ANALYTICAL REPORT

PROJECT NO. GW P.O.#08421

PTI - Santa Fe Springs

Lot #: E2D180308

Sharon Wallin

Camp, Dresser, McKee

SEVERN TRENT LABORATORIES, INC.

Diane Suzuki
Project Manager

April 25, 2002

ANALYTICAL REPORT

PROJECT NO. GW P.O.#08421

PTI - Santa Fe Springs

Lot #: E2D180308

Jim Morzolino

Phibro-Tech, Inc.

SEVERN TRENT LABORATORIES, INC.

Diane Suzuki
Project Manager

April 25, 2002

ANALYTICAL REPORT

PROJECT NO. GW P.O.#08421

PTI - Santa Fe Springs

Lot #: E2D180308

John Bennett

SEVERN TRENT LABORATORIES, INC.

Diane Suzuki
Project Manager

April 25, 2002

EXECUTIVE SUMMARY - Detection Highlights

E2D180308

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
PTI-MW4-053 04/18/02 08:05 001				
Cadmium	0.44	0.010	mg/L	SW846 6010B
Chromium	27.4	0.020	mg/L	SW846 6010B
1,1-Dichloroethane	100	50	ug/L	SW846 8260B
1,1-Dichloroethene	57	50	ug/L	SW846 8260B
cis-1,2-Dichloroethene	86	50	ug/L	SW846 8260B
Ethylbenzene	2200	50	ug/L	SW846 8260B
Methylene chloride	58	50	ug/L	SW846 8260B
Trichloroethene	260	50	ug/L	SW846 8260B
m-Xylene & p-Xylene	170	50	ug/L	SW846 8260B
pH	6.8	0.10	No Units	SW846 9040B
PTI-MW35-053 04/18/02 12:20 002				
Cadmium	0.43	0.010	mg/L	SW846 6010B
Chromium	26.3	0.020	mg/L	SW846 6010B
1,1-Dichloroethane	100	50	ug/L	SW846 8260B
1,1-Dichloroethene	65	50	ug/L	SW846 8260B
cis-1,2-Dichloroethene	84	50	ug/L	SW846 8260B
Ethylbenzene	1900	50	ug/L	SW846 8260B
Methylene chloride	60	50	ug/L	SW846 8260B
Trichloroethene	260	50	ug/L	SW846 8260B
m-Xylene & p-Xylene	160	50	ug/L	SW846 8260B
pH	6.8	0.10	No Units	SW846 9040B
PTI-MW16-053 04/18/02 08:55 003				
Chromium	0.012	0.010	mg/L	SW846 6010B
1,1-Dichloroethane	110	2.0	ug/L	SW846 8260B
1,2-Dichloroethane	90	2.0	ug/L	SW846 8260B
1,1-Dichloroethene	10	2.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	6.5	2.0	ug/L	SW846 8260B
Trichloroethene	37	2.0	ug/L	SW846 8260B
pH	7.1	0.10	No Units	SW846 9040B
PTI-MW9-053 04/18/02 09:50 004				
Chromium	0.16	0.010	mg/L	SW846 6010B
Chloroform	26	2.5	ug/L	SW846 8260B
1,1-Dichloroethane	110	2.5	ug/L	SW846 8260B
1,2-Dichloroethane	64	2.5	ug/L	SW846 8260B
1,1-Dichloroethene	33	2.5	ug/L	SW846 8260B
cis-1,2-Dichloroethene	11	2.5	ug/L	SW846 8260B
Methylene chloride	6.9	2.5	ug/L	SW846 8260B

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EXECUTIVE SUMMARY - Detection Highlights

E2D180308

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
PTI-MW9-053 04/18/02 09:50 004				
Tetrachloroethene	4.2	2.5	ug/L	SW846 8260B
1,1,1-Trichloroethane	12	2.5	ug/L	SW846 8260B
Trichloroethene	140	2.5	ug/L	SW846 8260B
pH	7.1	0.10	No Units	SW846 9040B
PTI-MW37-053 04/18/02 11:55 005				
Chromium	0.15	0.010	mg/L	SW846 6010B
Chloroform	36	2.5	ug/L	SW846 8260B
1,1-Dichloroethane	160	2.5	ug/L	SW846 8260B
1,2-Dichloroethane	56	2.5	ug/L	SW846 8260B
1,1-Dichloroethene	48	2.5	ug/L	SW846 8260B
cis-1,2-Dichloroethene	16	2.5	ug/L	SW846 8260B
Methylene chloride	10	2.5	ug/L	SW846 8260B
Tetrachloroethene	6.0	2.5	ug/L	SW846 8260B
1,1,1-Trichloroethane	20	2.5	ug/L	SW846 8260B
Trichloroethene	190	2.5	ug/L	SW846 8260B
pH	7.1	0.10	No Units	SW846 9040B
PTI-MW7-053 04/18/02 11:10 006				
Copper	0.057	0.025	mg/L	SW846 6010B
1,1-Dichloroethane	34	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	52	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	4.1	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	7.9	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	1.1	1.0	ug/L	SW846 8260B
Tetrachloroethene	1.0	1.0	ug/L	SW846 8260B
Trichloroethene	38	1.0	ug/L	SW846 8260B
pH	7.1	0.10	No Units	SW846 9040B
PTI-MW11-053 04/18/02 13:25 008				
Chloroform	44	25	ug/L	SW846 8260B
1,1-Dichloroethane	360	25	ug/L	SW846 8260B
1,1-Dichloroethene	89	25	ug/L	SW846 8260B
cis-1,2-Dichloroethene	66	25	ug/L	SW846 8260B
Ethylbenzene	300	25	ug/L	SW846 8260B
1,1,1-Trichloroethane	27	25	ug/L	SW846 8260B
Trichloroethene	1300	25	ug/L	SW846 8260B
pH	6.8	0.10	No Units	SW846 9040B

METHODS SUMMARY

E2D180308

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
pH Aqueous	SW846 9040B	SW846 9040B
Inductively Coupled Plasma (ICP) Metals	SW846 6010B	SW846 3005A
Volatile Organics by GC/MS	SW846 8260B	SW846 5030B/826

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

E2D180308

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
EX5NJ	001	PTI-MW4-053	04/18/02	08:05
EX5NN	002	PTI-MW35-053	04/18/02	12:20
EX5NP	003	PTI-MW16-053	04/18/02	08:55
EX5NQ	004	PTI-MW9-053	04/18/02	09:50
EX5NT	005	PTI-MW37-053	04/18/02	11:55
EX5NV	006	PTI-MW7-053	04/18/02	11:10
EX5NX	007	PTI-EB03-053	04/18/02	12:35
EX5N0	008	PTI-MW11-053	04/18/02	13:25
EX5N2	009	PTI-TB03-053	04/18/02	12:00
EX5N8	010	PTI-DI-053	04/18/02	12:00

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.

PHIBRO-TECH, INC.

