CASE NARRATIVE

There are no anomalies associated with this report.

If you have any questions, please feel free to call me at (714) 258-8610 extension 325.

Sincerely,

Maria O. Friedman
Project Manager

cc: Project File

SUBCONTRACT ORDER

EnviroMatrix Analytical, Inc.

0312048

PO# 03820
531050383

SENDING LABORATORY:

EnviroMatrix Analytical, Inc.
4340 Viewridge Ave., Ste. A
San Diego, CA 92123
Phone: (858) 560-7717
Fax: (858) 560-7763
Project Manager: Roger Lahr

RECEIVING LABORATORY:

STL/ Severn Trent Services-Santa Ana
1721 South Grand Avenue
Santa Ana, California 92705
Phone :(714) 258-8610
Fax: (714) 258-0921

*Normal TAT *Please reference WO#0312048 in report
*Please sign and fax back

Analysis	Due	Expires	Laboratory ID	Comments
Sample ID: AMW-1 Probe 15 3065	**Air**	**Sampled:12/01/03 10:00**	[redacted]	
ASTM-D1946	[redacted]	12/31/03 10:00		
TO-15, VOCs in Air	[redacted]	12/15/03 10:00		
Containers Supplied:				
Summa Canister (A)				
Sample ID: AMW-2 Probe 7 3141	**Air**	**Sampled:12/01/03 09:40**	[redacted]	
ASTM-D1946	[redacted]	12/31/03 09:40		
TO-15, VOCs in Air	[redacted]	12/15/03 09:40		
Containers Supplied:				
Summa Canister (A)				
Sample ID: AMW-3 Well 80 3352	**Air**	**Sampled:12/01/03 11:46**	[redacted]	
ASTM-D1946	[redacted]	12/31/03 11:46		
TO-15, VOCs in Air	[redacted]	12/15/03 11:46		
Containers Supplied:				
Summa Canister (A)				
Sample ID: AMW-4 3047	**Air**	**Sampled:12/01/03 10:40**	[redacted]	
ASTM-D1946	[redacted]	12/31/03 10:40		
TO-15, VOCs in Air	[redacted]	12/15/03 10:40		
Containers Supplied:				
Summa Canister (A)				
Sample ID: AMW-5 Probe 11	**Air**	**Sampled:12/01/03 10:15**	[redacted]	
ASTM-D1946	[redacted]	12/31/03 10:15		
TO-15, VOCs in Air	[redacted]	12/15/03 10:15		
Containers Supplied:				
Summa Canister (A)				

Released By	Date	Received By	Date
Michael Sandulak	12/3/03	FedEx	
Fed Ex		[signature]	12/4/03 10:30
Released By	Date	Received By	Date

SEVERN TRENT STL

CANISTER FIELD DATA RECORD

CLIENT: Enviromatrix Analytical Inc.
CANISTER SERIAL #: 3265
DATE CLEANED: 10-30-03A
CLIENT SAMPLE #:
SITE LOCATION:

VFR ID:
Duration of comp. : hrs. / mins.
Flow setting: ml/min
Initials:

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		30"	11-11-03	SL
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (PSIA)	13.60	12-6-03	
FINAL PRESSURE (PSIA)	23.07	12-6-03	

Pressurization Gas: N_2

COMMENTS:

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 Min.	316 – 333
30 Min.	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

SEVERN TRENT STL

CANISTER FIELD DATA RECORD

CLIENT: Envirematrix Analytical Inc.
CANISTER SERIAL #: 3141
DATE CLEANED: 10-30-03A
CLIENT SAMPLE #:
SITE LOCATION:

VFR ID:
Duration of comp. : hrs / mins.
Flow setting: ml/min
Initials:

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		30"	11-11-03	SL
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY CANISTER PRESSURIZATION

INITIAL VACUUM (PSIA)	13.13	12.6.3	–
FINAL PRESSURE (PSIA)	23.04	12-6-3	–

Pressurization Gas: N_2

COMMENTS:

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 Min.	316 – 333
30 Min.	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

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SEVERN TRENT STL

CANISTER FIELD DATA RECORD

CLIENT: Enviromatrix Analytical
CANISTER SERIAL #: 5352
DATE CLEANED: 10-27-03A
CLIENT SAMPLE #:
SITE LOCATION:

VFR ID:
Duration of comp. : hrs. mins.
Flow setting: ml/min
Initials:

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		30"	11-24-03	SL
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (PSIA)	14.06	12-6-3	m
FINAL PRESSURE (PSIA)	23.22	12-6-3	—

Pressurization Gas: N_2

COMMENTS:

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 Min.	316 – 333
30 Min.	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

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SEVERN TRENT STL

CANISTER FIELD DATA RECORD

CLIENT: Enviromatrix Analytical
CANISTER SERIAL #: 3047
DATE CLEANED: 10-27-03A
CLIENT SAMPLE #:
SITE LOCATION:

VFR ID:
Duration of comp. : hrs. mins.
Flow setting: ml/min
Initials:

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK	[redacted]	30"	11-24-03	SL
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (PSIA)	14.16	12-5-3	[illegible]
FINAL PRESSURE (PSIA)	23.24	12-5-3	[illegible]

Pressurization Gas: N_2

COMMENTS:

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 Min.	316 – 333
30 Min.	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

SEVERN TRENT STL

CANISTER FIELD DATA RECORD

CLIENT: Environmatrix Analytical
CANISTER SERIAL #: 3318
DATE CLEANED: 10-27-03A
CLIENT SAMPLE #:
SITE LOCATION:

VFR ID:
Duration of comp. : hrs. mins.
Flow setting: ml/min
Initials:

READING	TIME	Vac. (Inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		30"	11-24-03	SL
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (PSIA)	13.74	12-6-3	[illegible]
FINAL PRESSURE (PSIA)	23.57	12-6-3	[illegible]

Pressurization Gas: N_2

COMMENTS:

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 Min.	316 – 333
30 Min.	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

SEVERN TRENT STL

Analytical Report

ANALYTICAL REPORT

PROJECT NO. WO# 0312048

SAN DIEGO

Lot #: E3L050383

Roger Lahr

EnviroMatrix Analytical Inc

SEVERN TRENT LABORATORIES, INC.

Maria Friedman
Project Manager

December 23, 2003

EXECUTIVE SUMMARY - Detection Highlights

E3L050383

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
AMW-1 PROBE 15 3065 12/01/03 10:00 001				
Carbon dioxide	3.5	0.017	%(v/v)	ASTM D1946
Oxygen	17	0.17	%(v/v)	ASTM D1946
Nitrogen	80	1.7	%(v/v)	ASTM D1946
Methane	0.16	0.00034	%(v/v)	ASTM D1946
Acetone	4.7	0.80	ppb(v/v)	EPA-2 TO-15
Benzene	0.27	0.20	ppb(v/v)	EPA-2 TO-15
2-Butanone (MEK)	1.1	1.0	ppb(v/v)	EPA-2 TO-15
Chloroform	0.24	0.20	ppb(v/v)	EPA-2 TO-15
Dichlorodifluoromethane	210	1.7	ppb(v/v)	EPA-2 TO-15
1,2-Dichloro-1,1,2,2-tetrafluoroethane	8.4	0.20	ppb(v/v)	EPA-2 TO-15
Ethylbenzene	0.50	0.20	ppb(v/v)	EPA-2 TO-15
4-Ethyltoluene	0.51	0.40	ppb(v/v)	EPA-2 TO-15
Methylene chloride	0.23	0.20	ppb(v/v)	EPA-2 TO-15
Tetrachloroethene	38	0.20	ppb(v/v)	EPA-2 TO-15
Toluene	3.5	0.30	ppb(v/v)	EPA-2 TO-15
Trichloroethene	2.9	0.20	ppb(v/v)	EPA-2 TO-15
Trichlorofluoromethane	1.7	0.40	ppb(v/v)	EPA-2 TO-15
1,2,4-Trimethylbenzene	1.0	0.40	ppb(v/v)	EPA-2 TO-15
Vinyl chloride	0.23	0.20	ppb(v/v)	EPA-2 TO-15
Xylenes (total)	3.5	0.50	ppb(v/v)	EPA-2 TO-15
AMW-2 PROBE 7 3141 12/01/03 09:40 002				
Carbon dioxide	1.5	0.018	%(v/v)	ASTM D1946
Oxygen	20	0.18	%(v/v)	ASTM D1946
Nitrogen	79	1.8	%(v/v)	ASTM D1946
Acetone	8.0	0.80	ppb(v/v)	EPA-2 TO-15
2-Butanone (MEK)	2.3	1.0	ppb(v/v)	EPA-2 TO-15
Chloroform	0.30	0.20	ppb(v/v)	EPA-2 TO-15
Dichlorodifluoromethane	1.1	0.20	ppb(v/v)	EPA-2 TO-15
1,2-Dichloro-1,1,2,2-tetrafluoroethane	3.2	0.20	ppb(v/v)	EPA-2 TO-15
Ethylbenzene	0.67	0.20	ppb(v/v)	EPA-2 TO-15
Toluene	7.7	0.30	ppb(v/v)	EPA-2 TO-15
Xylenes (total)	3.5	0.50	ppb(v/v)	EPA-2 TO-15
AMW-3 WELL 80 3352 12/01/03 11:46 003				
Carbon dioxide	8.5	0.016	%(v/v)	ASTM D1946
Oxygen	14	0.16	%(v/v)	ASTM D1946
Nitrogen	69	1.6	%(v/v)	ASTM D1946
Methane	7.4	0.00033	%(v/v)	ASTM D1946

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

B3L050383

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
AMW-3 WELL 80 3352 12/01/03 11:46 003				
Acetone	110	33	ppb(v/v)	EPA-2 TO-15
Benzene	19	6.6	ppb(v/v)	EPA-2 TO-15
Chlorobenzene	11	6.6	ppb(v/v)	EPA-2 TO-15
Chloroform	9.3	6.6	ppb(v/v)	EPA-2 TO-15
1,4-Dichlorobenzene	120	6.6	ppb(v/v)	EPA-2 TO-15
Dichlorodifluoromethane	410	6.6	ppb(v/v)	EPA-2 TO-15
cis-1,2-Dichloroethene	7.7	6.6	ppb(v/v)	EPA-2 TO-15
1,2-Dichloro-1,1,2,2-tetrafluoroethane	120	6.6	ppb(v/v)	EPA-2 TO-15
Ethylbenzene	250	6.6	ppb(v/v)	EPA-2 TO-15
4-Ethyltoluene	75	6.6	ppb(v/v)	EPA-2 TO-15
Toluene	39	6.6	ppb(v/v)	EPA-2 TO-15
1,2,4-Trimethylbenzene	120	6.6	ppb(v/v)	EPA-2 TO-15
1,3,5-Trimethylbenzene	33	6.6	ppb(v/v)	EPA-2 TO-15
Vinyl chloride	36	6.6	ppb(v/v)	EPA-2 TO-15
Xylenes (total)	290	6.6	ppb(v/v)	EPA-2 TO-15
AMW-4 3047 12/01/03 10:40 004				
Carbon dioxide	0.034	0.016	%(v/v)	ASTM D1946
Oxygen	22	0.16	%(v/v)	ASTM D1946
Nitrogen	79	1.6	%(v/v)	ASTM D1946
Acetone	7.9	0.80	ppb(v/v)	EPA-2 TO-15
Benzene	2.2	0.20	ppb(v/v)	EPA-2 TO-15
2-Butanone (MEK)	3.8	1.0	ppb(v/v)	EPA-2 TO-15
Chloromethane	0.57	0.40	ppb(v/v)	EPA-2 TO-15
Dichlorodifluoromethane	0.64	0.20	ppb(v/v)	EPA-2 TO-15
Ethylbenzene	0.29	0.20	ppb(v/v)	EPA-2 TO-15
Methylene chloride	0.22	0.20	ppb(v/v)	EPA-2 TO-15
Tetrachloroethene	1.0	0.20	ppb(v/v)	EPA-2 TO-15
Toluene	5.9	0.30	ppb(v/v)	EPA-2 TO-15
Xylenes (total)	1.2	0.50	ppb(v/v)	EPA-2 TO-15
AMW-5 PROBE 11 12/01/03 10:15 005				
Carbon dioxide	19	0.017	%(v/v)	ASTM D1946
Oxygen	1.1	0.17	%(v/v)	ASTM D1946
Nitrogen	63	1.7	%(v/v)	ASTM D1946
Methane	17	0.00034	%(v/v)	ASTM D1946
Acetone	800	57	ppb(v/v)	EPA-2 TO-15
Benzene	48	11	ppb(v/v)	EPA-2 TO-15
2-Butanone (MEK)	66	57	ppb(v/v)	EPA-2 TO-15
1,4-Dichlorobenzene	18	11	ppb(v/v)	EPA-2 TO-15

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

E3L050383

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
AMW-5 PROBE 11 12/01/03 10:15 005				
Dichlorodifluoromethane	2300	11	ppb(v/v)	EPA-2 TO-15
cis-1,2-Dichloroethene	290	11	ppb(v/v)	EPA-2 TO-15
trans-1,2-Dichloroethene	20	11	ppb(v/v)	EPA-2 TO-15
1,2-Dichloro-1,1,2,2-tetrafluoroethane	360	11	ppb(v/v)	EPA-2 TO-15
Ethylbenzene	190	11	ppb(v/v)	EPA-2 TO-15
4-Ethyltoluene	72	11	ppb(v/v)	EPA-2 TO-15
Methylene chloride	25	11	ppb(v/v)	EPA-2 TO-15
Tetrachloroethene	840	11	ppb(v/v)	EPA-2 TO-15
Toluene	83	11	ppb(v/v)	EPA-2 TO-15
Trichloroethene	230	11	ppb(v/v)	EPA-2 TO-15
Trichlorofluoromethane	100	11	ppb(v/v)	EPA-2 TO-15
1,2,4-Trimethylbenzene	67	11	ppb(v/v)	EPA-2 TO-15
1,3,5-Trimethylbenzene	48	11	ppb(v/v)	EPA-2 TO-15
Vinyl chloride	120	11	ppb(v/v)	EPA-2 TO-15
Xylenes (total)	360	11	ppb(v/v)	EPA-2 TO-15

ANALYTICAL METHODS SUMMARY

E3L050383

PARAMETER	ANALYTICAL METHOD
Fixed Gases	ASTM D1946
Volatile Organics by TO15	EPA-2 TO-15

References:

ASTM Annual Book Of ASTM Standards.

EPA-2 "Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air", EPA-625/R-96/010b, January 1999.

SAMPLE SUMMARY

E3L050383

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
F55QT	001	AMW-1 PROBE 15 3065	12/01/03	10:00
F55QX	002	AMW-2 PROBE 7 3141	12/01/03	09:40
F55Q1	003	AMW-3 WELL 80 3352	12/01/03	11:46
F55Q3	004	AMW-4 3047	12/01/03	10:40
F55Q5	005	AMW-5 PROBE 11	12/01/03	10:15

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

ENVIROMATRIX ANALYTICAL INC

Client Sample ID: AMW-1 PROBE 15 3065

GC/MS Volatiles

Lot-Sample #...: E3L050383-001 Work Order #...: F55QT1AC Matrix.....: AIR
Date Sampled...: 12/01/03 Date Received..: 12/04/03
Prep Date.....: 12/09/03 Analysis Date..: 12/09/03
Prep Batch #...: 3344425
Dilution Factor: 1
Analyst ID.....: 341569 Instrument ID..: MSD
Method.....: EPA-2 TO-15

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	**4.7**	**0.80**	**ppb(v/v)**
Benzene	**0.27**	**0.20**	**ppb(v/v)**
Benzyl chloride	ND	0.40	ppb(v/v)
Bromodichloromethane	ND	0.20	ppb(v/v)
Bromoform	ND	0.20	ppb(v/v)
Bromomethane	ND	0.20	ppb(v/v)
2-Butanone (MEK)	**1.1**	**1.0**	**ppb(v/v)**
Carbon disulfide	ND	1.0	ppb(v/v)
Carbon tetrachloride	ND	0.20	ppb(v/v)
Chlorobenzene	ND	0.20	ppb(v/v)
Dibromochloromethane	ND	0.20	ppb(v/v)
Chloroethane	ND	0.40	ppb(v/v)
Chloroform	**0.24**	**0.20**	**ppb(v/v)**
Chloromethane	ND	0.40	ppb(v/v)
1,2-Dibromoethane (EDB)	ND	0.20	ppb(v/v)
1,2-Dichlorobenzene	ND	0.20	ppb(v/v)
1,3-Dichlorobenzene	ND	0.20	ppb(v/v)
1,4-Dichlorobenzene	ND	0.20	ppb(v/v)
1,1-Dichloroethane	ND	0.20	ppb(v/v)
1,2-Dichloroethane	ND	0.20	ppb(v/v)
cis-1,2-Dichloroethene	ND	0.20	ppb(v/v)
trans-1,2-Dichloroethene	ND	0.20	ppb(v/v)
1,1-Dichloroethene	ND	0.20	ppb(v/v)
1,2-Dichloropropane	ND	0.20	ppb(v/v)
cis-1,3-Dichloropropene	ND	0.20	ppb(v/v)
trans-1,3-Dichloropropene	ND	0.20	ppb(v/v)
1,2-Dichloro-1,1,2,2-tetrafluoroethane	**8.4**	**0.20**	**ppb(v/v)**
Ethylbenzene	**0.50**	**0.20**	**ppb(v/v)**
4-Ethyltoluene	**0.51**	**0.40**	**ppb(v/v)**
Hexachlorobutadiene	ND	0.40	ppb(v/v)
2-Hexanone	ND	0.40	ppb(v/v)
Methylene chloride	**0.23**	**0.20**	**ppb(v/v)**
4-Methyl-2-pentanone (MIBK)	ND	0.40	ppb(v/v)
Styrene	ND	0.20	ppb(v/v)
1,1,2,2-Tetrachloroethane	ND	0.20	ppb(v/v)

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ENVIROMATRIX ANALYTICAL INC

Client Sample ID: AMW-1 PROBE 15 3065

GC/MS Volatiles

Lot-Sample #...: E3L050383-001 Work Order #...: F55QT1AC Matrix.....: AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Tetrachloroethene	38	0.20	ppb(v/v)
Toluene	3.5	0.30	ppb(v/v)
1,2,4-Trichloro-benzene	ND	0.80	ppb(v/v)
1,1,1-Trichloroethane	ND	0.20	ppb(v/v)
1,1,2-Trichloroethane	ND	0.20	ppb(v/v)
Trichloroethene	2.9	0.20	ppb(v/v)
Trichlorofluoromethane	1.7	0.40	ppb(v/v)
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.40	ppb(v/v)
1,2,4-Trimethylbenzene	1.0	0.40	ppb(v/v)
1,3,5-Trimethylbenzene	ND	0.40	ppb(v/v)
Vinyl acetate	ND	1.0	ppb(v/v)
Vinyl chloride	0.23	0.20	ppb(v/v)
Xylenes (total)	3.5	0.50	ppb(v/v)

ENVIROMATRIX ANALYTICAL INC

Client Sample ID: AMW-1 PROBE 15 3065

GC/MS Volatiles

Lot-Sample #...: E3L050383-001 Work Order #...: F55QT2AC Matrix.....: AIR
Date Sampled...: 12/01/03 Date Received..: 12/04/03
Prep Date.....: 12/10/03 Analysis Date..: 12/10/03
Prep Batch #...: 3344425
Dilution Factor: 8.49
Analyst ID.....: 341569 Instrument ID..: MSD
Method.....: EPA-2 TO-15

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Dichlorodifluoromethane	210	1.7	ppb(v/v)

ENVIROMATRIX ANALYTICAL INC

Client Sample ID: AMW-1 PROBE 15 3065

GC Volatiles

Lot-Sample #...: E3L050383-001 Work Order #...: F55QT1AD Matrix.....: AIR
Date Sampled...: 12/01/03 Date Received..: 12/04/03
Prep Date.....: 12/08/03 Analysis Date..: 12/08/03
Prep Batch #...: 3343267
Dilution Factor: 1.7
Analyst ID.....: 101605 Instrument ID..: GC3
Method.....: ASTM D1946

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Carbon dioxide	3.5	0.017	%(v/v)
Oxygen	17	0.17	%(v/v)
Nitrogen	80	1.7	%(v/v)
Methane	0.16	0.00034	%(v/v)
Carbon monoxide	ND	0.0017	%(v/v)

ENVIROMATRIX ANALYTICAL INC

Client Sample ID: AMW-2 PROBE 7 3141

GC/MS Volatiles

Lot-Sample #...: E3L050383-002 Work Order #...: F55QX1AC Matrix.....: AIR
Date Sampled...: 12/01/03 Date Received..: 12/04/03
Prep Date.....: 12/09/03 Analysis Date..: 12/09/03
Prep Batch #...: 3344425
Dilution Factor: 1
Analyst ID.....: 341569 Instrument ID..: MSD
Method.....: EPA-2 TO-15

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	**8.0**	**0.80**	**ppb(v/v)**
Benzene	ND	0.20	ppb(v/v)
Benzyl chloride	ND	0.40	ppb(v/v)
Bromodichloromethane	ND	0.20	ppb(v/v)
Bromoform	ND	0.20	ppb(v/v)
Bromomethane	ND	0.20	ppb(v/v)
2-Butanone (MEK)	**2.3**	**1.0**	**ppb(v/v)**
Carbon disulfide	ND	1.0	ppb(v/v)
Carbon tetrachloride	ND	0.20	ppb(v/v)
Chlorobenzene	ND	0.20	ppb(v/v)
Dibromochloromethane	ND	0.20	ppb(v/v)
Chloroethane	ND	0.40	ppb(v/v)
Chloroform	**0.30**	**0.20**	**ppb(v/v)**
Chloromethane	ND	0.40	ppb(v/v)
1,2-Dibromoethane (EDB)	ND	0.20	ppb(v/v)
1,2-Dichlorobenzene	ND	0.20	ppb(v/v)
1,3-Dichlorobenzene	ND	0.20	ppb(v/v)
1,4-Dichlorobenzene	ND	0.20	ppb(v/v)
Dichlorodifluoromethane	**1.1**	**0.20**	**ppb(v/v)**
1,1-Dichloroethane	ND	0.20	ppb(v/v)
1,2-Dichloroethane	ND	0.20	ppb(v/v)
cis-1,2-Dichloroethene	ND	0.20	ppb(v/v)
trans-1,2-Dichloroethene	ND	0.20	ppb(v/v)
1,1-Dichloroethene	ND	0.20	ppb(v/v)
1,2-Dichloropropane	ND	0.20	ppb(v/v)
cis-1,3-Dichloropropene	ND	0.20	ppb(v/v)
trans-1,3-Dichloropropene	ND	0.20	ppb(v/v)
1,2-Dichloro-1,1,2,2-tetrafluoroethane	**3.2**	**0.20**	**ppb(v/v)**
Ethylbenzene	**0.67**	**0.20**	**ppb(v/v)**
4-Ethyltoluene	ND	0.40	ppb(v/v)
Hexachlorobutadiene	ND	0.40	ppb(v/v)
2-Hexanone	ND	0.40	ppb(v/v)
Methylene chloride	ND	0.20	ppb(v/v)
4-Methyl-2-pentanone (MIBK)	ND	0.40	ppb(v/v)
Styrene	ND	0.20	ppb(v/v)

(Continued on next page)

ENVIROMATRIX ANALYTICAL INC

Client Sample ID: AMW-2 PROBE 7 3141

GC/MS Volatiles

Lot-Sample #...: E3L050383-002 Work Order #...: F55QX1AC Matrix.....: AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS
1,1,2,2-Tetrachloroethane	ND	0.20	ppb(v/v)
Tetrachloroethene	ND	0.20	ppb(v/v)
Toluene	**7.7**	**0.30**	**ppb(v/v)**
1,2,4-Trichloro-benzene	ND	0.80	ppb(v/v)
1,1,1-Trichloroethane	ND	0.20	ppb(v/v)
1,1,2-Trichloroethane	ND	0.20	ppb(v/v)
Trichloroethene	ND	0.20	ppb(v/v)
Trichlorofluoromethane	ND	0.40	ppb(v/v)
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.40	ppb(v/v)
1,2,4-Trimethylbenzene	ND	0.40	ppb(v/v)
1,3,5-Trimethylbenzene	ND	0.40	ppb(v/v)
Vinyl acetate	ND	1.0	ppb(v/v)
Vinyl chloride	ND	0.20	ppb(v/v)
Xylenes (total)	**3.5**	**0.50**	**ppb(v/v)**

