UNDERGROUND
ENGINEERING &
ENVIRONMENTAL
SOLUTIONS

Haley & Aldrich, Inc.
9040 Friars Road, Suite 220
San Diego, CA 92108-5860
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Fax: 619.280.9415
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HALEY & ALDRICH

Letter of Transmittal

Date	30 July 2001
File Number	27285-005
From	Beth Breitenbach
To	The Boeing Company 3855 Lakewood Blvd., M/C D036-009 Long Beach, CA 90846
Attention	Marcia Taleff
Copy to	
Subject	C-6 Laboratory Reports for Stockpile SP-11

Copies	Date	Description
1	30 July 2001	Laboratory Reports E1E310275 and E1F070343

Transmitted via ☐ First class mail ☐ Overnight express ☐ Hand delivery ☐ Other

Remarks

Attached please find the laboratory reports for the excavated soil from Stockpile SP-11.

If you have any questions, please call me at (619) 285-7109.

Sincerely,

Beth Breitenbach

Beth Breitenbach
Geologist

SP-11

SEVERN TRENT SERVICES

STL Los Angeles
1721 South Grand Avenue
Santa Ana, CA 92705-4808

Tel: 714 258 8610
Fax: 714 258 0921
www.stl-inc.com

June 7, 2001

STL LOT NUMBER: **E1E310275**
NELAC Certification Number: 01118CA
PO/CONTRACT: 05160-SEV002-00-S56

Bob Logan
Kennedy/Jenks Consultants
2151 Michelson Drive
Suite 10
Irvine, CA 92612

Dear Mr. Logan,

This report contains the analytical results for the five samples received under chain of custody by Severn Trent Laboratories (STL Los Angeles) on May 31, 2001. These samples are associated with your BRC former C-6 Torrance Harbor Gateway project.

All applicable quality control procedures met method-specified acceptance criteria. See Project Receipt Checklist for container temperature and conditions. Temperature reading between 2 to 6 degrees Celsius is considered within acceptable criteria. Any matrix related anomaly is footnoted within the report. The PAH by 8310 analysis was performed by Del Mar Analytical. See attached report for any related anomaly.

STL Los Angeles certifies that the tests performed in our facility meet all the requirements of NELAC. This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions, please feel free to call me at 714-258-8610 extension 309.

Sincerely,

Diane Suzuki
Project Manager

cc: Project File

This report contains 000121 pages.

STL Los Angeles is a part of Severn Trent Laboratories, Inc.

ACCREDITED IN ACCORDANCE WITH nelac

BOE-C6-0122053

Chain of Custody Record

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

STL-4124 (0700)

Client	Project Manager	Date	Chain of Custody Number
Kennedy / Jenks	Bob Logan	5-31-01	053276
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 1 of 1**
2151 Michelson Dr. Suite 100	949-261-1577		

City	State	Zip Code	Site Contact	Lab Contact
Irvine	CA.	92612	Shane Schimmelpfennig	

Project Name and Location (State)	Carrier/Waybill Number
Boeing Parcel C	

Contract/Purchase Order/Quote No.: 004034.00

Analysis (Attach list if more space is needed): 8015m/TPH; 8260/VOCs; 8270/SVOCs; 8080/PCBs; 8330/PAHs; 6010/7000 metals

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed	Soil		Containers & Preservatives: Unpres	H2SO4	HNOS	HCl	NaOH	ZnAc/NaOH		8015m/TPH	8260/VOCs	8270/SVOCs	8080/PCBs	8330/PAHs	6010/7000 metals						Special Instructions/ Conditions of Receipt
Build-2 M-10 053101-8	5-31-01	1300				X		X																		5/ per Rick Jackson
Build-2-N-10 053101-9	↓	1305				X		X																		
Build-2 N-10 053101-10		1310				X		X																		
Build-2-N-10 053101-11	↓	1315				X		X							↓	↓	↓	↓	↓	↓						
Trip Blank				X							X					X										

000002

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: ☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify):

	Date	Time		Date	Time
1. Relinquished By	5-31-01	1610	1. Received By	5/31/01	16.10.
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

BOE-C6-0122054

STL – LOS ANGELES
PROJECT RECEIPT CHECKLIST

Date: 5/31/01

Quantims Lot #: E1E310275
Quote #: 38629
Client Name: Kennedy Jenks
Project: Boeing Parcel C
Received by: Pacolin
Date/Time Received: 5/31/01 16:10

Delivered by : [X] Client [ ] Airborne [ ] Fed Ex [ ] DHL [ ] Ultra-Ex [ ] Rey B.
[ ] UPS [ ] DES [ ] Other _____

Initial / Date

Custody Seal Status: [ ] Intact [ ] Broken [X] None ..... AR 5/31/01
Custody Seal #(s): _____ [X] No Seal # .....
Sample Container(s): [ ] STL-LA [X] Client [ ] N/A .....
Temperature(s) (COOLER/BLANK) in °C: 6°C (CORRECTED TEMP) .....
Thermometer Used : [X] IR (Infra-red) [ ] Digital (Probe) .....
Samples: [X] Intact [ ] Broken [ ] Other _____ .....
Anomalies: [X] No [ ] Yes (See Clouseau) .....
Labeled by ..... AR
Labeling checked by .....

Turn Around Time: [X] RUSH–24HR [ ] RUSH–48HR [ ] RUSH–72HR [ ] NORMAL .....
Short-Hold Notification: [ ] Ph [ ] Wet Chem [ ] Metals (Filter/Pres) [ ] Encore [X] N/A ... ✓
Outside Analysis(es) (Test/Lab/Date Sent Out) : 8310 to Del Mar Coltron / by Fed Ex

********** LEAVE NO BLANK SPACES ; USE N/A **********

Fraction	1 → 4	5									PH
VOAh /*		1									N/A
B8lem	1										—

h:HCl n:Sodium Hydroxide zn:Zinc Acetate/Sodium Hydroxide s: H2SO4 n:HNO3 n/F:HNO3-Field filtered n/F:HNO3-Lab filtered
CGJ:Clear Glass Jar CGB:Clear Glass Bottle AGJ:Amber Glass Jar AGB:Amber Glass Bottle PB: Poly Bottle E:Encore Sampler V:VOA

* Number of VOA's w/ Headspace present

LOGGED BY/DATE: Pacolin 5/31/01 REVIEWED BY/DATE: T Swart 5-31-01

000003

BOE-C6-0122055

EXECUTIVE SUMMARY - Detection Highlights

E1E310275

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
BUILD_2_M_10_053101_8 05/31/01 13:00	**001**			
C10-C11	650	500	mg/kg	SW846 8015B
C12-C13	2400	500	mg/kg	SW846 8015B
C14-C15	3600	500	mg/kg	SW846 8015B
C16-C17	2800	500	mg/kg	SW846 8015B
C18-C19	2200	500	mg/kg	SW846 8015B
C20-C23	2100	500	mg/kg	SW846 8015B
C24-C27	890	500	mg/kg	SW846 8015B
C28-C31	330 J	500	mg/kg	SW846 8015B
Total Carbon Chain Range	15000	500	mg/kg	SW846 8015B
C6-C8	0.28 J	1.0	mg/kg	SW846 8015B
Mercury	0.047 B	0.10	mg/kg	SW846 7471A
Aluminum	24000	20.0	mg/kg	SW846 6010B
Arsenic	4.6	1.0	mg/kg	SW846 6010B
Barium	176	2.0	mg/kg	SW846 6010B
Beryllium	0.72	0.50	mg/kg	SW846 6010B
Cadmium	0.93	0.50	mg/kg	SW846 6010B
Cobalt	13.5	5.0	mg/kg	SW846 6010B
Chromium	27.9	1.0	mg/kg	SW846 6010B
Copper	41.9	2.5	mg/kg	SW846 6010B
Nickel	20.4	4.0	mg/kg	SW846 6010B
Lead	6.0	0.50	mg/kg	SW846 6010B
Selenium	0.82	0.50	mg/kg	SW846 6010B
Vanadium	64.7	5.0	mg/kg	SW846 6010B
Zinc	83.4	2.0	mg/kg	SW846 6010B
Chrysene	10000 J	33000	ug/kg	SW846 8270C
Fluorene	11000 J	33000	ug/kg	SW846 8270C
2-Methylnaphthalene	190000	33000	ug/kg	SW846 8270C
Naphthalene	39000	33000	ug/kg	SW846 8270C
Phenanthrene	58000	33000	ug/kg	SW846 8270C
Pyrene	33000	33000	ug/kg	SW846 8270C
Trichloroethene	2900	250	ug/kg	SW846 8260B
Ethylbenzene	360	250	ug/kg	SW846 8260B
Xylenes (total)	3700	250	ug/kg	SW846 8260B
p-Isopropyltoluene	320	250	ug/kg	SW846 8260B
n-Propylbenzene	820	250	ug/kg	SW846 8260B
1,3,5-Trimethylbenzene	6200	250	ug/kg	SW846 8260B
1,2,4-Trimethylbenzene	12000	250	ug/kg	SW846 8260B
n-Butylbenzene	4100	250	ug/kg	SW846 8260B

(Continued on next page)

KENNEDY/JENKS CONSULTANTS

Client Sample ID: BUILD_2_M_10_053101_8

GC Semivolatiles

Lot-Sample #...:	E1E310275-001	**Work Order #...:**	ED74D1AC	**Matrix.....:**	SOLID
Date Sampled...:	05/31/01 13:00	**Date Received..:**	05/31/01 16:10	**MS Run #.....:**	1152168
Prep Date.....:	06/01/01	**Analysis Date..:**	06/04/01		
Prep Batch #...:	1152340	**Analysis Time..:**	10:35		
Dilution Factor:	50				
Analyst ID.....:	356074	**Instrument ID..:**	G02		
		Method.....:	SW846 8015B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C8-C9	ND	500	mg/kg	250
C10-C11	**650**	**500**	**mg/kg**	**250**
C12-C13	**2400**	**500**	**mg/kg**	**250**
C14-C15	**3600**	**500**	**mg/kg**	**250**
C16-C17	**2800**	**500**	**mg/kg**	**250**
C18-C19	**2200**	**500**	**mg/kg**	**250**
C20-C23	**2100**	**500**	**mg/kg**	**250**
C24-C27	**890**	**500**	**mg/kg**	**250**
C28-C31	**330 J**	**500**	**mg/kg**	**250**
C32-C35	ND	500	mg/kg	250
C36-C39	ND	500	mg/kg	250
C40+	ND	500	mg/kg	250
Total Carbon Chain Range	**15000**	**500**	**mg/kg**	**250**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	0.0 SRD,*	(60 - 130)

NOTE(S):

SRD The surrogate recovery was not calculated because the extract was diluted beyond the ability to quantitate a recovery.

* Surrogate recovery is outside stated control limits.

J Estimated result. Result is less than RL.

KENNEDY/JENKS CONSULTANTS

Client Sample ID: BUILD_2_M_10_053101_8

GC Volatiles

Lot-Sample #...:	E1E310275-001	**Work Order #...:**	ED74D1AD	**Matrix.....:**	SOLID
Date Sampled...:	05/31/01 13:00	**Date Received..:**	05/31/01 16:10	**MS Run #.....:**	1152086
Prep Date.....:	06/01/01	**Analysis Date..:**	06/01/01		
Prep Batch #...:	1152215	**Analysis Time..:**	00:36		
Dilution Factor:	1				
Analyst ID.....:	001464	**Instrument ID..:**	G16		
		Method.....:	SW846 8015B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C6-C8	**0.28 J**	**1.0**	**mg/kg**	**0.10**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	82	(60 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

Unknown hydrocarbon pattern.

KENNEDY/JENKS CONSULTANTS

Client Sample ID: BUILD_2_M_10_053101_8

GC Semivolatiles

Lot-Sample #...: E1E310275-001 **Work Order #...:** ED74D2A2 **Matrix.....:** SOLID
Date Sampled...: 05/31/01 13:00 **Date Received..:** 05/31/01 16:10 **MS Run #.....:** 1155226
Prep Date.....: 06/04/01 **Analysis Date..:** 06/04/01
Prep Batch #...: 1155394 **Analysis Time..:** 22:56
Dilution Factor: 1
Analyst ID.....: 018568 **Instrument ID..:** G8B
Method.....: SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	33	ug/kg	10
Aroclor 1221	ND	33	ug/kg	10
Aroclor 1232	ND	33	ug/kg	10
Aroclor 1242	ND	33	ug/kg	10
Aroclor 1248	ND	33	ug/kg	10
Aroclor 1254	ND	33	ug/kg	10
Aroclor 1260	ND	33	ug/kg	10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	90	(60 - 140)
Tetrachloro-m-xylene	66	(60 - 140)