Client Sample ID: PTI-MW4-053

GC/MS Volatiles

Lot-Sample #...: E2D180308-001 **Work Order #...:** EX5NJ1AA **Matrix.....:** WATER
Date Sampled...: 04/18/02 08:05 **Date Received..:** 04/18/02 15:00 **MS Run #.....:** 2112237
Prep Date.....: 04/19/02 **Analysis Date..:** 04/20/02
Prep Batch #...: 2112523 **Analysis Time..:** 02:29
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND	50	ug/L	15
Bromodichloromethane	ND	50	ug/L	15
Bromoform	ND	50	ug/L	15
Bromomethane	ND	100	ug/L	50
Carbon tetrachloride	ND	50	ug/L	15
Chlorobenzene	ND	50	ug/L	15
Dibromochloromethane	ND	50	ug/L	20
Chloroethane	ND	100	ug/L	15
Chloroform	ND	50	ug/L	15
Chloromethane	ND	100	ug/L	15
1,2-Dichlorobenzene	ND	50	ug/L	15
1,3-Dichlorobenzene	ND	50	ug/L	15
1,4-Dichlorobenzene	ND	50	ug/L	15
1,1-Dichloroethane	**100**	**50**	**ug/L**	**10**
1,2-Dichloroethane	ND	50	ug/L	20
1,1-Dichloroethene	**57**	**50**	**ug/L**	**15**
cis-1,2-Dichloroethene	**86**	**50**	**ug/L**	**15**
trans-1,2-Dichloroethene	ND	50	ug/L	15
1,2-Dichloropropane	ND	50	ug/L	15
cis-1,3-Dichloropropene	ND	50	ug/L	15
trans-1,3-Dichloropropene	ND	50	ug/L	25
Ethylbenzene	**2200**	**50**	**ug/L**	**10**
Methylene chloride	**58**	**50**	**ug/L**	**15**
1,1,2,2-Tetrachloroethane	ND	50	ug/L	20
Tetrachloroethene	ND	50	ug/L	15
Toluene	ND	50	ug/L	15
1,1,1-Trichloroethane	ND	50	ug/L	10
1,1,2-Trichloroethane	ND	50	ug/L	15
Trichloroethene	**260**	**50**	**ug/L**	**15**
Trichlorofluoromethane	ND	100	ug/L	15
Vinyl chloride	ND	100	ug/L	15
m-Xylene & p-Xylene	**170**	**50**	**ug/L**	**25**
o-Xylene	ND	50	ug/L	10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	100	(75 - 130)
1,2-Dichloroethane-d4	120	(65 - 135)
Toluene-d8	97	(80 - 130)

PHIBRO-TECH, INC.

Client Sample ID: PTI-MW4-053

TOTAL Metals

Lot-Sample #...: E2D180308-001 **Matrix.....:** WATER
Date Sampled...: 04/18/02 08:05 **Date Received..:** 04/18/02 15:00

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2109232						
Cadmium	**0.44**	**0.010**	**mg/L**	**SW846 6010B**	**04/23-04/25/02**	**EX5NJ1AC**
		Analysis Time..: 15:15		MS Run #.....: 2114147	MDL.....: 0.0012	
Chromium	**27.4**	**0.020**	**mg/L**	**SW846 6010B**	**04/23-04/25/02**	**EX5NJ1AD**
		Analysis Time..: 15:15		MS Run #.....: 2114147	MDL.....: 0.0020	
Copper	ND G	0.050	mg/L	SW846 6010B	04/23-04/25/02	EX5NJ1AE
		Analysis Time..: 15:15		MS Run #.....: 2114147	MDL.....: 0.0080	

NOTE(S):

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

PHIBRO-TECH, INC.

Client Sample ID: PTI-MW4-053

General Chemistry

Lot-Sample #...: E2D180308-001 **Work Order #...:** EX5NJ **Matrix.....:** WATER
Date Sampled...: 04/18/02 08:05 **Date Received..:** 04/18/02 15:00

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH	**6.8**	**0.10**	**No Units**	**SW846 9040B**	**04/18/02**	**2108503**

Analysis Time..: 16:07 MS Run #.....: 2108260 MDL.....:

PHIBRO-TECH, INC.

Client Sample ID: PTI-MW35-053

GC/MS Volatiles

Lot-Sample #...: E2D180308-002 **Work Order #...:** EX5NN1AA **Matrix.....:** WATER
Date Sampled...: 04/18/02 12:20 **Date Received..:** 04/18/02 15:00 **MS Run #.....:** 2112237
Prep Date.....: 04/19/02 **Analysis Date..:** 04/20/02
Prep Batch #...: 2112523 **Analysis Time..:** 02:59
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND	50	ug/L	15
Bromodichloromethane	ND	50	ug/L	15
Bromoform	ND	50	ug/L	15
Bromomethane	ND	100	ug/L	50
Carbon tetrachloride	ND	50	ug/L	15
Chlorobenzene	ND	50	ug/L	15
Dibromochloromethane	ND	50	ug/L	20
Chloroethane	ND	100	ug/L	15
Chloroform	ND	50	ug/L	15
Chloromethane	ND	100	ug/L	15
1,2-Dichlorobenzene	ND	50	ug/L	15
1,3-Dichlorobenzene	ND	50	ug/L	15
1,4-Dichlorobenzene	ND	50	ug/L	15
1,1-Dichloroethane	**100**	**50**	**ug/L**	**10**
1,2-Dichloroethane	ND	50	ug/L	20
1,1-Dichloroethene	**65**	**50**	**ug/L**	**15**
cis-1,2-Dichloroethene	**84**	**50**	**ug/L**	**15**
trans-1,2-Dichloroethene	ND	50	ug/L	15
1,2-Dichloropropane	ND	50	ug/L	15
cis-1,3-Dichloropropene	ND	50	ug/L	15
trans-1,3-Dichloropropene	ND	50	ug/L	25
Ethylbenzene	**1900**	**50**	**ug/L**	**10**
Methylene chloride	**60**	**50**	**ug/L**	**15**
1,1,2,2-Tetrachloroethane	ND	50	ug/L	20
Tetrachloroethene	ND	50	ug/L	15
Toluene	ND	50	ug/L	15
1,1,1-Trichloroethane	ND	50	ug/L	10
1,1,2-Trichloroethane	ND	50	ug/L	15
Trichloroethene	**260**	**50**	**ug/L**	**15**
Trichlorofluoromethane	ND	100	ug/L	15
Vinyl chloride	ND	100	ug/L	15
m-Xylene & p-Xylene	**160**	**50**	**ug/L**	**25**
o-Xylene	ND	50	ug/L	10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	93	(75 - 130)
1,2-Dichloroethane-d4	112	(65 - 135)
Toluene-d8	92	(80 - 130)

PHIBRO-TECH, INC.

Client Sample ID: PTI-MW35-053

TOTAL Metals

Lot-Sample #...: E2D180308-002 **Matrix.....:** WATER
Date Sampled...: 04/18/02 12:20 **Date Received..:** 04/18/02 15:00

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2109232						
Cadmium	**0.43**	**0.010**	**mg/L**	**SW846 6010B**	**04/23-04/25/02**	**EX5NN1AC**
		Analysis Time..: 15:23		MS Run #.....: 2114147	MDL.....: 0.0012	
Chromium	**26.3**	**0.020**	**mg/L**	**SW846 6010B**	**04/23-04/25/02**	**EX5NN1AD**
		Analysis Time..: 15:23		MS Run #.....: 2114147	MDL.....: 0.0020	
Copper	ND G	0.050	mg/L	SW846 6010B	04/23-04/25/02	EX5NN1AE
		Analysis Time..: 15:23		MS Run #.....: 2114147	MDL.....: 0.0080	

NOTE(S):

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

PHIBRO-TECH, INC.

Client Sample ID: PTI-MW35-053

General Chemistry

Lot-Sample #...: E2D180308-002 **Work Order #...:** EX5NN **Matrix.....:** WATER
Date Sampled...: 04/18/02 12:20 **Date Received..:** 04/18/02 15:00

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH	**6.8**	**0.10**	**No Units**	**SW846 9040B**	**04/18/02**	**2108503**

Analysis Time..: 16:13 MS Run #.....: 2108260 MDL.....:

PHIBRO-TECH, INC.