ENVIROMATRIX ANALYTICAL INC

Client Sample ID: AMW-2 PROBE 7 3141

GC Volatiles

Lot-Sample #...: E3L050383-002 Work Order #...: F55QX1AD Matrix.....: AIR
Date Sampled...: 12/01/03 Date Received..: 12/04/03
Prep Date.....: 12/08/03 Analysis Date..: 12/08/03
Prep Batch #...: 3343267
Dilution Factor: 1.76
Analyst ID.....: 101605 Instrument ID..: GC3
Method.....: ASTM D1946

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Carbon dioxide	1.5	0.018	%(v/v)
Oxygen	20	0.18	%(v/v)
Nitrogen	79	1.8	%(v/v)
Methane	ND	0.00035	%(v/v)
Carbon monoxide	ND	0.0018	%(v/v)

ENVIROMATRIX ANALYTICAL INC

Client Sample ID: AMW-3 WELL 80 3352

GC/MS Volatiles

Lot-Sample #...: E3L050383-003 Work Order #...: F55Q11AE Matrix.....: AIR
Date Sampled...: 12/01/03 Date Received..: 12/04/03
Prep Date.....: 12/08/03 Analysis Date..: 12/08/03
Prep Batch #...: 3343454
Dilution Factor: 3.29
Analyst ID.....: 117751 Instrument ID...: MSB
Method.....: EPA-2 TO-15

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	**110**	**33**	**ppb(v/v)**
Benzene	**19**	**6.6**	**ppb(v/v)**
Benzyl chloride	ND	33	ppb(v/v)
Bromodichloromethane	ND	6.6	ppb(v/v)
Bromoform	ND	6.6	ppb(v/v)
Bromomethane	ND	6.6	ppb(v/v)
2-Butanone (MEK)	ND	33	ppb(v/v)
Carbon disulfide	ND	33	ppb(v/v)
Carbon tetrachloride	ND	6.6	ppb(v/v)
Chlorobenzene	**11**	**6.6**	**ppb(v/v)**
Dibromochloromethane	ND	6.6	ppb(v/v)
Chloroethane	ND	13	ppb(v/v)
Chloroform	**9.3**	**6.6**	**ppb(v/v)**
Chloromethane	ND	13	ppb(v/v)
1,2-Dibromoethane (EDB)	ND	6.6	ppb(v/v)
1,2-Dichlorobenzene	ND	6.6	ppb(v/v)
1,3-Dichlorobenzene	ND	6.6	ppb(v/v)
1,4-Dichlorobenzene	**120**	**6.6**	**ppb(v/v)**
Dichlorodifluoromethane	**410**	**6.6**	**ppb(v/v)**
1,1-Dichloroethane	ND	6.6	ppb(v/v)
1,2-Dichloroethane	ND	6.6	ppb(v/v)
cis-1,2-Dichloroethene	**7.7**	**6.6**	**ppb(v/v)**
trans-1,2-Dichloroethene	ND	6.6	ppb(v/v)
1,1-Dichloroethene	ND	6.6	ppb(v/v)
1,2-Dichloropropane	ND	6.6	ppb(v/v)
cis-1,3-Dichloropropene	ND	6.6	ppb(v/v)
trans-1,3-Dichloropropene	ND	6.6	ppb(v/v)
1,2-Dichloro-1,1,2,2-tetrafluoroethane	**120**	**6.6**	**ppb(v/v)**
Ethylbenzene	**250**	**6.6**	**ppb(v/v)**
4-Ethyltoluene	**75**	**6.6**	**ppb(v/v)**
Hexachlorobutadiene	ND	13	ppb(v/v)
2-Hexanone	ND	33	ppb(v/v)
Methylene chloride	ND	6.6	ppb(v/v)
4-Methyl-2-pentanone (MIBK)	ND	33	ppb(v/v)
Styrene	ND	6.6	ppb(v/v)

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ENVIROMATRIX ANALYTICAL INC

Client Sample ID: AMW-3 WELL 80 3352

GC/MS Volatiles

Lot-Sample #...: E3L050383-003 Work Order #...: F55Q11AE Matrix.....: AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS
1,1,2,2-Tetrachloroethane	ND	6.6	ppb(v/v)
Tetrachloroethene	ND	6.6	ppb(v/v)
Toluene	39	6.6	ppb(v/v)
1,2,4-Trichloro-benzene	ND	16	ppb(v/v)
1,1,1-Trichloroethane	ND	6.6	ppb(v/v)
1,1,2-Trichloroethane	ND	6.6	ppb(v/v)
Trichloroethene	ND	6.6	ppb(v/v)
Trichlorofluoromethane	ND	6.6	ppb(v/v)
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	6.6	ppb(v/v)
1,2,4-Trimethylbenzene	120	6.6	ppb(v/v)
1,3,5-Trimethylbenzene	33	6.6	ppb(v/v)
Vinyl acetate	ND	33	ppb(v/v)
Vinyl chloride	36	6.6	ppb(v/v)
Xylenes (total)	290	6.6	ppb(v/v)

ENVIROMATRIX ANALYTICAL INC

Client Sample ID: AMW-3 WELL 80 3352

GC Volatiles

Lot-Sample #...: E3L050383-003 Work Order #...: F55Q11AD Matrix.....: AIR
Date Sampled...: 12/01/03 Date Received..: 12/04/03
Prep Date.....: 12/08/03 Analysis Date..: 12/08/03
Prep Batch #...: 3343267
Dilution Factor: 1.65
Analyst ID.....: 101605 Instrument ID..: GC3
Method.....: ASTM D1946

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Carbon dioxide	8.5	0.016	%(v/v)
Oxygen	14	0.16	%(v/v)
Nitrogen	69	1.6	%(v/v)
Methane	7.4	0.00033	%(v/v)
Carbon monoxide	ND	0.0016	%(v/v)

ENVIROMATRIX ANALYTICAL INC

Client Sample ID: AMW-4 3047

GC/MS Volatiles

Lot-Sample #...: E3L050383-004 Work Order #...: F55Q31AC Matrix.....: AIR
Date Sampled...: 12/01/03 Date Received..: 12/04/03
Prep Date.....: 12/09/03 Analysis Date..: 12/09/03
Prep Batch #...: 3344425
Dilution Factor: 1
Analyst ID.....: 341569 Instrument ID..: MSD
Method.....: EPA-2 TO-15

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	**7.9**	**0.80**	**ppb(v/v)**
Benzene	**2.2**	**0.20**	**ppb(v/v)**
Benzyl chloride	ND	0.40	ppb(v/v)
Bromodichloromethane	ND	0.20	ppb(v/v)
Bromoform	ND	0.20	ppb(v/v)
Bromomethane	ND	0.20	ppb(v/v)
2-Butanone (MEK)	**3.8**	**1.0**	**ppb(v/v)**
Carbon disulfide	ND	1.0	ppb(v/v)
Carbon tetrachloride	ND	0.20	ppb(v/v)
Chlorobenzene	ND	0.20	ppb(v/v)
Dibromochloromethane	ND	0.20	ppb(v/v)
Chloroethane	ND	0.40	ppb(v/v)
Chloroform	ND	0.20	ppb(v/v)
Chloromethane	**0.57**	**0.40**	**ppb(v/v)**
1,2-Dibromoethane (EDB)	ND	0.20	ppb(v/v)
1,2-Dichlorobenzene	ND	0.20	ppb(v/v)
1,3-Dichlorobenzene	ND	0.20	ppb(v/v)
1,4-Dichlorobenzene	ND	0.20	ppb(v/v)
Dichlorodifluoromethane	**0.64**	**0.20**	**ppb(v/v)**
1,1-Dichloroethane	ND	0.20	ppb(v/v)
1,2-Dichloroethane	ND	0.20	ppb(v/v)
cis-1,2-Dichloroethene	ND	0.20	ppb(v/v)
trans-1,2-Dichloroethene	ND	0.20	ppb(v/v)
1,1-Dichloroethene	ND	0.20	ppb(v/v)
1,2-Dichloropropane	ND	0.20	ppb(v/v)
cis-1,3-Dichloropropene	ND	0.20	ppb(v/v)
trans-1,3-Dichloropropene	ND	0.20	ppb(v/v)
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.20	ppb(v/v)
Ethylbenzene	**0.29**	**0.20**	**ppb(v/v)**
4-Ethyltoluene	ND	0.40	ppb(v/v)
Hexachlorobutadiene	ND	0.40	ppb(v/v)
2-Hexanone	ND	0.40	ppb(v/v)
Methylene chloride	**0.22**	**0.20**	**ppb(v/v)**
4-Methyl-2-pentanone (MIBK)	ND	0.40	ppb(v/v)
Styrene	ND	0.20	ppb(v/v)

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ENVIROMATRIX ANALYTICAL INC

Client Sample ID: AMW-4 3047

GC/MS Volatiles

Lot-Sample #...: E3L050383-004 Work Order #...: F5SQ31AC Matrix.....: AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS
1,1,2,2-Tetrachloroethane	ND	0.20	ppb(v/v)
Tetrachloroethene	1.0	0.20	ppb(v/v)
Toluene	5.9	0.30	ppb(v/v)
1,2,4-Trichloro-benzene	ND	0.80	ppb(v/v)
1,1,1-Trichloroethane	ND	0.20	ppb(v/v)
1,1,2-Trichloroethane	ND	0.20	ppb(v/v)
Trichloroethene	ND	0.20	ppb(v/v)
Trichlorofluoromethane	ND	0.40	ppb(v/v)
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.40	ppb(v/v)
1,2,4-Trimethylbenzene	ND	0.40	ppb(v/v)
1,3,5-Trimethylbenzene	ND	0.40	ppb(v/v)
Vinyl acetate	ND	1.0	ppb(v/v)
Vinyl chloride	ND	0.20	ppb(v/v)
Xylenes (total)	1.2	0.50	ppb(v/v)

ENVIROMATRIX ANALYTICAL INC

Client Sample ID: AMW-4 3047

GC Volatiles

Lot-Sample #...: E3L050383-004 Work Order #...: F55Q31AD Matrix.....: AIR
Date Sampled...: 12/01/03 Date Received..: 12/04/03
Prep Date.....: 12/08/03 Analysis Date..: 12/08/03
Prep Batch #...: 3343267
Dilution Factor: 1.64
Analyst ID.....: 101605 Instrument ID..: GC3
Method.....: ASTM D1946

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Carbon dioxide	0.034	0.016	%(v/v)
Oxygen	22	0.16	%(v/v)
Nitrogen	79	1.6	%(v/v)
Methane	ND	0.00033	%(v/v)
Carbon monoxide	ND	0.0016	%(v/v)

ENVIROMATRIX ANALYTICAL INC

Client Sample ID: AMW-5 PROBE 11

GC/MS Volatiles

Lot-Sample #...: E3L050383-005 Work Order #...: F55Q51AE Matrix.....: AIR
Date Sampled...: 12/01/03 Date Received..: 12/04/03
Prep Date.....: 12/08/03 Analysis Date..: 12/08/03
Prep Batch #...: 3343454
Dilution Factor: 5.74
Analyst ID.....: 117751 Instrument ID..: MSB
Method.....: EPA-2 TO-15

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	800	57	ppb(v/v)
Benzene	48	11	ppb(v/v)
Benzyl chloride	ND	57	ppb(v/v)
Bromodichloromethane	ND	11	ppb(v/v)
Bromoform	ND	11	ppb(v/v)
Bromomethane	ND	11	ppb(v/v)
2-Butanone (MEK)	66	57	ppb(v/v)
Carbon disulfide	ND	57	ppb(v/v)
Carbon tetrachloride	ND	11	ppb(v/v)
Chlorobenzene	ND	11	ppb(v/v)
Dibromochloromethane	ND	11	ppb(v/v)
Chloroethane	ND	23	ppb(v/v)
Chloroform	ND	11	ppb(v/v)
Chloromethane	ND	23	ppb(v/v)
1,2-Dibromoethane (EDB)	ND	11	ppb(v/v)
1,2-Dichlorobenzene	ND	11	ppb(v/v)
1,3-Dichlorobenzene	ND	11	ppb(v/v)
1,4-Dichlorobenzene	18	11	ppb(v/v)
Dichlorodifluoromethane	2300	11	ppb(v/v)
1,1-Dichloroethane	ND	11	ppb(v/v)
1,2-Dichloroethane	ND	11	ppb(v/v)
cis-1,2-Dichloroethene	290	11	ppb(v/v)
trans-1,2-Dichloroethene	20	11	ppb(v/v)
1,1-Dichloroethene	ND	11	ppb(v/v)
1,2-Dichloropropane	ND	11	ppb(v/v)
cis-1,3-Dichloropropene	ND	11	ppb(v/v)
trans-1,3-Dichloropropene	ND	11	ppb(v/v)
1,2-Dichloro-1,1,2,2-tetrafluoroethane	360	11	ppb(v/v)
Ethylbenzene	190	11	ppb(v/v)
4-Ethyltoluene	72	11	ppb(v/v)
Hexachlorobutadiene	ND	23	ppb(v/v)
2-Hexanone	ND	57	ppb(v/v)
Methylene chloride	25	11	ppb(v/v)
4-Methyl-2-pentanone (MIBK)	ND	57	ppb(v/v)
Styrene	ND	11	ppb(v/v)

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ENVIROMATRIX ANALYTICAL INC

Client Sample ID: AMW-5 PROBE 11

GC/MS Volatiles

Lot-Sample #...: E3L050383-005 Work Order #...: F55Q51AE Matrix.....: AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS
1,1,2,2-Tetrachloroethane	ND	11	ppb(v/v)
Tetrachloroethene	840	11	ppb(v/v)
Toluene	83	11	ppb(v/v)
1,2,4-Trichloro-benzene	ND	29	ppb(v/v)
1,1,1-Trichloroethane	ND	11	ppb(v/v)
1,1,2-Trichloroethane	ND	11	ppb(v/v)
Trichloroethene	230	11	ppb(v/v)
Trichlorofluoromethane	100	11	ppb(v/v)
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	11	ppb(v/v)
1,2,4-Trimethylbenzene	67	11	ppb(v/v)
1,3,5-Trimethylbenzene	48	11	ppb(v/v)
Vinyl acetate	ND	57	ppb(v/v)
Vinyl chloride	120	11	ppb(v/v)
Xylenes (total)	360	11	ppb(v/v)

ENVIROMATRIX ANALYTICAL INC

Client Sample ID: AMW-5 PROBE 11

GC Volatiles

Lot-Sample #...: E3L050383-005 Work Order #...: F55Q51AD Matrix.....: AIR
Date Sampled...: 12/01/03 Date Received..: 12/04/03
Prep Date.....: 12/08/03 Analysis Date..: 12/08/03
Prep Batch #...: 3343267
Dilution Factor: 1.72
Analyst ID.....: 101605 Instrument ID..: GC3
Method.....: ASTM D1946

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Carbon dioxide	19	0.017	%(v/v)
Oxygen	1.1	0.17	%(v/v)
Nitrogen	63	1.7	%(v/v)
Methane	17	0.00034	%(v/v)
Carbon monoxide	ND	0.0017	%(v/v)

SEVERN TRENT STL

QA/QC

QC DATA ASSOCIATION SUMMARY

K3L050383

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	AIR	EPA-2 TO-15		3344425	
	AIR	ASTM D1946		3343267	
002	AIR	EPA-2 TO-15		3344425	
	AIR	ASTM D1946		3343267	
003	AIR	EPA-2 TO-15		3343454	
	AIR	ASTM D1946		3343267	
004	AIR	EPA-2 TO-15		3344425	
	AIR	ASTM D1946		3343267	
005	AIR	EPA-2 TO-15		3343454	
	AIR	ASTM D1946		3343267	

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E3L050383 Work Order #...: F6ANN1AA Matrix.....: AIR
MB Lot-Sample #: M3L090000-454

Prep Date.....: 12/08/03 Instrument ID..: MSB

Analysis Date..: 12/08/03 Prep Batch #...: 3343454
Dilution Factor: 1

Analyst ID.....: 117751

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	ND	10	ppb(v/v)	EPA-2 TO-15
Benzene	ND	2.0	ppb(v/v)	EPA-2 TO-15
Benzyl chloride	ND	10	ppb(v/v)	EPA-2 TO-15
Bromodichloromethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
Bromoform	ND	2.0	ppb(v/v)	EPA-2 TO-15
Bromomethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
2-Butanone (MEK)	ND	10	ppb(v/v)	EPA-2 TO-15
Carbon disulfide	ND	10	ppb(v/v)	EPA-2 TO-15
Carbon tetrachloride	ND	2.0	ppb(v/v)	EPA-2 TO-15
Chlorobenzene	ND	2.0	ppb(v/v)	EPA-2 TO-15
Dibromochloromethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
Chloroethane	ND	4.0	ppb(v/v)	EPA-2 TO-15
Chloroform	ND	2.0	ppb(v/v)	EPA-2 TO-15
Chloromethane	ND	4.0	ppb(v/v)	EPA-2 TO-15
1,2-Dibromoethane (EDB)	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,2-Dichlorobenzene	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,3-Dichlorobenzene	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,4-Dichlorobenzene	ND	2.0	ppb(v/v)	EPA-2 TO-15
Dichlorodifluoromethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,1-Dichloroethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,2-Dichloroethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
cis-1,2-Dichloroethene	ND	2.0	ppb(v/v)	EPA-2 TO-15
trans-1,2-Dichloroethene	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,1-Dichloroethene	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,2-Dichloropropane	ND	2.0	ppb(v/v)	EPA-2 TO-15
cis-1,3-Dichloropropene	ND	2.0	ppb(v/v)	EPA-2 TO-15
trans-1,3-Dichloropropene	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
Ethylbenzene	ND	2.0	ppb(v/v)	EPA-2 TO-15
4-Ethyltoluene	ND	2.0	ppb(v/v)	EPA-2 TO-15
Hexachlorobutadiene	ND	4.0	ppb(v/v)	EPA-2 TO-15
2-Hexanone	ND	10	ppb(v/v)	EPA-2 TO-15
Methylene chloride	ND	2.0	ppb(v/v)	EPA-2 TO-15
4-Methyl-2-pentanone (MIBK)	ND	10	ppb(v/v)	EPA-2 TO-15
Styrene	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,1,2,2-Tetrachloroethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
Tetrachloroethene	ND	2.0	ppb(v/v)	EPA-2 TO-15
Toluene	ND	2.0	ppb(v/v)	EPA-2 TO-15

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: B3L050383 Work Order #...: F6ANN1AA Matrix.....: AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,2,4-Trichloro-benzene	ND	5.0	ppb(v/v)	EPA-2 TO-15
1,1,1-Trichloroethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,1,2-Trichloroethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
Trichloroethene	ND	2.0	ppb(v/v)	EPA-2 TO-15
Trichlorofluoromethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,2,4-Trimethylbenzene	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,3,5-Trimethylbenzene	ND	2.0	ppb(v/v)	EPA-2 TO-15
Vinyl acetate	ND	10	ppb(v/v)	EPA-2 TO-15
Vinyl chloride	ND	2.0	ppb(v/v)	EPA-2 TO-15
Xylenes (total)	ND	2.0	ppb(v/v)	EPA-2 TO-15

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E3L050383 Work Order #...: F6DVQ1AA Matrix.....: AIR
MB Lot-Sample #: M3L100000-425

Prep Date.....: 12/09/03 Instrument ID..: MSD

Analysis Date..: 12/09/03 Prep Batch #...: 3344425
Dilution Factor: 1

Analyst ID.....: 341569

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	ND	0.80	ppb(v/v)	EPA-2 TO-15
Benzene	ND	0.20	ppb(v/v)	EPA-2 TO-15
Benzyl chloride	ND	0.40	ppb(v/v)	EPA-2 TO-15
Bromodichloromethane	ND	0.20	ppb(v/v)	EPA-2 TO-15
Bromoform	ND	0.20	ppb(v/v)	EPA-2 TO-15
Bromomethane	ND	0.20	ppb(v/v)	EPA-2 TO-15
2-Butanone (MEK)	ND	1.0	ppb(v/v)	EPA-2 TO-15
Carbon disulfide	ND	1.0	ppb(v/v)	EPA-2 TO-15
Carbon tetrachloride	ND	0.20	ppb(v/v)	EPA-2 TO-15
Chlorobenzene	ND	0.20	ppb(v/v)	EPA-2 TO-15
Dibromochloromethane	ND	0.20	ppb(v/v)	EPA-2 TO-15
Chloroethane	ND	0.40	ppb(v/v)	EPA-2 TO-15
Chloroform	ND	0.20	ppb(v/v)	EPA-2 TO-15
Chloromethane	ND	0.40	ppb(v/v)	EPA-2 TO-15
1,2-Dibromoethane (EDB)	ND	0.20	ppb(v/v)	EPA-2 TO-15
1,2-Dichlorobenzene	ND	0.20	ppb(v/v)	EPA-2 TO-15
1,3-Dichlorobenzene	ND	0.20	ppb(v/v)	EPA-2 TO-15
1,4-Dichlorobenzene	ND	0.20	ppb(v/v)	EPA-2 TO-15
Dichlorodifluoromethane	ND	0.20	ppb(v/v)	EPA-2 TO-15
1,1-Dichloroethane	ND	0.20	ppb(v/v)	EPA-2 TO-15
1,2-Dichloroethane	ND	0.20	ppb(v/v)	EPA-2 TO-15
cis-1,2-Dichloroethene	ND	0.20	ppb(v/v)	EPA-2 TO-15
trans-1,2-Dichloroethene	ND	0.20	ppb(v/v)	EPA-2 TO-15
1,1-Dichloroethene	ND	0.20	ppb(v/v)	EPA-2 TO-15
1,2-Dichloropropane	ND	0.20	ppb(v/v)	EPA-2 TO-15
cis-1,3-Dichloropropene	ND	0.20	ppb(v/v)	EPA-2 TO-15
trans-1,3-Dichloropropene	ND	0.20	ppb(v/v)	EPA-2 TO-15
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.20	ppb(v/v)	EPA-2 TO-15
Ethylbenzene	ND	0.20	ppb(v/v)	EPA-2 TO-15
4-Ethyltoluene	ND	0.40	ppb(v/v)	EPA-2 TO-15
Hexachlorobutadiene	ND	0.40	ppb(v/v)	EPA-2 TO-15
2-Hexanone	ND	0.40	ppb(v/v)	EPA-2 TO-15
Methylene chloride	ND	0.20	ppb(v/v)	EPA-2 TO-15
4-Methyl-2-pentanone (MIBK)	ND	0.40	ppb(v/v)	EPA-2 TO-15
Styrene	ND	0.20	ppb(v/v)	EPA-2 TO-15
1,1,2,2-Tetrachloroethane	ND	0.20	ppb(v/v)	EPA-2 TO-15
Tetrachloroethene	ND	0.20	ppb(v/v)	EPA-2 TO-15
Toluene	ND	0.30	ppb(v/v)	EPA-2 TO-15

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E3L050383 Work Order #...: F6DVQ1AA Matrix.....: AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,2,4-Trichloro-benzene	ND	0.80	ppb(v/v)	EPA-2 TO-15
1,1,1-Trichloroethane	ND	0.20	ppb(v/v)	EPA-2 TO-15
1,1,2-Trichloroethane	ND	0.20	ppb(v/v)	EPA-2 TO-15
Trichloroethene	ND	0.20	ppb(v/v)	EPA-2 TO-15
Trichlorofluoromethane	ND	0.40	ppb(v/v)	EPA-2 TO-15
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.40	ppb(v/v)	EPA-2 TO-15
1,2,4-Trimethylbenzene	ND	0.40	ppb(v/v)	EPA-2 TO-15
1,3,5-Trimethylbenzene	ND	0.40	ppb(v/v)	EPA-2 TO-15
Vinyl acetate	ND	1.0	ppb(v/v)	EPA-2 TO-15
Vinyl chloride	ND	0.20	ppb(v/v)	EPA-2 TO-15
Xylenes (total)	ND	0.50	ppb(v/v)	EPA-2 TO-15

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: E3L050383
MB Lot-Sample #: M3L090000-267

Analysis Date..: 12/08/03
Dilution Factor: 1

Work Order #...: F6A3A1AA

Prep Date.....: 12/08/03
Prep Batch #...: 3343267

Analyst ID.....: 101605

Matrix.....: AIR

Instrument ID..: GC3

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Carbon dioxide	ND	0.010	%(v/v)	ASTM D1946
Oxygen	ND	0.10	%(v/v)	ASTM D1946
Nitrogen	ND	1.0	%(v/v)	ASTM D1946
Methane	ND	0.00020	%(v/v)	ASTM D1946
Carbon monoxide	ND	0.0010	%(v/v)	ASTM D1946