KENNEDY/JENKS CONSULTANTS

Client Sample ID: BUILD_2_M_10_053101_8

GC/MS Volatiles

Lot-Sample #...:	E1E310275-001	**Work Order #...:**	ED74D1AA	**Matrix.....:**	SOLID
Date Sampled...:	05/31/01 13:00	**Date Received..:**	05/31/01 16:10	**MS Run #.....:**	1155220
Prep Date.....:	06/01/01	**Analysis Date..:**	06/01/01		
Prep Batch #...:	1155387	**Analysis Time..:**	16:26		
Dilution Factor:	1				
Analyst ID.....:	999998	**Instrument ID..:**	MSG		
		Method.....:	SW846 8260B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	500	ug/kg	170
Chloromethane	ND	500	ug/kg	200
Vinyl chloride	ND	500	ug/kg	150
Bromomethane	ND	500	ug/kg	250
Chloroethane	ND	500	ug/kg	250
Trichlorofluoromethane	ND	500	ug/kg	70
Acrolein	ND	5000	ug/kg	2000
1,1-Dichloroethene	ND	250	ug/kg	120
Iodomethane	ND	500	ug/kg	250
Acetone	ND	1200	ug/kg	400
Carbon disulfide	ND	250	ug/kg	100
Methylene chloride	ND	250	ug/kg	50
trans-1,2-Dichloroethene	ND	250	ug/kg	120
Acrylonitrile	ND	2500	ug/kg	2000
Methyl tert-butyl ether	ND	250	ug/kg	100
1,1-Dichloroethane	ND	250	ug/kg	100
Vinyl acetate	ND	500	ug/kg	250
2,2-Dichloropropane	ND	250	ug/kg	60
cis-1,2-Dichloroethene	ND	250	ug/kg	100
2-Butanone	ND	1200	ug/kg	500
Bromochloromethane	ND	250	ug/kg	75
Chloroform	ND	250	ug/kg	70
Tetrahydrofuran	ND	1000	ug/kg	500
1,1,1-Trichloroethane	ND	250	ug/kg	70
1,1-Dichloropropene	ND	250	ug/kg	100
Carbon tetrachloride	ND	250	ug/kg	60
Benzene	ND	250	ug/kg	100
1,2-Dichloroethane	ND	250	ug/kg	70
Trichloroethene	**2900**	**250**	**ug/kg**	**60**
1,2-Dichloropropane	ND	250	ug/kg	100
Bromodichloromethane	ND	250	ug/kg	100
2-Chloroethyl vinyl ether	ND	500	ug/kg	250
cis-1,3-Dichloropropene	ND	250	ug/kg	100
4-Methyl-2-pentanone	ND	1200	ug/kg	400
Toluene	ND	250	ug/kg	60
trans-1,3-Dichloropropene	ND	250	ug/kg	70
1,1,2-Trichloroethane	ND	250	ug/kg	100

(Continued on next page)

KENNEDY/JENKS CONSULTANTS

Client Sample ID: BUILD_2_M_10_053101_8

GC/MS Volatiles

Lot-Sample #...: E1E310275-001 **Work Order #...:** ED74D1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Tetrachloroethene	ND	250	ug/kg	80
2-Hexanone	ND	1200	ug/kg	300
Dibromochloromethane	ND	250	ug/kg	100
1,2-Dibromoethane	ND	250	ug/kg	70
Chlorobenzene	ND	250	ug/kg	100
Ethylbenzene	**360**	**250**	**ug/kg**	**70**
Xylenes (total)	**3700**	**250**	**ug/kg**	**170**
Styrene	ND	500	ug/kg	100
Bromoform	ND	250	ug/kg	100
Isopropylbenzene	ND	250	ug/kg	120
p-Isopropyltoluene	**320**	**250**	**ug/kg**	**70**
Bromobenzene	ND	250	ug/kg	70
1,1,1,2-Tetrachloroethane	ND	250	ug/kg	50
1,1,2,2-Tetrachloroethane	ND	250	ug/kg	100
1,2,3-Trichloropropane	ND	250	ug/kg	110
n-Propylbenzene	**820**	**250**	**ug/kg**	**110**
2-Chlorotoluene	ND	250	ug/kg	70
4-Chlorotoluene	ND	250	ug/kg	70
1,3,5-Trimethylbenzene	**6200**	**250**	**ug/kg**	**120**
tert-Butylbenzene	ND	250	ug/kg	70
1,2,4-Trimethylbenzene	**12000**	**250**	**ug/kg**	**70**
sec-Butylbenzene	ND	250	ug/kg	70
1,3-Dichlorobenzene	ND	250	ug/kg	70
1,4-Dichlorobenzene	ND	250	ug/kg	100
1,2-Dichlorobenzene	ND	250	ug/kg	100
n-Butylbenzene	**4100**	**250**	**ug/kg**	**70**
1,2-Dibromo-3-chloro-propane	ND	500	ug/kg	150
1,2,4-Trichloro-benzene	ND	250	ug/kg	70
Hexachlorobutadiene	ND	250	ug/kg	70
1,2,3-Trichlorobenzene	ND	250	ug/kg	70

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	92	(60 - 140)
1,2-Dichloroethane-d4	124	(60 - 140)
Toluene-d8	98	(60 - 140)

KENNEDY/JENKS CONSULTANTS

Client Sample ID: BUILD_2_M_10_053101_8

GC/MS Semivolatiles

Lot-Sample #...: E1E310275-001 **Work Order #...:** ED74D1AE **Matrix.....:** SOLID
Date Sampled...: 05/31/01 13:00 **Date Received..:** 05/31/01 16:10 **MS Run #.....:** 1152173
Prep Date.....: 06/01/01 **Analysis Date..:** 06/06/01
Prep Batch #...: 1152349 **Analysis Time..:** 11:29
Dilution Factor: 100
Analyst ID.....: 010060 **Instrument ID..:** MSI
Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	33000	ug/kg	10000
Acenaphthylene	ND	33000	ug/kg	10000
Aniline	ND	66000	ug/kg	10000
Anthracene	ND	33000	ug/kg	8000
Benzidine	ND	66000	ug/kg	10000
Benzo(a)anthracene	ND	33000	ug/kg	10000
Benzo(b)fluoranthene	ND	33000	ug/kg	10000
Benzo(k)fluoranthene	ND	33000	ug/kg	20000
Benzoic acid	ND	160000	ug/kg	50000
Benzo(ghi)perylene	ND	33000	ug/kg	15000
Benzo(a)pyrene	ND	33000	ug/kg	7000
Benzyl alcohol	ND	33000	ug/kg	10000
bis(2-Chloroethoxy) methane	ND	33000	ug/kg	10000
bis(2-Chloroethyl)-ether	ND	33000	ug/kg	10000
bis(2-Chloroisopropyl) ether	ND	33000	ug/kg	11000
bis(2-Ethylhexyl) phthalate	ND	33000	ug/kg	20000
4-Bromophenyl phenyl ether	ND	33000	ug/kg	8000
Butyl benzyl phthalate	ND	33000	ug/kg	10000
4-Chloroaniline	ND	33000	ug/kg	15000
4-Chloro-3-methylphenol	ND	33000	ug/kg	10000
2-Chloronaphthalene	ND	33000	ug/kg	10000
2-Chlorophenol	ND	33000	ug/kg	15000
4-Chlorophenyl phenyl ether	ND	33000	ug/kg	9000
Chrysene	**10000 J**	**33000**	**ug/kg**	**10000**
Dibenz(a,h)anthracene	ND	33000	ug/kg	10000
Dibenzofuran	ND	33000	ug/kg	9000
Di-n-butyl phthalate	ND	33000	ug/kg	10000
1,2-Dichlorobenzene	ND	33000	ug/kg	13000
1,3-Dichlorobenzene	ND	33000	ug/kg	13000
1,4-Dichlorobenzene	ND	33000	ug/kg	13000
3,3'-Dichlorobenzidine	ND	160000	ug/kg	40000

(Continued on next page)

KENNEDY/JENKS CONSULTANTS

Client Sample ID: BUILD_2_M_10_053101_8

GC/MS Semivolatiles

Lot-Sample #...: E1E310275-001 **Work Order #...:** ED74D1AE **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-Dichlorophenol	ND	33000	ug/kg	9000
Diethyl phthalate	ND	33000	ug/kg	10000
2,4-Dimethylphenol	ND	33000	ug/kg	10000
Dimethyl phthalate	ND	33000	ug/kg	8000
Di-n-octyl phthalate	ND	33000	ug/kg	11000
4,6-Dinitro-2-methylphenol	ND	160000	ug/kg	25000
2,4-Dinitrophenol	ND	160000	ug/kg	50000
2,4-Dinitrotoluene	ND	33000	ug/kg	10000
2,6-Dinitrotoluene	ND	33000	ug/kg	9000
Fluoranthene	ND	33000	ug/kg	7000
Fluorene	**11000 J**	**33000**	**ug/kg**	**9000**
Hexachlorobenzene	ND	33000	ug/kg	8000
Hexachlorobutadiene	ND	33000	ug/kg	10000
Hexachlorocyclopentadiene	ND	160000	ug/kg	32000
Hexachloroethane	ND	33000	ug/kg	12000
Indeno(1,2,3-cd)pyrene	ND	33000	ug/kg	10000
Isophorone	ND	33000	ug/kg	10000
2-Methylnaphthalene	**190000**	**33000**	**ug/kg**	**9000**
2-Methylphenol	ND	33000	ug/kg	8000
Naphthalene	**39000**	**33000**	**ug/kg**	**9000**
2-Nitroaniline	ND	160000	ug/kg	30000
3-Nitroaniline	ND	160000	ug/kg	35000
4-Nitroaniline	ND	160000	ug/kg	20000
Nitrobenzene	ND	33000	ug/kg	15000
2-Nitrophenol	ND	33000	ug/kg	10000
4-Nitrophenol	ND	160000	ug/kg	30000
N-Nitrosodi-n-propylamine	ND	33000	ug/kg	9000
N-Nitrosodiphenylamine	ND	33000	ug/kg	8000
Pentachlorophenol	ND	160000	ug/kg	25000
Phenanthrene	**58000**	**33000**	**ug/kg**	**8000**
Phenol	ND	33000	ug/kg	10000
Pyrene	**33000**	**33000**	**ug/kg**	**12000**
1,2,4-Trichlorobenzene	ND	33000	ug/kg	10000
2,4,5-Trichlorophenol	ND	33000	ug/kg	10000
2,4,6-Trichlorophenol	ND	33000	ug/kg	7000
Carbazole	ND	33000	ug/kg	8000
3-Methylphenol & 4-Methylphenol	ND	33000	ug/kg	10000

(Continued on next page)

KENNEDY/JENKS CONSULTANTS

Client Sample ID: BUILD_2_M_10_053101_8

GC/MS Semivolatiles

Lot-Sample #...: E1E310275-001 **Work Order #...:** ED74D1AE **Matrix.....:** SOLID

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	0.0 SRD,NC	(40 - 130)
2-Fluorophenol	0.0 SRD,NC	(50 - 115)
2,4,6-Tribromophenol	0.0 SRD,NC	(30 - 115)
Nitrobenzene-d5	0.0 SRD,NC	(45 - 115)
Phenol-d5	0.0 SRD,NC	(50 - 120)
Terphenyl-d14	0.0 SRD,NC	(50 - 140)

NOTE(S):

SRD The surrogate recovery was not calculated because the extract was diluted beyond the ability to quantitate a recovery.

NC The recovery and/or RPD were not calculated

J Estimated result. Result is less than RL.

KENNEDY/JENKS CONSULTANTS

BUILD_2_M_10_053101_8

GC/MS Semivolatiles

Lot-Sample #: E1E310275-001 **Work Order #:** ED74D1AE **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Pyridine		ND	M		ug/kg
2-Naphthylamine		ND	M		ug/kg
Pentachloroethane		ND	M		ug/kg

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

KENNEDY/JENKS CONSULTANTS

Client Sample ID: BUILD_2_M_10_053101_8

TOTAL Metals

Lot-Sample #...: E1E310275-001 Matrix.....: SOLID
Date Sampled...: 05/31/01 13:00 Date Received..: 05/31/01 16:10

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1151257						
Mercury	**0.047 B**	**0.10**	**mg/kg**	**SW846 7471A**	**05/31-06/01/01**	**ED74D1A1**
		Dilution Factor: 1		Analysis Time..: 11:02	Analyst ID.....: 021088	
		Instrument ID..: M04		MS Run #.....: 1151112	MDL.....: 0.020	
Prep Batch #...: 1151480						
Silver	ND	1.0	mg/kg	SW846 6010B	05/31-06/04/01	ED74D1AU
		Dilution Factor: 1		Analysis Time..: 15:04	Analyst ID.....: 0031192	
		Instrument ID..: M01		MS Run #.....: 1151240	MDL.....: 0.10	
Aluminum	**24000**	**20.0**	**mg/kg**	**SW846 6010B**	**05/31-06/04/01**	**ED74D1AF**
		Dilution Factor: 1		Analysis Time..: 15:04	Analyst ID.....: 0031190	
		Instrument ID..: M01		MS Run #.....: 1151240	MDL.....: 8.0	
Arsenic	**4.6**	**1.0**	**mg/kg**	**SW846 6010B**	**05/31-06/04/01**	**ED74D1AH**
		Dilution Factor: 1		Analysis Time..: 15:04	Analyst ID.....: 0031190	
		Instrument ID..: M01		MS Run #.....: 1151240	MDL.....: 0.40	
Barium	**176**	**2.0**	**mg/kg**	**SW846 6010B**	**05/31-06/04/01**	**ED74D1AJ**
		Dilution Factor: 1		Analysis Time..: 15:04	Analyst ID.....: 0031190	
		Instrument ID..: M01		MS Run #.....: 1151240	MDL.....: 0.10	
Beryllium	**0.72**	**0.50**	**mg/kg**	**SW846 6010B**	**05/31-06/04/01**	**ED74D1AK**
		Dilution Factor: 1		Analysis Time..: 15:04	Analyst ID.....: 0031190	
		Instrument ID..: M01		MS Run #.....: 1151240	MDL.....: 0.050	
Cadmium	**0.93**	**0.50**	**mg/kg**	**SW846 6010B**	**05/31-06/04/01**	**ED74D1AL**
		Dilution Factor: 1		Analysis Time..: 15:04	Analyst ID.....: 0031190	
		Instrument ID..: M01		MS Run #.....: 1151240	MDL.....: 0.050	
Cobalt	**13.5**	**5.0**	**mg/kg**	**SW846 6010B**	**05/31-06/04/01**	**ED74D1AM**
		Dilution Factor: 1		Analysis Time..: 15:04	Analyst ID.....: 0031190	
		Instrument ID..: M01		MS Run #.....: 1151240	MDL.....: 0.10	
Chromium	**27.9**	**1.0**	**mg/kg**	**SW846 6010B**	**05/31-06/04/01**	**ED74D1A0**
		Dilution Factor: 1		Analysis Time..: 15:04	Analyst ID.....: 0031190	
		Instrument ID..: M01		MS Run #.....: 1151240	MDL.....: 0.10	