Client Sample ID: PTI-MW16-053

GC/MS Volatiles

Lot-Sample #...: E2D180308-003 **Work Order #...:** EX5NP1AA **Matrix.....:** WATER
Date Sampled...: 04/18/02 08:55 **Date Received..:** 04/18/02 15:00 **MS Run #.....:** 2112237
Prep Date.....: 04/19/02 **Analysis Date..:** 04/20/02
Prep Batch #...: 2112523 **Analysis Time..:** 03:29
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND	2.0	ug/L	0.60
Bromodichloromethane	ND	2.0	ug/L	0.60
Bromoform	ND	2.0	ug/L	0.60
Bromomethane	ND	4.0	ug/L	2.0
Carbon tetrachloride	ND	2.0	ug/L	0.60
Chlorobenzene	ND	2.0	ug/L	0.60
Dibromochloromethane	ND	2.0	ug/L	0.80
Chloroethane	ND	4.0	ug/L	0.60
Chloroform	ND	2.0	ug/L	0.60
Chloromethane	ND	4.0	ug/L	0.60
1,2-Dichlorobenzene	ND	2.0	ug/L	0.60
1,3-Dichlorobenzene	ND	2.0	ug/L	0.60
1,4-Dichlorobenzene	ND	2.0	ug/L	0.60
1,1-Dichloroethane	**110**	**2.0**	**ug/L**	**0.40**
1,2-Dichloroethane	**90**	**2.0**	**ug/L**	**0.80**
1,1-Dichloroethene	**10**	**2.0**	**ug/L**	**0.60**
cis-1,2-Dichloroethene	**6.5**	**2.0**	**ug/L**	**0.60**
trans-1,2-Dichloroethene	ND	2.0	ug/L	0.60
1,2-Dichloropropane	ND	2.0	ug/L	0.60
cis-1,3-Dichloropropene	ND	2.0	ug/L	0.60
trans-1,3-Dichloropropene	ND	2.0	ug/L	1.0
Ethylbenzene	ND	2.0	ug/L	0.40
Methylene chloride	ND	2.0	ug/L	0.60
1,1,2,2-Tetrachloroethane	ND	2.0	ug/L	0.80
Tetrachloroethene	ND	2.0	ug/L	0.60
Toluene	ND	2.0	ug/L	0.60
1,1,1-Trichloroethane	ND	2.0	ug/L	0.40
1,1,2-Trichloroethane	ND	2.0	ug/L	0.60
Trichloroethene	**37**	**2.0**	**ug/L**	**0.60**
Trichlorofluoromethane	ND	4.0	ug/L	0.60
Vinyl chloride	ND	4.0	ug/L	0.60
m-Xylene & p-Xylene	ND	2.0	ug/L	1.0
o-Xylene	ND	2.0	ug/L	0.40

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	98	(75 - 130)
1,2-Dichloroethane-d4	134	(65 - 135)
Toluene-d8	96	(80 - 130)

PHIBRO-TECH, INC.

Client Sample ID: PTI-MW16-053

TOTAL Metals

Lot-Sample #...: E2D180308-003 **Matrix.....:** WATER
Date Sampled...: 04/18/02 08:55 **Date Received..:** 04/18/02 15:00

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2109232						
Cadmium	ND	0.0050	mg/L	SW846 6010B	04/23-04/24/02	EX5NP1AC
		Analysis Time..: 20:20		MS Run #.....: 2114147	MDL.....: 0.00060	
Chromium	**0.012**	**0.010**	**mg/L**	**SW846 6010B**	**04/23-04/24/02**	**EX5NP1AD**
		Analysis Time..: 20:20		MS Run #.....: 2114147	MDL.....: 0.0010	
Copper	ND	0.025	mg/L	SW846 6010B	04/23-04/24/02	EX5NP1AE
		Analysis Time..: 20:20		MS Run #.....: 2114147	MDL.....: 0.0040	

PHIBRO-TECH, INC.

Client Sample ID: PTI-MW16-053

General Chemistry

Lot-Sample #...: E2D180308-003 **Work Order #...:** EX5NP **Matrix.....:** WATER
Date Sampled...: 04/18/02 08:55 **Date Received..:** 04/18/02 15:00

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH	**7.1**	**0.10**	**No Units**	**SW846 9040B**	**04/18/02**	**2108503**

Analysis Time..: 16:16 MS Run #.....: 2108260 MDL.....:

PHIBRO-TECH, INC.

Client Sample ID: PTI-MW9-053

GC/MS Volatiles

Lot-Sample #...: E2D180308-004 **Work Order #...:** EX5NQ1AA **Matrix.....:** WATER
Date Sampled...: 04/18/02 09:50 **Date Received..:** 04/18/02 15:00 **MS Run #.....:** 2112237
Prep Date.....: 04/19/02 **Analysis Date..:** 04/20/02
Prep Batch #...: 2112523 **Analysis Time..:** 03:59
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND	2.5	ug/L	0.75
Bromodichloromethane	ND	2.5	ug/L	0.75
Bromoform	ND	2.5	ug/L	0.75
Bromomethane	ND	5.0	ug/L	2.5
Carbon tetrachloride	ND	2.5	ug/L	0.75
Chlorobenzene	ND	2.5	ug/L	0.75
Dibromochloromethane	ND	2.5	ug/L	1.0
Chloroethane	ND	5.0	ug/L	0.75
Chloroform	**26**	**2.5**	**ug/L**	**0.75**
Chloromethane	ND	5.0	ug/L	0.75
1,2-Dichlorobenzene	ND	2.5	ug/L	0.75
1,3-Dichlorobenzene	ND	2.5	ug/L	0.75
1,4-Dichlorobenzene	ND	2.5	ug/L	0.75
1,1-Dichloroethane	**110**	**2.5**	**ug/L**	**0.50**
1,2-Dichloroethane	**64**	**2.5**	**ug/L**	**1.0**
1,1-Dichloroethene	**33**	**2.5**	**ug/L**	**0.75**
cis-1,2-Dichloroethene	**11**	**2.5**	**ug/L**	**0.75**
trans-1,2-Dichloroethene	ND	2.5	ug/L	0.75
1,2-Dichloropropane	ND	2.5	ug/L	0.75
cis-1,3-Dichloropropene	ND	2.5	ug/L	0.75
trans-1,3-Dichloropropene	ND	2.5	ug/L	1.2
Ethylbenzene	ND	2.5	ug/L	0.50
Methylene chloride	**6.9**	**2.5**	**ug/L**	**0.75**
1,1,2,2-Tetrachloroethane	ND	2.5	ug/L	1.0
Tetrachloroethene	**4.2**	**2.5**	**ug/L**	**0.75**
Toluene	ND	2.5	ug/L	0.75
1,1,1-Trichloroethane	**12**	**2.5**	**ug/L**	**0.50**
1,1,2-Trichloroethane	ND	2.5	ug/L	0.75
Trichloroethene	**140**	**2.5**	**ug/L**	**0.75**
Trichlorofluoromethane	ND	5.0	ug/L	0.75
Vinyl chloride	ND	5.0	ug/L	0.75
m-Xylene & p-Xylene	ND	2.5	ug/L	1.2
o-Xylene	ND	2.5	ug/L	0.50

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	90	(75 - 130)
1,2-Dichloroethane-d4	109	(65 - 135)
Toluene-d8	86	(80 - 130)

PHIBRO-TECH, INC.

Client Sample ID: PTI-MW9-053

TOTAL Metals

Lot-Sample #...: E2D180308-004 **Matrix.....:** WATER
Date Sampled...: 04/18/02 09:50 **Date Received..:** 04/18/02 15:00

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2109232						
Cadmium	ND	0.0050	mg/L	SW846 6010B	04/23-04/24/02	EX5NQ1AC
		Analysis Time..: 20:28		MS Run #.....: 2114147	MDL.....: 0.00060	
Chromium	**0.16**	**0.010**	**mg/L**	**SW846 6010B**	**04/23-04/24/02**	**EX5NQ1AD**
		Analysis Time..: 20:28		MS Run #.....: 2114147	MDL.....: 0.0010	
Copper	ND	0.025	mg/L	SW846 6010B	04/23-04/24/02	EX5NQ1AE
		Analysis Time..: 20:28		MS Run #.....: 2114147	MDL.....: 0.0040	

PHIBRO-TECH, INC.