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E3L050383 Work Order #...: F6ANN1AC-LCS Matrix.....: AIR
LCS Lot-Sample#: M3L090000-454 F6ANN1AD-LCSD
Prep Date.....: 12/08/03 Analysis Date..: 12/08/03
Prep Batch #...: 3343454
Dilution Factor: 1 Instrument ID..: MSB
Analyst ID.....: 117751

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	92	(70 - 125)			EPA-2 TO-15
	84	(70 - 125)	8.6	(0-20)	EPA-2 TO-15
Methylene chloride	82	(75 - 120)			EPA-2 TO-15
	79	(75 - 120)	3.6	(0-20)	EPA-2 TO-15
1,1,2,2-Tetrachloroethane	96	(65 - 130)			EPA-2 TO-15
	88	(65 - 130)	9.1	(0-20)	EPA-2 TO-15
Toluene	85	(75 - 125)			EPA-2 TO-15
	85	(75 - 125)	0.31	(0-20)	EPA-2 TO-15
Trichloroethene	79	(70 - 125)			EPA-2 TO-15
	78	(70 - 125)	0.45	(0-20)	EPA-2 TO-15

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E3L050383 Work Order #...: F6ANN1AC-LCS Matrix.....: AIR
LCS Lot-Sample#: M3L090000-454 F6ANN1AD-LCSD
Prep Date.....: 12/08/03 Analysis Date..: 12/08/03
Prep Batch #...: 3343454
Dilution Factor: 1 Instrument ID..: MSB
Analyst ID.....: 117751

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,1-Dichloroethene	59.2	54.2	ppb(v/v)	92		EPA-2 TO-15
	59.2	49.8	ppb(v/v)	84	8.6	EPA-2 TO-15
Methylene chloride	58.7	47.9	ppb(v/v)	82		EPA-2 TO-15
	58.7	46.2	ppb(v/v)	79	3.6	EPA-2 TO-15
1,1,2,2-Tetrachloroethane	55.4	53.4	ppb(v/v)	96		EPA-2 TO-15
	55.4	48.8	ppb(v/v)	88	9.1	EPA-2 TO-15
Toluene	55.7	47.5	ppb(v/v)	85		EPA-2 TO-15
	55.7	47.4	ppb(v/v)	85	0.31	EPA-2 TO-15
Trichloroethene	59.5	46.7	ppb(v/v)	79		EPA-2 TO-15
	59.5	46.5	ppb(v/v)	78	0.45	EPA-2 TO-15

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E3L050383 Work Order #...: F6DVQ1AC-LCS Matrix.....: AIR
LCS Lot-Sample#: M3L100000-425 F6DVQ1AD-LCSD
Prep Date.....: 12/09/03 Analysis Date..: 12/09/03
Prep Batch #...: 3344425
Dilution Factor: 1 Instrument ID..: MSD
Analyst ID.....: 341569

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	116	(75 - 135)			EPA-2 TO-15
	104	(75 - 135)	11	(0-20)	EPA-2 TO-15
Methylene chloride	98	(75 - 125)			EPA-2 TO-15
	87	(75 - 125)	12	(0-20)	EPA-2 TO-15
1,1,2,2-Tetrachloroethane	96	(60 - 130)			EPA-2 TO-15
	87	(60 - 130)	10	(0-20)	EPA-2 TO-15
Toluene	110	(75 - 125)			EPA-2 TO-15
	97	(75 - 125)	12	(0-20)	EPA-2 TO-15
Trichloroethene	107	(75 - 130)			EPA-2 TO-15
	95	(75 - 130)	12	(0-20)	EPA-2 TO-15

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E3L050383 Work Order #...: F6DVQ1AC-LCS Matrix.....: AIR
LCS Lot-Sample#: M3L100000-425 F6DVQ1AD-LCSD
Prep Date.....: 12/09/03 Analysis Date..: 12/09/03
Prep Batch #...: 3344425
Dilution Factor: 1 Instrument ID..: MSD
Analyst ID.....: 341569

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,1-Dichloroethene	10.0	11.6	ppb(v/v)	116		EPA-2 TO-15
	10.0	10.4	ppb(v/v)	104	11	EPA-2 TO-15
Methylene chloride	10.0	9.81	ppb(v/v)	98		EPA-2 TO-15
	10.0	8.73	ppb(v/v)	87	12	EPA-2 TO-15
1,1,2,2-Tetrachloroethane	10.0	9.64	ppb(v/v)	96		EPA-2 TO-15
	10.0	8.68	ppb(v/v)	87	10	EPA-2 TO-15
Toluene	10.0	11.0	ppb(v/v)	110		EPA-2 TO-15
	10.0	9.74	ppb(v/v)	97	12	EPA-2 TO-15
Trichloroethene	10.0	10.7	ppb(v/v)	107		EPA-2 TO-15
	10.0	9.50	ppb(v/v)	95	12	EPA-2 TO-15

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: E3L050383 Work Order #...: F6A3A1AC-LCS Matrix.....: AIR
LCS Lot-Sample#: M3L090000-267 F6A3A1AD-LCSD
Prep Date.....: 12/08/03 Analysis Date..: 12/08/03
Prep Batch #...: 3343267
Dilution Factor: 1 Instrument ID..: GC3
Analyst ID.....: 101605

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Carbon dioxide	100	(75 - 125)			ASTM D1946
	100	(75 - 125)	0.30	(0-20)	ASTM D1946
Methane	88	(75 - 135)			ASTM D1946
	87	(75 - 135)	0.71	(0-20)	ASTM D1946

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: E3L050383 Work Order #...: F6A3A1AC-LCS Matrix.....: AIR
LCS Lot-Sample#: M3L090000-267 F6A3A1AD-LCSD
Prep Date.....: 12/08/03 Analysis Date..: 12/08/03
Prep Batch #...: 3343267
Dilution Factor: 1 Instrument ID..: GC3
Analyst ID.....: 101605

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Carbon dioxide	1.00	0.999	%(v/v)	100		ASTM D1946
	1.00	0.996	%(v/v)	100	0.30	ASTM D1946
Methane	0.0500	0.0439	%(v/v)	88		ASTM D1946
	0.0500	0.0436	%(v/v)	87	0.71	ASTM D1946

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

CHAIN-OF-CUSTODY RECORD

EnviroMatrix Analytical, Inc.
4340 Viewridge Ave., Ste. A • San Diego, CA 92123 • Phone (858) 560-7717 • Fax (858) 560-7763

EMA LOG #: 0 [illegible] 18

EMA DATE/TIME STAMP

Client: [illegible]
Address: 7601 [illegible] Ste 210
[illegible] CA 92123
Attn: George Mc[illegible] Phone: 858-492-5035
Sampled by: [illegible] Fax: [illegible] 50411
Billing Address: [illegible] above
Project: [illegible] EMP [illegible] PO #:

REQUESTED ANALYSIS

EMA ID #	Client Sample ID	Sample Date	Sample Time	Sample Matrix	Container(s) #	Container(s) Type*	418.1 (TRPH)	Oil & Grease 413.1 ___ 413.2 ___ 1664 ___	TPH (8015B) Gas ___ Diesel ___	TPH-Extended 8015B ___ ASTM D2887 ___	602 / 8021 BTXE ___ MTBE ___	601 / 8021 (Purgeable Halocarbons)	608 / 8081 (Pesticides)	608 / 8082 (PCB's)	624 / 8260 (Volatile Organics)	625 / 8270 (Semi Volatile Organics)	TTLC Metals (CAC Title 22)	STLC Metals (CAC Title 22)	TCLP (RCRA) Metals ___ Organics ___	Cd Cr Cu Pb Ni Ag Zn	pH EC TSS TDS	[illegible]	[illegible]					
1	AMW-1 [illegible] 15305	[illegible]	[illegible]	[illegible]	1	S																X	X					
2	AMW-2 [illegible] 1141	"	[illegible]	"	1	S																X	X					
3	AMW-3 [illegible] 20 3352	"	11:06	"	1	S																X	X					
4	AMW-4 3047	"	10:40	"	1	S																X	X					
5	AMW 5 [illegible] 11	"	[illegible]	"	1	S																X	X					
6																												
7																												
8																												
9																												
10																												

*Container Types: B=Brass Tube; V=VOA; G=Glass; P=Plastic; O=Other (list)

Tamper-Proof Seals Intact: Yes No N/A
Correct Containers: Yes No
Sample(s): Cold Ambient Warm
VOAs w/ZHS: Yes No N/A
All Samples Properly Preserved: Yes No N/A
Disposal: N/C (aqueous) *EMA (@$5.00/sample) Return Hold
Turnaround Time: 24 hr 48 hr 3 day 4 day 5 day Normal
Comments:

RELINQUISHED BY	DATE/TIME	RECEIVED BY
Signature [illegible]	[illegible] 16:00	Signature [illegible]
Print [illegible]		Print [illegible]
Company: [illegible]		Company: [illegible]
Signature		Signature
Print		Print
Company:		Company:
Signature		Signature
Print		Print
Company:		Company:

*EMA reserves the right to return samples that do not match our [illegible] profile [illegible] - EMA C Acco [illegible] - Cli Repor Go J - Cli [illegible] (inquiri[illegible] samples)

MOBILE GEO CHEMISTRY

H&P

December 21, 2004

Mr. George R. Morton, Jr.
City of San Diego
9601 Ridge Haven Court
Suite 310
San Diego, CA 92123-1636

RECEIVED
JAN 0 5 2005

SUBJECT: DATA REPORT – ARIZONA STREET LF EMP - CITY OF SAN DIEGO PROJECT

H&P Project # SC121404-10

Mr. Morton, Jr.:

Please find enclosed a data report for the above referenced location. Vapor samples were analyzed in DOHS certified mobile laboratory (CERT #1745).

Project Summary

The following analyses were conducted:

- 6 vapors for methane by Modified EPA Method 8015B
- 6 vapors for fixed gases by ASTM Method 1945-96

The samples were received in tedlar bags with appropriate labels, seals, and chain-of-custody documentation.

Project Narrative

The results for all analyses and required QA/QC analyses are summarized in the enclosed tables. All calibrations, blanks, surrogates, and spike recoveries fulfill quality control criteria. No data qualifiers (flags) apply to any of the reported data.

H&P Mobile GeoChemistry appreciates the opportunity to provide analytical services to City of San Diego on this project. If you have any questions relating to this data or report, please do not hesitate to contact us.

Sincerely,

Blayne Hartman

Dr. Blayne Hartman

432 North Cedros Avenue, Solana Beach, California 92075 | 858 793.0401 — Fax 858 793.0404
148 South Vinewood Street, Escondido, California 92029 | 760 735.3208 — Fax 760 735.2469
2373 208th Street, Suite F-1, Torrance, California 90501 | 310 782.2929 — Fax 310 782.2798
www.HandPmg.com | 1-800-834-9888

MOBILE GEOCHEMISTRY

H&P

City of San Diego	H&P Project: SC121404-10	
9601 Ridgehaven Court Suite 310	Project Number: Arizona Street LF EMP	Reported:
San Diego CA, 92123	Project Manager: Mr. George Morton	21-Dec-04

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AZ Probe 11D, AMW-5	W412020-01	Vapor	14-Dec-04	14-Dec-04
AMW-6	W412020-02	Vapor	14-Dec-04	14-Dec-04
AMW-4	W412020-03	Vapor	14-Dec-04	14-Dec-04
Probe 7, AMW-2	W412020-04	Vapor	14-Dec-04	14-Dec-04
Probe 15, AMW-1	W412020-05	Vapor	14-Dec-04	14-Dec-04
A Gas Well 8d, AMW-3	W412020-06	Vapor	14-Dec-04	14-Dec-04

MOBILE GEOCHEMISTRY

H&P

City of San Diego	H&P Project: SC121404-10	
9601 Ridgehaven Court Suite 310	Project Number: Arizona Street LF EMP	Reported:
San Diego CA, 92123	Project Manager: Mr. George Morton	21-Dec-04

Soil Gas Analyses

H&P Mobile Geochemistry Lab W1

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Analyzed	Method	Notes
AZ Probe 11D, AMW-5 (W412020-01) Vapor Sampled: 14-Dec-04 Received: 14-Dec-04								
Oxygen	2.7	1	%	1	WL41502	15-Dec-04	ASTM 1945-96	
Carbon Dioxide	17	0.1	"	"	"	"	"	
Nitrogen	72	1	"	"	"	"	"	
Methane	152000	2000	ppmv	200	WL41501	15-Dec-04	EPA 8015B mod.	
AMW-6 (W412020-02) Vapor Sampled: 14-Dec-04 Received: 14-Dec-04								
Oxygen	12	1	%	1	WL41502	15-Dec-04	ASTM 1945-96	
Carbon Dioxide	8.2	0.1	"	"	"	"	"	
Nitrogen	83	1	"	"	"	"	"	
Methane	39500	1000	ppmv	100	WL41501	15-Dec-04	EPA 8015B mod.	
AMW-4 (W412020-03) Vapor Sampled: 14-Dec-04 Received: 14-Dec-04								
Oxygen	22	1	%	1	WL41502	15-Dec-04	ASTM 1945-96	
Carbon Dioxide	0.11	0.1	"	"	"	"	"	
Nitrogen	84	1	"	"	"	"	"	
Methane	65.0	10	ppmv	"	WL41501	15-Dec-04	EPA 8015B mod.	
Probe 7, AMW-2 (W412020-04) Vapor Sampled: 14-Dec-04 Received: 14-Dec-04								
Oxygen	7.5	1	%	1	WL41502	15-Dec-04	ASTM 1945-96	
Carbon Dioxide	12	0.1	"	"	"	"	"	
Nitrogen	85	1	"	"	"	"	"	
Methane	ND	10	ppmv	"	WL41501	15-Dec-04	EPA 8015B mod.	
Probe 15, AMW-1 (W412020-05) Vapor Sampled: 14-Dec-04 Received: 14-Dec-04								
Oxygen	3.0	1	%	1	WL41502	15-Dec-04	ASTM 1945-96	
Carbon Dioxide	15	0.1	"	"	"	"	"	
Nitrogen	86	1	"	"	"	"	"	
Methane	19400	1000	ppmv	100	WL41501	15-Dec-04	EPA 8015B mod.	
A Gas Well 8d, AMW-3 (W412020-06) Vapor Sampled: 14-Dec-04 Received: 14-Dec-04								
Oxygen	9.7	1	%	1	WL41502	15-Dec-04	ASTM 1945-96	
Carbon Dioxide	13	0.1	"	"	"	"	"	
Nitrogen	79	1	"	"	"	"	"	
Methane	79200	1000	ppmv	100	WL41501	15-Dec-04	EPA 8015B mod.	

Blayne Hartman

MOBILE GEOCHEMISTRY
H&P

City of San Diego	H&P Project: SC121404-10	
9601 Ridgehaven Court Suite 310	Project Number: Arizona Street LF EMP	Reported:
San Diego CA, 92123	Project Manager: Mr. George Morton	21-Dec-04

Soil Gas Analyses - Quality Control
H&P Mobile Geochemistry Lab W1

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch WL41501 - Direct injection										
Blank (WL41501-BLK1)				Prepared & Analyzed: 15-Dec-04						
Methane	ND	10	ppmv							
Batch WL41502 - Direct injection										
Blank (WL41502-BLK1)				Prepared & Analyzed: 15-Dec-04						
Carbon Dioxide	ND	0.100	%							

MOBILE GEOCHEMISTRY

H&P

City of San Diego	H&P Project: SC121404-10	
9601 Ridgehaven Court Suite 310	Project Number: Arizona Street LF EMP	Reported:
San Diego CA, 92123	Project Manager: Mr. George Morton	21-Dec-04

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

MOBILE GEOCHEMISTRY

H&P

Chain of Custody Record

☐ 148 S. Vinewood St., Escondido, CA 92029 • ph 760.735.3208 • fax 760.735.2469
☐ 432 N. Cedros Ave., Solana Beach, CA 92075 • ph 858.793.0401 • fax 858.793.0404
☐ 2373 208th Street Unit F-1, Torrance, CA 90501 • ph 310.782.2929 • fax 310.782.2798

Date: 12-14-04

H&P Project #: SC1211U1.10

Outside Lab:

Client: City of San Diego

Address: 9601 Ridgehaven Ct. Ste 310, San Diego CA 92123

Phone: 858-492-5035 Fax: 492-5041

Collector: Humphreys

Client Project #:

Location: Arizona Street LF & EMP

Turn around time: Standard

Page: 1 of 1

Project Manager: George Morton

Global ID:

EDF: Yes / No

Pls. fax results when done

Sample Receipt

Intact: ☒ Yes ☐ No

Seal Intact: ☒ Yes ☐ No ☐ N/A

Cold: ☐ Yes ☒ No

N/A (Received on Site)

Sample Name	Field Point Name	Depth	Time	Date	Sample Type	Container Type	TPH gasoline / diesel	TPH extended	8021 for BTEX/MTBE	8021 for Halogenated compounds	418.1 TRPH	8260B BTEX / Oxygenates	8260B Oxygenates	8260B VOC's	8260B VOC's and Oxygenates	Methane	Fixed Gases							Total # of containers
Az Probe 11 D AMW-5			9:10	12/14/04	Gas	Teflon									X	X	X							
AMW-6			9:27	"	"	"									X	X	X							
AMW-4			9:42	"	"	"									X	X	X							
Probe 7, AMW-2			10:00	"	"	"									X	X	X							
Probe 15, AMW-1			10:10	"	"	"									X	X	X							
Gas Well 8d - AMW-3			10:20	"	"	"									X	X	X							

Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:
[signature]	City of San Diego	[signature]	A.P	12-14-04	14:15
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:

*Signature constitutes authorization to proceed with analysis and acceptance of condition on back.

Sample disposal instruction: ☐ Disposal @ $2.00 each ☐ Return to client ☐ Pickup

MOBILE GEOCHEMISTRY

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JAN 0 4 2005

22 December 2004

ıvlr. George Morton
'ity of San Diego
601 Ridgehaven, Ste. 310
San Diego, CA 92123
:E: SC121504-33

nclosed are the results of analyses for samples received by the laboratory on 14-Dec-04 . If you have any questions ɔnceming this report, please feel free to contact me.

'Incerely,

J Pick for

ı amara Davis
' aboratory Director

''&P Mobile Geochemistry operates under CA Environmental Lab Accreditation Program Numbers 1317, 1561, 1867, 1745, 1746, 139, 2088, 2278, 2530 and 2543.

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City of San Diego 9601 Ridgehaven, Ste. 310 San Diego CA, 92123	Project: SC121504-33 Project Number: Arizona St. LF EMP Project Manager: Mr. George Morton	Reported: 22-Dec-04

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AZ Probe 11D AMW5	E412041-01	Vapor	14-Dec-04	14-Dec-04
AMW-6	E412041-02	Vapor	14-Dec-04	14-Dec-04
AMW-4	E412041-03	Vapor	14-Dec-04	14-Dec-04
Probe 7, AMW-2	E412041-04	Vapor	14-Dec-04	14-Dec-04
Probe 15, AMW-1	E412041-05	Vapor	14-Dec-04	14-Dec-04
A Gas Well 8d, AMW-3	E412041-06	Vapor	14-Dec-04	14-Dec-04

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City of San Diego 9601 Ridgehaven, Ste. 310 San Diego CA, 92123	Project: SC121504-33 Project Number: Arizona St. LF EMP Project Manager: Mr. George Morton	Reported: 22-Dec-04

Volatile Organic Compounds by EPA Method 8260B

H & P Mobile Geochemistry Lab 6

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
Z Probe 11D AMWS (E412041-01) Vapor	Sampled: 14-Dec-04	Received: 14-Dec-04							
Dichlorodifluoromethane	11,300	200	ppbv	0.05	6L41701	17-Dec-04	17-Dec-04	EPA 8260B	
Chloromethane	ND	490	ppbv	"	"	"	"	"	
Vinyl chloride	ND	390	ppbv	"	"	"	"	"	
Bromomethane	ND	260	ppbv	"	"	"	"	"	
Chloroethane	ND	380	ppbv	"	"	"	"	"	
Trichlorofluoromethane	ND	180	ppbv	"	"	"	"	"	
1,1-Dichloroethene	ND	250	ppbv	"	"	"	"	"	
Methylene chloride	ND	290	ppbv	"	"	"	"	"	
Methyl tert-butyl ether	ND	280	ppbv	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	250	ppbv	"	"	"	"	"	
Di-isopropyl ether	ND	240	ppbv	"	"	"	"	"	
1,1-Dichloroethane	ND	250	ppbv	"	"	"	"	"	
Ethyl tert-butyl ether	ND	240	ppbv	"	"	"	"	"	
2,2-Dichloropropane	ND	220	ppbv	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	250	ppbv	"	"	"	"	"	
Chloroform	ND	210	ppbv	"	"	"	"	"	
Bromochloromethane	ND	190	ppbv	"	"	"	"	"	
1,1,1-Trichloroethane	ND	200	ppbv	"	"	"	"	"	
1,1-Dichloropropene	ND	220	ppbv	"	"	"	"	"	
Carbon tetrachloride	ND	160	ppbv	"	"	"	"	"	
1,2-Dichloroethane	ND	250	ppbv	"	"	"	"	"	
Tert-amyl methyl ether	ND	240	ppbv	"	"	"	"	"	
Benzene	ND	310	ppbv	"	"	"	"	"	
Trichloroethene	ND	190	ppbv	"	"	"	"	"	
1,2-Dichloropropane	ND	220	ppbv	"	"	"	"	"	
Bromodichloromethane	ND	150	ppbv	"	"	"	"	"	
Dibromomethane	ND	140	ppbv	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	220	ppbv	"	"	"	"	"	
Toluene	ND	270	ppbv	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	220	ppbv	"	"	"	"	"	
1,1,2-Trichloroethane	ND	200	ppbv	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	130	ppbv	"	"	"	"	"	
1,3-Dichloropropane	ND	220	ppbv	"	"	"	"	"	
Tetrachloroethene	370	150	ppbv	"	"	"	"	"	
Dibromochloromethane	ND	120	ppbv	"	"	"	"	"	
Chlorobenzene	ND	220	ppbv	"	"	"	"	"	
Ethylbenzene	ND	230	ppbv	"	"	"	"	"	

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City of San Diego 9601 Ridgehaven, Ste. 310 San Diego CA, 92123	Project: SC121504-33 Project Number: Arizona St. LF EMP Project Manager: Mr. George Morton	Reported: 22-Dec-04

Volatile Organic Compounds by EPA Method 8260B

H & P Mobile Geochemistry Lab 6

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
AZ Probe 11D AMW5 (E412041-01) Vapor	**Sampled: 14-Dec-04**		**Received: 14-Dec-04**						
1,1,1,2-Tetrachloroethane	ND	150	ppbv	0.05	6L41701	17-Dec-04	17-Dec-04	EPA 8260B	
m,p-Xylene	ND	460	ppbv	"	"	"	"	"	
o-Xylene	ND	230	ppbv	"	"	"	"	"	
Styrene	ND	240	ppbv	"	"	"	"	"	
Bromoform	ND	100	ppbv	"	"	"	"	"	
Isopropylbenzene	ND	200	ppbv	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	150	ppbv	"	"	"	"	"	
1,2,3-Trichloropropane	ND	170	ppbv	"	"	"	"	"	
n-Propylbenzene	ND	200	ppbv	"	"	"	"	"	
Bromobenzene	ND	160	ppbv	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	200	ppbv	"	"	"	"	"	
2-Chlorotoluene	ND	190	ppbv	"	"	"	"	"	
4-Chlorotoluene	ND	190	ppbv	"	"	"	"	"	
tert-Butylbenzene	ND	180	ppbv	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	200	ppbv	"	"	"	"	"	
sec-Butylbenzene	ND	180	ppbv	"	"	"	"	"	
p-Isopropyltoluene	ND	180	ppbv	"	"	"	"	"	
1,3-Dichlorobenzene	ND	170	ppbv	"	"	"	"	"	
1,4-Dichlorobenzene	ND	170	ppbv	"	"	"	"	"	
n-Butylbenzene	ND	180	ppbv	"	"	"	"	"	
1,2-Dichlorobenzene	ND	170	ppbv	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	100	ppbv	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	140	ppbv	"	"	"	"	"	
Hexachlorobutadiene	ND	90	ppbv	"	"	"	"	"	
Naphthalene	ND	190	ppbv	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	140	ppbv	"	"	"	"	"	
Tert-butyl alcohol	ND	1650	ppbv	"	"	"	"	"	
Surrogate: Dibromofluoromethane	*96.4 %*	*75-125*			"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	*100 %*	*75-125*			"	"	"	"	
Surrogate: Toluene-d8	*89.6 %*	*75-125*			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	*92.8 %*	*75-125*			"	"	"	"	