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KENNEDY/JENKS CONSULTANTS

Client Sample ID: BUILD_2_M_10_053101_8

TOTAL Metals

Lot-Sample #...: E1E310275-001 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	**41.9**	**2.5**	**mg/kg**	**SW846 6010B**	**05/31-06/04/01**	**ED74D1AN**
		Dilution Factor: 1		Analysis Time..: 15:04	Analyst ID.....: 0031190	
		Instrument ID..: M01		MS Run #.....: 1151240	MDL.....: 0.40	
Molybdenum	ND	4.0	mg/kg	SW846 6010B	05/31-06/04/01	ED74D1AQ
		Dilution Factor: 1		Analysis Time..: 15:04	Analyst ID.....: 0031190	
		Instrument ID..: M01		MS Run #.....: 1151240	MDL.....: 0.30	
Nickel	**20.4**	**4.0**	**mg/kg**	**SW846 6010B**	**05/31-06/04/01**	**ED74D1AR**
		Dilution Factor: 1		Analysis Time..: 15:04	Analyst ID.....: 0031190	
		Instrument ID..: M01		MS Run #.....: 1151240	MDL.....: 0.30	
Lead	**6.0**	**0.50**	**mg/kg**	**SW846 6010B**	**05/31-06/04/01**	**ED74D1AP**
		Dilution Factor: 1		Analysis Time..: 15:04	Analyst ID.....: 0031190	
		Instrument ID..: M01		MS Run #.....: 1151240	MDL.....: 0.30	
Antimony	ND	6.0	mg/kg	SW846 6010B	05/31-06/04/01	ED74D1AG
		Dilution Factor: 1		Analysis Time..: 15:04	Analyst ID. ...: 0031190	
		Instrument ID..: M01		MS Run #.....: 1151240	MDL... .....: 0.20	
Selenium	**0.82**	**0.50**	**mg/kg**	**SW846 6010B**	**05/31-06/04/01**	**ED74D1AT**
		Dilution Factor: 1		Analysis Time..: 15:04	Analyst ID. ...: 0031190	
		Instrument ID..: M01		MS Run #.....: 1151240	MDL..... ...: 0.40	
Thallium	ND	1.0	mg/kg	SW846 6010B	05/31-06/04/01	ED74D1AV
		Dilution Factor: 1		Analysis Time..: 15:04	Analyst ID. ...: 0031190	
		Instrument ID..: M01		MS Run #.....: 1151240	MDL..... ...: 0.50	
Vanadium	**64.7**	**5.0**	**mg/kg**	**SW846 6010B**	**05/31-06/04/01**	**ED74D1AW**
		Dilution Factor: 1		Analysis Time..: 15:04	Analyst ID. ...: 0031190	
		Instrument ID..: M01		MS Run #.....: 1151240	MDL..... ...: 0.10	
Zinc	**83.4**	**2.0**	**mg/kg**	**SW846 6010B**	**05/31-06/04/01**	**ED74D1AX**
		Dilution Factor: 1		Analysis Time..: 15:04	Analyst ID. ...: 0031190	
		Instrument ID..: M01		MS Run #.....: 1151240	MDL.....: 1.0	

NOTE(S):

B Estimated result. Result is less than RL.

QC DATA ASSOCIATION SUMMARY

E1E310275

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	SOLID	SW846 8015B		1152340	1152168
	SOLID	SW846 8015B		1152215	1152086
	SOLID	SW846 7471A		1151257	1151112
	SOLID	SW846 8082		1155394	1155226
	SOLID	SW846 8260B		1155387	1155220
	SOLID	SW846 8270C		1152349	1152173
	SOLID	SW846 6010B		1151480	1151240
002	SOLID	SW846 8015B		1152340	1152168
	SOLID	SW846 8015B		1152215	1152086
	SOLID	SW846 7471A		1151257	1151112
	SOLID	SW846 8082		1155394	1155226
	SOLID	SW846 8260B		1151457	1151231
	SOLID	SW846 8270C		1152349	1152173
	SOLID	SW846 6010B		1151480	1151240
003	SOLID	SW846 8015B		1152340	1152168
	SOLID	SW846 8015B		1152215	1152086
	SOLID	SW846 7471A		1151257	1151112
	SOLID	SW846 8082		1155394	1155226
	SOLID	SW846 8260B		1151457	1151231
	SOLID	SW846 8270C		1152349	1152173
	SOLID	SW846 6010B		1151480	1151240
004	SOLID	SW846 8015B		1152340	1152168
	SOLID	SW846 8015B		1152215	1152086
	SOLID	SW846 7471A		1151257	1151112
	SOLID	SW846 8082		1155394	1155226
	SOLID	SW846 8260B		1151457	1151231
	SOLID	SW846 8270C		1152349	1152173
	SOLID	SW846 6010B		1151480	1151240
005	WATER	SW846 8260B		1152299	1152138

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E1E310275
MB Lot-Sample #: E1E310000-457

Analysis Date..: 05/31/01
Dilution Factor: 1

Work Order #...: ED71N1AA

Prep Date.....: 05/31/01
Prep Batch #...: 1151457

Analyst ID.....: 999998

Matrix.....: SOLID

Analysis Time..: 11:24
Instrument ID..: MSG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Dichlorodifluoromethane	ND	10	ug/kg	SW846 8260B
Chloromethane	ND	10	ug/kg	SW846 8260B
Vinyl chloride	ND	10	ug/kg	SW846 8260B
Bromomethane	ND	10	ug/kg	SW846 8260B
Chloroethane	ND	10	ug/kg	SW846 8260B
Trichlorofluoromethane	ND	10	ug/kg	SW846 8260B
Acrolein	ND	100	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
Iodomethane	ND	10	ug/kg	SW846 8260B
Acetone	ND	25	ug/kg	SW846 8260B
Carbon disulfide	ND	5.0	ug/kg	SW846 8260B
Methylene chloride	ND	5.0	ug/kg	SW846 8260B
trans-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
Acrylonitrile	ND	50	ug/kg	SW846 8260B
Methyl tert-butyl ether	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
Vinyl acetate	ND	10	ug/kg	SW846 8260B
2,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
cis-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
2-Butanone	ND	25	ug/kg	SW846 8260B
Bromochloromethane	ND	5.0	ug/kg	SW846 8260B
Chloroform	ND	5.0	ug/kg	SW846 8260B
Tetrahydrofuran	ND	20	ug/kg	SW846 8260B
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260B
Benzene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
Trichloroethene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260B
2-Chloroethyl vinyl ether	ND	10	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
4-Methyl-2-pentanone	ND	25	ug/kg	SW846 8260B
Toluene	ND	5.0	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260B
2-Hexanone	ND	25	ug/kg	SW846 8260B
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E1E310275 **Work Order #...:** ED71N1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,2-Dibromoethane	ND	5.0	ug/kg	SW846 8260B
Chlorobenzene	ND	5.0	ug/kg	SW846 8260B
Ethylbenzene	ND	5.0	ug/kg	SW846 8260B
Xylenes (total)	ND	5.0	ug/kg	SW846 8260B
Styrene	ND	10	ug/kg	SW846 8260B
Bromoform	ND	5.0	ug/kg	SW846 8260B
Isopropylbenzene	ND	5.0	ug/kg	SW846 8260B
p-Isopropyltoluene	ND	5.0	ug/kg	SW846 8260B
Bromobenzene	ND	5.0	ug/kg	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
1,2,3-Trichloropropane	ND	5.0	ug/kg	SW846 8260B
n-Propylbenzene	ND	5.0	ug/kg	SW846 8260B
2-Chlorotoluene	ND	5.0	ug/kg	SW846 8260B
4-Chlorotoluene	ND	5.0	ug/kg	SW846 8260B
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	SW846 8260B
tert-Butylbenzene	ND	5.0	ug/kg	SW846 8260B
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	SW846 8260B
sec-Butylbenzene	ND	5.0	ug/kg	SW846 8260B
1,3-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
1,4-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
n-Butylbenzene	ND	5.0	ug/kg	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	SW846 8260B
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	SW846 8260B
Hexachlorobutadiene	ND	5.0	ug/kg	SW846 8260B
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	87	(70 - 130)
1,2-Dichloroethane-d4	93	(60 - 140)
Toluene-d8	91	(70 - 130)

NOTE(S):

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

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: E1E310275
MB Lot-Sample #: E1F010000-215

Analysis Date..: 06/01/01
Dilution Factor: 1

Work Order #...: ED8N71AA

Prep Date.....: 06/01/01
Prep Batch #...: 1152215

Analyst ID.....: C01464

Matrix.....: SOLID

Analysis Time..: 00:08
Instrument ID..: G16

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
C6-C8	ND	1.0	mg/kg	SW846 8015B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	83	(60 - 130)

NOTE(S):

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

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E1E310275
MB Lot-Sample #: E1F010000-299

Analysis Date..: 05/31/01
Dilution Factor: 1

Work Order #...: ED87R1AA

Prep Date.....: 05/31/01
Prep Batch #...: 1152299

Analyst ID.....: 015590

Matrix.....: WATER

Analysis Time..: 17:56
Instrument ID..: MSC

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	ND	10	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Bromobenzene	ND	1.0	ug/L	SW846 8260B
Bromochloromethane	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	0.50	ug/L	SW846 8260B
2-Butanone	ND	5.0	ug/L	SW846 8260B
n-Butylbenzene	ND	1.0	ug/L	SW846 8260B
sec-Butylbenzene	ND	1.0	ug/L	SW846 8260B
tert-Butylbenzene	ND	1.0	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
Dichlorodifluoromethane	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	0.50	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
2-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
4-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	SW846 8260B
1,2-Dibromoethane	ND	1.0	ug/L	SW846 8260B
Iodomethane	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
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	0.50	ug/L	SW846 8260B
2,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Hexachlorobutadiene	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	5.0	ug/L	SW846 8260B
Isopropylbenzene	ND	1.0	ug/L	SW846 8260B
p-Isopropyltoluene	ND	1.0	ug/L	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E1E310275 **Work Order #...:** ED87R1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Methylene chloride	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B
Methyl tert-butyl ether	ND	1.0	ug/L	SW846 8260B
n-Propylbenzene	ND	1.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,1,2-Tetrachloroethane	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
1,2,3-Trichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,2,4-Trichloro-benzene	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
1,2,3-Trichloropropane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L	SW846 8260B
1,2,4-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
1,3,5-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B
Acrolein	ND	20	ug/L	SW846 8260B
Acrylonitrile	ND	20	ug/L	SW846 8260B
Vinyl acetate	ND	5.0	ug/L	SW846 8260B
Tetrahydrofuran	ND	10	ug/L	SW846 8260B
2-Chloroethyl vinyl ether	ND	5.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	97	(75 - 120)
1,2-Dichloroethane-d4	82	(65 - 130)
Toluene-d8	98	(80 - 130)

NOTE(S):

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

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: E1E310275
MB Lot-Sample #: E1F010000-340
Work Order #...: ED9D01AA
Matrix.....: SOLID
Prep Date.....: 06/01/01
Analysis Time..: 07:13
Analysis Date..: 06/02/01
Prep Batch #...: 1152340
Instrument ID..: G02
Dilution Factor: 1
Analyst ID.....: 356074

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
C8-C9	ND	10	mg/kg	SW846 8015B
C10-C11	ND	10	mg/kg	SW846 8015B
C12-C13	ND	10	mg/kg	SW846 8015B
C14-C15	ND	10	mg/kg	SW846 8015B
C16-C17	ND	10	mg/kg	SW846 8015B
C18-C19	ND	10	mg/kg	SW846 8015B
C20-C23	ND	10	mg/kg	SW846 8015B
C24-C27	ND	10	mg/kg	SW846 8015B
C28-C31	ND	10	mg/kg	SW846 8015B
C32-C35	ND	10	mg/kg	SW846 8015B
C36-C39	ND	10	mg/kg	SW846 8015B
C40+	ND	10	mg/kg	SW846 8015B
Total Carbon Chain Range	ND	10	mg/kg	SW846 8015B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	86	(60 - 130)

NOTE(S):

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

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: E1E310275
MB Lot-Sample #: E1F010000-349

Analysis Date..: 06/05/01
Dilution Factor: 1

Work Order #...: ED9FQ1AA

Prep Date.....: 06/01/01
Prep Batch #...: 1152349

Analyst ID.....: C10060

Matrix.....: SOLID

Analysis Time..: 14:21
Instrument ID..: MSI

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acenaphthene	ND	330	ug/kg	SW846 8270C
Acenaphthylene	ND	330	ug/kg	SW846 8270C
Aniline	ND	660	ug/kg	SW846 8270C
Anthracene	ND	330	ug/kg	SW846 8270C
Benzidine	ND	660	ug/kg	SW846 8270C
Benzo(a)anthracene	ND	330	ug/kg	SW846 8270C
Benzo(b)fluoranthene	ND	330	ug/kg	SW846 8270C
Benzo(k)fluoranthene	ND	330	ug/kg	SW846 8270C
Benzoic acid	ND	1600	ug/kg	SW846 8270C
Benzo(ghi)perylene	ND	330	ug/kg	SW846 8270C
Benzo(a)pyrene	ND	330	ug/kg	SW846 8270C
Benzyl alcohol	ND	330	ug/kg	SW846 8270C
bis(2-Chloroethoxy) methane	ND	330	ug/kg	SW846 8270C
bis(2-Chloroethyl)-ether	ND	330	ug/kg	SW846 8270C
bis(2-Chloroisopropyl) ether	ND	330	ug/kg	SW846 8270C
bis(2-Ethylhexyl) phthalate	ND	330	ug/kg	SW846 8270C
4-Bromophenyl phenyl ether	ND	330	ug/kg	SW846 8270C
Butyl benzyl phthalate	ND	330	ug/kg	SW846 8270C
4-Chloroaniline	ND	330	ug/kg	SW846 8270C
4-Chloro-3-methylphenol	ND	330	ug/kg	SW846 8270C
2-Chloronaphthalene	ND	330	ug/kg	SW846 8270C
2-Chlorophenol	ND	330	ug/kg	SW846 8270C
4-Chlorophenyl phenyl ether	ND	330	ug/kg	SW846 8270C
Chrysene	ND	330	ug/kg	SW846 8270C
Dibenz(a,h)anthracene	ND	330	ug/kg	SW846 8270C
Dibenzofuran	ND	330	ug/kg	SW846 8270C
Di-n-butyl phthalate	ND	330	ug/kg	SW846 8270C
1,2-Dichlorobenzene	ND	330	ug/kg	SW846 8270C
1,3-Dichlorobenzene	ND	330	ug/kg	SW846 8270C
1,4-Dichlorobenzene	ND	330	ug/kg	SW846 8270C
3,3'-Dichlorobenzidine	ND	1600	ug/kg	SW846 8270C
2,4-Dichlorophenol	ND	330	ug/kg	SW846 8270C
Diethyl phthalate	ND	330	ug/kg	SW846 8270C
2,4-Dimethylphenol	ND	330	ug/kg	SW846 8270C