Client Sample ID: PTI-MW9-053

General Chemistry

Lot-Sample #...: E2D180308-004 **Work Order #...:** EX5NQ **Matrix.....:** WATER
Date Sampled...: 04/18/02 09:50 **Date Received..:** 04/18/02 15:00

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH	**7.1**	**0.10**	**No Units**	**SW846 9040B**	**04/18/02**	**2108503**

Analysis Time..: 16:19 MS Run #.....: 2108260 MDL.....:

PHIBRO-TECH, INC.

Client Sample ID: PTI-MW37-053

GC/MS Volatiles

Lot-Sample #...: E2D180308-005 **Work Order #...:** EX5NT1AA **Matrix.....:** WATER
Date Sampled...: 04/18/02 11:55 **Date Received..:** 04/18/02 15:00 **MS Run #.....:** 2112237
Prep Date.....: 04/19/02 **Analysis Date..:** 04/20/02
Prep Batch #...: 2112523 **Analysis Time..:** 04:29
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND	2.5	ug/L	0.75
Bromodichloromethane	ND	2.5	ug/L	0.75
Bromoform	ND	2.5	ug/L	0.75
Bromomethane	ND	5.0	ug/L	2.5
Carbon tetrachloride	ND	2.5	ug/L	0.75
Chlorobenzene	ND	2.5	ug/L	0.75
Dibromochloromethane	ND	2.5	ug/L	1.0
Chloroethane	ND	5.0	ug/L	0.75
Chloroform	**36**	**2.5**	**ug/L**	**0.75**
Chloromethane	ND	5.0	ug/L	0.75
1,2-Dichlorobenzene	ND	2.5	ug/L	0.75
1,3-Dichlorobenzene	ND	2.5	ug/L	0.75
1,4-Dichlorobenzene	ND	2.5	ug/L	0.75
1,1-Dichloroethane	**160**	**2.5**	**ug/L**	**0.50**
1,2-Dichloroethane	**56**	**2.5**	**ug/L**	**1.0**
1,1-Dichloroethene	**48**	**2.5**	**ug/L**	**0.75**
cis-1,2-Dichloroethene	**16**	**2.5**	**ug/L**	**0.75**
trans-1,2-Dichloroethene	ND	2.5	ug/L	0.75
1,2-Dichloropropane	ND	2.5	ug/L	0.75
cis-1,3-Dichloropropene	ND	2.5	ug/L	0.75
trans-1,3-Dichloropropene	ND	2.5	ug/L	1.2
Ethylbenzene	ND	2.5	ug/L	0.50
Methylene chloride	**10**	**2.5**	**ug/L**	**0.75**
1,1,2,2-Tetrachloroethane	ND	2.5	ug/L	1.0
Tetrachloroethene	**6.0**	**2.5**	**ug/L**	**0.75**
Toluene	ND	2.5	ug/L	0.75
1,1,1-Trichloroethane	**20**	**2.5**	**ug/L**	**0.50**
1,1,2-Trichloroethane	ND	2.5	ug/L	0.75
Trichloroethene	**190**	**2.5**	**ug/L**	**0.75**
Trichlorofluoromethane	ND	5.0	ug/L	0.75
Vinyl chloride	ND	5.0	ug/L	0.75
m-Xylene & p-Xylene	ND	2.5	ug/L	1.2
o-Xylene	ND	2.5	ug/L	0.50

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	95	(75 - 130)
1,2-Dichloroethane-d4	126	(65 - 135)
Toluene-d8	94	(80 - 130)

PHIBRO-TECH, INC.

Client Sample ID: PTI-MW37-053

TOTAL Metals

Lot-Sample #...: E2D180308-005 **Matrix.....:** WATER
Date Sampled...: 04/18/02 11:55 **Date Received..:** 04/18/02 15:00

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2109232						
Cadmium	ND	0.0050	mg/L	SW846 6010B	04/23-04/24/02	EX5NT1AC
		Analysis Time..: 20:36		MS Run #.....: 2114147	MDL.....: 0.00060	
Chromium	**0.15**	**0.010**	**mg/L**	**SW846 6010B**	**04/23-04/24/02**	**EX5NT1AD**
		Analysis Time..: 20:36		MS Run #.....: 2114147	MDL.....: 0.0010	
Copper	ND	0.025	mg/L	SW846 6010B	04/23-04/24/02	EX5NT1AE
		Analysis Time..: 20:36		MS Run #.....: 2114147	MDL.....: 0.0040	

PHIBRO-TECH, INC.

Client Sample ID: PTI-MW37-053

General Chemistry

Lot-Sample #...: E2D180308-005 **Work Order #...:** EX5NT **Matrix.....:** WATER
Date Sampled...: 04/18/02 11:55 **Date Received..:** 04/18/02 15:00

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH	**7.1**	**0.10**	**No Units**	**SW846 9040B**	**04/18/02**	**2108503**

Analysis Time..: 16:22 MS Run #.....: 2108260 MDL.....:

PHIBRO-TECH, INC.

Client Sample ID: PTI-MW7-053

GC/MS Volatiles

Lot-Sample #...: E2D180308-006 **Work Order #...:** EX5NV1AA **Matrix.....:** WATER
Date Sampled...: 04/18/02 11:10 **Date Received..:** 04/18/02 15:00 **MS Run #.....:** 2112237
Prep Date.....: 04/19/02 **Analysis Date..:** 04/20/02
Prep Batch #...: 2112523 **Analysis Time..:** 04:59
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND	1.0	ug/L	0.30
Bromodichloromethane	ND	1.0	ug/L	0.30
Bromoform	ND	1.0	ug/L	0.30
Bromomethane	ND	2.0	ug/L	1.0
Carbon tetrachloride	ND	1.0	ug/L	0.30
Chlorobenzene	ND	1.0	ug/L	0.30
Dibromochloromethane	ND	1.0	ug/L	0.40
Chloroethane	ND	2.0	ug/L	0.30
Chloroform	ND	1.0	ug/L	0.30
Chloromethane	ND	2.0	ug/L	0.30
1,2-Dichlorobenzene	ND	1.0	ug/L	0.30
1,3-Dichlorobenzene	ND	1.0	ug/L	0.30
1,4-Dichlorobenzene	ND	1.0	ug/L	0.30
1,1-Dichloroethane	**34**	**1.0**	**ug/L**	**0.20**
1,2-Dichloroethane	**52**	**1.0**	**ug/L**	**0.40**
1,1-Dichloroethene	**4.1**	**1.0**	**ug/L**	**0.30**
cis-1,2-Dichloroethene	**7.9**	**1.0**	**ug/L**	**0.30**
trans-1,2-Dichloroethene	**1.1**	**1.0**	**ug/L**	**0.30**
1,2-Dichloropropane	ND	1.0	ug/L	0.30
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.30
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.50
Ethylbenzene	ND	1.0	ug/L	0.20
Methylene chloride	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
Tetrachloroethene	**1.0**	**1.0**	**ug/L**	**0.30**
Toluene	ND	1.0	ug/L	0.30
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
Trichloroethene	**38**	**1.0**	**ug/L**	**0.30**
Trichlorofluoromethane	ND	2.0	ug/L	0.30
Vinyl chloride	ND	2.0	ug/L	0.30
m-Xylene & p-Xylene	ND	1.0	ug/L	0.50
o-Xylene	ND	1.0	ug/L	0.20

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	94	(75 - 130)
1,2-Dichloroethane-d4	116	(65 - 135)
Toluene-d8	94	(80 - 130)

PHIBRO-TECH, INC.