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City of San Diego 9601 Ridgehaven, Ste. 310 San Diego CA, 92123	Project: SC121504-33 Project Number: Arizona St. LF EMP Project Manager: Mr. George Morton	Reported: 22-Dec-04

Volatile Organic Compounds by EPA Method 8260B

H & P Mobile Geochemistry Lab 6

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
AMW-6 (E412041-02) Vapor	Sampled: 14-Dec-04	Received: 14-Dec-04							
Dichlorodifluoromethane	4,300	200	ppbv	0.05	6L41701	17-Dec-04	17-Dec-04	EPA 8260B	
Chloromethane	ND	490	ppbv	"	"	"	"	"	
Vinyl chloride	ND	390	ppbv	"	"	"	"	"	
Bromomethane	ND	260	ppbv	"	"	"	"	"	
Chloroethane	ND	380	ppbv	"	"	"	"	"	
Trichlorofluoromethane	ND	180	ppbv	"	"	"	"	"	
1,1-Dichloroethene	ND	250	ppbv	"	"	"	"	"	
Methylene chloride	ND	290	ppbv	"	"	"	"	"	
Methyl tert-butyl ether	ND	280	ppbv	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	250	ppbv	"	"	"	"	"	
Di-isopropyl ether	ND	240	ppbv	"	"	"	"	"	
1,1-Dichloroethane	ND	250	ppbv	"	"	"	"	"	
Ethyl tert-butyl ether	ND	240	ppbv	"	"	"	"	"	
2,2-Dichloropropane	ND	220	ppbv	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	250	ppbv	"	"	"	"	"	
Chloroform	ND	210	ppbv	"	"	"	"	"	
Bromochloromethane	ND	190	ppbv	"	"	"	"	"	
1,1,1-Trichloroethane	ND	200	ppbv	"	"	"	"	"	
1,1-Dichloropropene	ND	220	ppbv	"	"	"	"	"	
Carbon tetrachloride	ND	160	ppbv	"	"	"	"	"	
1,2-Dichloroethane	ND	250	ppbv	"	"	"	"	"	
Tert-amyl methyl ether	ND	240	ppbv	"	"	"	"	"	
Benzene	ND	310	ppbv	"	"	"	"	"	
Trichloroethene	ND	190	ppbv	"	"	"	"	"	
1,2-Dichloropropane	ND	220	ppbv	"	"	"	"	"	
Bromodichloromethane	ND	150	ppbv	"	"	"	"	"	
Dibromomethane	ND	140	ppbv	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	220	ppbv	"	"	"	"	"	
Toluene	ND	270	ppbv	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	220	ppbv	"	"	"	"	"	
1,1,2-Trichloroethane	ND	200	ppbv	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	130	ppbv	"	"	"	"	"	
1,3-Dichloropropane	ND	220	ppbv	"	"	"	"	"	
Tetrachloroethene	ND	150	ppbv	"	"	"	"	"	
Dibromochloromethane	ND	120	ppbv	"	"	"	"	"	
Chlorobenzene	ND	220	ppbv	"	"	"	"	"	
Ethylbenzene	ND	230	ppbv	"	"	"	"	"	

MOBILE GEOCHEMISTRY
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City of San Diego 9601 Ridgehaven, Ste. 310 San Diego CA, 92123	Project: SC121504-33 Project Number: Arizona St. LF BMP Project Manager: Mr. George Morton	Reported: 22-Dec-04

Volatile Organic Compounds by EPA Method 8260B

H & P Mobile Geochemistry Lab 6

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
AMW-6 (E412041-02) Vapor	**Sampled: 14-Dec-04**	**Received: 14-Dec-04**							
1,1,1,2-Tetrachloroethane	ND	150	ppbv	0.05	6L41701	17-Dec-04	17-Dec-04	EPA 8260B	
m,p-Xylene	ND	460	ppbv	"	"	"	"	"	
o-Xylene	ND	230	ppbv	"	"	"	"	"	
Styrene	ND	240	ppbv	"	"	"	"	"	
Bromoform	ND	100	ppbv	"	"	"	"	"	
Isopropylbenzene	ND	200	ppbv	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	150	ppbv	"	"	"	"	"	
1,2,3-Trichloropropane	ND	170	ppbv	"	"	"	"	"	
n-Propylbenzene	ND	200	ppbv	"	"	"	"	"	
Bromobenzene	ND	160	ppbv	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	200	ppbv	"	"	"	"	"	
2-Chlorotoluene	ND	190	ppbv	"	"	"	"	"	
4-Chlorotoluene	ND	190	ppbv	"	"	"	"	"	
tert-Butylbenzene	ND	180	ppbv	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	200	ppbv	"	"	"	"	"	
sec-Butylbenzene	ND	180	ppbv	"	"	"	"	"	
p-Isopropyltoluene	ND	180	ppbv	"	"	"	"	"	
1,3-Dichlorobenzene	ND	170	ppbv	"	"	"	"	"	
1,4-Dichlorobenzene	ND	170	ppbv	"	"	"	"	"	
n-Butylbenzene	ND	180	ppbv	"	"	"	"	"	
1,2-Dichlorobenzene	ND	170	ppbv	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	100	ppbv	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	140	ppbv	"	"	"	"	"	
Hexachlorobutadiene	ND	90	ppbv	"	"	"	"	"	
Naphthalene	ND	190	ppbv	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	140	ppbv	"	"	"	"	"	
Tert-butyl alcohol	ND	1650	ppbv	"	"	"	"	"	
Surrogate: Dibromofluoromethane	*102 %*	*75-125*			"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	*101 %*	*75-125*			"	"	"	"	
Surrogate: Toluene-d8	*89.2 %*	*75-125*			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	*91.2 %*	*75-125*			"	"	"	"	

MOBILE GEOCHEMISTRY
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City of San Diego 9601 Ridgehaven, Ste. 310 San Diego CA, 92123	Project: SC121504-33 Project Number: Arizona St. LF EMP Project Manager: Mr. George Morton	Reported: 22-Dec-04

Volatile Organic Compounds by EPA Method 8260B

H & P Mobile Geochemistry Lab 6

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
AMW-4 (E412041-03) Vapor Sampled: 14-Dec-04 Received: 14-Dec-04									
Dichlorodifluoromethane	ND	200	ppbv	0.05	6L41701	17-Dec-04	17-Dec-04	EPA 8260B	
Chloromethane	ND	490	ppbv	"	"	"	"	"	
Vinyl chloride	ND	390	ppbv	"	"	"	"	"	
Bromomethane	ND	260	ppbv	"	"	"	"	"	
Chloroethane	ND	380	ppbv	"	"	"	"	"	
Trichlorofluoromethane	ND	180	ppbv	"	"	"	"	"	
1,1-Dichloroethene	ND	250	ppbv	"	"	"	"	"	
Methylene chloride	ND	290	ppbv	"	"	"	"	"	
Methyl tert-butyl ether	ND	280	ppbv	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	250	ppbv	"	"	"	"	"	
Di-isopropyl ether	ND	240	ppbv	"	"	"	"	"	
1,1-Dichloroethane	ND	250	ppbv	"	"	"	"	"	
Ethyl tert-butyl ether	ND	240	ppbv	"	"	"	"	"	
2,2-Dichloropropane	ND	220	ppbv	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	250	ppbv	"	"	"	"	"	
Chloroform	ND	210	ppbv	"	"	"	"	"	
Bromochloromethane	ND	190	ppbv	"	"	"	"	"	
1,1,1-Trichloroethane	ND	200	ppbv	"	"	"	"	"	
1,1-Dichloropropene	ND	220	ppbv	"	"	"	"	"	
Carbon tetrachloride	ND	160	ppbv	"	"	"	"	"	
1,2-Dichloroethane	ND	250	ppbv	"	"	"	"	"	
Tert-amyl methyl ether	ND	240	ppbv	"	"	"	"	"	
Benzene	ND	310	ppbv	"	"	"	"	"	
Trichloroethene	ND	190	ppbv	"	"	"	"	"	
1,2-Dichloropropane	ND	220	ppbv	"	"	"	"	"	
Bromodichloromethane	ND	150	ppbv	"	"	"	"	"	
Dibromomethane	ND	140	ppbv	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	220	ppbv	"	"	"	"	"	
Toluene	ND	270	ppbv	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	220	ppbv	"	"	"	"	"	
1,1,2-Trichloroethane	ND	200	ppbv	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	130	ppbv	"	"	"	"	"	
1,3-Dichloropropane	ND	220	ppbv	"	"	"	"	"	
Tetrachloroethene	ND	150	ppbv	"	"	"	"	"	
Dibromochloromethane	ND	120	ppbv	"	"	"	"	"	
Chlorobenzene	ND	220	ppbv	"	"	"	"	"	
Ethylbenzene	ND	230	ppbv	"	"	"	"	"	

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H&P

City of San Diego 9601 Ridgehaven, Ste. 310 San Diego CA, 92123	Project: SC121504-33 Project Number: Arizona St. LF EMP Project Manager: Mr. George Morton	Reported: 22-Dec-04

Volatile Organic Compounds by EPA Method 8260B

H & P Mobile Geochemistry Lab 6

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
AMW-4 (E412041-03) Vapor Sampled: 14-Dec-04 Received: 14-Dec-04									
1,1,1,2-Tetrachloroethane	ND	150	ppbv	0.05	6L41701	17-Dec-04	17-Dec-04	EPA 8260B	
m,p-Xylene	ND	460	ppbv	"	"	"	"	"	
o-Xylene	ND	230	ppbv	"	"	"	"	"	
Styrene	ND	240	ppbv	"	"	"	"	"	
Bromoform	ND	100	ppbv	"	"	"	"	"	
Isopropylbenzene	ND	200	ppbv	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	150	ppbv	"	"	"	"	"	
1,2,3-Trichloropropane	ND	170	ppbv	"	"	"	"	"	
n-Propylbenzene	ND	200	ppbv	"	"	"	"	"	
Bromobenzene	ND	160	ppbv	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	200	ppbv	"	"	"	"	"	
2-Chlorotoluene	ND	190	ppbv	"	"	"	"	"	
4-Chlorotoluene	ND	190	ppbv	"	"	"	"	"	
tert-Butylbenzene	ND	180	ppbv	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	200	ppbv	"	"	"	"	"	
sec-Butylbenzene	ND	180	ppbv	"	"	"	"	"	
p-Isopropyltoluene	ND	180	ppbv	"	"	"	"	"	
1,3-Dichlorobenzene	ND	170	ppbv	"	"	"	"	"	
1,4-Dichlorobenzene	ND	170	ppbv	"	"	"	"	"	
n-Butylbenzene	ND	180	ppbv	"	"	"	"	"	
1,2-Dichlorobenzene	ND	170	ppbv	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	100	ppbv	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	140	ppbv	"	"	"	"	"	
Hexachlorobutadiene	ND	90	ppbv	"	"	"	"	"	
Naphthalene	ND	190	ppbv	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	140	ppbv	"	"	"	"	"	
Tert-butyl alcohol	ND	1650	ppbv	"	"	"	"	"	
Surrogate: Dibromofluoromethane	*99.2 %*	*75-125*			"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	*103 %*	*75-125*			"	"	"	"	
Surrogate: Toluene-d8	*87.2 %*	*75-125*			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	*94.4 %*	*75-125*			"	"	"	"	

MOBILE GEOCHEMISTRY

H&P

City of San Diego 9601 Ridgehaven, Ste. 310 San Diego CA, 92123	Project: SC121504-33 Project Number: Arizona St. LF EMP Project Manager: Mr. George Morton	Reported: 22-Dec-04

Volatile Organic Compounds by EPA Method 8260B

H & P Mobile Geochemistry Lab 6

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
'robe 7, AMW-2 (E412041-04) Vapor Sampled: 14-Dec-04 Received: 14-Dec-04									
Dichlorodifluoromethane	ND	200	ppbv	0.05	6L41701	17-Dec-04	17-Dec-04	EPA 8260B	
Chloromethane	ND	490	ppbv	"	"	"	"	"	
Vinyl chloride	ND	390	ppbv	"	"	"	"	"	
Bromomethane	ND	260	ppbv	"	"	"	"	"	
Chloroethane	ND	380	ppbv	"	"	"	"	"	
Trichlorofluoromethane	ND	180	ppbv	"	"	"	"	"	
,1-Dichloroethene	ND	250	ppbv	"	"	"	"	"	
Methylene chloride	ND	290	ppbv	"	"	"	"	"	
Methyl tert-butyl ether	ND	280	ppbv	"	"	"	"	"	
rans-1,2-Dichloroethene	ND	250	ppbv	"	"	"	"	"	
Di-isopropyl ether	ND	240	ppbv	"	"	"	"	"	
',1-Dichloroethane	ND	250	ppbv	"	"	"	"	"	
Ethyl tert-butyl ether	ND	240	ppbv	"	"	"	"	"	
2,2-Dichloropropane	ND	220	ppbv	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	250	ppbv	"	"	"	"	"	
Chloroform	ND	210	ppbv	"	"	"	"	"	
Bromochloromethane	ND	190	ppbv	"	"	"	"	"	
1,1,1-Trichloroethane	ND	200	ppbv	"	"	"	"	"	
,1-Dichloropropene	ND	220	ppbv	"	"	"	"	"	
Carbon tetrachloride	ND	160	ppbv	"	"	"	"	"	
1,2-Dichloroethane	ND	250	ppbv	"	"	"	"	"	
Tert-amyl methyl ether	ND	240	ppbv	"	"	"	"	"	
Benzene	ND	310	ppbv	"	"	"	"	"	
Trichloroethene	ND	190	ppbv	"	"	"	"	"	
',2-Dichloropropane	ND	220	ppbv	"	"	"	"	"	
Bromodichloromethane	ND	150	ppbv	"	"	"	"	"	
Dibromomethane	ND	140	ppbv	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	220	ppbv	"	"	"	"	"	
Toluene	ND	270	ppbv	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	220	ppbv	"	"	"	"	"	
1,1,2-Trichloroethane	ND	200	ppbv	"	"	"	"	"	
,2-Dibromoethane (EDB)	ND	130	ppbv	"	"	"	"	"	
,3-Dichloropropane	ND	220	ppbv	"	"	"	"	"	
Tetrachloroethene	ND	150	ppbv	"	"	"	"	"	
Dibromochloromethane	ND	120	ppbv	"	"	"	"	"	
Chlorobenzene	ND	220	ppbv	"	"	"	"	"	
Ethylbenzene	ND	230	ppbv	"	"	"	"	"	

MOBILE GEOCHEMISTRY

H&P

City of San Diego 9601 Ridgehaven, Ste. 310 San Diego CA, 92123	Project: SC121504-33 Project Number: Arizona St. LF EMP Project Manager: Mr. George Morton	Reported: 22-Dec-04

Volatile Organic Compounds by EPA Method 8260B

H & P Mobile Geochemistry Lab 6

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
Probe 7, AMW-2 (E412041-04) Vapor Sampled: 14-Dec-04 Received: 14-Dec-04									
1,1,1,2-Tetrachloroethane	ND	150	ppbv	0.05	6L41701	17-Dec-04	17-Dec-04	EPA 8260B	
m,p-Xylene	ND	460	ppbv	"	"	"	"	"	
o-Xylene	ND	230	ppbv	"	"	"	"	"	
Styrene	ND	240	ppbv	"	"	"	"	"	
Bromoform	ND	100	ppbv	"	"	"	"	"	
Isopropylbenzene	ND	200	ppbv	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	150	ppbv	"	"	"	"	"	
1,2,3-Trichloropropane	ND	170	ppbv	"	"	"	"	"	
n-Propylbenzene	ND	200	ppbv	"	"	"	"	"	
Bromobenzene	ND	160	ppbv	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	200	ppbv	"	"	"	"	"	
2-Chlorotoluene	ND	190	ppbv	"	"	"	"	"	
4-Chlorotoluene	ND	190	ppbv	"	"	"	"	"	
tert-Butylbenzene	ND	180	ppbv	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	200	ppbv	"	"	"	"	"	
sec-Butylbenzene	ND	180	ppbv	"	"	"	"	"	
p-Isopropyltoluene	ND	180	ppbv	"	"	"	"	"	
1,3-Dichlorobenzene	ND	170	ppbv	"	"	"	"	"	
1,4-Dichlorobenzene	ND	170	ppbv	"	"	"	"	"	
n-Butylbenzene	ND	180	ppbv	"	"	"	"	"	
1,2-Dichlorobenzene	ND	170	ppbv	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	100	ppbv	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	140	ppbv	"	"	"	"	"	
Hexachlorobutadiene	ND	90	ppbv	"	"	"	"	"	
Naphthalene	ND	190	ppbv	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	140	ppbv	"	"	"	"	"	
Tert-butyl alcohol	ND	1650	ppbv	"	"	"	"	"	
Surrogate: Dibromofluoromethane	*96.8 %*	*75-125*			"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	*99.2 %*	*75-125*			"	"	"	"	
Surrogate: Toluene-d8	*88.0 %*	*75-125*			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	*92.8 %*	*75-125*			"	"	"	"	

MOBILE GEOCHEMISTRY

H&P

City of San Diego 9601 Ridgehaven, Ste. 310 San Diego CA, 92123	Project: SC121504-33 Project Number: Arizona St. LF EMP Project Manager: Mr. George Morton	Reported: 22-Dec-04

Volatile Organic Compounds by EPA Method 8260B

H & P Mobile Geochemistry Lab 6

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
'robe 15, AMW-1 (E412041-05) Vapor Sampled: 14-Dec-04 Received: 14-Dec-04									
Dichlorodifluoromethane	4,300	200	ppbv	0.05	6L41701	17-Dec-04	17-Dec-04	EPA 8260B	
Chloromethane	ND	490	ppbv	"	"	"	"	"	
/inyl chloride	ND	390	ppbv	"	"	"	"	"	
Bromomethane	ND	260	ppbv	"	"	"	"	"	
Chloroethane	ND	380	ppbv	"	"	"	"	"	
'richlorofluoromethane	ND	180	ppbv	"	"	"	"	"	
,1-Dichloroethene	ND	250	ppbv	"	"	"	"	"	
Methylene chloride	ND	290	ppbv	"	"	"	"	"	
'Methyl tert-butyl ether	ND	280	ppbv	"	"	"	"	"	
rans-1,2-Dichloroethene	ND	250	ppbv	"	"	"	"	"	
Di-isopropyl ether	ND	240	ppbv	"	"	"	"	"	
1,1-Dichloroethane	ND	250	ppbv	"	"	"	"	"	
Ethyl tert-butyl ether	ND	240	ppbv	"	"	"	"	"	
2,2-Dichloropropane	ND	220	ppbv	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	250	ppbv	"	"	"	"	"	
Chloroform	ND	210	ppbv	"	"	"	"	"	
Bromochloromethane	ND	190	ppbv	"	"	"	"	"	
1,1,1-Trichloroethane	ND	200	ppbv	"	"	"	"	"	
,1-Dichloropropene	ND	220	ppbv	"	"	"	"	"	
Carbon tetrachloride	ND	160	ppbv	"	"	"	"	"	
1,2-Dichloroethane	ND	250	ppbv	"	"	"	"	"	
Tert-amyl methyl ether	ND	240	ppbv	"	"	"	"	"	
Benzene	ND	310	ppbv	"	"	"	"	"	
Trichloroethene	ND	190	ppbv	"	"	"	"	"	
1,2-Dichloropropane	ND	220	ppbv	"	"	"	"	"	
Bromodichloromethane	ND	150	ppbv	"	"	"	"	"	
Dibromomethane	ND	140	ppbv	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	220	ppbv	"	"	"	"	"	
Toluene	ND	270	ppbv	"	"	"	"	"	
rans-1,3-Dichloropropene	ND	220	ppbv	"	"	"	"	"	
1,1,2-Trichloroethane	ND	200	ppbv	"	"	"	"	"	
,2-Dibromoethane (EDB)	ND	130	ppbv	"	"	"	"	"	
,3-Dichloropropane	ND	220	ppbv	"	"	"	"	"	
Tetrachloroethene	280	150	ppbv	"	"	"	"	"	
Dibromochloromethane	ND	120	ppbv	"	"	"	"	"	
Chlorobenzene	ND	220	ppbv	"	"	"	"	"	
Ethylbenzene	ND	230	ppbv	"	"	"	"	"	

MOBILE GEOCHEMISTRY
H&P

City of San Diego 9601 Ridgehaven, Ste. 310 San Diego CA, 92123	Project: SC121504-33 Project Number: Arizona St. LF EMP Project Manager: Mr. George Morton	Reported: 22-Dec-04

Volatile Organic Compounds by EPA Method 8260B

H & P Mobile Geochemistry Lab 6

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
Probe 15, AMW-1 (E412041-05) Vapor Sampled: 14-Dec-04 Received: 14-Dec-04									
1,1,1,2-Tetrachloroethane	ND	150	ppbv	0.05	6L41701	17-Dec-04	17-Dec-04	EPA 8260B	
m,p-Xylene	ND	460	ppbv	"	"	"	"	"	
o-Xylene	ND	230	ppbv	"	"	"	"	"	
Styrene	ND	240	ppbv	"	"	"	"	"	
Bromoform	ND	100	ppbv	"	"	"	"	"	
Isopropylbenzene	ND	200	ppbv	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	150	ppbv	"	"	"	"	"	
1,2,3-Trichloropropane	ND	170	ppbv	"	"	"	"	"	
n-Propylbenzene	ND	200	ppbv	"	"	"	"	"	
Bromobenzene	ND	160	ppbv	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	200	ppbv	"	"	"	"	"	
2-Chlorotoluene	ND	190	ppbv	"	"	"	"	"	
4-Chlorotoluene	ND	190	ppbv	"	"	"	"	"	
tert-Butylbenzene	ND	180	ppbv	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	200	ppbv	"	"	"	"	"	
sec-Butylbenzene	ND	180	ppbv	"	"	"	"	"	
p-Isopropyltoluene	ND	180	ppbv	"	"	"	"	"	
1,3-Dichlorobenzene	ND	170	ppbv	"	"	"	"	"	
1,4-Dichlorobenzene	ND	170	ppbv	"	"	"	"	"	
n-Butylbenzene	ND	180	ppbv	"	"	"	"	"	
1,2-Dichlorobenzene	ND	170	ppbv	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	100	ppbv	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	140	ppbv	"	"	"	"	"	
Hexachlorobutadiene	ND	90	ppbv	"	"	"	"	"	
Naphthalene	ND	190	ppbv	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	140	ppbv	"	"	"	"	"	
Tert-butyl alcohol	ND	1650	ppbv	"	"	"	"	"	
Surrogate: Dibromofluoromethane	*94.4 %*	*75-125*			"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	*98.4 %*	*75-125*			"	"	"	"	
Surrogate: Toluene-d8	*88.4 %*	*75-125*			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	*95.2 %*	*75-125*			"	"	"	"	

MOBILE GEOCHEMISTRY

H&P

City of San Diego 9601 Ridgehaven, Ste. 310 San Diego CA, 92123	Project: SC121504-33 Project Number: Arizona St. LF EMP Project Manager: Mr. George Morton	Reported: 22-Dec-04