(Continued on next page)

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: E1E310275 **Work Order #...:** ED9FQ1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Dimethyl phthalate	ND	330	ug/kg	SW846 8270C
Di-n-octyl phthalate	ND	330	ug/kg	SW846 8270C
4,6-Dinitro-2-methylphenol	ND	1600	ug/kg	SW846 8270C
2,4-Dinitrophenol	ND	1600	ug/kg	SW846 8270C
2,4-Dinitrotoluene	ND	330	ug/kg	SW846 8270C
2,6-Dinitrotoluene	ND	330	ug/kg	SW846 8270C
Fluoranthene	ND	330	ug/kg	SW846 8270C
Fluorene	ND	330	ug/kg	SW846 8270C
Hexachlorobenzene	ND	330	ug/kg	SW846 8270C
Hexachlorobutadiene	ND	330	ug/kg	SW846 8270C
Hexachlorocyclopentadiene	ND	1600	ug/kg	SW846 8270C
Hexachloroethane	ND	330	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	330	ug/kg	SW846 8270C
Isophorone	ND	330	ug/kg	SW846 8270C
2-Methylnaphthalene	ND	330	ug/kg	SW846 8270C
2-Methylphenol	ND	330	ug/kg	SW846 8270C
Naphthalene	ND	330	ug/kg	SW846 8270C
2-Nitroaniline	ND	1600	ug/kg	SW846 8270C
3-Nitroaniline	ND	1600	ug/kg	SW846 8270C
4-Nitroaniline	ND	1600	ug/kg	SW846 8270C
Nitrobenzene	ND	330	ug/kg	SW846 8270C
2-Nitrophenol	ND	330	ug/kg	SW846 8270C
4-Nitrophenol	ND	1600	ug/kg	SW846 8270C
N-Nitrosodi-n-propylamine	ND	330	ug/kg	SW846 8270C
N-Nitrosodiphenylamine	ND	330	ug/kg	SW846 8270C
Pentachlorophenol	ND	1600	ug/kg	SW846 8270C
Phenanthrene	ND	330	ug/kg	SW846 8270C
Phenol	ND	330	ug/kg	SW846 8270C
Pyrene	ND	330	ug/kg	SW846 8270C
1,2,4-Trichlorobenzene	ND	330	ug/kg	SW846 8270C
2,4,5-Trichlorophenol	ND	330	ug/kg	SW846 8270C
2,4,6-Trichlorophenol	ND	330	ug/kg	SW846 8270C
Carbazole	ND	330	ug/kg	SW846 8270C
3-Methylphenol & 4-Methylphenol	ND	330	ug/kg	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	74	(40 - 130)

(Continued on next page)

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: E1E310275 **Work Order #...:** ED9FQ1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
2-Fluorophenol	84	(50 - 115)		
2,4,6-Tribromophenol	104	(30 - 115)		
Nitrobenzene-d5	77	(45 - 115)		
Phenol-d5	79	(50 - 120)		
Terphenyl-d14	106	(50 - 140)		

NOTE(S):

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

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E1E310275
MB Lot-Sample #: E1F040000-387

Analysis Date..: 06/01/01
Dilution Factor: 1

Work Order #...: EECR41AA

Prep Date.....: 06/01/01
Prep Batch #...: 1155387

Analyst ID.....: 999998

Matrix.....: SOLID

Analysis Time..: 15:53
Instrument ID..: MSG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Dichlorodifluoromethane	ND	500	ug/kg	SW846 8260B
Chloromethane	ND	500	ug/kg	SW846 8260B
Vinyl chloride	ND	500	ug/kg	SW846 8260B
Bromomethane	ND	500	ug/kg	SW846 8260B
Chloroethane	ND	500	ug/kg	SW846 8260B
Trichlorofluoromethane	ND	500	ug/kg	SW846 8260B
Acrolein	ND	5000	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	250	ug/kg	SW846 8260B
Iodomethane	ND	500	ug/kg	SW846 8260B
Acetone	**780 J**	**1200**	**ug/kg**	**SW846 8260B**
Carbon disulfide	ND	250	ug/kg	SW846 8260B
Methylene chloride	ND	250	ug/kg	SW846 8260B
trans-1,2-Dichloroethene	ND	250	ug/kg	SW846 8260B
Acrylonitrile	ND	2500	ug/kg	SW846 8260B
Methyl tert-butyl ether	ND	250	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	250	ug/kg	SW846 8260B
Vinyl acetate	ND	500	ug/kg	SW846 8260B
2,2-Dichloropropane	ND	250	ug/kg	SW846 8260B
cis-1,2-Dichloroethene	ND	250	ug/kg	SW846 8260B
2-Butanone	ND	1200	ug/kg	SW846 8260B
Bromochloromethane	ND	250	ug/kg	SW846 8260B
Chloroform	ND	250	ug/kg	SW846 8260B
Tetrahydrofuran	ND	1000	ug/kg	SW846 8260B
1,1,1-Trichloroethane	ND	250	ug/kg	SW846 8260B
1,1-Dichloropropene	ND	250	ug/kg	SW846 8260B
Carbon tetrachloride	ND	250	ug/kg	SW846 8260B
Benzene	ND	250	ug/kg	SW846 8260B
1,2-Dichloroethane	**180 J**	**250**	**ug/kg**	**SW846 8260B**
Trichloroethene	ND	250	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	250	ug/kg	SW846 8260B
Bromodichloromethane	ND	250	ug/kg	SW846 8260B
2-Chloroethyl vinyl ether	ND	500	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	250	ug/kg	SW846 8260B
4-Methyl-2-pentanone	ND	1200	ug/kg	SW846 8260B
Toluene	ND	250	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	250	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	250	ug/kg	SW846 8260B
Tetrachloroethene	ND	250	ug/kg	SW846 8260B
2-Hexanone	ND	1200	ug/kg	SW846 8260B
Dibromochloromethane	ND	250	ug/kg	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E1E310275 **Work Order #...:** FECR41AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,2-Dibromoethane	ND	250	ug/kg	SW846 8260B
Chlorobenzene	ND	250	ug/kg	SW846 8260B
Ethylbenzene	ND	250	ug/kg	SW846 8260B
Xylenes (total)	ND	250	ug/kg	SW846 8260B
Styrene	ND	500	ug/kg	SW846 8260B
Bromoform	ND	250	ug/kg	SW846 8260B
Isopropylbenzene	ND	250	ug/kg	SW846 8260B
p-Isopropyltoluene	ND	250	ug/kg	SW846 8260B
Bromobenzene	ND	250	ug/kg	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	250	ug/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	250	ug/kg	SW846 8260B
1,2,3-Trichloropropane	ND	250	ug/kg	SW846 8260B
n-Propylbenzene	ND	250	ug/kg	SW846 8260B
2-Chlorotoluene	ND	250	ug/kg	SW846 8260B
4-Chlorotoluene	ND	250	ug/kg	SW846 8260B
1,3,5-Trimethylbenzene	ND	250	ug/kg	SW846 8260B
tert-Butylbenzene	ND	250	ug/kg	SW846 8260B
1,2,4-Trimethylbenzene	ND	250	ug/kg	SW846 8260B
sec-Butylbenzene	ND	250	ug/kg	SW846 8260B
1,3-Dichlorobenzene	ND	250	ug/kg	SW846 8260B
1,4-Dichlorobenzene	ND	250	ug/kg	SW846 8260B
1,2-Dichlorobenzene	ND	250	ug/kg	SW846 8260B
n-Butylbenzene	ND	250	ug/kg	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	500	ug/kg	SW846 8260B
1,2,4-Trichloro-benzene	ND	250	ug/kg	SW846 8260B
Hexachlorobutadiene	ND	250	ug/kg	SW846 8260B
1,2,3-Trichlorobenzene	ND	250	ug/kg	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	96	(60 - 140)
1,2-Dichloroethane-d4	139	(60 - 140)
Toluene-d8	100	(60 - 140)

NOTE(S):

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

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: E1E310275
MB Lot-Sample #: E1F040000-394
Analysis Date..: 06/04/01
Dilution Factor: 1

Work Order #...: EECTL1AA
Prep Date.....: 06/04/01
Prep Batch #...: 155394
Analyst ID.....: 018568

Matrix.....: SOLID
Analysis Time..: 18:17
Instrument ID..: G8B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aroclor 1016	ND	33	ug/kg	SW846 8082
Aroclor 1221	ND	33	ug/kg	SW846 8082
Aroclor 1232	ND	33	ug/kg	SW846 8082
Aroclor 1242	ND	33	ug/kg	SW846 8082
Aroclor 1248	ND	33	ug/kg	SW846 8082
Aroclor 1254	ND	33	ug/kg	SW846 8082
Aroclor 1260	ND	33	ug/kg	SW846 8082

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	109	(60 - 140)
Tetrachloro-m-xylene	26 *	(60 - 140)

NOTE(S):

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

* Surrogate recovery is outside stated control limits.

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: E1E310275 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: E1E310000-257 **Prep Batch #...:** 1151257						
Mercury	ND	0.10	mg/kg	SW846 7471A	05/31-06/01/01	ED65N1AA
		Dilution Factor: 1				
		Analysis Time..: 10:45		Analyst ID.....: 021088	Instrument ID..: M04	
MB Lot-Sample #: E1E310000-480 **Prep Batch #...:** 1151480						
Aluminum	ND	20.0	mg/kg	SW846 6010B	05/31-06/04/01	ED74Q1AA
		Dilution Factor: 1				
		Analysis Time..: 14:50		Analyst ID.....: 003119	Instrument ID..: M01	
Antimony	ND	6.0	mg/kg	SW846 6010B	05/31-06/04/01	ED74Q1AC
		Dilution Factor: 1				
		Analysis Time..: 14:50		Analyst ID.....: 003119	Instrument ID..: M01	
Arsenic	ND	1.0	mg/kg	SW846 6010B	05/31-06/04/01	ED74Q1AD
		Dilution Factor: 1				
		Analysis Time..: 14:50		Analyst ID.....: 003119	Instrument ID..: M01	
Barium	ND	2.0	mg/kg	SW846 6010B	05/31-06/04/01	ED74Q1AE
		Dilution Factor: 1				
		Analysis Time..: 14:50		Analyst ID.....: 003119	Instrument ID..: M01	
Beryllium	ND	0.50	mg/kg	SW846 6010B	05/31-06/04/01	ED74Q1AF
		Dilution Factor: 1				
		Analysis Time..: 14:50		Analyst ID.....: 003119	Instrument ID..: M01	
Cadmium	**0.12 B**	**0.50**	**mg/kg**	**SW846 6010B**	**05/31-06/04/01**	**ED74Q1AG**
		Dilution Factor: 1				
		Analysis Time..: 14:50		Analyst ID.....: 003119	Instrument ID..: M01	
Chromium	**0.13 B**	**1.0**	**mg/kg**	**SW846 6010B**	**05/31-06/04/01**	**ED74Q1AU**
		Dilution Factor: 1				
		Analysis Time..: 14:50		Analyst ID.....: 003119	Instrument ID..: M01	
Cobalt	ND	5.0	mg/kg	SW846 6010B	05/31-06/04/01	ED74Q1AH
		Dilution Factor: 1				
		Analysis Time..: 14:50		Analyst ID.....: 003119	Instrument ID..: M01	
Copper	ND	2.5	mg/kg	SW846 6010B	05/31-06/04/01	ED74Q1AJ
		Dilution Factor: 1				
		Analysis Time..: 14:50		Analyst ID.....: 003119	Instrument ID..: M01	