Client Sample ID: PTI-MW7-053

TOTAL Metals

Lot-Sample #...: E2D180308-006 **Matrix.....:** WATER
Date Sampled...: 04/18/02 11:10 **Date Received..:** 04/18/02 15:00

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2109232						
Cadmium	ND	0.0050	mg/L	SW846 6010B	04/23-04/24/02	EX5NV1AC
		Analysis Time..: 20:44		MS Run #.....: 2114147	MDL.....: 0.00060	
Chromium	ND	0.010	mg/L	SW846 6010B	04/23-04/24/02	EX5NV1AD
		Analysis Time..: 20:44		MS Run #.....: 2114147	MDL.....: 0.0010	
Copper	**0.057**	**0.025**	**mg/L**	**SW846 6010B**	**04/23-04/24/02**	**EX5NV1AE**
		Analysis Time..: 20:44		MS Run #.....: 2114147	MDL.....: 0.0040	

PHIBRO-TECH, INC.

Client Sample ID: PTI-MW7-053

General Chemistry

Lot-Sample #...: E2D180308-006 **Work Order #...:** EX5NV **Matrix.....:** WATER
Date Sampled...: 04/18/02 11:10 **Date Received..:** 04/18/02 15:00

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH	**7.1**	**0.10**	**No Units**	**SW846 9040B**	**04/18/02**	**2108503**

Analysis Time..: 16:25 MS Run #.....: 2108260 MDL.....:

PHIBRO-TECH, INC.

Client Sample ID: PTI-EB03-053

GC/MS Volatiles

Lot-Sample #...: E2D180308-007 **Work Order #...:** EX5NX1AA **Matrix.....:** WATER
Date Sampled...: 04/18/02 12:35 **Date Received..:** 04/18/02 15:00 **MS Run #.....:** 2112237
Prep Date.....: 04/19/02 **Analysis Date..:** 04/20/02
Prep Batch #...: 2112523 **Analysis Time..:** 05:29
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND	1.0	ug/L	0.30
Bromodichloromethane	ND	1.0	ug/L	0.30
Bromoform	ND	1.0	ug/L	0.30
Bromomethane	ND	2.0	ug/L	1.0
Carbon tetrachloride	ND	1.0	ug/L	0.30
Chlorobenzene	ND	1.0	ug/L	0.30
Dibromochloromethane	ND	1.0	ug/L	0.40
Chloroethane	ND	2.0	ug/L	0.30
Chloroform	ND	1.0	ug/L	0.30
Chloromethane	ND	2.0	ug/L	0.30
1,2-Dichlorobenzene	ND	1.0	ug/L	0.30
1,3-Dichlorobenzene	ND	1.0	ug/L	0.30
1,4-Dichlorobenzene	ND	1.0	ug/L	0.30
1,1-Dichloroethane	ND	1.0	ug/L	0.20
1,2-Dichloroethane	ND	1.0	ug/L	0.40
1,1-Dichloroethene	ND	1.0	ug/L	0.30
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.30
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.30
1,2-Dichloropropane	ND	1.0	ug/L	0.30
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.30
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.50
Ethylbenzene	ND	1.0	ug/L	0.20
Methylene chloride	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.30
Toluene	ND	1.0	ug/L	0.30
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
Trichloroethene	ND	1.0	ug/L	0.30
Trichlorofluoromethane	ND	2.0	ug/L	0.30
Vinyl chloride	ND	2.0	ug/L	0.30
m-Xylene & p-Xylene	ND	1.0	ug/L	0.50
o-Xylene	ND	1.0	ug/L	0.20

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	94	(75 - 130)
1,2-Dichloroethane-d4	117	(65 - 135)
Toluene-d8	93	(80 - 130)

PHIBRO-TECH, INC.

Client Sample ID: PTI-EB03-053

TOTAL Metals

Lot-Sample #...: E2D180308-007 **Matrix.....:** WATER
Date Sampled...: 04/18/02 12:35 **Date Received..:** 04/18/02 15:00

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2109232						
Cadmium	ND	0.0050	mg/L	SW846 6010B	04/23-04/24/02	EX5NX1AC
		Analysis Time..: 20:52		MS Run #.....: 2114147	MDL.....: 0.00060	
Chromium	ND	0.010	mg/L	SW846 6010B	04/23-04/24/02	EX5NX1AD
		Analysis Time..: 20:52		MS Run #.....: 2114147	MDL.....: 0.0010	
Copper	ND	0.025	mg/L	SW846 6010B	04/23-04/24/02	EX5NX1AE
		Analysis Time..: 20:52		MS Run #.....: 2114147	MDL.....: 0.0040	

PHIBRO-TECH, INC.

Client Sample ID: PTI-MW11-053

GC/MS Volatiles

Lot-Sample #...: E2D180308-008 **Work Order #...:** EX5N01AA **Matrix.....:** WATER
Date Sampled...: 04/18/02 13:25 **Date Received..:** 04/18/02 15:00 **MS Run #.....:** 2112237
Prep Date.....: 04/19/02 **Analysis Date..:** 04/20/02
Prep Batch #...: 2112523 **Analysis Time..:** 05:59
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND	25	ug/L	7.5
Bromodichloromethane	ND	25	ug/L	7.5
Bromoform	ND	25	ug/L	7.5
Bromomethane	ND	50	ug/L	25
Carbon tetrachloride	ND	25	ug/L	7.5
Chlorobenzene	ND	25	ug/L	7.5
Dibromochloromethane	ND	25	ug/L	10
Chloroethane	ND	50	ug/L	7.5
Chloroform	**44**	**25**	**ug/L**	**7.5**
Chloromethane	ND	50	ug/L	7.5
1,2-Dichlorobenzene	ND	25	ug/L	7.5
1,3-Dichlorobenzene	ND	25	ug/L	7.5
1,4-Dichlorobenzene	ND	25	ug/L	7.5
1,1-Dichloroethane	**360**	**25**	**ug/L**	**5.0**
1,2-Dichloroethane	ND	25	ug/L	10
1,1-Dichloroethene	**89**	**25**	**ug/L**	**7.5**
cis-1,2-Dichloroethene	**66**	**25**	**ug/L**	**7.5**
trans-1,2-Dichloroethene	ND	25	ug/L	7.5
1,2-Dichloropropane	ND	25	ug/L	7.5
cis-1,3-Dichloropropene	ND	25	ug/L	7.5
trans-1,3-Dichloropropene	ND	25	ug/L	12
Ethylbenzene	**300**	**25**	**ug/L**	**5.0**
Methylene chloride	ND	25	ug/L	7.5
1,1,2,2-Tetrachloroethane	ND	25	ug/L	10
Tetrachloroethene	ND	25	ug/L	7.5
Toluene	ND	25	ug/L	7.5
1,1,1-Trichloroethane	**27**	**25**	**ug/L**	**5.0**
1,1,2-Trichloroethane	ND	25	ug/L	7.5
Trichloroethene	**1300**	**25**	**ug/L**	**7.5**
Trichlorofluoromethane	ND	50	ug/L	7.5
Vinyl chloride	ND	50	ug/L	7.5
m-Xylene & p-Xylene	ND	25	ug/L	12
o-Xylene	ND	25	ug/L	5.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	97	(75 - 130)
1,2-Dichloroethane-d4	119	(65 - 135)
Toluene-d8	92	(80 - 130)

PHIBRO-TECH, INC.