Volatile Organic Compounds by EPA Method 8260B

H & P Mobile Geochemistry Lab 6

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
\ Gas Well 8d, AMW-3 (E412041-06) Vapor	Sampled: 14-Dec-04	Received: 14-Dec-04							
Dichlorodifluoromethane	390	200	ppbv	0.05	6L41701	17-Dec-04	17-Dec-04	EPA 8260B	
Chloromethane	ND	490	ppbv	"	"	"	"	"	
/inyl chloride	ND	390	ppbv	"	"	"	"	"	
3romomethane	ND	260	ppbv	"	"	"	"	"	
Chloroethane	ND	380	ppbv	"	"	"	"	"	
Trichlorofluoromethane	ND	180	ppbv	"	"	"	"	"	
,1-Dichloroethene	ND	250	ppbv	"	"	"	"	"	
Methylene chloride	ND	290	ppbv	"	"	"	"	"	
Methyl tert-butyl ether	ND	280	ppbv	"	"	"	"	"	
rans-1,2-Dichloroethene	ND	250	ppbv	"	"	"	"	"	
Di-isopropyl ether	ND	240	ppbv	"	"	"	"	"	
1,1-Dichloroethane	ND	250	ppbv	"	"	"	"	"	
3thyl tert-butyl ether	ND	240	ppbv	"	"	"	"	"	
2,2-Dichloropropane	ND	220	ppbv	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	250	ppbv	"	"	"	"	"	
Chloroform	ND	210	ppbv	"	"	"	"	"	
3romochloromethane	ND	190	ppbv	"	"	"	"	"	
1,1,1-Trichloroethane	ND	200	ppbv	"	"	"	"	"	
,1-Dichloropropene	ND	220	ppbv	"	"	"	"	"	
Carbon tetrachloride	ND	160	ppbv	"	"	"	"	"	
1,2-Dichloroethane	ND	250	ppbv	"	"	"	"	"	
Tert-amyl methyl ether	ND	240	ppbv	"	"	"	"	"	
3enzene	ND	310	ppbv	"	"	"	"	"	
Trichloroethene	ND	190	ppbv	"	"	"	"	"	
1,2-Dichloropropane	ND	220	ppbv	"	"	"	"	"	
3romodichloromethane	ND	150	ppbv	"	"	"	"	"	
Dibromomethane	ND	140	ppbv	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	220	ppbv	"	"	"	"	"	
Toluene	ND	270	ppbv	"	"	"	"	"	
rans-1,3-Dichloropropene	ND	220	ppbv	"	"	"	"	"	
1,1,2-Trichloroethane	ND	200	ppbv	"	"	"	"	"	
,2-Dibromoethane (EDB)	ND	130	ppbv	"	"	"	"	"	
,3-Dichloropropane	ND	220	ppbv	"	"	"	"	"	
Tetrachloroethene	ND	150	ppbv	"	"	"	"	"	
Dibromochloromethane	ND	120	ppbv	"	"	"	"	"	
Chlorobenzene	ND	220	ppbv	"	"	"	"	"	
Ethylbenzene	ND	230	ppbv	"	"	"	"	"	

MOBILE GEOCHEMISTRY

H&P

City of San Diego 9601 Ridgehaven, Ste. 310 San Diego CA, 92123	Project: SC121504-33 Project Number: Arizona St. LF EMP Project Manager: Mr. George Morton	Reported: 22-Dec-04

Volatile Organic Compounds by EPA Method 8260B

H & P Mobile Geochemistry Lab 6

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
A Gas Well 8d, AMW-3 (E412041-06) Vapor	**Sampled: 14-Dec-04**	**Received: 14-Dec-04**							
1,1,1,2-Tetrachloroethane	ND	150	ppbv	0.05	6L41701	17-Dec-04	17-Dec-04	EPA 8260B	
m,p-Xylene	ND	460	ppbv	"	"	"	"	"	
o-Xylene	ND	230	ppbv	"	"	"	"	"	
Styrene	ND	240	ppbv	"	"	"	"	"	
Bromoform	ND	100	ppbv	"	"	"	"	"	
Isopropylbenzene	ND	200	ppbv	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	150	ppbv	"	"	"	"	"	
1,2,3-Trichloropropane	ND	170	ppbv	"	"	"	"	"	
n-Propylbenzene	ND	200	ppbv	"	"	"	"	"	
Bromobenzene	ND	160	ppbv	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	200	ppbv	"	"	"	"	"	
2-Chlorotoluene	ND	190	ppbv	"	"	"	"	"	
4-Chlorotoluene	ND	190	ppbv	"	"	"	"	"	
tert-Butylbenzene	ND	180	ppbv	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	200	ppbv	"	"	"	"	"	
sec-Butylbenzene	ND	180	ppbv	"	"	"	"	"	
p-Isopropyltoluene	ND	180	ppbv	"	"	"	"	"	
1,3-Dichlorobenzene	ND	170	ppbv	"	"	"	"	"	
1,4-Dichlorobenzene	ND	170	ppbv	"	"	"	"	"	
n-Butylbenzene	ND	180	ppbv	"	"	"	"	"	
1,2-Dichlorobenzene	ND	170	ppbv	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	100	ppbv	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	140	ppbv	"	"	"	"	"	
Hexachlorobutadiene	ND	90	ppbv	"	"	"	"	"	
Naphthalene	ND	190	ppbv	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	140	ppbv	"	"	"	"	"	
Tert-butyl alcohol	ND	1650	ppbv	"	"	"	"	"	
Surrogate: Dibromofluoromethane	*99.6 %*	*75-125*			"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	*106 %*	*75-125*			"	"	"	"	
Surrogate: Toluene-d8	*87.6 %*	*75-125*			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	*94.8 %*	*75-125*			"	"	"	"	

MOBILE GEOCHEMISTRY

H&P

City of San Diego	Project: SC121504-3.3	
9601 Ridgehaven, Ste. 310	Project Number: Arizona St. LF EMP	Reported:
San Diego CA, 92123	Project Manager: Mr. George Morton	22-Dec-04

Volatile Organic Compounds by EPA Method 8260B - Quality Control

H & P Mobile Geochemistry Lab 6

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6L41701 - EPA 5030										
Blank (6L41701-BLK1)				Prepared & Analyzed: 17-Dec-04						
Dichlorodifluoromethane	ND	200	ppbv							
Chloromethane	ND	490	ppbv							
Vinyl chloride	ND	390	ppbv							
Bromomethane	ND	260	ppbv							
Chloroethane	ND	380	ppbv							
Trichlorofluoromethane	ND	180	ppbv							
1,1-Dichloroethene	ND	250	ppbv							
Methylene chloride	ND	290	ppbv							
Methyl tert-butyl ether	ND	280	ppbv							
trans-1,2-Dichloroethene	ND	250	ppbv							
Di-isopropyl ether	ND	240	ppbv							
1,1-Dichloroethane	ND	250	ppbv							
Ethyl tert-butyl ether	ND	240	ppbv							
2,2-Dichloropropane	ND	220	ppbv							
cis-1,2-Dichloroethene	ND	250	ppbv							
Chloroform	ND	210	ppbv							
Bromochloromethane	ND	190	ppbv							
1,1,1-Trichloroethane	ND	200	ppbv							
1,1-Dichloropropene	ND	220	ppbv							
Carbon tetrachloride	ND	160	ppbv							
1,2-Dichloroethane	ND	250	ppbv							
Tert-amyl methyl ether	ND	240	ppbv							
Benzene	ND	310	ppbv							
Trichloroethene	ND	190	ppbv							
1,2-Dichloropropane	ND	220	ppbv							
Bromodichloromethane	ND	150	ppbv							
Dibromomethane	ND	140	ppbv							
cis-1,3-Dichloropropene	ND	220	ppbv							
Toluene	ND	270	ppbv							
trans-1,3-Dichloropropene	ND	220	ppbv							
1,1,2-Trichloroethane	ND	200	ppbv							
1,2-Dibromoethane (EDB)	ND	130	ppbv							
1,3-Dichloropropane	ND	220	ppbv							

MOBILE GEOCHEMISTRY

H&P

City of San Diego	Project: SC121504-33	
9601 Ridgehaven, Ste. 310	Project Number: Arizona St. LF EMP	Reported:
San Diego CA, 92123	Project Manager: Mr. George Morton	22-Dec-04

Volatile Organic Compounds by EPA Method 8260B - Quality Control

H & P Mobile Geochemistry Lab 6

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6L41701 - EPA 5030										
Blank (6L41701-BLK1)				Prepared & Analyzed: 17-Dec-04						
Tetrachloroethene	ND	150	ppbv							
Dibromochloromethane	ND	120	ppbv							
Chlorobenzene	ND	220	ppbv							
Ethylbenzene	ND	230	ppbv							
1,1,1,2-Tetrachloroethane	ND	150	ppbv							
m,p-Xylene	ND	460	ppbv							
o-Xylene	ND	230	ppbv							
Styrene	ND	240	ppbv							
Bromoform	ND	100	ppbv							
Isopropylbenzene	ND	200	ppbv							
1,1,2,2-Tetrachloroethane	ND	150	ppbv							
1,2,3-Trichloropropane	ND	170	ppbv							
n-Propylbenzene	ND	200	ppbv							
Bromobenzene	ND	160	ppbv							
1,3,5-Trimethylbenzene	ND	200	ppbv							
2-Chlorotoluene	ND	190	ppbv							
4-Chlorotoluene	ND	190	ppbv							
tert-Butylbenzene	ND	180	ppbv							
1,2,4-Trimethylbenzene	ND	200	ppbv							
sec-Butylbenzene	ND	180	ppbv							
p-Isopropyltoluene	ND	180	ppbv							
1,3-Dichlorobenzene	ND	170	ppbv							
1,4-Dichlorobenzene	ND	170	ppbv							
n-Butylbenzene	ND	180	ppbv							
1,2-Dichlorobenzene	ND	170	ppbv							
1,2-Dibromo-3-chloropropane	ND	100	ppbv							
1,2,4-Trichlorobenzene	ND	140	ppbv							
Hexachlorobutadiene	ND	90	ppbv							
Naphthalene	ND	190	ppbv							
1,2,3-Trichlorobenzene	ND	140	ppbv							
Tert-butyl alcohol	ND	1,650	ppbv							
Surrogate: Dibromofluoromethane	*2.46*			*2.50*		*98.4*	*75-125*			

MOBILE GEOCHEMISTRY

H&P

City of San Diego	Project: SC121504-33	
9601 Ridgehaven, Ste. 310	Project Number: Arizona St. LF EMP	Reported:
San Diego CA, 92123	Project Manager: Mr. George Morton	22-Dec-04

Volatile Organic Compounds by EPA Method 8260B - Quality Control

H & P Mobile Geochemistry Lab 6

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6L41701 - EPA 5030										
Blank (6L41701-BLK1)				Prepared & Analyzed: 17-Dec-04						
Surrogate: 1,2-Dichloroethane-d4	*2.53*			*2.50*		*101*	*75-125*			
Surrogate: Toluene-d8	*2.15*			*2.50*		*86.0*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*2.39*			*2.50*		*95.6*	*75-125*			

MOBILE GEOCHEMISTRY

H&P

City of San Diego 9601 Ridgehaven, Ste. 310 San Diego CA, 92123	Project: SC121504-33 Project Number: Arizona St. LF EMP Project Manager: Mr. George Morton	Reported: 22-Dec-04

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

APPENDIX C

DRILLING, WELL CONSTRUCTION, GROUNDWATER SAMPLING, AND LABORATORY METHODS

APPENDIX C

DRILLING, WELL CONSTRUCTION, GROUNDWATER SAMPLING, AND LABORATORY METHODS

1.0 DRILLING PROGRAM

The following section describes the methods and procedures that were followed during drilling prior to construction of the project's permanent evaluation monitoring program (EMP) well AMW-6.

1.1 DRILLING LOCATION

The drilling location for the EMP groundwater monitoring well AMW-6 was proposed to provide a better assessment of the groundwater flow and water quality conditions downgradient of wells AMW-4 and AMW-5. The location was selected based upon field reconnaissance and discussions with the RWQCB, City Environmental Services Department, and other City Departments with jurisdiction over adjacent lands. The location of well AMW-6 (approximately 750 feet south of well AMW-4) Prior to drilling, drilling permits were obtained from the County of San Diego Department of Environmental Health (DEH), and the site was cleared for underground utilities by Underground Service Alert.

1.2 DRILLING METHODS

All drilling and well construction were completed by West Hazmat Drilling Company in accordance with procedures approved by the DEH and summarized in DWR Bull. 74-90. The exploratory boring for EMP groundwater monitoring well AMW-6 was advanced using air rotary casing hammer (ARCH) methods with 9-5/8-inch I.D. drive casing. This method was selected because it is relatively non-intrusive, will maintain borehole stability, permits relatively precise identification of stratigraphic units and elevations, allows for identification of the depth to first water, and facilitates relatively discrete water sampling, if necessary. Since the drilling operations did not take place near a residential area, noise abatement services were not required for this project.

Once drilling has proceeded to about 10 feet above the anticipated depth to first groundwater (extrapolated from existing well groundwater elevation data), the borehole was blown dry (to remove any air-mist water), and allowed to equilibrate for a period of not less than 20 minutes to allow first water to enter the hole. This equilibration protocol was observed until first water was identified. Once first water was identified, a permanent 4-inch O.D. PVC well was constructed.

1.3 BOREHOLE LOGGING

All drilling operations were continuously observed by a California registered geologist. As shown in Appendix A, geologic logging of boreholes addressed the following elements:

- Description of soils according to the Unified Soil Classification System and description of bedrock materials according to accepted geologic nomenclature.
- Borehole designation and location.
- Times and dates that drilling/excavation began and ended.
- Type of exploratory equipment being utilized, including manufacturer, make, and model for special modifications.
- Name(s) of geologist(s) responsible for log description.
- Name(s) of other personnel assisting in the logging.
- Systematic descriptions of lithologic and microstructural changes in strata or soil horizons including thickness of units, as well as depth and elevation of changes.
- Presence of and depth to groundwater.
- Caving or sloughing conditions in the hole, including depth and elevation.
- Sampling interval(s), including depths and elevations.
- Unusual color, staining, or odors of chemical or waste origin.
- Soil sample results.
- Drilling advancement in feet per hour (average) and/or feet per minute, noting periods of difficult or very easy drilling.
- Any subsurface structures or unusual features encountered.
- Descriptions of mineral seams and fracture fillings, if present.
- Faults, gouge, or shear zones penetrated., if present.
- Depth and thickness of weathering.
- An opinion as to the characteristics of water-bearing lithologies.
- Other notes and descriptions as required.

1.4 SOIL SAMPLING

Since soil sampling for borings was limited to retention of tailings delivered via the drill cuttings discharge pipe, these drill cuttings were routinely scanned with a photoionization detector (PID) to provide a preliminary indication of the presence and vertical distribution of VOCs, if present. The PID instrument was initially calibrated using standard factory calibration protocols. Sample screening was performed by ambient temperature headspace methods, whereby the sample material was placed in a sealable plastic bag and allowed to equilibrate for up to 5 minutes (shorter times with warmer ambient temperatures). The headspace vapor concentration was then measured by inserting the PID probe into the sample bag and recorded on the boring log. Headspace sample bags were filled at the drill cutting discharge pipe, or collected from the discharge stockpile.

1.5 SOIL AND FLUID DISPOSAL

All drill spoils were placed directly into a roll-off storage bin, while purge water was contained in 55 gallon drums. Drill spoils were disposed of at the Miramar Landfill, while purge water was transferred to the ASL flare station and incinerated.

2.0 WELL CONSTRUCTION

All well construction practices were in accordance with DEH and California Well Construction Procedures (DWR Bull. 74-90).

2.1 WELL MATERIALS

Permanent well screens and well casing materials were new, decontaminated and factory sealed well materials, covered with plastic or similar protective materials when delivered to the site. The permanent casing was 4-inch diameter flush-threaded PVC with a threaded bottom plug. The well screen was 30 feet in length with 0.020-inch slot. No glue or solvents were used to join pipe sections. Sand pack materials consist of inert washed #3 Monterey Sand, and the annular seal material consisted of neat cement (with 5% bentonite) grout. The finished well was provided with a locking standpipe set in a concrete pad.

2.2 WELL CONSTRUCTION METHODS

Following placement of the well casing, sand pack materials were placed using tremmie placement techniques and extended from the bottom of the well to approximately three feet above the screened section. After tremmie placement of the sand filter pack and prior to placement of the bentonite chip seal, the well was pre-developed using bailing or surging techniques to settle the sand pack and remove fines. The level of the sand pack within the annulus was measured both before and after the pre-development process, and additional sand was added to the borehole to bring the sand pack to the design elevation prior to placement of the overlying four-foot thick interval of bentonite chips. The bentonite chips were hydrated for a minimum of 24 hours after placement using a minimum of 5 gallons of potable water. Depth soundings were utilized to evaluate the thickness and uniformity of the sand pack and bentonite seal, and to assure that no bridging occurred.

The annulus above the bentonite chip seal was sealed with neat cement/bentonite grout pumped into place using positive displacement tremmie techniques and extended from the bentonite-chip seal to three feet below ground surface. The well was secured with a locking steel security cover, which extends approximately two feet above ground level and is set in a five-foot by five-foot, minimum 4-inch thick reinforced concrete pad.

2.3 WELL CONSTRUCTION DOCUMENTATION

As presented in Appendix A, well construction activities were continuously observed by the geologist who logged the well construction methods and materials used in construction. At a minimum, the Well Completion Summary log included the following information:

- Name of geologist and drilling contractor,
- Date and times of drilling and well construction,
- Drilling and well construction methods,
- Drilling fluid composition (if any),
- Type of drill rig,
- Total borehole and well depths,
- Elevation of groundwater prior to development of the well,
- Elevation of groundwater after development of the well,
- Diameter of borehole and casing,
- Length, depth, and materials used in casing and screen intervals,
- Length, depth, and materials used for sand filter pack, bentonite chip, and grout seals,
- Surface completion details, and
- Survey elevations of ground surface and top of casing (provided by the City).

2.4 WELL DEVELOPMENT

Following construction of the seal materials, the annular grout was allowed to harden for a minimum of 24 hours prior to final well development. The well was then developed with a surge block and bailing to remove fines, followed by pumping until visually clear, non-turbid (NTU < 20) water was discharged from the well, and the temperature, pH, and specific conductivity of the discharge water had stabilized.

Well development records were recorded on the Monitoring Well Completion Summary log included in Appendix A. Information included on well development and groundwater sampling records includes:

- Total depth of well and casing diameter,
- Starting groundwater level,
- Time log of groundwater removal, general clarity, temperature, pH, and electrical conductivity,
- Total well volumes removed,
- Sample pump flow rate,
- Final depth to water, and
- Any problems encountered and their solutions.

3.0 GROUNDWATER SAMPLING

This section describes the methods and procedures that were followed by Bryan A. Stirrat for groundwater sampling following completion of EMP well AMW-6.

3.1 DECONTAMINATION

All sampling and purging equipment that introduced to the well was steam-cleaned, or washed with a non-phosphate detergent, and rinsed as appropriate for the chemical analysis to be conducted (e.g., first rinse with tap water, second rinse with deionized water, and third rinse with deionized water). All rinsing was performed by pouring the medium directly over/through the sampling equipment.

3.2 WELL SOUNDING AND PURGING

Prior to beginning sampling, water elevations were determined to the nearest 0.01 foot using an electric sounding device and recorded on a well data sheet.

The EMP investigation incorporated both low-flow and traditional purging and sampling methods using a dedicated bladder pump. Discharge water from the purging operations were stored in 55 gallon drums and transferred to the landfill flare station for incineration. The total purged volumes, rate of purging, and parameter measurements were recorded on field data sheets and are included in Appendix B.

3.2.1 Low-Flow Purging

During the EMP investigation low-flow purging and sampling was used for collection of groundwater samples at discrete depths to evaluate the vertical distribution of VOCs.

For low-flow purging and sampling a weighted water-level meter was used while the pump was operated to ensure that the discharge rate minimized the decline in water level. Discharged water was routed through a sampling chamber equipped with probes for measuring dissolved oxygen (DO), electrical conductivity (EC), oxygen reduction potential (ORP), pH, and temperature. When three consecutive readings of these field parameters had stabilized to within specified criteria of each other, with no discernable upward or downward trend, the water quality was determined to be stable and samples were collected.

3.2.2 Traditional Purging

During the EMP investigation traditional sampling protocols were also used to evaluate the effect that different sampling protocols (i.e. low-flow vs. traditional) may have on the analytical results collected. Traditional purging requires that a minimum of 1.5 borehole volumes (BV) of water be evacuated prior to the collection of samples.

Like low-flow purging, the water level in the well was measured at regular intervals and measurements of DO, EC, salinity, ORP, pH, and temperature were monitored. For traditional purging, measurements were obtained after every 0.5 borehole volume to assess the presence of representative groundwater in the well. Upon stabilization of the monitoring parameters, or after evacuation of a minimum of 1.5 BV, samples were collected.

3.3 SAMPLE COLLECTION

All groundwater samples were poured directly into sample vials provided by the laboratory. Sample vials were filled by pouring the sample down the sides of the container with as little turbulence as possible, and all vials were filled completely and capped immediately without air space in the vial. The vial was then turned upside down, and tapped to check for air bubbles. In the event that air was present in the sample and larger than the size of a pea, the sample was discarded and an additional sample was obtained.

3.4 SAMPLE HANDLING AND DOCUMENTATION

All sample containers were obtained from the contract laboratory (Enviromatrix Analytical, Inc. of San Diego, California, a state certified laboratory) and, prior to use, stored in an area free from dust. Upon collection of the samples, the field sampler completed a sample label for each container using waterproof ink. All sample vials were immediately placed in an appropriate shipment container with ice packs or ice sealed in plastic bags to chill the samples (to approximately 4°C). The Chain-of-Custody records and other paperwork that must accompany the shipment were sealed in a plastic bag and taped to the inside of the lid of the shipping container.

A Chain-of-Custody record was completed before shipping any containers. All sample shipment containers were accompanied by the Chain-of-Custody record that corresponded to the sample(s) contained within. The original record accompanied shipment, and a copy was retained by the sampling coordinator.

4.0 LABORATORY TESTING

As presented in Appendix B, groundwater samples obtained during the EMP investigation were evaluated for the routine suite of analytes included in the facility's Detection Monitoring Program including: general chemistry (bicarbonate, chloride, EC, nitrate as nitrogen, pH, sulfate, TDS, and total organic carbon), metals (calcium, magnesium, and sodium), and VOCs (by EPA method 8260B). All samples were analyzed using recognized EPA methods and in accordance with currently established protocols. Historical tables of these analytical results for the DMP wells at the ASL are provided in Appendix D.