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: E1E310275 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Lead	ND	0.50	mg/kg	SW846 6010B	05/31-06/04/01	ED74Q1AK
		Dilution Factor: 1				
		Analysis Time..: 14:50		Analyst ID.....: 003119	Instrument ID..: M01	
Molybdenum	ND	4.0	mg/kg	SW846 6010B	05/31-06/04/01	ED74Q1AL
		Dilution Factor: 1				
		Analysis Time..: 14:50		Analyst ID.....: 003119	Instrument ID..: M01	
Nickel	ND	4.0	mg/kg	SW846 6010B	05/31-06/04/01	ED74Q1AM
		Dilution Factor: 1				
		Analysis Time..: 14:50		Analyst ID.....: 003119	Instrument ID..: M01	
Selenium	ND	0.50	mg/kg	SW846 6010B	05/31-06/04/01	ED74Q1AN
		Dilution Factor: 1				
		Analysis Time..: 14:50		Analyst ID.....: 003119	Instrument ID..: M01	
Silver	ND	1.0	mg/kg	SW846 6010B	05/31-06/04/01	ED74Q1AP
		Dilution Factor: 1				
		Analysis Time..: 14:50		Analyst ID.....: 003119	Instrument ID..: M01	
Thallium	ND	1.0	mg/kg	SW846 6010B	05/31-06/04/01	ED74Q1AQ
		Dilution Factor: 1				
		Analysis Time..: 14:50		Analyst ID.....: 003119	Instrument ID..: M01	
Vanadium	ND	5.0	mg/kg	SW846 6010B	05/31-06/04/01	ED74Q1AR
		Dilution Factor: 1				
		Analysis Time..: 14:50		Analyst ID.....: 003119	Instrument ID..: M01	
Zinc	ND	2.0	mg/kg	SW846 6010B	05/31-06/04/01	ED74Q1AT
		Dilution Factor: 1				
		Analysis Time..: 14:50		Analyst ID.....: 003119	Instrument ID..: M01	

NOTE(S):

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

B Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E1E310275 **Work Order #...:** ED71N1AC **Matrix.....:** SOLID
LCS Lot-Sample#: E1E310000-457
Prep Date.....: 05/31/01 **Analysis Date..:** 05/31/01
Prep Batch #...: 1151457 **Analysis Time..:** 11:56
Dilution Factor: 1 **Instrument ID..:** MSG
Analyst ID.....: 999998

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,1-Dichloroethene	**50.0**	**70.5**	**ug/kg**	**141**	**SW846 8260B**
Benzene	**50.0**	**57.4**	**ug/kg**	**115**	**SW846 8260B**
Trichloroethene	**50.0**	**54.5**	**ug/kg**	**109**	**SW846 8260B**
Toluene	**50.0**	**49.7**	**ug/kg**	**99**	**SW846 8260B**
Chlorobenzene	**50.0**	**50.8**	**ug/kg**	**102**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	101	(70 - 130)
1,2-Dichloroethane-d4	108	(60 - 140)
Toluene-d8	100	(70 - 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 Volatiles

Client Lot #...: E1E310275 **Work Order #...:** ED8N71AC **Matrix.....:** SOLID
LCS Lot-Sample#: E1F010000-215
Prep Date.....: 05/31/01 **Analysis Date..:** 05/31/01
Prep Batch #...: 1152215 **Analysis Time..:** 23:11
Dilution Factor: 1 **Instrument ID..:** G16
Analyst ID.....: 001464

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
TPH (as Gasoline)	**5.00**	**5.25**	**mg/kg**	**105**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	112	(60 - 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 #...: E1E310275 **Work Order #...:** ED87R1AC **Matrix.....:** WATER
LCS Lot-Sample#: E1F010000-299
Prep Date.....: 05/31/01 **Analysis Date..:** 05/31/01
Prep Batch #...: 1152299 **Analysis Time..:** 17:26
Dilution Factor: 1 **Instrument ID..:** MSC
Analyst ID.....: 015590

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Benzene	**10.0**	**8.73**	**ug/L**	**87**	**SW846 8260B**
1,1-Dichloroethene	**10.0**	**10.8**	**ug/L**	**108**	**SW846 8260B**
Chlorobenzene	**10.0**	**9.65**	**ug/L**	**96**	**SW846 8260B**
Toluene	**10.0**	**9.80**	**ug/L**	**98**	**SW846 8260B**
Trichloroethene	**10.0**	**9.13**	**ug/L**	**91**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	101	(75 - 120)
1,2-Dichloroethane-d4	82	(65 - 130)
Toluene-d8	102	(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 Semivolatiles

Client Lot #...: E1E310275 **Work Order #...:** ED9D01AC **Matrix.....:** SOLID
LCS Lot-Sample#: E1F010000-340
Prep Date.....: 06/01/01 **Analysis Date..:** 06/02/01
Prep Batch #...: 1152340 **Analysis Time..:** 07:52
Dilution Factor: 1 **Instrument ID..:** G02
Analyst ID.....: 356074

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
TPH (as Diesel)	**250**	**199**	**mg/kg**	**79**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	84	(60 - 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 Semivolatiles

Client Lot #...: E1E310275 Work Order #...: ED9FQ1AC Matrix.....: SOLID
LCS Lot-Sample#: E1F010000-349
Prep Date.....: 06/01/01 Analysis Date..: 06/05/01
Prep Batch #...: 1152349 Analysis Time..: 14:51
Dilution Factor: 1 Instrument ID..: MSI
Analyst ID.....: 010060

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
4-Chloro-3-methylphenol	**5000**	**3900**	**ug/kg**	**78**	**SW846 8270C**
2-Chlorophenol	**5000**	**3790**	**ug/kg**	**76**	**SW846 8270C**
Acenaphthene	**3330**	**2580**	**ug/kg**	**77**	**SW846 8270C**
1,4-Dichlorobenzene	**3330**	**1840**	**ug/kg**	**55**	**SW846 8270C**
2,4-Dinitrotoluene	**3330**	**3060**	**ug/kg**	**92**	**SW846 8270C**
4-Nitrophenol	**5000**	**4860**	**ug/kg**	**97**	**SW846 8270C**
N-Nitrosodi-n-propyl-amine	**3330**	**2550**	**ug/kg**	**76**	**SW846 8270C**
Pentachlorophenol	**5000**	**4230**	**ug/kg**	**85**	**SW846 8270C**
Phenol	**5000**	**3420**	**ug/kg**	**68**	**SW846 8270C**
Pyrene	**3330**	**3030**	**ug/kg**	**91**	**SW846 8270C**
1,2,4-Trichloro-benzene	**3330**	**2150**	**ug/kg**	**64**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	64	(40 - 130)
2-Fluorophenol	76	(50 - 115)
2,4,6-Tribromophenol	89	(30 - 115)
Nitrobenzene-d5	65	(45 - 115)
Phenol-d5	67	(50 - 120)
Terphenyl-d14	91	(50 - 140)

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 #...: E1E310275 **Work Order #...:** EECR41AC **Matrix.....:** SOLID
LCS Lot-Sample#: E1F040000-387
Prep Date.....: 06/01/01 **Analysis Date..:** 06/01/01
Prep Batch #...: 1155387 **Analysis Time..:** 14:48
Dilution Factor: 1 **Instrument ID..:** MSG
Analyst ID.....: 999998

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,1-Dichloroethene	**2500**	**3250**	**ug/kg**	**130**	**SW846 8260B**
Benzene	**2500**	**2800**	**ug/kg**	**112**	**SW846 8260B**
Trichloroethene	**2500**	**2910**	**ug/kg**	**117**	**SW846 8260B**
Toluene	**2500**	**2090**	**ug/kg**	**84**	**SW846 8260B**
Chlorobenzene	**2500**	**2090**	**ug/kg**	**84**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	89	(60 - 140)
1,2-Dichloroethane-d4	120	(60 - 140)
Toluene-d8	95	(60 - 140)

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 Semivolatiles

Client Lot #...: E1E310275 **Work Order #...:** HECTL1AC **Matrix.....:** SOLID
LCS Lot-Sample#: E1F040000-394
Prep Date.....: 06/04/01 **Analysis Date..:** 06/04/01
Prep Batch #...: 1155394 **Analysis Time..:** 18:57
Dilution Factor: 1 **Instrument ID..:** G8B
Analyst ID.....: 018568

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Aroclor 1016	**333**	**321**	**ug/kg**	**96**	**SW846 8082**
Aroclor 1260	**333**	**343**	**ug/kg**	**103**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	118	(60 - 140)
Tetrachloro-m-xylene	58 *	(60 - 140)

NOTE(S):

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

Bold print denotes control parameters

* Surrogate recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E1E310275 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: E1E310000-257 **Prep Batch #...:** 1151257							
Mercury	0.833	0.818	mg/kg	98	SW846 7471A	05/31-06/01/01	ED65N1AC
			Dilution Factor: 1				
			Analysis Time..: 10:46		Analyst ID.....: 021088	Instrument ID..: M04	
LCS Lot-Sample#: E1E310000-480 **Prep Batch #...:** 1151480							
Aluminum	200	188	mg/kg	94	SW846 6010B	05/31-06/04/01	ED74Q1AV
			Dilution Factor: 1				
			Analysis Time..: 14:56		Analyst ID.....: 003119	Instrument ID..: M01	
Antimony	50.0	50.8	mg/kg	102	SW846 6010B	05/31-06/04/01	ED74Q1AW
			Dilution Factor: 1				
			Analysis Time..: 14:56		Analyst ID.....: 003119	Instrument ID..: M01	
Arsenic	200	192	mg/kg	96	SW846 6010B	05/31-06/04/01	ED74Q1AX
			Dilution Factor: 1				
			Analysis Time..: 14:56		Analyst ID.....: 003119	Instrument ID..: M01	
Barium	200	206	mg/kg	103	SW846 6010B	05/31-06/04/01	ED74Q1A0
			Dilution Factor: 1				
			Analysis Time..: 14:56		Analyst ID.....: 3119	Instrument ID..: M01	
Beryllium	5.00	5.40	mg/kg	108	SW846 6010B	05/31-06/04/01	ED74Q1A1
			Dilution Factor: 1				
			Analysis Time..: 14:56		Analyst ID.....: 003119	Instrument ID..: M01	
Cadmium	5.00	5.26	mg/kg	105	SW846 6010B	05/31-06/04/01	ED74Q1A2
			Dilution Factor: 1				
			Analysis Time..: 14:56		Analyst ID.....: 003119	Instrument ID..: M01	
Cobalt	50.0	52.7	mg/kg	105	SW846 6010B	05/31-06/04/01	ED74Q1A3
			Dilution Factor: 1				
			Analysis Time..: 14:56		Analyst ID.....: 003119	Instrument ID..: M01	
Copper	25.0	26.1	mg/kg	104	SW846 6010B	05/31-06/04/01	ED74Q1A4
			Dilution Factor: 1				
			Analysis Time..: 14:56		Analyst ID.....: 003119	Instrument ID..: M01	
Lead	50.0	48.9	mg/kg	98	SW846 6010B	05/31-06/04/01	ED74Q1A5
			Dilution Factor: 1				
			Analysis Time..: 14:56		Analyst ID.....: 003119	Instrument ID..: M01	

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E1E310275 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Molybdenum	100	103	mg/kg	103	SW846 6010B	05/31-06/04/01	ED74Q1A6
			Dilution Factor: 1				
			Analysis Time..: 14:56		Analyst ID.....: 003119	Instrument ID..: M01	
Nickel	50.0	51.4	mg/kg	103	SW846 6010B	05/31-06/04/01	ED74Q1A7
			Dilution Factor: 1				
			Analysis Time..: 14:56		Analyst ID.....: 003119	Instrument ID..: M01	
Selenium	200	184	mg/kg	92	SW846 6010B	05/31-06/04/01	ED74Q1A8
			Dilution Factor: 1				
			Analysis Time..: 14:56		Analyst ID.....: 003119	Instrument ID..: M01	
Silver	5.00	5.01	mg/kg	100	SW846 6010B	05/31-06/04/01	ED74Q1A9
			Dilution Factor: 1				
			Analysis Time..: 14:56		Analyst ID.....: 003119	Instrument ID..: M01	
Thallium	200	201	mg/kg	101	SW846 6010B	05/31-06/04/01	ED74Q1CA
			Dilution Factor: 1				
			Analysis Time..: 14:56		Analyst ID.....: 003119	Instrument ID..: M01	
Vanadium	50.0	52.2	mg/kg	104	SW846 6010B	05/31-06/04/01	ED74Q1CC
			Dilution Factor: 1				
			Analysis Time..: 14:56		Analyst ID.....: 003119	Instrument ID..: M01	
Zinc	50.0	51.4	mg/kg	103	SW846 6010B	05/31-06/04/01	ED74Q1CD
			Dilution Factor: 1				
			Analysis Time..: 14:56		Analyst ID.....: 003119	Instrument ID..: M01	
Chromium	20.0	21.4	mg/kg	107	SW846 6010B	05/31-06/04/01	ED74Q1CE
			Dilution Factor: 1				
			Analysis Time..: 14:56		Analyst ID.....: 003119	Instrument ID..: M01	

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 #...: E1E310275 **Work Order #...:** ED71N1AC **Matrix.....:** SOLID
LCS Lot-Sample#: E1E310000-457
Prep Date.....: 05/31/01 **Analysis Date..:** 05/31/01
Prep Batch #...: 1151457 **Analysis Time..:** 11:56
Dilution Factor: 1 **Instrument ID..:** MSG
Analyst ID.....: 999998

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	**141**	**(60 - 150)**	**SW846 8260B**
Benzene	**115**	**(70 - 140)**	**SW846 8260B**
Trichloroethene	**109**	**(70 - 130)**	**SW846 8260B**
Toluene	**99**	**(70 - 130)**	**SW846 8260B**
Chlorobenzene	**102**	**(70 - 130)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	101	(70 - 130)
1,2-Dichloroethane-d4	108	(60 - 140)
Toluene-d8	100	(70 - 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 Volatiles

Client Lot #...: E1E310275 **Work Order #...:** ED8N71AC **Matrix.....:** SOLID
LCS Lot-Sample#: E1F010000-215
Prep Date.....: 05/31/01 **Analysis Date..:** 05/31/01
Prep Batch #...: 1152215 **Analysis Time..:** 23:11
Dilution Factor: 1 **Instrument ID..:** G16
Analyst ID.....: 001464

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
TPH (as Gasoline)	**105**	**(80 - 140)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	112	(60 - 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 #...: E1E310275 **Work Order #...:** ED87R1AC **Matrix.....:** WATER
LCS Lot-Sample#: E1F010000-299
Prep Date.....: 05/31/01 **Analysis Date..:** 05/31/01
Prep Batch #...: 1152299 **Analysis Time..:** 17:26
Dilution Factor: 1 **Instrument ID..:** MSC
Analyst ID.....: 015590