Client Sample ID: PTI-MW11-053

TOTAL Metals

Lot-Sample #...: E2D180308-008 **Matrix.....:** WATER
Date Sampled...: 04/18/02 13:25 **Date Received..:** 04/18/02 15:00

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2109232						
Cadmium	ND	0.0050	mg/L	SW846 6010B	04/23-04/24/02	EX5N01AC
		Analysis Time..: 21:00		MS Run #.....: 2114147	MDL.....: 0.00060	
Chromium	ND	0.010	mg/L	SW846 6010B	04/23-04/24/02	EX5N01AD
		Analysis Time..: 21:00		MS Run #.....: 2114147	MDL.....: 0.0010	
Copper	ND	0.025	mg/L	SW846 6010B	04/23-04/24/02	EX5N01AE
		Analysis Time..: 21:00		MS Run #.....: 2114147	MDL.....: 0.0040	

PHIBRO-TECH, INC.

Client Sample ID: PTI-MW11-053

General Chemistry

Lot-Sample #...: E2D180308-008 **Work Order #...:** EX5N0 **Matrix.....:** WATER
Date Sampled...: 04/18/02 13:25 **Date Received..:** 04/18/02 15:00

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH	**6.8**	**0.10**	**No Units**	**SW846 9040B**	**04/18/02**	**2108503**

Analysis Time..: 16:29 MS Run #.....: 2108260 MDL.....:

PHIBRO-TECH, INC.

Client Sample ID: PTI-TB03-053

GC/MS Volatiles

Lot-Sample #...: E2D180308-009 **Work Order #...:** EX5N21AA **Matrix.....:** WATER
Date Sampled...: 04/18/02 12:00 **Date Received..:** 04/18/02 15:00 **MS Run #.....:** 2112264
Prep Date.....: 04/22/02 **Analysis Date..:** 04/22/02
Prep Batch #...: 2112549 **Analysis Time..:** 14:55
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND	1.0	ug/L	0.30
Bromodichloromethane	ND	1.0	ug/L	0.30
Bromoform	ND	1.0	ug/L	0.30
Bromomethane	ND	2.0	ug/L	1.0
Carbon tetrachloride	ND	1.0	ug/L	0.30
Chlorobenzene	ND	1.0	ug/L	0.30
Dibromochloromethane	ND	1.0	ug/L	0.40
Chloroethane	ND	2.0	ug/L	0.30
Chloroform	ND	1.0	ug/L	0.30
Chloromethane	ND	2.0	ug/L	0.30
1,2-Dichlorobenzene	ND	1.0	ug/L	0.30
1,3-Dichlorobenzene	ND	1.0	ug/L	0.30
1,4-Dichlorobenzene	ND	1.0	ug/L	0.30
1,1-Dichloroethane	ND	1.0	ug/L	0.20
1,2-Dichloroethane	ND	1.0	ug/L	0.40
1,1-Dichloroethene	ND	1.0	ug/L	0.30
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.30
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.30
1,2-Dichloropropane	ND	1.0	ug/L	0.30
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.30
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.50
Ethylbenzene	ND	1.0	ug/L	0.20
Methylene chloride	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.30
Toluene	ND	1.0	ug/L	0.30
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
Trichloroethene	ND	1.0	ug/L	0.30
Trichlorofluoromethane	ND	2.0	ug/L	0.30
Vinyl chloride	ND	2.0	ug/L	0.30
m-Xylene & p-Xylene	ND	1.0	ug/L	0.50
o-Xylene	ND	1.0	ug/L	0.20

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	98	(75 - 130)
1,2-Dichloroethane-d4	87	(65 - 135)
Toluene-d8	95	(80 - 130)

PHIBRO-TECH, INC.

Client Sample ID: PTI-DI-053

GC/MS Volatiles

Lot-Sample #...: E2D180308-010 **Work Order #...:** EX5N81AA **Matrix.....:** WATER
Date Sampled...: 04/18/02 12:00 **Date Received..:** 04/18/02 15:00 **MS Run #.....:** 2112264
Prep Date.....: 04/22/02 **Analysis Date..:** 04/22/02
Prep Batch #...: 2112549 **Analysis Time..:** 15:25
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND	1.0	ug/L	0.30
Bromodichloromethane	ND	1.0	ug/L	0.30
Bromoform	ND	1.0	ug/L	0.30
Bromomethane	ND	2.0	ug/L	1.0
Carbon tetrachloride	ND	1.0	ug/L	0.30
Chlorobenzene	ND	1.0	ug/L	0.30
Dibromochloromethane	ND	1.0	ug/L	0.40
Chloroethane	ND	2.0	ug/L	0.30
Chloroform	ND	1.0	ug/L	0.30
Chloromethane	ND	2.0	ug/L	0.30
1,2-Dichlorobenzene	ND	1.0	ug/L	0.30
1,3-Dichlorobenzene	ND	1.0	ug/L	0.30
1,4-Dichlorobenzene	ND	1.0	ug/L	0.30
1,1-Dichloroethane	ND	1.0	ug/L	0.20
1,2-Dichloroethane	ND	1.0	ug/L	0.40
1,1-Dichloroethene	ND	1.0	ug/L	0.30
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.30
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.30
1,2-Dichloropropane	ND	1.0	ug/L	0.30
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.30
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.50
Ethylbenzene	ND	1.0	ug/L	0.20
Methylene chloride	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.30
Toluene	ND	1.0	ug/L	0.30
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
Trichloroethene	ND	1.0	ug/L	0.30
Trichlorofluoromethane	ND	2.0	ug/L	0.30
Vinyl chloride	ND	2.0	ug/L	0.30
m-Xylene & p-Xylene	ND	1.0	ug/L	0.50
o-Xylene	ND	1.0	ug/L	0.20

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	101	(75 - 130)
1,2-Dichloroethane-d4	97	(65 - 135)
Toluene-d8	94	(80 - 130)

QC DATA ASSOCIATION SUMMARY

E2D180308

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WATER	SW846 9040B		2108503	2108260
	WATER	SW846 8260B		2112523	2112237
	WATER	SW846 6010B		2109232	2114147
002	WATER	SW846 9040B		2108503	2108260
	WATER	SW846 8260B		2112523	2112237
	WATER	SW846 6010B		2109232	2114147
003	WATER	SW846 9040B		2108503	2108260
	WATER	SW846 8260B		2112523	2112237
	WATER	SW846 6010B		2109232	2114147
004	WATER	SW846 9040B		2108503	2108260
	WATER	SW846 8260B		2112523	2112237
	WATER	SW846 6010B		2109232	2114147
005	WATER	SW846 9040B		2108503	2108260
	WATER	SW846 8260B		2112523	2112237
	WATER	SW846 6010B		2109232	2114147
006	WATER	SW846 9040B		2108503	2108260
	WATER	SW846 8260B		2112523	2112237
	WATER	SW846 6010B		2109232	2114147
007	WATER	SW846 8260B		2112523	2112237
	WATER	SW846 6010B		2109232	2114147
008	WATER	SW846 9040B		2108503	2108260
	WATER	SW846 8260B		2112523	2112237
	WATER	SW846 6010B		2109232	2114147
009	WATER	SW846 8260B		2112549	2112264
010	WATER	SW846 8260B		2112549	2112264

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E2D180308 **Work Order #...:** EX9J01AA **Matrix.....:** WATER
MB Lot-Sample #: E2D220000-523
Prep Date.....: 04/19/02 **Analysis Time..:** 22:59
Analysis Date..: 04/19/02 **Prep Batch #...:** 2112523

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Benzene	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	2.0	ug/L	SW846 8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Methylene chloride	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	2.0	ug/L	SW846 8260B
Vinyl chloride	ND	2.0	ug/L	SW846 8260B
m-Xylene & p-Xylene	ND	1.0	ug/L	SW846 8260B
o-Xylene	ND	1.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	90	(75 - 130)
1,2-Dichloroethane-d4	110	(65 - 135)
Toluene-d8	93	(80 - 130)

NOTE(S):

