand, 5% non-plastic fines, trace fine sub-rounded gravel, slightly moist, medium dense.	29				0.0	10	0.0	
	30					13	6	
						14	6	
	31							
	32							
	33							
	34				0.0	11		
Same as above						12		
Sample no: 18609-314-564 @ 35-35.5 feet.	35					15		
	36							
	37							
	38							
Sand (SP): Yellowish brown (10YR, 5/4), Same as above, 80% fine to medium sand, 20% fine sub-rounded gravel, dense.	39				0.0	17	3	
Sample no: 18609-314-565 @ 39.5-40 feet.	40					50	6	

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