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Benzene	**87**	**(75 - 120)**	**SW846 8260B**
1,1-Dichloroethene	**108**	**(70 - 130)**	**SW846 8260B**
Chlorobenzene	**96**	**(80 - 120)**	**SW846 8260B**
Toluene	**98**	**(80 - 120)**	**SW846 8260B**
Trichloroethene	**91**	**(75 - 130)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	101	(75 - 120)
1,2-Dichloroethane-d4	82	(65 - 130)
Toluene-d8	102	(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 Semivolatiles

Client Lot #...: E1E310275 **Work Order #...:** ED9D01AC **Matrix.....:** SOLID
LCS Lot-Sample#: E1F010000-340
Prep Date.....: 06/01/01 **Analysis Date..:** 06/02/01
Prep Batch #...: 1152340 **Analysis Time..:** 07:52
Dilution Factor: 1 **Instrument ID..:** G02
Analyst ID.....: 356074

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
TPH (as Diesel)	**79**	**(60 - 130)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	84	(60 - 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 Semivolatiles

Client Lot #...: E1E310275 **Work Order #...:** ED9FQ1AC **Matrix.....:** SOLID
LCS Lot-Sample#: E1F010000-349
Prep Date.....: 06/01/01 **Analysis Date..:** 06/05/01
Prep Batch #...: 1152349 **Analysis Time..:** 14:51
Dilution Factor: 1 **Instrument ID..:** MSI
Analyst ID.....: 010060

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
4-Chloro-3-methylphenol	**78**	**(50 - 110)**	**SW846 8270C**
2-Chlorophenol	**76**	**(50 - 120)**	**SW846 8270C**
Acenaphthene	**77**	**(50 - 125)**	**SW846 8270C**
1,4-Dichlorobenzene	**55**	**(40 - 115)**	**SW846 8270C**
2,4-Dinitrotoluene	**92**	**(40 - 120)**	**SW846 8270C**
4-Nitrophenol	**97**	**(10 - 120)**	**SW846 8270C**
N-Nitrosodi-n-propyl-amine	**76**	**(40 - 120)**	**SW846 8270C**
Pentachlorophenol	**85**	**(20 - 130)**	**SW846 8270C**
Phenol	**68**	**(40 - 110)**	**SW846 8270C**
Pyrene	**91**	**(50 - 140)**	**SW846 8270C**
1,2,4-Trichloro-benzene	**64**	**(50 - 115)**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	64	(40 - 130)
2-Fluorophenol	76	(50 - 115)
2,4,6-Tribromophenol	89	(30 - 115)
Nitrobenzene-d5	65	(45 - 115)
Phenol-d5	67	(50 - 120)
Terphenyl-d14	91	(50 - 140)

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 #...: E1E310275
LCS Lot-Sample#: E1F040000-387
Prep Date.....: 06/01/01
Prep Batch #...: 1155387
Dilution Factor: 1
Analyst ID.....: 999998

Work Order #...: EECR41AC
Analysis Date..: 06/01/01
Analysis Time..: 14:48
Instrument ID..: MSG

Matrix.....: SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	**130**	**(60 - 140)**	**SW846 8260B**
Benzene	**112**	**(60 - 130)**	**SW846 8260B**
Trichloroethene	**117**	**(60 - 140)**	**SW846 8260B**
Toluene	**84**	**(60 - 130)**	**SW846 8260B**
Chlorobenzene	**84**	**(60 - 130)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	89	(60 - 140)
1,2-Dichloroethane-d4	120	(60 - 140)
Toluene-d8	95	(60 - 140)

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 Semivolatiles

Client Lot #...: E1E310275 **Work Order #...:** EECTL1AC **Matrix.....:** SOLID
LCS Lot-Sample#: E1F040000-394
Prep Date.....: 06/04/01 **Analysis Date..:** 06/04/01
Prep Batch #...: 1155394 **Analysis Time..:** 18:57
Dilution Factor: 1 **Instrument ID..:** G8B
Analyst ID.....: 018568

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Aroclor 1016	**96**	**(65 - 130)**	**SW846 8082**
Aroclor 1260	**103**	**(70 - 130)**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	118	(60 - 140)
Tetrachloro-m-xylene	58 *	(60 - 140)

NOTE(S):

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

Bold print denotes control parameters

* Surrogate recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E1E310275 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: E1E310000-257 **Prep Batch #...:** 1151257					
Mercury	98	(85 - 115)	SW846 7471A	05/31-06/01/01	ED65N1AC
		Dilution Factor: 1			
		Analysis Time..: 10:46	Analyst ID.....: 021088	Instrument ID..: M04	
LCS Lot-Sample#: E1E310000-480 **Prep Batch #...:** 1151480					
Aluminum	94	(80 - 120)	SW846 6010B	05/31-06/04/01	ED74Q1AV
		Dilution Factor: 1			
		Analysis Time..: 14:56	Analyst ID.....: 003119	Instrument ID..: M01	
Antimony	102	(75 - 115)	SW846 6010B	05/31-06/04/01	ED74Q1AW
		Dilution Factor: 1			
		Analysis Time..: 14:56	Analyst ID.....: 003119	Instrument ID..: M01	
Arsenic	96	(75 - 115)	SW846 6010B	05/31-06/04/01	ED74Q1AX
		Dilution Factor: 1			
		Analysis Time..: 14:56	Analyst ID.....: 003119	Instrument ID..: M01	
Barium	103	(80 - 120)	SW846 6010B	05/31-06/04/01	ED74Q1A0
		Dilution Factor: 1			
		Analysis Time..: 14:56	Analyst ID.....: 3119	Instrument ID..: M01	
Beryllium	108	(80 - 120)	SW846 6010B	05/31-06/04/01	ED74Q1A1
		Dilution Factor: 1			
		Analysis Time..: 14:56	Analyst ID.....: 003119	Instrument ID..: M01	
Cadmium	105	(80 - 120)	SW846 6010B	05/31-06/04/01	ED74Q1A2
		Dilution Factor: 1			
		Analysis Time..: 14:56	Analyst ID.....: 003119	Instrument ID..: M01	
Cobalt	105	(80 - 120)	SW846 6010B	05/31-06/04/01	ED74Q1A3
		Dilution Factor: 1			
		Analysis Time..: 14:56	Analyst ID.....: 003119	Instrument ID..: M01	
Copper	104	(80 - 120)	SW846 6010B	05/31-06/04/01	ED74Q1A4
		Dilution Factor: 1			
		Analysis Time..: 14:56	Analyst ID.....: 003119	Instrument ID..: M01	
Lead	98	(80 - 120)	SW846 6010B	05/31-06/04/01	ED74Q1A5
		Dilution Factor: 1			
		Analysis Time..: 14:56	Analyst ID.....: 003119	Instrument ID..: M01	

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E1E310275 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Molybdenum	103	(80 - 120)	SW846 6010B	05/31-06/04/01	ED74Q1A6
		Dilution Factor: 1			
		Analysis Time..: 14:56	Analyst ID.....: 003119	Instrument ID..: M01	
Nickel	103	(80 - 120)	SW846 6010B	05/31-06/04/01	ED74Q1A7
		Dilution Factor: 1			
		Analysis Time..: 14:56	Analyst ID.....: 003119	Instrument ID..: M01	
Selenium	92	(70 - 115)	SW846 6010B	05/31-06/04/01	ED74Q1A8
		Dilution Factor: 1			
		Analysis Time..: 14:56	Analyst ID.....: 003119	Instrument ID..: M01	
Silver	100	(80 - 120)	SW846 6010B	05/31-06/04/01	ED74Q1A9
		Dilution Factor: 1			
		Analysis Time..: 14:56	Analyst ID.....: 003119	Instrument ID..: M01	
Thallium	101	(75 - 120)	SW846 6010B	05/31-06/04/01	ED74Q1CA
		Dilution Factor: 1			
		Analysis Time..: 14:56	Analyst ID.....: 003119	Instrument ID..: M01	
Vanadium	104	(80 - 120)	SW846 6010B	05/31-06/04/01	ED74Q1CC
		Dilution Factor: 1			
		Analysis Time..: 14:56	Analyst ID.....: 003119	Instrument ID..: M01	
Zinc	103	(80 - 120)	SW846 6010B	05/31-06/04/01	ED74Q1CD
		Dilution Factor: 1			
		Analysis Time..: 14:56	Analyst ID.....: 003119	Instrument ID..: M01	
Chromium	107	(85 - 120)	SW846 6010B	05/31-06/04/01	ED74Q1CE
		Dilution Factor: 1			
		Analysis Time..: 14:56	Analyst ID.....: 003119	Instrument ID..: M01	

NOTE(S):

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

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...:	E1E310275	**Work Order #...:**	ED11P1AC-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	E1E250297-013		ED11P1AD-MSD		
Date Sampled...:	05/25/01 12:10	**Date Received..:**	05/25/01 15:09	**MS Run #.....:**	1151231
Prep Date.....:	05/31/01	**Analysis Date..:**	05/31/01		
Prep Batch #...:	1151457	**Analysis Time..:**	13:05		
Dilution Factor:	1	**Analyst ID.....:**	999998	**Instrument ID..:**	MSG

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,1-Dichloroethene	**ND**	**50.0**	**61.3**	**ug/kg**	**123**		**SW846 8260B**
	ND	**50.0**	**58.0**	**ug/kg**	**116**	**5.6**	**SW846 8260B**
Benzene	**ND**	**50.0**	**53.2**	**ug/kg**	**106**		**SW846 8260B**
	ND	**50.0**	**47.6**	**ug/kg**	**95**	**11**	**SW846 8260B**
Trichloroethene	**2.5**	**50.0**	**50.2**	**ug/kg**	**95**		**SW846 8260B**
	2.5	**50.0**	**48.4**	**ug/kg**	**92**	**3.6**	**SW846 8260B**
Toluene	**ND**	**50.0**	**43.9**	**ug/kg**	**88**		**SW846 8260B**
	ND	**50.0**	**42.2**	**ug/kg**	**84**	**3.8**	**SW846 8260B**
Chlorobenzene	**ND**	**50.0**	**44.5**	**ug/kg**	**89**		**SW846 8260B**
	ND	**50.0**	**42.0**	**ug/kg**	**84**	**5.9**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	91	(70 - 130)
	90	(70 - 130)
1,2-Dichloroethane-d4	102	(60 - 140)
	97	(60 - 140)
Toluene-d8	93	(70 - 130)
	89	(70 - 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

TOTAL Metals

Client Lot #...: E1E310275 **Matrix.....:** SOLID
Date Sampled...: 05/29/01 14:15 **Date Received..:** 05/29/01 17:05

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATICN-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: E1E290212-001 **Prep Batch #...:** 1151257									
Mercury									
	0.037	0.167	0.220	mg/kg	110		SW846 7471A	05/31-06/01/01	ED4N81C5
	0.037	0.167	0.213	mg/kg	106	3.1	SW846 7471A	05/31-06/01/01	ED4N81C6

Dilution Factor: 1
Analysis Time..: 10:51 Instrument ID..: M04 Analyst ID.....: 021088
MS Run #.....: 1151112

NOTE(S):

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

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...:	E1E310275	**Work Order #...:**	ED6DQ1EA-MS	**Matrix.....:**	WATER
MS Lot-Sample #:	E1E300259-001		ED6DQ1EC-MSD		
Date Sampled...:	05/30/01 10:00	**Date Received..:**	05/30/01 16:50	**MS Run #.....:**	1152138
Prep Date.....:	06/01/01	**Analysis Date..:**	06/01/01		
Prep Batch #...:	1152299	**Analysis Time..:**	02:22		
Dilution Factor:	1	**Analyst ID.....:**	015590	**Instrument ID..:**	MSC

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Benzene	**ND**	**10.0**	**8.81**	**ug/L**	**88**		**SW846 8260B**
	ND	**10.0**	**8.88**	**ug/L**	**89**	**0.79**	**SW846 8260B**
1,1-Dichloroethene	**ND**	**10.0**	**11.0**	**ug/L**	**110**		**SW846 8260B**
	ND	**10.0**	**10.9**	**ug/L**	**109**	**0.54**	**SW846 8260B**
Chlorobenzene	**ND**	**10.0**	**9.74**	**ug/L**	**97**		**SW846 8260B**
	ND	**10.0**	**9.82**	**ug/L**	**98**	**0.81**	**SW846 8260B**
Toluene	**ND**	**10.0**	**9.81**	**ug/L**	**98**		**SW846 8260B**
	ND	**10.0**	**9.78**	**ug/L**	**98**	**0.30**	**SW846 8260B**
Trichloroethene	**ND**	**10.0**	**9.34**	**ug/L**	**93**		**SW846 8260B**
	ND	**10.0**	**9.46**	**ug/L**	**95**	**1.3**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	100	(75 - 120)
	100	(75 - 120)
1,2-Dichloroethane-d4	88	(65 - 130)
	86	(65 - 130)
Toluene-d8	99	(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 Semivolatiles

Client Lot #...:	E1E310275	**Work Order #...:**	ED7F01AG-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	E1E310193-001		ED7F01AH-MSD		
Date Sampled...:	05/14/01 13:00	**Date Received..:**	05/17/01 18:00	**MS Run #.....:**	1155226
Prep Date.....:	06/04/01	**Analysis Date..:**	06/04/01		
Prep Batch #...:	1155394	**Analysis Time..:**	21:36		
Dilution Factor:	1	**Analyst ID.....:**	018568	**Instrument ID..:**	G8B