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

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E2D180308 **Work Order #...:** EX9MP1AA **Matrix.....:** WATER
MB Lot-Sample #: E2D220000-549
Prep Date.....: 04/22/02 **Analysis Time..:** 10:18
Analysis Date..: 04/22/02 **Prep Batch #...:** 2112549

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Benzene	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	2.0	ug/L	SW846 8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Methylene chloride	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	2.0	ug/L	SW846 8260B
Vinyl chloride	ND	2.0	ug/L	SW846 8260B
m-Xylene & p-Xylene	ND	1.0	ug/L	SW846 8260B
o-Xylene	ND	1.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	94	(75 - 130)
1,2-Dichloroethane-d4	82	(65 - 135)
Toluene-d8	92	(80 - 130)

NOTE(S):

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

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: E2D180308 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: E2D190000-232 **Prep Batch #...:** 2109232						
Cadmium	ND	0.0050	mg/L	SW846 6010B	04/23-04/24/02	EX6HX1AA
		Analysis Time..: 18:39				
Chromium	ND	0.010	mg/L	SW846 6010B	04/23-04/24/02	EX6HX1AC
		Analysis Time..: 18:39				
Copper	ND	0.025	mg/L	SW846 6010B	04/23-04/24/02	EX6HX1AD
		Analysis Time..: 18:39				

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 #...: E2D180308 **Work Order #...:** EX9J01AC **Matrix.....:** WATER
LCS Lot-Sample#: E2D220000-523
Prep Date.....: 04/19/02 **Analysis Date..:** 04/19/02
Prep Batch #...: 2112523 **Analysis Time..:** 22:29

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Benzene	**94**	**(75 - 120)**	**SW846 8260B**
Chlorobenzene	**95**	**(75 - 120)**	**SW846 8260B**
1,1-Dichloroethene	**107**	**(70 - 140)**	**SW846 8260B**
Toluene	**94**	**(75 - 125)**	**SW846 8260B**
Trichloroethene	**106**	**(70 - 130)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	97	(75 - 130)
1,2-Dichloroethane-d4	108	(65 - 135)
Toluene-d8	94	(80 - 130)

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 #...: E2D180308 **Work Order #...:** EX9J01AC **Matrix.....:** WATER
LCS Lot-Sample#: E2D220000-523
Prep Date.....: 04/19/02 **Analysis Date..:** 04/19/02
Prep Batch #...: 2112523 **Analysis Time..:** 22:29

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Benzene	**10.0**	**9.45**	**ug/L**	**94**	**SW846 8260B**
Chlorobenzene	**10.0**	**9.52**	**ug/L**	**95**	**SW846 8260B**
1,1-Dichloroethene	**10.0**	**10.7**	**ug/L**	**107**	**SW846 8260B**
Toluene	**10.0**	**9.40**	**ug/L**	**94**	**SW846 8260B**
Trichloroethene	**10.0**	**10.6**	**ug/L**	**106**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	97	(75 - 130)
1,2-Dichloroethane-d4	108	(65 - 135)
Toluene-d8	94	(80 - 130)

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 #...: E2D180308 **Work Order #...:** EX9MP1AC **Matrix.....:** WATER
LCS Lot-Sample#: E2D220000-549
Prep Date.....: 04/22/02 **Analysis Date..:** 04/22/02
Prep Batch #...: 2112549 **Analysis Time..:** 09:46

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Benzene	**98**	**(75 - 120)**	**SW846 8260B**
Chlorobenzene	**95**	**(75 - 120)**	**SW846 8260B**
1,1-Dichloroethene	**101**	**(70 - 140)**	**SW846 8260B**
Toluene	**96**	**(75 - 125)**	**SW846 8260B**
Trichloroethene	**107**	**(70 - 130)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	102	(75 - 130)
1,2-Dichloroethane-d4	82	(65 - 135)
Toluene-d8	98	(80 - 130)

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 #...: E2D180308 **Work Order #...:** EX9MP1AC **Matrix.....:** WATER
LCS Lot-Sample#: E2D220000-549
Prep Date.....: 04/22/02 **Analysis Date..:** 04/22/02
Prep Batch #...: 2112549 **Analysis Time..:** 09:46

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Benzene	**10.0**	**9.83**	**ug/L**	**98**	**SW846 8260B**
Chlorobenzene	**10.0**	**9.54**	**ug/L**	**95**	**SW846 8260B**
1,1-Dichloroethene	**10.0**	**10.1**	**ug/L**	**101**	**SW846 8260B**
Toluene	**10.0**	**9.63**	**ug/L**	**96**	**SW846 8260B**
Trichloroethene	**10.0**	**10.7**	**ug/L**	**107**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	102	(75 - 130)
1,2-Dichloroethane-d4	82	(65 - 135)
Toluene-d8	98	(80 - 130)

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

TOTAL Metals

Client Lot #...: E2D180308 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: E2D190000-232 **Prep Batch #...:** 2109232					
Cadmium	100	(80 - 120)	SW846 6010B	04/23-04/24/02	EX6HX1AE
		Analysis Time..: 18:47			
Chromium	105	(85 - 120)	SW846 6010B	04/23-04/24/02	EX6HX1AF
		Analysis Time..: 18:47			
Copper	105	(80 - 120)	SW846 6010B	04/23-04/24/02	EX6HX1AG
		Analysis Time..: 18:47			

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E2D180308 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: E2D190000-232 **Prep Batch #...:** 2109232							
Cadmium	0.0500	0.0500	mg/L	100	SW846 6010B	04/23-04/24/02	EX6HX1AE
			Analysis Time..: 18:47				
Chromium	0.200	0.209	mg/L	105	SW846 6010B	04/23-04/24/02	EX6HX1AF
			Analysis Time..: 18:47				
Copper	0.250	0.262	mg/L	105	SW846 6010B	04/23-04/24/02	EX6HX1AG
			Analysis Time..: 18:47				

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: E2D180308 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH		Work Order #: EX5P61AA LCS Lot-Sample#: E2D180000-503			
	100	(90 - 110)	SW846 9040B	04/18/02	2108503
		Analysis Time..: 16:04			

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: E2D180308 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH			Work Order #: EX5P61AA		LCS Lot-Sample#: E2D180000-503		
	9.18	9.18	No Units	100	SW846 9040B	04/18/02	2108503

Analysis Time..: 16:04

NOTE(S):

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E2D180308 **Work Order #...:** EX53V1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: E2D180351-003 EX53V1AD-MSD
Date Sampled...: 04/18/02 09:40 **Date Received..:** 04/18/02 19:00 **MS Run #.....:** 2112237
Prep Date.....: 04/19/02 **Analysis Date..:** 04/20/02
Prep Batch #...: 2112523 **Analysis Time..:** 06:29

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	**94**	**(75 - 120)**			**SW846 8260B**
	95	**(75 - 120)**	**1.2**	**(0-25)**	**SW846 8260B**
Chlorobenzene	**94**	**(75 - 120)**			**SW846 8260B**
	96	**(75 - 120)**	**1.5**	**(0-25)**	**SW846 8260B**
1,1-Dichloroethene	**101**	**(70 - 140)**			**SW846 8260B**
	104	**(70 - 140)**	**2.9**	**(0-25)**	**SW846 8260B**
Toluene	**90**	**(75 - 125)**			**SW846 8260B**
	93	**(75 - 125)**	**3.7**	**(0-25)**	**SW846 8260B**
Trichloroethene	**106**	**(70 - 130)**			**SW846 8260B**
	108	**(70 - 130)**	**1.8**	**(0-25)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	98	(75 - 130)
	97	(75 - 130)
1,2-Dichloroethane-d4	124	(65 - 135)
	122	(65 - 135)
Toluene-d8	92	(80 - 130)
	98	(80 - 130)

NOTE(S):