APPENDIX D

HISTORICAL GROUNDWATER MONITORING RESULTS

Table 5-2
Arizona Street Landfill
Groundwater Results for
Monitoring Well AMW-1

ANALYTE	UNIT	May 1993	Dec 1993	Feb 1994	May 1995	Jan 1996	Jul 1996	Mar 1997	Jun 1997	Dec 1997	May 1998
GENERAL CHEMISTRY											
Bicarbonate Alkalinity	mg CACO3/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chemical Oxygen Demand	mg/l	100	72.0	50	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/l	1500	1516	265	1540	1490	1580	1550	1580	1750	1550
Conductivity	µmhos/cm	5610	NA	NA	5530	3460	5100	NA	5650	5650	5720
Fluoride	mg/l	0.39	1.80	0.68	NA	NA	NA	NA	NA	NA	NA
Nitrate (as N)	mg/l	0.24	13.3	7.50	NA	NA	NA	1.12	0.05	0.44	0.19
pH	units	7.14	7.24	7.34	7.32	7.10	7.4	NA	7.4	7.4	7.1
Sulfate	mg/l	465	398	230	408	445	437	420	340	608	453
Total Dissolved Solids	mg/l	1500	4211	3340	3291	2910	3210	3450	3710	3510	3470
Total Organic Carbon	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
METALS											
Aluminum	mg/l	0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	mg/l	0.1	NA	0.03	0.03	0.03	0.03	0.050	NA	NA	NA
Arsenic	mg/l	0.051	NA	0.005	0.005	0.003	0.005	0.001	NA	NA	NA
Barium	mg/l	0.1	NA	0.04	0.04	0.04	0.028	0.039	NA	NA	NA
Beryllium	mg/l	0.01	NA	0.005	0.005	0.005	0.005	0.003	NA	NA	NA
Cadmium	mg/l	0.1	NA	0.009	0.009	0.005	0.009	0.010	NA	NA	NA
Calcium	mg/l	83	NA	NA	73	NA	NA	87	99.9	90.1	88
Chromium	mg/l	0.1	NA	0.01	0.04	0.11	0.05	0.023	NA	NA	NA
Cobalt	mg/l	0.1	NA	0.01	0.01	0.01	0.01	0.015	NA	NA	NA
Copper	mg/l	0.1	NA	0.01	0.01	0.01	0.01	0.007	NA	NA	NA
Iron	mg/l	0.23	NA	NA	NA	NA	NA	0.595	NA	NA	NA
Lead	mg/l	0.1	NA	0.002	0.002	0.010	0.003	0.050	NA	NA	NA
Magnesium	mg/l	170	NA	NA	120	NA	NA	156	166	153	154
Manganese	mg/l	0.21	NA	NA	0.03	NA	NA	NA	NA	NA	NA
Mercury	mg/l	0.002	NA	0.001	0.004	0.001	0.001	0.0002	NA	NA	NA
Molybdenum	mg/l	0.1	NA	0.01	0.01	0.02	0.01	0.030	NA	NA	NA
Nickel	mg/l	0.1	NA	0.01	0.04	0.08	0.16	0.032	NA	NA	NA
Potassium	mg/l	41.8	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/l	0.015	NA	0.005	0.005	0.004	0.011	0.011	NA	NA	NA
Silver	mg/l	0.1	NA	0.01	0.01	0.01	0.01	0.020	NA	NA	NA
Sodium	mg/l	920	NA	NA	760	NA	NA	NA	NA	NA	NA
Thallium	mg/l	0.48	NA	0.055	0.055	0.02	0.055	0.100	NA	NA	NA
Vanadium	mg/l	0.1	NA	0.01	0.01	0.01	0.01	0.010	NA	NA	NA
Zinc	mg/l	0.63	NA	0.05	0.06	0.06	0.02	0.015	NA	NA	NA
VOLATILE ORGANIC COMPOUNDS											
Acetone	µg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	µg/l	5	5	5	5	5	5	5	0.5	0.5	0.5
Methylene Chloride	µg/l	5	5.6	6.63	5	5	5	5	0.5	0.5	3.0
Tetrachloroethene	µg/l	5	5	5	5	5	5	5	0.6	0.5	0.5
SEMI-VOLATILE ORGANIC COMPOUNDS											
bis (2-Ethylhexyl) Phthalate	µg/l	30*	25	5	NA	NA	NA	NA	NA	NA	NA
HERBICIDES, PESTICIDES, & PCBs (µg/l): None Detected											

NOTES

NA Not Analyzed/Not Applicable

Indicates that the analyte was not detected above laboratory practical quantitation limit

Value listed is laboratory detection limit or estimated trace (BOLDED) concentration

* Suspected laboratory/field contaminant

Table 5-2 (Cont'd)
Arizona Street Landfill
Groundwater Results for
Monitoring Well AMW-1

ANALYTE	UNIT	Dec 1998	May 1999	Nov 1999	Jun 2000	Nov 2000	May 2001	Nov 2001	May 2002	Nov 2002	May 2003
GENERAL CHEMISTRY											
Bicarbonate Alkalinity	mg CACO3/l	NA	NA	NA	366	367	360	363	350	361	360
Chemical Oxygen Demand	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/l	1560	1620	1540	1500	1600	1570	1580	1620	1590	1620
Conductivity	µmhos/cm	5580	6230	6310	6330	5820	5300	6170	5355	6800	6800
Fluoride	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate (as N)	mg/l	0.4	0.13	0.2	0.3	0.2	0.1	0.4	0.45	0.38	0.36
pH	units	7.1	7.1	7.1	7.3	7.8	7.0	7.34	6.96	7.06	7.20
Sulfate	mg/l	358	385	380	399	516	293	441	333	427	288
Total Dissolved Solids	mg/l	3450	3650	3470	3580	3490	3570	3570	3560	3560	3360
Total Organic Carbon	mg/l	NA	NA	NA	NA	NA	NA	NA	4	1.00	2.90
METALS											
Aluminum	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/l	81	82	86	81	91	87	89	95	99.8	98.1
Chromium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/l	NA	NA	NA	NA	NA	NA	NA	0.8	NA	NA
Lead	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/l	144	148	150	104	146	150	142	159	165	156
Manganese	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/l	NA	NA	NA	971	NA	1050	989	1010	1130	1310
Thallium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOLATILE ORGANIC COMPOUNDS											
Acetone	µg/l	NA	NA	NA	NA	NA	NA	NA	10.0	8.58	**4.65**[a]
Dichlorodifluoromethane	µg/l	0.5	0.5	0.5	0.5	0.3	0.3	0.3	1.3	0.51	0.33
Methylene Chloride	µg/l	3.0	5.0	3.0	3.0	3.0	3.0	3.0	NA	0.56	0.29
Tetrachloroethene	µg/l	0.5	2.0	0.3	0.3	0.3	0.3	0.5	1.0	0.71	**0.47**
SEMI-VOLATILE ORGANIC COMPOUNDS											
bis (2-Ethylhexyl) Phthalate	µg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HERBICIDES, PESTICIDES, & PCBs (µg/l): None Detected											

NOTES

NA = Not Analyzed/Not Applicable

Indicates that the analyte was not detected above laboratory practical quantitation limit

Value listed is laboratory detection limit or estimated trace (BOLDED) concentration

[a] Also found in Field Blank

Table 5-2 (Cont'd)
Arizona Street Landfill
Groundwater Results for
Monitoring Well AMW-1

ANALYTE	UNIT	Nov 2003	May 2004	Nov 2004	May 2005	MED.	AVG.	STD. DEV.	MIN.	MAX.
GENERAL CHEMISTRY										
Bicarbonate Alkalinity	mg CACO3/l	371	360	358	361	361	362	5	350	371
Chemical Oxygen Demand	mg/l	NA	NA	NA	NA	NC	NC	NC	NC	NC
Chloride	mg/l	1660	1690	1620	1610	1580	1529	276	265	1750
Conductivity	µmhos/cm	6500	6800	6900	6400	5820	5905	785	3460	6900
Fluoride	mg/l	NA	NA	NA	NA	0.68	0.96	0.74	0.39	1.8
Nitrate (as N)	mg/l	0.59	0.40	0.44	0.24	0.39	1.4	3.2	0.1	13.3
pH	units	6.94	7.06	7.05	7.10	7.10	7.2	0.19	6.94	7.8
Sulfate	mg/l	402	434	412	278	405	402	77	230	608
Total Dissolved Solids	mg/l	3580	3500	3500	3750	3500	3425	469	1500	4211
Total Organic Carbon	mg/l	7.29	0.40	3.00	1.58	3	3.8	2.16	1.58	7.29
METALS										
Aluminum	mg/l	NA	NA	NA	NA	NC	NC	NC	NC	NC
Antimony	mg/l	NA	NA	NA	NA	NC	NC	NC	NC	NC
Arsenic	mg/l	NA	NA	NA	NA	NC	NC	NC	NC	NC
Barium	mg/l	NA	NA	NA	NA	0.04	0.037	0.005	0.028	0.04
Beryllium	mg/l	NA	NA	NA	NA	NC	NC	NC	NC	NC
Cadmium	mg/l	NA	NA	NA	NA	NC	NC	NC	NC	NC
Calcium	mg/l	103	92.5	92.2	11.9	88.5	85.5	18.9	11.9	103
Chromium	mg/l	NA	NA	NA	NA	0.045	0.056	0.038	0.023	0.11
Cobalt	mg/l	NA	NA	NA	NA	NC	NC	NC	NC	NC
Copper	mg/l	NA	NA	NA	NA	NC	NC	NC	NC	NC
Iron	mg/l	0.05	NA	NA	NA	0.595	0.542	0.289	0.23	0.8
Lead	mg/l	NA	NA	NA	NA	NC	NC	NC	NC	NC
Magnesium	mg/l	157	150	157	19.2	151.5	143.3	32.9	19.2	170
Manganese	mg/l	NA	NA	NA	NA	NC	NC	NC	NC	NC
Mercury	mg/l	NA	NA	NA	NA	NC	NC	NC	NC	NC
Molybdenum	mg/l	NA	NA	NA	NA	NC	NC	NC	NC	NC
Nickel	mg/l	NA	NA	NA	NA	0.06	0.078	0.059	0.032	0.16
Potassium	mg/l	NA	NA	NA	NA	NC	NC	NC	NC	NC
Selenium	mg/l	NA	NA	NA	NA	0.011	0.010	0.005	0.004	0.015
Silver	mg/l	NA	NA	NA	NA	NC	NC	NC	NC	NC
Sodium	mg/l	962	1110	850	119	980	932	292	119	1310
Thallium	mg/l	NA	NA	NA	NA	NC	NC	NC	NC	NC
Vanadium	mg/l	NA	NA	NA	NA	NC	NC	NC	NC	NC
Zinc	mg/l	NA	NA	NA	NA	0.06	0.157	0.265	0.015	0.63
VOLATILE ORGANIC COMPOUNDS										
Acetone	µg/l	3.79	3.79	7.46	7.46	NC	NC	NC	NC	NC
Dichlorodifluoromethane	µg/l	0.33	0.33	0.79	0.79	NC	NC	NC	NC	NC
Methylene Chloride	µg/l	0.35[a]	**0.39**	0.35	0.35	5.6	4.21	3.35	0.39	6.63
Tetrachloroethene	µg/l	1.43	**0.46**	1.09	**0.61**	0.6	0.74	0.38	0.46	1.43
SEMI-VOLATILE ORGANIC COMPOUNDS										
bis (2-Ethylhexyl) Phthalate	µg/l	NA	NA	NA	NA	NC	NC	NC	NC	NC
HERBICIDES, PESTICIDES, & PCBs (µg/l): None Detected										

NOTES

NA - Not Analyzed/Not Applicable

[ ] Indicates that the analyte was not detected above laboratory practical quantitation limit. Value listed is laboratory detection limit or estimated trace (BOLDED) concentration.

[NC] No calculation performed. Requires a minimum of three data entries.

[a] Also found in Field Blank.

Table 5-3
Arizona Street Landfill
Groundwater Results for
Monitoring Well AMW-2

ANALYTE	UNIT	May 1993	Dec 1993	Feb 1994	Jan 1996	Mar 1997	Jun 1997	Dec 1997	May 1998	Dec 1998
GENERAL CHEMISTRY										
Bicarbonate Alkalinity	mg CACO3/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chemical Oxygen Demand	mg/l	100	125	50	NA	NA	NA	NA	NA	NA
Chloride	mg/l	370	460	444	446	448	414	454	458	450
Conductivity	µmhos/cm	2230	1430	1793	2250	NA	5600	2330	2110	2120
Fluoride	mg/l	0.525	1.60	0.34	NA	NA	NA	NA	NA	NA
Nitrate (as N)	mg/l	0.17	0.2	0.13	NA	NA	0.05	0.18	0.34	0.2
pH	units	7.44	7.25	7.14	7.16	NA	7.28	7.3	7.6	7.1
Sulfate	mg/l	125	63.1	180	185	118	129	130	142	102
Total Dissolved Solids	mg/l	370	1312	1230	1330	1230	1310	1270	1240	1230
Total Organic Carbon	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
METALS										
Aluminum	mg/l	0.1	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	mg/l	0.1	NA	NA	0.03	0.050	NA	NA	NA	NA
Arsenic	mg/l	0.016	NA	NA	0.005	0.001	NA	NA	NA	NA
Barium	mg/l	0.1	NA	NA	0.02	0.06	NA	NA	NA	NA
Beryllium	mg/l	0.01	NA	NA	0.005	0.003	NA	NA	NA	NA
Cadmium	mg/l	0.1	NA	NA	0.009	0.010	NA	NA	NA	NA
Calcium	mg/l	60	NA	NA	NA	67.1	65.9	61.8	63	55
Chromium	mg/l	0.1	NA	NA	0.01	0.010	NA	NA	NA	NA
Chromium (Hexavalent)	mg/l	0.05	NA	NA	0.009	NA	NA	NA	NA	NA
Cobalt	mg/l	0.1	NA	NA	0.01	0.015	NA	NA	NA	NA
Copper	mg/l	0.1	NA	NA	0.01	0.168	NA	NA	NA	NA
Iron	mg/l	0.14	NA	NA	NA	0.633	NA	NA	NA	NA
Lead	mg/l	0.1	NA	NA	0.010	0.050	NA	NA	NA	NA
Magnesium	mg/l	51	NA	NA	NA	44.6	53.7	51.1	51.3	47
Manganese	mg/l	0.27	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/l	0.002	NA	NA	0.001	0.0002	NA	NA	NA	NA
Molybdenum	mg/l	0.1	NA	NA	0.04	0.030	NA	NA	NA	NA
Nickel	mg/l	0.1	NA	NA	0.01	0.024	NA	NA	NA	NA
Potassium	mg/l	10.5	NA	NA	0.009	NA	NA	NA	NA	NA
Selenium	mg/l	0.015	NA	NA	0.005	0.005	NA	NA	NA	NA
Silver	mg/l	0.1	NA	NA	0.01	0.020	NA	NA	NA	NA
Sodium	mg/l	300	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/l	0.48	NA	NA	0.009	0.100	NA	NA	NA	NA
Vanadium	mg/l	0.1	NA	NA	0.01	0.010	NA	NA	NA	NA
Zinc	mg/l	0.43	NA	NA	0.04	0.219	NA	NA	NA	NA
VOLATILE ORGANIC COMPOUNDS										
Acetone	µg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	µg/l	NA	NA	NA	NA	5	NA	0.5	0.5	0.5
Methylene Chloride	µg/l	NA	NA	NA	NA	5	NA	0.5	3.0	3.0
Tetrachloroethene	µg/l	NA	NA	NA	NA	4.2	NA	0.5	**0.3**	0.3
Toluene	µg/l	NA	NA	NA	NA	40.2	NA	0.3	0.3	0.3
Trichloroethene	µg/l	NA	NA	NA	NA	5	NA	0.3	0.3	0.3
SEMI-VOLATILE ORGANIC COMPOUNDS (µg/l): None Detected										
HERBICIDES, PESTICIDES, & PCBs (µg/l): None Detected										

NOTES

NA = Not Analyzed/Not Applicable

Indicates that the analyte was not detected above laboratory practical quantitation limit

Value listed is laboratory detection limit or estimated trace (BOLDED) concentration

Table 5-3 (Cont'd)
Arizona Street Landfill
Groundwater Results for
Monitoring Well AMW-2

ANALYTE	UNIT	May 1999	Nov 1999	Jun 2000	Nov 2000	May 2001	Nov 2001	May 2002	Nov 2002	May 2003
GENERAL CHEMISTRY										
Bicarbonate Alkalinity	mg CACO3/l	NA	NA	357	NA	350	343	334	342	342
Chemical Oxygen Demand	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/l	462	442	440	NA	490	492	470	484	490
Conductivity	µmhos/cm	2370	2340	2350	NA	2200	2390	2089	2700	2800
Fluoride	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate (as N)	mg/l	0.06	0.1	0.2	NA	0.05	0.05	0.34	0.17	0.28
pH	units	7	6.8	6.9	NA	7.0	7.33	7.13	7.06	7.13
Sulfate	mg/l	103	103	108	NA	119	590	118	172	122
Total Dissolved Solids	mg/l	1240	1240	1300	NA	1430	1330	1270	1020	1290
Total Organic Carbon	mg/l	NA	NA	NA	NA	NA	NA	4	1.00	2.08
METALS										
Aluminum	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/l	54	58	54	NA	62	68	69	68.6	69.1
Chromium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium (Hexavalent)	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/l	NA	NA	NA	NA	NA	NA	0.05	NA	NA
Lead	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/l	47	50	41	NA	48	53	55	54.7	52.5
Manganese	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/l	NA	NA	301	NA	320	323	337	345	336
Thallium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOLATILE ORGANIC COMPOUNDS										
Acetone	µg/l	NA	NA	NA	NA	NA	NA	10.0	8.58	**11.4**[a]
Dichlorodifluoromethane	µg/l	0.5	0.5	0.5	NA	0.3	0.3	1.3	0.51	0.33
Methylene Chloride	µg/l	5.0	3.0	3.0	NA	3.0	3.0	NA	0.56	0.29
Tetrachloroethene	µg/l	2.0	0.3	0.5	NA	0.3	0.3	1.0	0.71	0.31
Toluene	µg/l	1.6	0.3	0.3	NA	0.3	0.3	0.6	0.36	0.25
Trichloroethene	µg/l	NA	0.3	0.3	NA	0.3	0.3	0.5	0.31	0.27
SEMI-VOLATILE ORGANIC COMPOUNDS (µg/l): None Detected										
HERBICIDES, PESTICIDES, & PCBs (µg/l): None Detected										

NOTES

NA = Not Analyzed/Not Applicable

Indicates that the analyte was not detected above laboratory practical quantitation limit

Value listed is laboratory detection limit or estimated trace (BOLDED) concentration.

[a] Also found in Field Blank

Table 5-3 (Cont'd)
Arizona Street Landfill
Groundwater Results for
Monitoring Well AMW-2

ANALYTE	UNIT	Nov 2003	May 2004	Nov 2004	May 2005	MED.	AVG.	STD. DEV.	MIN.	MAX.
GENERAL CHEMISTRY										
Bicarbonate Alkalinity	mg CACO3/l	345	352	346	345	345	346	6	334	357
Chemical Oxygen Demand	mg/l	NA	NA	NA	NA	NC	NC	NC	NC	NC
Chloride	mg/l	534	510	470	520	460	464	36	370	534
Conductivity	µmhos/cm	2600	2800	2800	2600	2345	2495	807	1430	5600
Fluoride	mg/l	NA	NA	NA	NA	0.525	0.82	0.68	0.34	1.60
Nitrate (as N)	mg/l	0.39	0.17	0.009	**0.02**	0.18	0.20	0.11	0.02	0.39
pH	units	6.92	7.13	6.88	7.13	7.13	7.13	0.20	6.8	7.6
Sulfate	mg/l	146	130	133	127	127	149.8	104.6	63.1	590
Total Dissolved Solids	mg/l	1370	1230	1300	1390	1270	1235	214	370	1430
Total Organic Carbon	mg/l	**0.60**	0.40	6.12	2.12	2.12	2.98	2.13	0.60	6.12
METALS										
Aluminum	mg/l	NA	NA	NA	NA	NC	NC	NC	NC	NC
Antimony	mg/l	NA	NA	NA	NA	NC	NC	NC	NC	NC
Arsenic	mg/l	NA	NA	NA	NA	NC	NC	NC	NC	NC
Barium	mg/l	NA	NA	NA	NA	NC	NC	NC	NC	NC
Beryllium	mg/l	NA	NA	NA	NA	NC	NC	NC	NC	NC
Cadmium	mg/l	NA	NA	NA	NA	NC	NC	NC	NC	NC
Calcium	mg/l	66.6	68.3	66.2	8.21	64.5	60.3	14	8.21	69.1
Chromium	mg/l	NA	NA	NA	NA	NC	NC	NC	NC	NC
Chromium (Hexavalent)	mg/l	NA	NA	NA	NA	NC	NC	NC	NC	NC
Cobalt	mg/l	NA	NA	NA	NA	NC	NC	NC	NC	NC
Copper	mg/l	NA	NA	NA	NA	NC	NC	NC	NC	NC
Iron	mg/l	0.05	NA	NA	NA	NC	NC	NC	NC	NC
Lead	mg/l	NA	NA	NA	NA	NC	NC	NC	NC	NC
Magnesium	mg/l	54.1	53.3	55.2	6.36	51.2	48.3	11.2	6.36	55.2
Manganese	mg/l	NA	NA	NA	NA	NC	NC	NC	NC	NC
Mercury	mg/l	NA	NA	NA	NA	NC	NC	NC	NC	NC
Molybdenum	mg/l	NA	NA	NA	NA	NC	NC	NC	NC	NC
Nickel	mg/l	NA	NA	NA	NA	NC	NC	NC	NC	NC
Potassium	mg/l	NA	NA	NA	NA	NC	NC	NC	NC	NC
Selenium	mg/l	NA	NA	NA	NA	NC	NC	NC	NC	NC
Silver	mg/l	NA	NA	NA	NA	NC	NC	NC	NC	NC
Sodium	mg/l	335	323	345	41.6	323	300.6	87.3	41.6	345
Thallium	mg/l	NA	NA	NA	NA	NC	NC	NC	NC	NC
Vanadium	mg/l	NA	NA	NA	NA	NC	NC	NC	NC	NC
Zinc	mg/l	NA	NA	NA	NA	0.219	0.23	0.195	0.04	0.43
VOLATILE ORGANIC COMPOUNDS										
Acetone	µg/l	3.79	**5.59**	7.46	7.46	NC	NC	NC	NC	NC
Dichlorodifluoromethane	µg/l	0.33	0.33	**1.29**	0.79	NC	NC	NC	NC	NC
Methylene Chloride	µg/l	0.29	**0.65**	0.35	0.35	NC	NC	NC	NC	NC
Tetrachloroethene	µg/l	**0.60**	**0.72**	2.05	1.40	0.66	0.93	0.66	0.3	2.05
Toluene	µg/l	0.25	0.25	0.55	0.55	NC	NC	NC	NC	NC
Trichloroethene	µg/l	**0.27**	**0.43**	1.34	**0.45**	0.44	0.62	0.49	0.27	1.34
SEMI-VOLATILE ORGANIC COMPOUNDS (µg/l): None Detected										
HERBICIDES, PESTICIDES, & PCBs (µg/l): None Detected										

NOTES

NA = Not Analyzed/Not Applicable

Indicates that the analyte was not detected above laboratory practical quantitation limit

Value listed is laboratory detection limit or estimated trace (BOLDED) concentration.

NC No calculation performed. Requires a minimum of three data entries

Table 5-4
Arizona Street Landfill
Groundwater Results for
Monitoring Well AMW-3

ANALYTE	UNIT	May 1993	Dec 1993	Feb 1994	May 1995	Jan 1996	Jul 1996	Dec 1997	May 1998	Dec 1998
GENERAL CHEMISTRY										
Bicarbonate Alkalinity	mg CACO3/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chemical Oxygen Demand	mg/l	100	94.1	50	NA	NA	NA	NA	NA	NA
Chloride	mg/l	150	160	174	180	140	148	153	150	148
Conductivity	µmhos/cm	1100	692	874	966	560	810	850	947	908
Fluoride	mg/l	0.74	2.50	0.36	NA	NA	NA	NA	NA	NA
Nitrate (as N)	mg/l	392	0.2	0.10	NA	NA	NA	0.09	0.09	0.12
pH	units	8.00	7.38	6.70	7.60	7.29	7.0	7.3	6.8	6.9
Sulfate	mg/l	20.5	32.4	27.0	23.1	25.5	18.2	23.2	19.2	16
Total Dissolved Solids	mg/l	1000	564	516	539	480	508	532	514	512
Total Organic Carbon	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
METALS										
Aluminum	mg/l	0.16	NA	NA	0.03	0.03	0.03	NA	NA	NA
Antimony	mg/l	0.1	NA	NA	0.03	0.03	0.03	NA	NA	NA
Arsenic	mg/l	0.018	NA	NA	0.005	0.005	0.005	NA	NA	NA
Barium	mg/l	0.1	NA	NA	0.01	0.009	0.009	NA	NA	NA
Beryllium	mg/l	0.01	NA	NA	0.005	0.005	0.005	NA	NA	NA
Cadmium	mg/l	0.1	NA	NA	0.009	0.009	0.009	NA	NA	NA
Calcium	mg/l	40	NA	NA	37	NA	NA	44.1	48	41
Chromium	mg/l	0.1	NA	NA	0.01	0.01	0.03	NA	NA	NA
Cobalt	mg/l	0.1	NA	NA	0.01	0.01	0.01	NA	NA	NA
Copper	mg/l	0.1	NA	NA	0.01	0.01	0.01	NA	NA	NA
Iron	mg/l	0.1	NA	NA	0.11	NA	NA	NA	NA	NA
Lead	mg/l	0.1	NA	NA	0.002	0.004	0.002	NA	NA	NA
Magnesium	mg/l	23	NA	NA	20	NA	NA	22.4	22.6	20
Manganese	mg/l	0.13	NA	NA	0.23	NA	NA	NA	NA	NA
Mercury	mg/l	0.002	NA	NA	0.001	0.001	0.001	NA	NA	NA
Molybdenum	mg/l	0.1	NA	NA	0.08	0.09	0.06	NA	NA	NA
Nickel	mg/l	0.1	NA	NA	0.01	0.01	0.02	NA	NA	NA
Potassium	mg/l	6.02	NA	NA	0.01	0.01	0.01	NA	NA	NA
Selenium	mg/l	0.018	NA	NA	0.005	0.005	0.005	NA	NA	NA
Silver	mg/l	0.1	NA	NA	0.01	0.01	0.01	NA	NA	NA
Sodium	mg/l	120	NA	NA	100	NA	NA	NA	NA	NA
Thallium	mg/l	0.48	NA	NA	0.055	0.055	0.055	NA	NA	NA
Tintanium	mg/l	0.1	NA	NA	0.055	0.055	0.055	NA	NA	NA
Vanadium	mg/l	0.1	NA	NA	0.01	0.01	0.01	NA	NA	NA
Zinc	mg/l	0.29	NA	NA	0.05	0.03	0.07	NA	NA	NA
VOLATILE ORGANIC COMPOUNDS										
1,4-Dichlorobenzene	µg/l	NA	NA	NA	NA	NA	NA	0.50	NA	NA
Acetone	µg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	µg/l	NA	NA	NA	NA	NA	NA	0.50	NA	NA
Chlorodibromomethane	µg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	µg/l	NA	NA	NA	NA	NA	NA	0.50	0.3	0.3
o-Xylene	µg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	µg/l	NA	NA	NA	NA	NA	NA	0.50	0.5	0.3
Toluene	µg/l	NA	NA	NA	NA	NA	NA	0.5	2.3	1.7
Trichloroethene	µg/l	NA	NA	NA	NA	NA	NA	0.5	0.3	0.3
SEMI-VOLATILE ORGANIC COMPOUNDS										
bis (2-Ethylhexyl) Phthalate	µg/l	55*	NA	NA	NA	NA	NA	NA	NA	NA
HERBICIDES, PESTICIDES, & PCBs (µg/l): None Detected										

NOTES

NA = Not Analyzed/Not Applicable

Indicates that the analyte was not detected above laboratory practical quantitation limit

Value listed is laboratory detection limit or estimated trace (BOLDED) concentration

* Suspected laboratory/field contaminant

Table 5-4 (Cont'd)
Arizona Street Landfill
Groundwater Results for
Monitoring Well AMW-3

ANALYTE	UNIT	May 1999	Nov 1999	Jun 2000	Nov 2000	May 2001	Nov 2001	May 2002	Nov 2002	May 2003
GENERAL CHEMISTRY										
Bicarbonate Alkalinity	mg CACO3/l	NA	NA	267	238	240	240	233	241	238
Chemical Oxygen Demand	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/l	154	138	154	140	130	144	146	150	148
Conductivity	µmhos/cm	1013	986	499	944	800	956	830	1100	1100
Fluoride	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate (as N)	mg/l	0.1	0.1	0.07	0.05	**0.05**	**0.05**	0.19	0.05	0.24
pH	units	7.0	6.9	6.7	8.0	6.7	7.31	7.00	6.91	7.10
Sulfate	mg/l	17	16	10	18	16	18	16	19.1	18.0
Total Dissolved Solids	mg/l	518	514	507	514	580	450	482	502	454
Total Organic Carbon	mg/l	NA	NA	NA	NA	NA	NA	2	1.00	2.44
METALS										
Aluminum	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/l	37	40	41	46	39	49	48	44.6	44.3
Chromium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/l	NA	NA	NA	NA	NA	NA	1.7	NA	NA
Lead	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/l	19	20	19	22	19	23	23	22.0	21.3
Manganese	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/l	NA	NA	114	NA	116	121	129	128	125
Thallium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tintanium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOLATILE ORGANIC COMPOUNDS										
1,4-Dichlorobenzene	µg/l	NA	NA	1.0	1.0	1.0	1.0	0.5	0.25	0.23
Acetone	µg/l	NA	NA	NA	NA	NA	NA	10.0	8.58	**9.81**[a]
Bromodichloromethane	µg/l	NA	**0.4**	0.3	0.3	0.3	0.3	0.5	0.31	0.23
Chlorodibromomethane	µg/l	NA	0.5	0.4	0.4	0.4	0.4	1.0	0.25	0.23
cis-1,2-Dichloroethene	µg/l	1.4	0.4	1.4	0.3	0.3	0.3	1.0	0.51	0.39
o-Xylene	µg/l	NA	NA	NA	NA	NA	NA	NA	0.26	0.26
Tetrachloroethene	µg/l	2.0	0.3	0.9	0.3	0.3	0.3	1.0	0.71	**0.35**
Toluene	µg/l	1.6	0.5	0.3	0.3	0.3	0.3	0.6	0.36	0.25
Trichloroethene	µg/l	NA	0.3	1.2	0.3	0.3	0.3	0.5	0.31	**0.30**
SEMI-VOLATILE ORGANIC COMPOUNDS										
bis (2-Ethylhexyl) Phthalate	µg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
HERBICIDES, PESTICIDES, & PCBs (µg/l): None Detected										

NOTES.