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Aroclor 1016	**ND**	**333**	**301**	**ug/kg**	**90**		**SW846 8082**
	ND	**333**	**314**	**ug/kg**	**94**	**4.4**	**SW846 8082**
Aroclor 1260	**ND**	**333**	**311**	**ug/kg**	**93**		**SW846 8082**
	ND	**333**	**328**	**ug/kg**	**98**	**5.2**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	93	(60 - 140)
	101	(60 - 140)
Tetrachloro-m-xylene	70	(60 - 140)
	73	(60 - 140)

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 Semivolatiles

Client Lot #...:	E1E310275	Work Order #...:	ED7GD1AE-MS	Matrix.....:	SOLID
MS Lot-Sample #:	E1E310193-002		ED7GD1AF-MSD		
Date Sampled...:	05/23/01 12:15	Date Received..:	05/24/01 16:55	MS Run #.....:	1152173
Prep Date.....:	06/01/01	Analysis Date..:	06/06/01		
Prep Batch #...:	1152349	Analysis Time..:	15:56		
Dilution Factor:	1	Analyst ID.....:	010060	Instrument ID..:	MSI

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
4-Chloro-3-methylphenol	ND	5000	3550	ug/kg	71		SW846 8270C
	ND	5000	4210	ug/kg	84	17	SW846 8270C
2-Chlorophenol	ND	5000	3090	ug/kg	62		SW846 8270C
	ND	5000	3460	ug/kg	69	11	SW846 8270C
Acenaphthene	ND	3330	2140	ug/kg	64		SW846 8270C
	ND	3330	2370	ug/kg	71	10	SW846 8270C
1,4-Dichlorobenzene	ND	3330	1650	ug/kg	50		SW846 8270C
	ND	3330	1860	ug/kg	56	12	SW846 8270C
2,4-Dinitrotoluene	ND	3330	2310	ug/kg	69		SW846 8270C
	ND	3330	2670	ug/kg	80	14	SW846 8270C
4-Nitrophenol	ND	5000	4210	ug/kg	84		SW846 8270C
	ND	5000	4970	ug/kg	99	17	SW846 8270C
N-Nitrosodi-n-propyl-amine	ND	3330	3280	ug/kg	98		SW846 8270C
	ND	3330	3660	ug/kg	110	11	SW846 8270C
Pentachlorophenol	ND	5000	2980	ug/kg	60		SW846 8270C
	ND	5000	3440	ug/kg	69	14	SW846 8270C
Phenol	ND	5000	3060	ug/kg	61		SW846 8270C
	ND	5000	3410	ug/kg	68	11	SW846 8270C
Pyrene	ND	3330	2700	ug/kg	81		SW846 8270C
	ND	3330	3100	ug/kg	93	14	SW846 8270C
1,2,4-Trichloro-benzene	ND	3330	1940	ug/kg	58		SW846 8270C
	ND	3330	2200	ug/kg	66	13	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	60	(40 - 130)
	62	(40 - 130)
2-Fluorophenol	60	(50 - 115)
	62	(50 - 115)
2,4,6-Tribromophenol	70	(30 - 115)
	78	(30 - 115)
Nitrobenzene-d5	69	(45 - 115)
	66	(45 - 115)
Phenol-d5	68	(50 - 120)
	72	(50 - 120)

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: E1E310275 **Work Order #...:** ED7GD1AE-MS **Matrix.....:** SOLID
MS Lot-Sample #: E1E310193-002 ED7GD1AF-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Terphenyl-d14	83	(50 - 140)
	96	(50 - 140)

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

TOTAL Metals

Client Lot #...: E1E310275 **Matrix.....:** SOLID
Date Sampled...: 05/31/01 13:00 **Date Received..:** 05/31/01 16:10

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT		UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: E1E310275-001 **Prep Batch #...:** 1151480										
Aluminum										
	24000	200	25800	NC	mg/kg			SW846 6010B	05/31-06/04/01	ED74D1A4
	24000	200	24100	NC	mg/kg			SW846 6010B	05/31-06/04/01	ED74D1A5
			Dilution Factor: 1							
			Analysis Time..: 15:21				Instrument ID..: M01		Analyst ID.....: 003119	
			MS Run #.....: 1151240							
Antimony										
	ND	50.0	15.2	N	mg/kg	30		SW846 6010B	05/31-06/04/01	ED74D1A6
	ND	50.0	13.5	N	mg/kg	27	12	SW846 6010B	05/31-06/04/01	ED74D1A7
			Dilution Factor: 1							
			Analysis Time..: 15:21				Instrument ID..: M01		Analyst ID ....: 003119	
			MS Run #.....: 1151240							
Arsenic										
	4.6	200	190		mg/kg	93		SW846 6010B	05/31-06/04/01	ED74D1A8
	4.6	200	187		mg/kg	91	1.5	SW846 6010B	05/31-06/04/01	ED74D1A9
			Dilution Factor: 1							
			Analysis Time..: 15:21				Instrument ID..: M01		Analyst ID.....: 003119	
			MS Run #.....: 1151240							
Barium										
	176	200	367		mg/kg	95		SW846 6010B	05/31-06/04/01	ED74D1CA
	176	200	350		mg/kg	87	4.5	SW846 6010B	05/31-06/04/01	ED74D1CC
			Dilution Factor: 1							
			Analysis Time..: 15:21				Instrument ID..: M01		Analyst ID.....: 003119	
			MS Run #.....: 1151240							
Beryllium										
	0.72	5.00	5.84		mg/kg	102		SW846 6010B	05/31-06/04/01	ED74D1CD
	0.72	5.00	5.76		mg/kg	101	1.4	SW846 6010B	05/31-06/04/01	ED74D1CE
			Dilution Factor: 1							
			Analysis Time..: 15:21				Instrument ID..: M01		Analyst ID.....: 003119	
			MS Run #.....: 1151240							
Cadmium										
	0.93	5.00	6.12		mg/kg	104		SW846 6010B	05/31-06/04/01	ED74D1CF
	0.93	5.00	5.74		mg/kg	96	6.5	SW846 6010B	05/31-06/04/01	ED74D1CG
			Dilution Factor: 1							
			Analysis Time..: 15:21				Instrument ID..: M01		Analyst ID.....: 003119	
			MS Run #.....: 1151240							

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E1E310275 **Matrix.....:** SOLID
Date Sampled...: 05/31/01 13:00 **Date Received..:** 05/31/01 16:10

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT		UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Chromium										
	27.9	20.0	48.7		mg/kg	104		SW846 6010B	05/31-06/04/01	ED74D1C6
	27.9	20.0	47.1		mg/kg	96	3.4	SW846 6010B	05/31-06/04/01	ED74D1C7
				Dilution Factor: 1						
				Analysis Time..: 15:21			Instrument ID..: M01		Analyst ID.....: 003119	
				MS Run #.....: 1151240						
Cobalt										
	13.5	50.0	63.1		mg/kg	99		SW846 6010B	05/31-06/04/01	ED74D1CH
	13.5	50.0	61.9		mg/kg	97	1.9	SW846 6010B	05/31-06/04/01	ED74D1CJ
				Dilution Factor: 1						
				Analysis Time..: 15:21			Instrument ID..: M01		Analyst ID.....: 003119	
				MS Run #.....: 1151240						
Copper										
	41.9	25.0	69.0		mg/kg	108		SW846 6010B	05/31-06/04/01	ED74D1CK
	41.9	25.0	75.1	N	mg/kg	133	8.5	SW846 6010B	05/31-06/04/01	ED74D1CL
				Dilution Factor: 1						
				Analysis Time..: 15:21			Instrument ID..: M01		Analyst ID.....: 003119	
				MS Run #.....: 1151240						
Lead										
	6.0	50.0	52.1		mg/kg	92		SW846 6010B	05/31-06/04/01	ED74D1CM
	6.0	50.0	51.3		mg/kg	91	1.4	SW846 6010B	05/31-06/04/01	ED74D1CN
				Dilution Factor: 1						
				Analysis Time..: 15:21			Instrument ID..: M01		Analyst ID.....: 003119	
				MS Run #.....: 1151240						
Molybdenum										
	ND	100	94.2		mg/kg	94		SW846 6010B	05/31-06/04/01	ED74D1CP
	ND	100	93.0		mg/kg	93	1.2	SW846 6010B	05/31-06/04/01	ED74D1CQ
				Dilution Factor: 1						
				Analysis Time..: 15:21			Instrument ID..: M01		Analyst ID ....: 003119	
				MS Run #.....: 1151240						
Nickel										
	20.4	50.0	68.0		mg/kg	95		SW846 6010B	05/31-06/04/01	ED74D1CR
	20.4	50.0	66.1		mg/kg	91	2.7	SW846 6010B	05/31-06/04/01	ED74D1CT
				Dilution Factor: 1						
				Analysis Time..: 15:21			Instrument ID..: M01		Analyst ID.....: 003119	
				MS Run #.....: 1151240						
Selenium										
	0.82	200	177		mg/kg	88		SW846 6010B	05/31-06/04/01	ED74D1CU
	0.82	200	175		mg/kg	87	1.2	SW846 6010B	05/31-06/04/01	ED74D1CV
				Dilution Factor: 1						
				Analysis Time..: 15:21			Instrument ID..: M01		Analyst ID.....: 003119	
				MS Run #.....: 1151240						

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E1E310275 **Matrix.....:** SOLID
Date Sampled...: 05/31/01 13:00 **Date Received..:** 05/31/01 16:10

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Silver									
	ND	5.00	4.83	mg/kg	97		SW846 6010B	05/31-06/04/01	ED74D1CW
	ND	5.00	4.76	mg/kg	95	1.6	SW846 6010B	05/31-06/04/01	ED74D1CX
				Dilution Factor: 1					
				Analysis Time..: 15:21		Instrument ID..: M01		Analyst ID.....: 003119	
				MS Run #.....: 1151240					
Thallium									
	ND	200	193	mg/kg	96		SW846 6010B	05/31-06/04/01	ED74D1C0
	ND	200	190	mg/kg	95	1.6	SW846 6010B	05/31-06/04/01	ED74D1C1
				Dilution Factor: 1					
				Analysis Time..: 15:21		Instrument ID..: M01		Analyst ID.....: 003119	
				MS Run #.....: 1151240					
Vanadium									
	64.7	50.0	116	mg/kg	102		SW846 6010B	05/31-06/04/01	ED74D1C2
	64.7	50.0	113	mg/kg	96	2.7	SW846 6010B	05/31-06/04/01	ED74D1C3
				Dilution Factor: 1					
				Analysis Time..: 15:21		Instrument ID..: M01		Analyst ID.....: 003119	
				MS Run #.....: 1151240					
Zinc									
	83.4	50.0	134	mg/kg	102		SW846 6010B	05/31-06/04/01	ED74D1C4
	83.4	50.0	134	mg/kg	102	0.10	SW846 6010B	05/31-06/04/01	ED74D1C5
				Dilution Factor: 1					
				Analysis Time..: 15:21		Instrument ID..: M01		Analyst ID.....: 003119	
				MS Run #.....: 1151240					

NOTE(S):

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

NC The recovery and/or RPD were not calculated.

N Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...:	E1E310275	**Work Order #...:**	ED74D1C8-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	E1E310275-001		ED74D1C9-MSD		
Date Sampled...:	05/31/01 13:00	**Date Received..:**	05/31/01 16:10	**MS Run #.....:**	1155220
Prep Date.....:	06/01/01	**Analysis Date..:**	06/01/01		
Prep Batch #...:	1155387	**Analysis Time..:**	16:58		
Dilution Factor:	1	**Analyst ID.....:**	999998	**Instrument ID..:**	MSG

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,1-Dichloroethene	**ND**	**2500**	**3180**	**ug/kg**	**127**		**SW846 8260B**
	ND	**2500**	**3330**	**ug/kg**	**133**	**4.5**	**SW846 8260B**
Benzene	**ND**	**2500**	**2920**	**ug/kg**	**117**		**SW846 8260B**
	ND	**2500**	**3010**	**ug/kg**	**120**	**3.1**	**SW846 8260B**
Trichloroethene	**2900**	**2500**	**4960**	**ug/kg**	**82**		**SW846 8260B**
	2900	**2500**	**5030**	**ug/kg**	**84**	**1.4**	**SW846 8260B**
Toluene	**ND**	**2500**	**2130**	**ug/kg**	**85**		**SW846 8260B**
	ND	**2500**	**2200**	**ug/kg**	**88**	**3.4**	**SW846 8260B**
Chlorobenzene	**ND**	**2500**	**2070**	**ug/kg**	**83**		**SW846 8260B**
	ND	**2500**	**2140**	**ug/kg**	**85**	**3.0**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	88	(60 - 140)
	95	(60 - 140)
1,2-Dichloroethane-d4	123	(60 - 140)
	127	(60 - 140)
Toluene-d8	95	(60 - 140)
	98	(60 - 140)

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 Volatiles

Client Lot #...:	E1E310275	**Work Order #...:**	ED74J1A4-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	E1E310275-004		ED74J1A5-MSD		
Date Sampled...:	05/31/01 13:15	**Date Received..:**	05/31/01 16:10	**MS Run #.....:**	1152086
Prep Date.....:	06/01/01	**Analysis Date..:**	06/01/01		
Prep Batch #...:	1152215	**Analysis Time..:**	02:30		
Dilution Factor:	1	**Analyst ID.....:**	001464	**Instrument ID..:**	G16

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
TPH (as Gasoline)	**ND**	**5.00**	**5.23**	**mg/kg**	**105**		**SW846 8015B**
	ND	**5.00**	**5.18**	**mg/kg**	**104**	**1.1**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	118	(60 - 130)
	117	(60 - 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 Semivolatiles