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

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E2D180308 **Work Order #...:** EX53V1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: E2D180351-003 EX53V1AD-MSD
Date Sampled...: 04/18/02 09:40 **Date Received..:** 04/18/02 19:00 **MS Run #.....:** 2112237
Prep Date.....: 04/19/02 **Analysis Date..:** 04/20/02
Prep Batch #...: 2112523 **Analysis Time..:** 06:29

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Benzene	**ND**	**10.0**	**9.36**	**ug/L**	**94**		**SW846 8260B**
	ND	**10.0**	**9.47**	**ug/L**	**95**	**1.2**	**SW846 8260B**
Chlorobenzene	**ND**	**10.0**	**9.42**	**ug/L**	**94**		**SW846 8260B**
	ND	**10.0**	**9.56**	**ug/L**	**96**	**1.5**	**SW846 8260B**
1,1-Dichloroethene	**ND**	**10.0**	**10.1**	**ug/L**	**101**		**SW846 8260B**
	ND	**10.0**	**10.4**	**ug/L**	**104**	**2.9**	**SW846 8260B**
Toluene	**ND**	**10.0**	**9.00**	**ug/L**	**90**		**SW846 8260B**
	ND	**10.0**	**9.34**	**ug/L**	**93**	**3.7**	**SW846 8260B**
Trichloroethene	**ND**	**10.0**	**10.6**	**ug/L**	**106**		**SW846 8260B**
	ND	**10.0**	**10.8**	**ug/L**	**108**	**1.8**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	98	(75 - 130)
	97	(75 - 130)
1,2-Dichloroethane-d4	124	(65 - 135)
	122	(65 - 135)
Toluene-d8	92	(80 - 130)
	98	(80 - 130)

NOTE(S):

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

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E2D180308 **Work Order #...:** EX5N81AC-MS **Matrix.....:** WATER
MS Lot-Sample #: E2D180308-010 EX5N81AD-MSD
Date Sampled...: 04/18/02 12:00 **Date Received..:** 04/18/02 15:00 **MS Run #.....:** 2112264
Prep Date.....: 04/22/02 **Analysis Date..:** 04/22/02
Prep Batch #...: 2112549 **Analysis Time..:** 17:57

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	**98**	**(75 - 120)**			**SW846 8260B**
	97	**(75 - 120)**	**1.0**	**(0-25)**	**SW846 8260B**
Chlorobenzene	**96**	**(75 - 120)**			**SW846 8260B**
	94	**(75 - 120)**	**1.9**	**(0-25)**	**SW846 8260B**
1,1-Dichloroethene	**99**	**(70 - 140)**			**SW846 8260B**
	101	**(70 - 140)**	**2.2**	**(0-25)**	**SW846 8260B**
Toluene	**96**	**(75 - 125)**			**SW846 8260B**
	95	**(75 - 125)**	**0.73**	**(0-25)**	**SW846 8260B**
Trichloroethene	**114**	**(70 - 130)**			**SW846 8260B**
	110	**(70 - 130)**	**3.4**	**(0-25)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	100	(75 - 130)
	103	(75 - 130)
1,2-Dichloroethane-d4	100	(65 - 135)
	97	(65 - 135)
Toluene-d8	98	(80 - 130)
	97	(80 - 130)

NOTE(S):

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

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E2D180308 **Work Order #...:** EX5N81AC-MS **Matrix.....:** WATER
MS Lot-Sample #: E2D180308-010 EX5N81AD-MSD
Date Sampled...: 04/18/02 12:00 **Date Received..:** 04/18/02 15:00 **MS Run #.....:** 2112264
Prep Date.....: 04/22/02 **Analysis Date..:** 04/22/02
Prep Batch #...: 2112549 **Analysis Time..:** 17:57

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Benzene	**ND**	**10.0**	**9.84**	**ug/L**	**98**		**SW846 8260B**
	ND	**10.0**	**9.74**	**ug/L**	**97**	**1.0**	**SW846 8260B**
Chlorobenzene	**ND**	**10.0**	**9.63**	**ug/L**	**96**		**SW846 8260B**
	ND	**10.0**	**9.45**	**ug/L**	**94**	**1.9**	**SW846 8260B**
1,1-Dichloroethene	**ND**	**10.0**	**9.87**	**ug/L**	**99**		**SW846 8260B**
	ND	**10.0**	**10.1**	**ug/L**	**101**	**2.2**	**SW846 8260B**
Toluene	**ND**	**10.0**	**9.59**	**ug/L**	**96**		**SW846 8260B**
	ND	**10.0**	**9.52**	**ug/L**	**95**	**0.73**	**SW846 8260B**
Trichloroethene	**ND**	**10.0**	**11.4**	**ug/L**	**114**		**SW846 8260B**
	ND	**10.0**	**11.0**	**ug/L**	**110**	**3.4**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	100	(75 - 130)
	103	(75 - 130)
1,2-Dichloroethane-d4	100	(65 - 135)
	97	(65 - 135)
Toluene-d8	98	(80 - 130)
	97	(80 - 130)

NOTE(S):

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

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E2D180308 **Matrix.....:** WATER
Date Sampled...: 04/18/02 13:25 **Date Received..:** 04/18/02 15:00

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: E2D180308-008 **Prep Batch #...:** 2109232							
Cadmium	98	(80 - 120)			SW846 6010B	04/23-04/24/02	EX5N01AH
	95	(80 - 120)	2.5	(0-20)	SW846 6010B	04/23-04/24/02	EX5N01AJ
		Analysis Time..: 21:28					
		MS Run #.....: 2114147					
Chromium	101	(85 - 120)			SW846 6010B	04/23-04/24/02	EX5N01AK
	99	(85 - 120)	1.8	(0-20)	SW846 6010B	04/23-04/24/02	EX5N01AL
		Analysis Time..: 21:28					
		MS Run #.....: 2114147					
Copper	107	(80 - 120)			SW846 6010B	04/23-04/24/02	EX5N01AM
	106	(80 - 120)	1.2	(0-20)	SW846 6010B	04/23-04/24/02	EX5N01AN
		Analysis Time..: 21:28					
		MS Run #.....: 2114147					

NOTE(S):

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

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E2D180308 **Matrix.....:** WATER
Date Sampled...: 04/18/02 13:25 **Date Received..:** 04/18/02 15:00

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: E2D180308-008 **Prep Batch #...:** 2109232									
Cadmium									
	ND	0.0500	0.0488	mg/L	98		SW846 6010B	04/23-04/24/02	EX5N01AH
	ND	0.0500	0.0476	mg/L	95	2.5	SW846 6010B	04/23-04/24/02	EX5N01AJ
			Analysis Time..: 21:28						
			MS Run #.....: 2114147						
Chromium									
	ND	0.200	0.204	mg/L	101		SW846 6010B	04/23-04/24/02	EX5N01AK
	ND	0.200	0.200	mg/L	99	1.8	SW846 6010B	04/23-04/24/02	EX5N01AL
			Analysis Time..: 21:28						
			MS Run #.....: 2114147						
Copper									
	ND	0.250	0.275	mg/L	107		SW846 6010B	04/23-04/24/02	EX5N01AM
	ND	0.250	0.272	mg/L	106	1.2	SW846 6010B	04/23-04/24/02	EX5N01AN
			Analysis Time..: 21:28						
			MS Run #.....: 2114147						

NOTE(S):

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

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: E2D180308 **Work Order #...:** EX5NJ-SMP EX5NJ-DUP **Matrix.....:** WATER

Date Sampled...: 04/18/02 08:05 **Date Received..:** 04/18/02 15:00

% Moisture.....: **Dilution Factor:** **Initial Wgt/Vol:**

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH						SD Lot-Sample #: E2D180308-001		
	6.8	6.8	No Units	0.089	(0-0.0)	SW846 9040B	04/18/02	2108503

Analysis Time..: 16:07 MS Run Number..: 2108260