NA = Not Analyzed/Not Applicable

Indicates that the analyte was not detected above laboratory practical quantitation limit

Value listed is laboratory detection limit or estimated trace (BOLDED) concentration.

[a] Also found in Field Blank

Table 5-4 (Cont'd)
Arizona Street Landfill
Groundwater Results for
Monitoring Well AMW-3

ANALYTE	UNIT	Nov 2003	May 2004	Nov 2004	May 2005	MED.	AVG.	STD. DEV.	MIN.	MAX.
GENERAL CHEMISTRY										
Bicarbonate Alkalinity	mg CACO3/l	246	246	242	279	241	246	14	233	279
Chemical Oxygen Demand	mg/l	NA	NA	NA	NA	NC	NC	NC	NC	NC
Chloride	mg/l	150	150	146	140	149	150	11	130	180
Conductivity	µmhos/cm	1200	1100	990	1000	952	919	174	499	1200
Fluoride	mg/l	NA	NA	NA	NA	0.74	1.2	1.14	0.36	2.50
Nitrate (as N)	mg/l	0.10	0.009	**0.04**	0.009	0.10	30.2	108.7	0.04	392
pH	units	6.88	6.83	6.64	6.78	6.96	7.08	0.39	6.64	8.0
Sulfate	mg/l	21.8	27.6	26.0	376	19.2	37.8	77.6	16	376
Total Dissolved Solids	mg/l	523	505	490	523	514	533	108	450	1000
Total Organic Carbon	mg/l	**0.48**	0.40	2.20	6.34	2.20	2.69	2.18	0.48	6.34
METALS										
Aluminum	mg/l	NA	NA	NA	NA	NC	NC	NC	NC	NC
Antimony	mg/l	NA	NA	NA	NA	NC	NC	NC	NC	NC
Arsenic	mg/l	NA	NA	NA	NA	NC	NC	NC	NC	NC
Barium	mg/l	NA	NA	NA	NA	NC	NC	NC	NC	NC
Beryllium	mg/l	NA	NA	NA	NA	NC	NC	NC	NC	NC
Cadmium	mg/l	NA	NA	NA	NA	NC	NC	NC	NC	NC
Calcium	mg/l	45.1	46.1	40.4	6.19	42.6	40.9	9.4	6.19	49
Chromium	mg/l	NA	NA	NA	NA	NC	NC	NC	NC	NC
Cobalt	mg/l	NA	NA	NA	NA	NC	NC	NC	NC	NC
Copper	mg/l	NA	NA	NA	NA	NC	NC	NC	NC	NC
Iron	mg/l	0.05	NA	NA	NA	NC	NC	NC	NC	NC
Lead	mg/l	NA	NA	NA	NA	NC	NC	NC	NC	NC
Magnesium	mg/l	23.1	22.1	21.3	3.06	21.7	20.3	4.6	3.06	23.1
Manganese	mg/l	NA	NA	NA	NA	NC	NC	NC	NC	NC
Mercury	mg/l	NA	NA	NA	NA	NC	NC	NC	NC	NC
Molybdenum	mg/l	NA	NA	NA	NA	0.08	0.08	0.02	0.06	0.09
Nickel	mg/l	NA	NA	NA	NA	NC	NC	NC	NC	NC
Potassium	mg/l	NA	NA	NA	NA	NC	NC	NC	NC	NC
Selenium	mg/l	NA	NA	NA	NA	NC	NC	NC	NC	NC
Silver	mg/l	NA	NA	NA	NA	NC	NC	NC	NC	NC
Sodium	mg/l	118	116	116	16.8	117	110	30.3	16.8	129
Thallium	mg/l	NA	NA	NA	NA	NC	NC	NC	NC	NC
Tintanium	mg/l	NA	NA	NA	NA	NC	NC	NC	NC	NC
Vanadium	mg/l	NA	NA	NA	NA	NC	NC	NC	NC	NC
Zinc	mg/l	NA	NA	NA	NA	0.07	0.13	0.14	0.03	0.29
VOLATILE ORGANIC COMPOUNDS										
1,4-Dichlorobenzene	µg/l	0.23	0.23	**0.49**	**0.32**	NC	NC	NC	NC	NC
Acetone	µg/l	3.79	3.79	7.46	7.46	NC	NC	NC	NC	NC
Bromodichloromethane	µg/l	0.23	0.23	0.33	0.33	NC	NC	NC	NC	NC
Chlorodibromomethane	µg/l	0.23	0.23	0.27	0.27	NC	NC	NC	NC	NC
cis-1,2-Dichloroethene	µg/l	0.39	0.39	**0.65**	**0.64**	NC	NC	NC	NC	NC
o-Xylene	µg/l	0.26	0.26	**0.39**	0.25	NC	NC	NC	NC	NC
Tetrachloroethene	µg/l	**0.34**	**0.51**	1.29	1.21	0.71	0.77	0.43	0.34	1.29
Toluene	µg/l	0.25	0.25	0.55	0.55	1.7	1.5	0.9	0.5	2.3
Trichloroethene	µg/l	**0.29**	**0.63**	1.29	1.06	0.85	0.80	0.45	0.29	1.29
SEMI-VOLATILE ORGANIC COMPOUNDS										
bis (2-Ethylhexyl) Phthalate	µg/l	NA	NA	NA	NA	NC	NC	NC	NC	NC
HERBICIDES, PESTICIDES, & PCBs (µg/l): None Detected										

NOTES

NA = Not Analyzed/Not Applicable

Indicates that the analyte was not detected above laboratory practical quantitation limit

Value listed is laboratory detection limit or estimated trace (BOLDED) concentration

Table 5-5
Arizona Street Landfill
Groundwater Results for
Monitoring Well AMW-4

ANALYTE	UNIT	May 1993	Dec 1993	Feb 1994	May 1995	Jan 1996	Jul 1996	Mar 1997	Jun 1997	Dec 1997
GENERAL CHEMISTRY										
Bicarbonate Alkalinity	mg CACO3/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chemical Oxygen Demand	mg/l	103	145	50	NA	NA	NA	NA	NA	NA
Chloride	mg/l	320	220	214	20	326	196	145	126	135
Conductivity	µmhos/cm	1380	916	1060	1190	1120	1180	1008	930	1010
Fluoride	mg/l	0.23	0.80	0.26	NA	NA	NA	NA	NA	NA
Nitrate (as N)	mg/l	486	0.2	1.10	NA	NA	NA	NA	0.05	0.43
pH	units	7.05	6.80	6.95	7.14	6.65	6.5	7.3	7.12	7.2
Sulfate	mg/l	87.3	64.2	51.0	49.6	78.7	64.3	44.5	33.7	53.9
Total Dissolved Solids	mg/l	2150	969	780	750	1340	782	670	746	652
Total Organic Carbon	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
METALS										
Aluminum	mg/l	0.1	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	mg/l	0.1	NA	0.03	0.03	0.06	0.10	0.050	NA	NA
Arsenic	mg/l	0.019	NA	0.005	0.005	0.005	0.005	0.001	NA	NA
Barium	mg/l	0.1	NA	0.01	0.01	0.01	0.007	0.020	NA	NA
Beryllium	mg/l	0.01	NA	0.005	0.005	0.005	0.005	0.003	NA	NA
Cadmium	mg/l	0.1	NA	0.009	0.009	0.005	0.009	0.010	NA	NA
Calcium	mg/l	170	NA	NA	110	NA	NA	113	113	52.6
Chromium	mg/l	0.1	NA	0.01	0.01	0.01	0.01	0.010	NA	NA
Chromium (Hexavalent)	mg/l	NA	NA	0.05	0.01	0.01	0.01	NA	NA	NA
Cobalt	mg/l	0.1	NA	0.01	0.01	0.01	0.01	0.015	NA	NA
Copper	mg/l	0.1	NA	0.01	0.01	0.01	0.01	0.005	NA	NA
Iron	mg/l	0.10	NA	NA	0.1	NA	NA	0.276	NA	NA
Lead	mg/l	0.1	NA	0.002	0.002	0.002	0.002	0.050	NA	NA
Magnesium	mg/l	27	NA	NA	17	NA	NA	17.5	17.7	16.8
Manganese	mg/l	0.1	NA	NA	0.03	NA	NA	NA	NA	NA
Mercury	mg/l	0.002	NA	0.001	0.007	0.001	0.001	0.0002	NA	NA
Molybdenum	mg/l	0.1	NA	0.01	0.01	0.01	0.01	0.030	NA	NA
Nickel	mg/l	0.1	NA	0.01	0.01	0.01	0.07	0.015	NA	NA
Potassium	mg/l	4.59	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/l	0.027	NA	0.005	0.005	0.005	0.005	0.002	NA	NA
Silver	mg/l	0.1	NA	0.01	0.01	0.01	0.01	0.020	NA	NA
Sodium	mg/l	140	NA	NA	82	NA	NA	NA	NA	NA
Thallium	mg/l	0.48	NA	0.055	0.055	0.055	0.055	0.100	NA	NA
Vanadium	mg/l	0.1	NA	0.01	0.01	0.01	0.01	0.010	NA	NA
Zinc	mg/l	0.23	NA	0.05	0.05	0.04	0.06	0.010	NA	NA
VOLATILE ORGANIC COMPOUNDS										
1,1,2-Trichlorotrifluoroethane	µg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	µg/l	17.7	17.7	17.7	17.7	17.7	17.7	NA	NA	NA
Benzene	µg/l	4.1	4.1	4.1	4.1	4.1	4.1	5	NA	NA
Chloroethane	µg/l	3.7	3.7	3.7	3.7	3.7	3.7	5	0.5	1.33
cis-1,2-Dichloroethene	µg/l	2.5	2.5	2.5	2.5	2.5	2.5	5	0.6	0.62
Dichlorodifluoromethane	µg/l	10	10.5	5.40	5	5	11.9	5	0.5	3.08
Methylene Chloride	µg/l	5	7.3	7.58	5	5	5	10	0.5	0.5
Naphthalene	µg/l	1.7	1.7	1.7	1.7	1.7	1.7	5	NA	NA
Tetrachloroethene	µg/l	4.2	8.8	7.69	5.3	4.2	10	5.48	4.4	5.37
trans-1,2-Dichloroethene	µg/l	3.6	3.6	3.6	3.6	3.6	3.6	NA	0.5	0.5
Trichloroethene	µg/l	5	5	5	5	5	5	5	2.2	2.49
SEMI-VOLATILE ORGANIC COMPOUNDS (µg/l): None Detected										
HERBICIDES, PESTICIDES, & PCBs (µg/l): None Detected										

NOTES

NA = Not Analyzed/Not Applicable

Indicates that the analyte was not detected above laboratory practical quantitation limit

Value listed is laboratory detection limit or estimated trace (BOLD) concentration

Table 5-5 (Cont'd)
Arizona Street Landfill
Groundwater Results for
Monitoring Well AMW-4

ANALYTE	UNIT	May 1998	Dec 1998	May 1999	Nov 1999	Jun 2000	Nov 2000	May 2001	May 2001	Nov 2001
GENERAL CHEMISTRY										
Bicarbonate Alkalinity	mg CACO3/l	NA	NA	NA	NA	291	311	310	310	314
Chemical Oxygen Demand	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/l	128	138	138	122	124	124	94	94	112
Conductivity	µmhos/cm	952	986	1143	998	929	992	1000	970	970
Fluoride	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate (as N)	mg/l	0.5	0.35	0.15	0.3	0.3	0.2	0.07	0.2	0.2
pH	units	7.2	6.8	6.8	6.8	7	6.9	6.5	6.5	6.72
Sulfate	mg/l	47	44	44	29	35	43	33	26	44
Total Dissolved Solids	mg/l	570	628	681	597	633	614	530	572	570
Total Organic Carbon	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
METALS										
Aluminum	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/l	98	92	97	100	87	102	92	93	100
Chromium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium (Hexavalent)	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/l	14.7	14	16	15	12	16	15	15	17
Manganese	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/l	NA	NA	NA	NA	74	NA	77	79	82
Thallium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOLATILE ORGANIC COMPOUNDS										
1,1,2-Trichlorotrifluoroethane	µg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	µg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	µg/l	0.3	0.3	1.6	0.3	0.3	0.3	0.3	0.3	0.3
Chloroethane	µg/l	0.7	0.7	1.5	0.7	0.7	0.7	0.7	0.7	0.7
cis-1,2-Dichloroethene	µg/l	0.7	0.7	1.4	0.6	0.7	0.5	1.0	1.1	0.3
Dichlorodifluoromethane	µg/l	5.5	3	5.3	4.5	2.8	0.3	4.5	2.9	1.5
Methylene Chloride	µg/l	3.0	3.0	5.0	3.0	3.0	3.0	3.0	3.0	3.0
Naphthalene	µg/l	NA	NA	1.5	NA	NA	NA	NA	NA	NA
Tetrachloroethene	µg/l	5.4	4.4	5	3.8	3.8	7.1	4.9	5.2	2.1
trans-1,2-Dichloroethene	µg/l	0.4	0.4	1.4	0.4	0.4	0.4	0.4	0.4	0.4
Trichloroethene	µg/l	3.1	2.4	2.8	2.1	1.7	3.1	2.2	2.3	0.5
SEMI-VOLATILE ORGANIC COMPOUNDS (µg/l): None Detected										
HERBICIDES, PESTICIDES, & PCBs (µg/l): None Detected										

NOTES

NA = Not Analyzed/Not Applicable

Indicates that the analyte was not detected above laboratory practical quantitation limit

Value listed is laboratory detection limit or estimated trace (BOLDED) concentration

Table 5-5 (Cont'd)
Arizona Street Landfill
Groundwater Results for
Monitoring Well AMW-4

ANALYTE	UNIT	Nov 2001	May 2002	May 2002	Nov 2002	Nov 2002	May 2003	May 2003	Nov 2003	Nov 2003
GENERAL CHEMISTRY										
Bicarbonate Alkalinity	mg CACO3/l	314	306	308	312	308	396	393	444	440
Chemical Oxygen Demand	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/l	108	108	106	100	102	312	314	290	280
Conductivity	µmhos/cm	NA	869	NA	1100	NA	2300	NA	2800	NA
Fluoride	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate (as N)	mg/l	0.2	0.20	0.26	0.12	0.14	0.20	0.15	0.21	0.17
pH	units	6.79	6.95	6.91	6.62	6.74	6.69	6.65	6.39	6.35
Sulfate	mg/l	36	38	37	44.2	57.2	64.8	64.9	65.6	57.9
Total Dissolved Solids	mg/l	573	541	557	576	595	965	963	1050	1040
Total Organic Carbon	mg/l	NA	2	3	1.00	1.00	4.95	3.17	1.51	1.01
METALS										
Aluminum	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/l	100	104	107	106	103	169	165	156	168
Chromium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium (Hexavalent)	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/l	NA	0.05	0.05	NA	NA	NA	NA	0.05	0.05
Lead	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/l	16	17	16	17.5	17.0	25.7	25.0	22.9	24.4
Manganese	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/l	80	84	79	88.4	88.6	166	155	154	166
Thallium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOLATILE ORGANIC COMPOUNDS										
1,1,2-Trichlorotrifluoroethane	µg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	µg/l	NA	10.0	18.2	8.58	8.58	4.38[a]	15.5[a]	3.79	3.79
Benzene	µg/l	0.3	0.6	0.6	0.20	0.20	0.62	0.70	0.62	0.57
Chloroethane	µg/l	0.7	1.3	1.3	0.50	0.50	0.43	0.43	0.43	0.43
cis-1,2-Dichloroethene	µg/l	0.3	1.0	1.0	0.69	0.68	1.92	2.28	2.36	2.15
Dichlorodifluoromethane	µg/l	1.2	2.6	2.7	3.78	3.72	15.8	15.0	15.1	13.8
Methylene Chloride	µg/l	3.0	NA	NA	0.56	0.56	0.29	0.29	0.52[a]	0.43[a]
Naphthalene	µg/l	NA	1.0	1.0	0.37	0.37	0.58	0.55	0.30	0.30
Tetrachloroethene	µg/l	1.3	1.4	1.5	2.55	2.50	0.83	0.78	9.70	9.36
trans-1,2-Dichloroethene	µg/l	0.4	1.0	1.0	0.82	0.82	0.36	0.46	0.45	0.46
Trichloroethene	µg/l	0.4	4.2	4.2	2.58	2.57	13.3	14.9	7.35	7.06
SEMI-VOLATILE ORGANIC COMPOUNDS (µg/l): None Detected										
HERBICIDES, PESTICIDES, & PCBs (µg/l): None Detected										

NOTES

NA = Not Analyzed/Not Applicable

.. Indicates that the analyte was not detected above laboratory practical quantitation limit

Value listed is laboratory detection limit or estimated trace (BOLDED) concentration

[a] Also found in Field Blank

Table 5-5 (Cont'd)
Arizona Street Landfill
Groundwater Results for
Monitoring Well AMW-4

ANALYTE	UNIT	May 2004	Nov 2004	Nov 2004	May 2005	May 2005	MED.	AVG.	STD. DEV.	MIN.	MAX.
GENERAL CHEMISTRY											
Bicarbonate Alkalinity	mg CACO3/l	388	330	NA	357	299	313	341	49	291	444
Chemical Oxygen Demand	mg/l	NA	NA	NA	NA	NA	NC	NC	NC	NC	NC
Chloride	mg/l	190	126	NA	150	150	135	165	81	20	326
Conductivity	µmhos/cm	1400	1400	NA	1400	NA	1010	1200	443	869	2800
Fluoride	mg/l	NA	NA	NA	NA	NA	0.26	0.43	0.32	0.23	0.8
Nitrate (as N)	mg/l	0.09	0.13	NA	0.12	0.16	0.20	19.7	97	0.07	486
pH	units	6.80	6.69	NA	6.78	6.75	6.80	6.81	0.24	6.35	7.3
Sulfate	mg/l	55.5	14.7	NA	48.5	49.0	47.0	49.5	14.2	26	87.3
Total Dissolved Solids	mg/l	500	611	NA	664	712	652	761	322	500	2150
Total Organic Carbon	mg/l	0.40	3.81	NA	2.50	87.2	3	12.13	28.18	1.01	87.2
METALS											
Aluminum	mg/l	NA	NA	NA	NA	NA	NC	NC	NC	NC	NC
Antimony	mg/l	NA	NA	NA	NA	NA	NC	NC	NC	NC	NC
Arsenic	mg/l	NA	NA	NA	NA	NA	NC	NC	NC	NC	NC
Barium	mg/l	NA	NA	NA	NA	NA	NC	NC	NC	NC	NC
Beryllium	mg/l	NA	NA	NA	NA	NA	NC	NC	NC	NC	NC
Cadmium	mg/l	NA	NA	NA	NA	NA	NC	NC	NC	NC	NC
Calcium	mg/l	119	104	NA	12.9	12.6	103	105.4	39	12.6	170
Chromium	mg/l	NA	NA	NA	NA	NA	NC	NC	NC	NC	NC
Chromium (Hexavalent)	mg/l	NA	NA	NA	NA	NA	NC	NC	NC	NC	NC
Cobalt	mg/l	NA	NA	NA	NA	NA	NC	NC	NC	NC	NC
Copper	mg/l	NA	NA	NA	NA	NA	NC	NC	NC	NC	NC
Iron	mg/l	NA	NA	NA	NA	NA	NC	NC	NC	NC	NC
Lead	mg/l	NA	NA	NA	NA	NA	0.002	0.002	0	0.002	0.002
Magnesium	mg/l	18.4	16.9	NA	2.02	1.98	16.9	16.7	5.7	1.98	27
Manganese	mg/l	NA	NA	NA	NA	NA	NC	NC	NC	NC	NC
Mercury	mg/l	NA	NA	NA	NA	NA	NC	NC	NC	NC	NC
Molybdenum	mg/l	NA	NA	NA	NA	NA	NC	NC	NC	NC	NC
Nickel	mg/l	NA	NA	NA	NA	NA	NC	NC	NC	NC	NC
Potassium	mg/l	NA	NA	NA	NA	NA	NC	NC	NC	NC	NC
Selenium	mg/l	NA	NA	NA	NA	NA	NC	NC	NC	NC	NC
Silver	mg/l	NA	NA	NA	NA	NA	NC	NC	NC	NC	NC
Sodium	mg/l	101	92.3	NA	11.7	11.2	84	95.3	44.2	11.2	166
Thallium	mg/l	NA	NA	NA	NA	NA	NC	NC	NC	NC	NC
Vanadium	mg/l	NA	NA	NA	NA	NA	NC	NC	NC	NC	NC
Zinc	mg/l	NA	NA	NA	NA	NA	0.06	0.11	0.10	0.04	0.23
VOLATILE ORGANIC COMPOUNDS											
1,1,2-Trichlorotrifluoroethane	µg/l	NA	NA	1.0	NA	NA	NC	NC	NC	NC	NC
Acetone	µg/l	3.79	7.46	6.1	7.46	7.46	NC	NC	NC	NC	NC
Benzene	µg/l	**0.29**	0.28	0.26	0.28	0.28	0.62	0.56	0.16	0.29	0.70
Chloroethane	µg/l	0.43	0.35	0.52	0.35	0.35	NC	NC	NC	NC	NC
cis-1,2-Dichloroethene	µg/l	**0.85**	**0.81**	**0.80**	**0.83**	**0.79**	0.75	0.97	0.62	0.3	2.36
Dichlorodifluoromethane	µg/l	8.13	5.08	4.6	6.45	6.94	4.84	6.38	4.47	1.2	15.8
Methylene Chloride	µg/l	0.29	0.35	2.6	0.35	0.35	NC	NC	NC	NC	NC
Naphthalene	µg/l	0.30	0.25	0.95	0.25	0.25	NC	NC	NC	NC	NC
Tetrachloroethene	µg/l	1.01	1.44	1.6	2.50	2.47	4.1	4.26	2.80	0.78	10
trans-1,2-Dichloroethene	µg/l	0.36	0.21	0.29	0.21	0.21	0.46	0.46	0.01	0.45	0.46
Trichloroethene	µg/l	10.2	6.88	6.6	5.55	5.81	3.1	4.66	3.71	0.4	14.9
SEMI-VOLATILE ORGANIC COMPOUNDS (µg/l): None Detected											
HERBICIDES, PESTICIDES, & PCBs (µg/l): None Detected											

NOTES:

NA = Not Analyzed/Not Applicable

[ ] Indicates that the analyte was not detected above laboratory practical quantitation limit

Value listed is laboratory detection limit or estimated trace (BOLDED) concentration

[NC] No calculation performed. Requires a minimum of three data entries.

Table 5-6
Arizona Street Landfill
Groundwater Results for
Monitoring Well AMW-5

ANALYTE	UNIT	May 1993	Dec 1993	Feb 1994	May 1995	Jan 1996	Jul 1996	Mar 1997	Jun 1997	Dec 1997	May 1998
GENERAL CHEMISTRY											
Bicarbonate Alkalinity	mg CACO3/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chemical Oxygen Demand	mg/l	100	103	50	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/l	410	400	415	180	336	402	369	372	366	388
Conductivity	µmhos/cm	1920	1230	1493	1710	2830	1650	NA	1355	1770	1595
Fluoride	mg/l	0.42	0.28	0.5	NA	NA	NA	NA	NA	NA	NA
Nitrate (as N)	mg/l	0.65	0.2	8	NA	NA	NA	NA	0.05	0.05	0.46
pH	units	7.28	6.69	6.11	7.04	7.01	6.8	NA	6.78	6.8	7.6
Sulfate	mg/l	87.6	77.3	80	71.6	80.4	81.6	56.4	48.6	75.3	79
Total Dissolved Solids	mg/l	410	950	906	1035	964	1030	932	1070	991	977
Total Organic Carbon	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
METALS											
Aluminum	mg/l	0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	mg/l	0.1	NA	0.03	0.03	0.09	0.1	0.050	NA	NA	NA
Arsenic	mg/l	0.020	NA	0.005	0.005	0.005	0.005	0.001	NA	NA	NA
Barium	mg/l	0.1	NA	0.05	0.02	0.02	0.024	0.026	NA	NA	NA
Beryllium	mg/l	0.01	NA	0.005	0.005	0.005	0.005	0.003	NA	NA	NA
Cadmium	mg/l	0.1	NA	0.009	0.009	0.009	0.009	0.010	NA	NA	NA
Calcium	mg/l	68	NA	NA	59	NA	NA	72.1	80.4	67.8	70
Chromium	mg/l	0.1	NA	0.05	0.01	0.01	0.01	0.010	NA	NA	NA
Chromium (Hexavalent)	mg/l	0.05	NA	0.17	0.01	0.01	0.01	NA	NA	NA	NA
Cobalt	mg/l	0.1	NA	0.01	0.01	0.01	0.01	0.015	NA	NA	NA
Copper	mg/l	0.1	NA	0.01	0.01	0.01	0.01	0.005	NA	NA	NA
Iron	mg/l	0.1	NA	NA	0.23	NA	NA	0.213	NA	NA	NA
Lead	mg/l	0.1	NA	0.05	0.002	0.004	0.004	0.050	NA	NA	NA
Magnesium	mg/l	55	NA	NA	43	NA	NA	53.1	61.5	47.4	48.9
Manganese	mg/l	0.25	NA	NA	0.13	NA	NA	NA	NA	NA	NA
Mercury	mg/l	0.002	NA	0.007	0.001	0.001	0.001	0.0002	NA	NA	NA
Molybdenum	mg/l	0.1	NA	0.01	0.03	0.02	0.03	0.039	NA	NA	NA
Nickel	mg/l	0.1	NA	0.01	0.01	0.01	0.09	0.015	NA	NA	NA
Potassium	mg/l	12.3	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/l	0.018	NA	0.005	0.005	0.005	0.008	0.01	NA	NA	NA
Silver	mg/l	0.1	NA	0.01	0.01	0.01	0.01	0.020	NA	NA	NA
Sodium	mg/l	190	NA	NA	150	NA	NA	NA	NA	NA	NA
Thallium	mg/l	0.48	NA	0.055	0.055	0.055	0.055	0.100	NA	NA	NA
Titanium	mg/l	0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/l	0.1	NA	0.01	0.01	0.01	0.01	0.01	NA	NA	NA
Zinc	mg/l	0.10	NA	0.2	0.05	0.04	0.13	0.010	NA	NA	NA
VOLATILE ORGANIC COMPOUNDS											
Acetone	µg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	µg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorodibromomethane	µg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	µg/l	5	5	5	5	5	5	5	0.6	0.5	0.3
Dichlorodifluoromethane	µg/l	10	2.9	1.1	5	5	5	5	0.5	0.5	0.3
MTBE	µg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	µg/l	5	7.2	7.27	5	5	5	5	0.5	0.5	3.0
Naphthalene	µg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	µg/l	5	1.8	31	4.6	4.2	4.2	4.2	1.4	0.7	0.3
Toluene	µg/l	5	5	5	5	5	5	19.8	0.5	0.5	0.3
Trichloroethene	µg/l	5	5	5	2.6	5	5	5	0.6	0.5	0.3
SEMI-VOLATILE ORGANIC COMPOUNDS											
bis (2-Ethylhexyl) Phthalate	µg/l	16*	25	19.8*	NA	NA	NA	NA	NA	NA	NA
HERBICIDES, PESTICIDES, & PCBs (µg/l): None Detected											

NOTES

NA = Not Analyzed/Not Applicable

Indicates that the analyte was not detected above laboratory practical quantitation limit

Value listed is laboratory detection limit or estimated trace (BOLDED) concentration.

* Suspected laboratory/field contaminant

Table 5-6 (Cont'd)
Arizona Street Landfill
Groundwater Results for
Monitoring Well AMW-5

ANALYTE	UNIT	Dec 1998	May 1999	Nov 1999	Mar 2000	Jun 2000	Nov 2000	May 2001	Nov 2001	May 2002	Nov 2002
GENERAL CHEMISTRY											
Bicarbonate Alkalinity	mg CACO3/l	NA	NA	NA	NA	319	265	260	270	280	273
Chemical Oxygen Demand	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/l	388	88	306	NA	254	364	330	344	350	380
Conductivity	µmhos/cm	1556	830	1717	NA	NA	1684	1500	1665	1500	2000
Fluoride	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate (as N)	mg/l	0.39	0.17	**0.9**	NA	**0.05**	**0.08**	0.05	**0.05**	0.10	**0.05**
pH	units	7.1	6.6	6.7	NA	6.4	6.9	6.2	6.55	6.23	6.46
Sulfate	mg/l	85	88	51	NA	128	59	34	49	40	61.1
Total Dissolved Solids	mg/l	974	482	994	NA	1020	907	1010	848	899	943
Total Organic Carbon	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	8	1.00
METALS											
Aluminum	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/l	62	45	86	NA	101	88	66	76	79	75.0
Chromium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium (Hexavalent)	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	0.2	NA
Lead	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/l	48	19	44	NA	43	44	37	47	47	52.2
Manganese	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/l	NA	NA	NA	NA	157	NA	181	216	201	216
Thallium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Titanium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOLATILE ORGANIC COMPOUNDS											
Acetone	µg/l	NA	NA	NA	NA	NA	NA	NA	NA	10.0	8.58
Bromodichloromethane	µg/l	NA	NA	**0.3**	1.4	0.3	0.3	0.3	0.3	0.5	0.31
Chlorodibromomethane	µg/l	NA	NA	**0.5**	1.4	0.4	0.4	0.4	0.4	1.0	0.25
cis-1,2-Dichloroethene	µg/l	0.3	2.0	0.4	1.4	0.3	0.3	1.7	0.3	1.8	**0.80**
Dichlorodifluoromethane	µg/l	0.3	2.0	0.3	2.0	**0.8**	0.3	0.3	1.2	1.3	0.51
MTBE	µg/l	1.4	2.0	0.3	1.7	0.3	0.3	0.3	0.3	1.0	0.80
Methylene Chloride	µg/l	3.0	5.0	3.0	0.5	3.0	3.0	3.0	3.0	NA	0.56
Naphthalene	µg/l	NA	NA	NA	2.8	NA	NA	NA	NA	1.0	0.37
Tetrachloroethene	µg/l	0.5	2.0	0.5	2.0	**0.3**	0.3	0.3	0.5	1.1	0.71
Toluene	µg/l	0.3	2.0	0.3	1.6	0.3	0.3	0.3	0.3	0.6	0.36
Trichloroethene	µg/l	0.3	2.0	0.3	1.6	2.6	0.3	1.6	0.7	2.8	1.08
SEMI-VOLATILE ORGANIC COMPOUNDS											
bis (2-Ethylhexyl) Phthalate	µg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HERBICIDES, PESTICIDES, & PCBs (µg/l): None Detected											

NOTES

NA = Not Analyzed/Not Applicable

[ ] Indicates that the analyte was not detected above laboratory practical quantitation limit

Value listed is laboratory detection limit or estimated trace (BOLDED) concentration

Table 5-6 (Cont'd)
Arizona Street Landfill
Groundwater Results for
Monitoring Well AMW-5

ANALYTE	UNIT	May 2003	Nov 2003	May 2004	May 2004	Nov 2004	May 2005	MED.	AVG.	STD. DEV.	MIN.	MAX.
GENERAL CHEMISTRY												
Bicarbonate Alkalinity	mg CACO3/l	264	283	270	NA	287	245	270	274	19	245	319
Chemical Oxygen Demand	mg/l	NA	NA	NA	NA	NA	NA	NC	NC	NC	NC	NC
Chloride	mg/l	358	360	370	239	350	360	360	339	76	88	415
Conductivity	µmhos/cm	1900	1800	1900	NA	1900	1800	1697	1696	366	830	2830
Fluoride	mg/l	NA	NA	NA	NA	NA	NA	0.42	0.4	0.11	0.28	0.5
Nitrate (as N)	mg/l	0.25	0.06	0.009	0.009	0.009	0.009	0.19	0.8	2.1	0.05	8
pH	units	6.78	6.08	6.44	6.38	6.17	6.83	6.70	6.66	0.39	6.08	7.6
Sulfate	mg/l	58.6	54.2	64.2	71.2	39.9	69.4	69.4	67.6	20.2	34	128
Total Dissolved Solids	mg/l	846	903	929	921	870	910	932	909	151	410	1070
Total Organic Carbon	mg/l	2.46	2.44	0.40	0.40	13.2	1.90	2.46	5.60	4.93	1.90	13.2
METALS												
Aluminum	mg/l	NA	NA	NA	NA	NA	NA	NC	NC	NC	NC	NC
Antimony	mg/l	NA	NA	NA	NA	NA	NA	NC	NC	NC	NC	NC
Arsenic	mg/l	NA	NA	NA	NA	NA	NA	NC	NC	NC	NC	NC
Barium	mg/l	NA	NA	NA	NA	NA	NA	0.024	0.028	0.013	0.02	0.05
Beryllium	mg/l	NA	NA	NA	NA	NA	NA	NC	NC	NC	NC	NC
Cadmium	mg/l	NA	NA	NA	NA	NA	NA	NC	NC	NC	NC	NC
Calcium	mg/l	69.5	62.4	71.3	70.9	61.4	7.30	70	68.5	18.2	7.30	101
Chromium	mg/l	NA	NA	NA	NA	NA	NA	NC	NC	NC	NC	NC
Chromium (Hexavalent)	mg/l	NA	NA	NA	NA	NA	NA	NC	NC	NC	NC	NC
Cobalt	mg/l	NA	NA	NA	NA	NA	NA	NC	NC	NC	NC	NC
Copper	mg/l	NA	NA	NA	NA	NA	NA	NC	NC	NC	NC	NC
Iron	mg/l	NA	0.12	NA	NA	NA	NA	0.21	0.19	0.05	0.12	0.23
Lead	mg/l	NA	NA	NA	NA	NA	NA	0.004	0.015	0.023	0.002	0.05
Magnesium	mg/l	45.4	41.4	49.3	49.4	46.3	5.34	47	44.2	12	5.34	61.5
Manganese	mg/l	NA	NA	NA	NA	NA	NA	NC	NC	NC	NC	NC
Mercury	mg/l	NA	NA	NA	NA	NA	NA	NC	NC	NC	NC	NC
Molybdenum	mg/l	NA	NA	NA	NA	NA	NA	0.03	0.03	0.01	0.02	0.039
Nickel	mg/l	NA	NA	NA	NA	NA	NA	0.01	0.04	0.05	0.01	0.09
Potassium	mg/l	NA	NA	NA	NA	NA	NA	NC	NC	NC	NC	NC
Selenium	mg/l	NA	NA	NA	NA	NA	NA	0.01	0.012	0.005	0.008	0.018
Silver	mg/l	NA	NA	NA	NA	NA	NA	NC	NC	NC	NC	NC
Sodium	mg/l	199	173	194	196	190	21.5	190	175.7	50.3	21.5	216
Thallium	mg/l	NA	NA	NA	NA	NA	NA	NC	NC	NC	NC	NC
Titanium	mg/l	NA	NA	NA	NA	NA	NA	NC	NC	NC	NC	NC
Vanadium	mg/l	NA	NA	NA	NA	NA	NA	NC	NC	NC	NC	NC
Zinc	mg/l	NA	NA	NA	NA	NA	NA	0.12	0.12	0.07	0.04	0.2
VOLATILE ORGANIC COMPOUNDS												
Acetone	µg/l	8.69[a]	3.79	3.79	3.79	7.46	7.46	NC	NC	NC	NC	NC
Bromodichloromethane	µg/l	0.23	0.23	0.23	0.23	0.33	0.33	NC	NC	NC	NC	NC
Chlorodibromomethane	µg/l	0.23	0.23	0.23	0.23	0.27	0.27	NC	NC	NC	NC	NC
cis-1,2-Dichloroethene	µg/l	1.11	0.44	0.39	0.65	1.21	0.26	0.96	1.0	0.51	0.44	1.8
Dichlorodifluoromethane	µg/l	0.37	0.61	0.51	0.39	0.79	0.79	0.61	0.93	0.80	0.37	2.9
MTBE	µg/l	0.54	0.54	0.54	0.54	0.47	0.47	NC	NC	NC	NC	NC
Methylene Chloride	µg/l	0.29	0.49[a]	0.29	0.29	0.35	0.35	NC	NC	NC	NC	NC
Naphthalene	µg/l	0.30	0.30	0.30	0.30	0.25	0.25	NC	NC	NC	NC	NC
Tetrachloroethene	µg/l	0.58	1.28	0.66	0.65	1.26	0.30	0.9	3.3	8.0	0.3	31
Toluene	µg/l	0.25	0.25	0.25	0.25	0.55	0.55	NC	NC	NC	NC	NC
Trichloroethene	µg/l	1.01	0.77	1.02	1.03	1.75	0.29	1.03	1.37	0.84	0.29	2.8
SEMI-VOLATILE ORGANIC COMPOUNDS												
bis (2-Ethylhexyl) Phthalate	µg/l	NA	NA	NA	NA	NA	NA	NC	NC	NC	NC	NC
HERBICIDES, PESTICIDES, & PCBs (µg/l): None Detected												

NOTES

NA = Not Analyzed/Not Applicable

Indicates that the analyte was not detected above laboratory practical quantitation limit

Value listed is laboratory detection limit or estimated trace (BOLD'ED) concentration

NC No calculation performed. Requires a minimum of three data entries

[a] Also found in Field Blank.

Table 5-7
Arizona Street Landfill
Groundwater Results for
Monitoring Well AMW-6

ANALYTE	UNIT	Nov 2004	Jan 2005	Jan[3] 2005	Jan[3] 2005	May 2005	May 2005
GENERAL CHEMISTRY							
Bicarbonate Alkalinity	mg CACO3/l	730	NA	NA	NA	442	497
Chemical Oxygen Demand	mg/l	NA	NA	NA	NA	NA	NA
Chloride	mg/l	260	NA	NA	NA	230	206
Conductivity	µmhos/cm	2600	2400	2400	2400	2300	2300
Fluoride	mg/l	NA	NA	NA	NA	NA	NA
Nitrate (as N)	mg/l	0.009	NA	NA	NA	0.009	0.009
pH	units	6.35	6.4	6.3	6.3	6.45	6.51
Sulfate	mg/l	190	NA	NA	NA	498	484
Total Dissolved Solids	mg/l	1410	NA	NA	NA	1430	1380
Total Organic Carbon	mg/l	13.8	NA	NA	NA	11.0	8.42
METALS							
Aluminum	mg/l	NA	NA	NA	NA	NA	NA
Antimony	mg/l	NA	NA	NA	NA	NA	NA
Arsenic	mg/l	NA	NA	NA	NA	NA	NA
Barium	mg/l	NA	NA	NA	NA	NA	NA
Beryllium	mg/l	NA	NA	NA	NA	NA	NA
Cadmium	mg/l	NA	NA	NA	NA	NA	NA
Calcium	mg/l	238	NA	NA	NA	25.0	27.4
Chromium	mg/l	NA	NA	NA	NA	NA	NA
Chromium (Hexavalent)	mg/l	NA	NA	NA	NA	NA	NA
Cobalt	mg/l	NA	NA	NA	NA	NA	NA
Copper	mg/l	NA	NA	NA	NA	NA	NA
Iron	mg/l	NA	NA	NA	NA	NA	NA
Lead	mg/l	NA	NA	NA	NA	NA	NA
Magnesium	mg/l	26.9	NA	NA	NA	2.72	2.77
Manganese	mg/l	NA	NA	NA	NA	NA	NA
Mercury	mg/l	NA	NA	NA	NA	NA	NA
Molybdenum	mg/l	NA	NA	NA	NA	NA	NA
Nickel	mg/l	NA	NA	NA	NA	NA	NA
Potassium	mg/l	NA	NA	NA	NA	NA	NA
Selenium	mg/l	NA	NA	NA	NA	NA	NA
Silver	mg/l	NA	NA	NA	NA	NA	NA
Sodium	mg/l	253	NA	NA	NA	24.8	26.5
Thallium	mg/l	NA	NA	NA	NA	NA	NA
Vanadium	mg/l	NA	NA	NA	NA	NA	NA
Zinc	mg/l	NA	NA	NA	NA	NA	NA
VOLATILE ORGANIC COMPOUNDS							
1,1-Dichloroethane	µg/l	**0.95**	**0.81**	1.10	1.04	**0.79**	**0.73**
1,4-Dichlorobenzene	µg/l	0.21	0.21	0.21	0.21	**0.32**	**0.35**
Benzene	µg/l	1.67	1.53	1.88	1.87	1.32	1.27
cis-1,2-Dichloroethene	µg/l	11.6	9.39	10.7	10.6	7.97	7.88
Dichlorodifluoromethane	µg/l	7.41	5.15	11.3	11.7	17.3	11.9
Methylene Chloride	µg/l	29.3	19.8	23.5	23.1	13.9	13.7
Tetrachloroethene	µg/l	17.8	20.7	39.3	40.2	24.4	23.3
trans-1,2-Dichloroethene	µg/l	1.78	1.39	1.81	1.74	1.31	1.20
Trichloroethene	µg/l	17.4	16.3	23.8	22.9	19.9	18.4
Vinyl Chloride	µg/l	**1.84**	**1.36**	2.19	2.20	**1.76**	**1.62**
SEMI-VOLATILE ORGANIC COMPOUNDS (µg/l): None Detected							
HERBICIDES, PESTICIDES, & PCBs (µg/l): None Detected							

NOTES.

NA = Not Analyzed/Not Applicable

Indicates that the analyte was not detected above laboratory practical quantitation limit

Value listed is laboratory detection limit or estimated trace (BOLDED) concentration

[3] Sampled using standard purging methods

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Table 5-7 (Cont'd)
Arizona Street Landfill
Groundwater Results for
Monitoring Well AMW-6

ANALYTE	UNIT	May 2005	MED.	AVG.	STD. DEV.	MIN.	MAX.
GENERAL CHEMISTRY							
Bicarbonate Alkalinity	mg CACO3/l	460	479	532	134	442	730
Chemical Oxygen Demand	mg/l	NA	NC	NC	NC	NC	NC
Chloride	mg/l	220	225	229	23	206	260
Conductivity	µmhos/cm	2300	2400	2386	107	2300	2600
Fluoride	mg/l	NA	NC	NC	NC	NC	NC
Nitrate (as N)	mg/l	0.009	NC	NC	NC	NC	NC
pH	units	6.50	6.4	6.40	0.09	6.3	6.51
Sulfate	mg/l	184	337	339	176	184	498
Total Dissolved Solids	mg/l	1400	1405	1405	20.8	1380	1430
Total Organic Carbon	mg/l	5.08	9.71	9.58	3.72	5.08	13.8
METALS							
Aluminum	mg/l	NA	NC	NC	NC	NC	NC
Antimony	mg/l	NA	NC	NC	NC	NC	NC
Arsenic	mg/l	NA	NC	NC	NC	NC	NC
Barium	mg/l	NA	NC	NC	NC	NC	NC
Beryllium	mg/l	NA	NC	NC	NC	NC	NC
Cadmium	mg/l	NA	NC	NC	NC	NC	NC
Calcium	mg/l	27.8	27.6	79.6	105.6	25.0	238
Chromium	mg/l	NA	NC	NC	NC	NC	NC
Chromium (Hexavalent)	mg/l	NA	NC	NC	NC	NC	NC
Cobalt	mg/l	NA	NC	NC	NC	NC	NC
Copper	mg/l	NA	NC	NC	NC	NC	NC
Iron	mg/l	NA	NC	NC	NC	NC	NC
Lead	mg/l	NA	NC	NC	NC	NC	NC
Magnesium	mg/l	2.82	2.8	8.8	12.1	2.72	26.9
Manganese	mg/l	NA	NC	NC	NC	NC	NC
Mercury	mg/l	NA	NC	NC	NC	NC	NC
Molybdenum	mg/l	NA	NC	NC	NC	NC	NC
Nickel	mg/l	NA	NC	NC	NC	NC	NC
Potassium	mg/l	NA	NC	NC	NC	NC	NC
Selenium	mg/l	NA	NC	NC	NC	NC	NC
Silver	mg/l	NA	NC	NC	NC	NC	NC
Sodium	mg/l	26.5	26.5	82.7	113.5	24.8	253
Thallium	mg/l	NA	NC	NC	NC	NC	NC
Vanadium	mg/l	NA	NC	NC	NC	NC	NC
Zinc	mg/l	NA	NC	NC	NC	NC	NC
VOLATILE ORGANIC COMPOUNDS							
1,1-Dichloroethane	µg/l	0.63	0.81	0.86	0.17	0.63	1.10
1,4-Dichlorobenzene	µg/l	0.36	0.35	0.34	0.02	0.32	0.36
Benzene	µg/l	1.32	1.53	1.55	0.26	1.27	1.88
cis-1,2-Dichloroethene	µg/l	8.13	9.39	9.47	1.52	7.88	11.6
Dichlorodifluoromethane	µg/l	11.2	11.3	10.85	3.83	5.15	17.3
Methylene Chloride	µg/l	11.6	19.8	19.3	6.5	11.6	29.3
Tetrachloroethene	µg/l	24.3	24.3	27.1	8.9	17.8	40.2
trans-1,2-Dichloroethene	µg/l	0.99	1.39	1.46	0.32	0.99	1.81
Trichloroethene	µg/l	19.0	19.0	19.7	2.8	16.3	23.8
Vinyl Chloride	µg/l	1.68	1.76	1.81	0.30	1.36	2.20
SEMI-VOLATILE ORGANIC COMPOUNDS (µg/l): None Detected							
HERBICIDES, PESTICIDES, & PCBs (µg/l): None Detected							

NOTES

NA = Not Analyzed/Not Applicable

Indicates that the analyte was not detected above laboratory practical quantitation limit

Value listed is laboratory detection limit or estimated trace (BOLDLU) concentration.

NC No calculation performed. Requires a minimum of three data entries

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