Client Lot #...:	E1E310275	**Work Order #...:**	ED74J1A6-MS ED74J1A7-MSD	**Matrix.....:**	SOLID
MS Lot-Sample #:	E1E310275-004				
Date Sampled...:	05/31/01 13:15	**Date Received..:**	05/31/01 16:10	**MS Run #.....:**	1152168
Prep Date.....:	06/01/01	**Analysis Date..:**	06/02/01		
Prep Batch #...:	1152340	**Analysis Time..:**	10:28		
Dilution Factor:	1	**Analyst ID.....:**	356074	**Instrument ID..:**	G02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
TPH (as Diesel)	**ND**	**250**	**182**	**mg/kg**	**73**		**SW846 8015B**
	ND	**250**	**177**	**mg/kg**	**71**	**3.2**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	77	(60 - 130)
	75	(60 - 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 #...:	E1E310275	**Work Order #...:**	ED11P1AC-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	E1E250297-013		ED11P1AD-MSD		
Date Sampled...:	05/25/01 12:10	**Date Received..:**	05/25/01 15:09	**MS Run #.....:**	1151231
Prep Date.....:	05/31/01	**Analysis Date..:**	05/31/01		
Prep Batch #...:	1151457	**Analysis Time..:**	13:05		
Dilution Factor:	1	**Analyst ID.....:**	999998	**Instrument ID..:**	MSG

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**123**	**(60 - 150)**			**SW846 8260B**
	116	**(60 - 150)**	**5.6**	**(0-30)**	**SW846 8260B**
Benzene	**106**	**(70 - 140)**			**SW846 8260B**
	95	**(70 - 140)**	**11**	**(0-30)**	**SW846 8260B**
Trichloroethene	**95**	**(70 - 130)**			**SW846 8260B**
	92	**(70 - 130)**	**3.6**	**(0-30)**	**SW846 8260B**
Toluene	**88**	**(70 - 130)**			**SW846 8260B**
	84	**(70 - 130)**	**3.8**	**(0-30)**	**SW846 8260B**
Chlorobenzene	**89**	**(70 - 130)**			**SW846 8260B**
	84	**(70 - 130)**	**5.9**	**(0-30)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	91	(70 - 130)
	90	(70 - 130)
1,2-Dichloroethane-d4	102	(60 - 140)
	97	(60 - 140)
Toluene-d8	93	(70 - 130)
	89	(70 - 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 #...: E1E310275 **Matrix.....:** SOLID
Date Sampled...: 05/29/01 14:15 **Date Received..:** 05/29/01 17:05

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: E1E290212-001 **Prep Batch #...:** 1151257							
Mercury	110	(80 - 120)			SW846 7471A	05/31-06/01/01	ED4N81C
	106	(80 - 120)	3.1	(0-20)	SW846 7471A	05/31-06/01/01	ED4N81C

Dilution Factor 1
Analysis Time... 10:51 Instrument ID..: M04 Analyst ID.....: 02
MS Run #.....: 1151112

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 #...:	E1E310275	**Work Order #...:**	ED6DQ1EA-MS	**Matrix.....:**	WATER
MS Lot-Sample #:	E1E300259-001		ED6DQ1EC-MSD		
Date Sampled...:	05/30/01 10:00	**Date Received..:**	05/30/01 16:50	**MS Run #.....:**	1152138
Prep Date.....:	06/01/01	**Analysis Date..:**	06/01/01		
Prep Batch #...:	1152299	**Analysis Time..:**	02:22		
Dilution Factor:	1	**Analyst ID.....:**	015590	**Instrument ID..:**	MSC

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	**88**	**(75 - 120)**			**SW846 8260B**
	89	**(75 - 120)**	**0.79**	**(0-25)**	**SW846 8260B**
1,1-Dichloroethene	**110**	**(70 - 130)**			**SW846 8260B**
	109	**(70 - 130)**	**0.54**	**(0-25)**	**SW846 8260B**
Chlorobenzene	**97**	**(80 - 120)**			**SW846 8260B**
	98	**(80 - 120)**	**0.81**	**(0-25)**	**SW846 8260B**
Toluene	**98**	**(80 - 120)**			**SW846 8260B**
	98	**(80 - 120)**	**0.30**	**(0-25)**	**SW846 8260B**
Trichloroethene	**93**	**(75 - 130)**			**SW846 8260B**
	95	**(75 - 130)**	**1.3**	**(0-25)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	100	(75 - 120)
	100	(75 - 120)
1,2-Dichloroethane-d4	88	(65 - 130)
	86	(65 - 130)
Toluene-d8	99	(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 Semivolatiles

Client Lot #...:	E1E310275	**Work Order #...:**	ED7F01AG-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	E1E310193-001		ED7F01AH-MSD		
Date Sampled...:	05/14/01 13:00	**Date Received..:**	05/17/01 18:00	**MS Run #.....:**	1155226
Prep Date.....:	06/04/01	**Analysis Date..:**	06/04/01		
Prep Batch #...:	1155394	**Analysis Time..:**	21:36		
Dilution Factor:	1	**Analyst ID.....:**	018568	**Instrument ID..:**	G8B

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Aroclor 1016	**90**	**(65 - 130)**			**SW846 8082**
	94	**(65 - 130)**	**4.4**	**(0-30)**	**SW846 8082**
Aroclor 1260	**93**	**(70 - 130)**			**SW846 8082**
	98	**(70 - 130)**	**5.2**	**(0-30)**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	93	(60 - 140)
	101	(60 - 140)
Tetrachloro-m-xylene	70	(60 - 140)
	73	(60 - 140)

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 Semivolatiles

Client Lot #...:	E1E310275	**Work Order #...:**	ED7GD1AE-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	E1E310193-002		ED7GD1AF-MSD		
Date Sampled...:	05/23/01 12:15	**Date Received..:**	05/24/01 16:55	**MS Run #.....:**	1152173
Prep Date.....:	06/01/01	**Analysis Date..:**	06/06/01		
Prep Batch #...:	1152349	**Analysis Time..:**	15:56		
Dilution Factor:	1	**Analyst ID.....:**	010060	**Instrument ID..:**	MSI

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
4-Chloro-3-methylphenol	**71**	**(50 - 110)**			**SW846 8270C**
	84	**(50 - 110)**	**17**	**(0-35)**	**SW846 8270C**
2-Chlorophenol	**62**	**(50 - 120)**			**SW846 8270C**
	69	**(50 - 120)**	**11**	**(0-35)**	**SW846 8270C**
Acenaphthene	**64**	**(50 - 125)**			**SW846 8270C**
	71	**(50 - 125)**	**10**	**(0-35)**	**SW846 8270C**
1,4-Dichlorobenzene	**50**	**(40 - 115)**			**SW846 8270C**
	56	**(40 - 115)**	**12**	**(0-35)**	**SW846 8270C**
2,4-Dinitrotoluene	**69**	**(40 - 120)**			**SW846 8270C**
	80	**(40 - 120)**	**14**	**(0-35)**	**SW846 8270C**
4-Nitrophenol	**84**	**(10 - 120)**			**SW846 8270C**
	99	**(10 - 120)**	**17**	**(0-35)**	**SW846 8270C**
N-Nitrosodi-n-propyl-amine	**98**	**(40 - 120)**			**SW846 8270C**
	110	**(40 - 120)**	**11**	**(0-35)**	**SW846 8270C**
Pentachlorophenol	**60**	**(20 - 130)**			**SW846 8270C**
	69	**(20 - 130)**	**14**	**(0-35)**	**SW846 8270C**
Phenol	**61**	**(40 - 110)**			**SW846 8270C**
	68	**(40 - 110)**	**11**	**(0-35)**	**SW846 8270C**
Pyrene	**81**	**(50 - 140)**			**SW846 8270C**
	93	**(50 - 140)**	**14**	**(0-35)**	**SW846 8270C**
1,2,4-Trichloro-benzene	**58**	**(50 - 115)**			**SW846 8270C**
	66	**(50 - 115)**	**13**	**(0-35)**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	60	(40 - 130)
	62	(40 - 130)
2-Fluorophenol	60	(50 - 115)
	62	(50 - 115)
2,4,6-Tribromophenol	70	(30 - 115)
	78	(30 - 115)
Nitrobenzene-d5	69	(45 - 115)
	66	(45 - 115)
Phenol-d5	68	(50 - 120)
	72	(50 - 120)

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: E1E310275 **Work Order #...:** ED7GD1AE-MS **Matrix.....:** SOLID
MS Lot-Sample #: E1E310193-002 ED7GD1AF-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Terphenyl-d14	83	(50 - 140)
	96	(50 - 140)

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 #...: E1E310275 **Matrix.....:** SOLID
Date Sampled...: 05/31/01 13:00 **Date Received..:** 05/31/01 16:10

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: E1E310275-001 **Prep Batch #...:** 1151480							
Aluminum	NC	(80 - 120)			SW846 6010B	05/31-06/04/01	ED74D1A4
	NC	(80 - 120)		(0-25)	SW846 6010B	05/31-06/04/01	ED74D1A5
		Dilution Factor: 1					
		Analysis Time..: 15:21			Instrument ID..: M01	Analyst ID.....: 003119	
		MS Run #.. ....: 1151240					
Antimony	30 N	(75 - 115)			SW846 6010B	05/31-06/04/01	ED74D1A6
	27 N	(75 - 115)	12	(0-25)	SW846 6010B	05/31-06/04/01	ED74D1A7
		Dilution Factor: 1					
		Analysis Time..: 15:21			Instrument ID..: M01	Analyst ID.....: 003119	
		MS Run #.. ....: 1151240					
Arsenic	93	(75 - 115)			SW846 6010B	05/31-06/04/01	ED74D1A8
	91	(75 - 115)	1.5	(0-25)	SW846 6010B	05/31-06/04/01	ED74D1A9
		Dilution Factor: 1					
		Analysis Time..: 15:21			Instrument ID..: M01	Analyst ID.....: 003119	
		MS Run #.....: 1151240					
Barium	95	(80 - 120)			SW846 6010B	05/31-06/04/01	ED74D1CA
	87	(80 - 120)	4.5	(0-25)	SW846 6010B	05/31-06/04/01	ED74D1CC
		Dilution Factor: 1					
		Analysis Time..: 15:21			Instrument ID..: M01	Analyst ID.....: 003119	
		MS Run #.....: 1151240					
Beryllium	102	(80 - 120)			SW846 6010B	05/31-06/04/01	ED74D1CD
	101	(80 - 120)	1.4	(0-25)	SW846 6010B	05/31-06/04/01	ED74D1CE
		Dilution Factor: 1					
		Analysis Time..: 15:21			Instrument ID..: M01	Analyst ID.....: 003119	
		MS Run #.....: 1151240					
Cadmium	104	(80 - 120)			SW846 6010B	05/31-06/04/01	ED74D1CF
	96	(80 - 120)	6.5	(0-25)	SW846 6010B	05/31-06/04/01	ED74D1CG
		Dilution Factor: 1					
		Analysis Time..: 15:21			Instrument ID..: M01	Analyst ID.....: 003119	
		MS Run #.....: 1151240					
Chromium	104	(85 - 120)			SW846 6010B	05/31-06/04/01	ED74D1C6
	96	(85 - 120)	3.4	(0-25)	SW846 6010B	05/31-06/04/01	ED74D1C7
		Dilution Factor: 1					
		Analysis Time..: 15:21			Instrument ID..: M01	Analyst ID.....: 003119	
		MS Run #.....: 1151240					

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E1E310275 **Matrix.....:** SOLID
Date Sampled...: 05/31/01 13:00 **Date Received..:** 05/31/01 16:10

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	99	(80 - 120)			SW846 6010B	05/31-06/04/01	ED74D1CH
	97	(80 - 120)	1.9	(0-25)	SW846 6010B	05/31-06/04/01	ED74D1CJ
		Dilution Factor: 1					
		Analysis Time..: 15:21			Instrument ID..: M01	Analyst ID.....: 003119	
		MS Run #.....: 1151240					
Copper	108	(80 - 120)			SW846 6010B	05/31-06/04/01	ED74D1CK
	133 N	(80 - 120)	8.5	(0-25)	SW846 6010B	05/31-06/04/01	ED74D1CL
		Dilution Factor: 1					
		Analysis Time..: 15:21			Instrument ID..: M01	Analyst ID.....: 003119	
		MS Run #.....: 1151240					
Lead	92	(80 - 120)			SW846 6010B	05/31-06/04/01	ED74D1CM
	91	(80 - 120)	1.4	(0-25)	SW846 6010B	05/31-06/04/01	ED74D1CN
		Dilution Factor: 1					
		Analysis Time..: 15:21			Instrument ID..: M01	Analyst ID.....: 003119	
		MS Run #.....: 1151240					
Molybdenum	94	(80 - 120)			SW846 6010B	05/31-06/04/01	ED74D1CP
	93	(80 - 120)	1.2	(0-25)	SW846 6010B	05/31-06/04/01	ED74D1CQ
		Dilution Factor: 1					
		Analysis Time..: 15:21			Instrument ID..: M01	Analyst ID ....: 003119	
		MS Run #.....: 1151240					
Nickel	95	(80 - 120)			SW846 6010B	05/31-06/04/01	ED74D1CR
	91	(80 - 120)	2.7	(0-25)	SW846 6010B	05/31-06/04/01	ED74D1CT
		Dilution Factor: 1					
		Analysis Time..: 15:21			Instrument ID..: M01	Analyst ID ....: 003119	
		MS Run #.....: 1151240					
Selenium	88	(70 - 115)			SW846 6010B	05/31-06/04/01	ED74D1CU
	87	(70 - 115)	1.2	(0-25)	SW846 6010B	05/31-06/04/01	ED74D1CV
		Dilution Factor: 1					
		Analysis Time..: 15:21			Instrument ID..: M01	Analyst ID.....: 003119	
		MS Run #.....: 1151240					
Silver	97	(80 - 120)			SW846 6010B	05/31-06/04/01	ED74D1CW
	95	(80 - 120)	1.6	(0-25)	SW846 6010B	05/31-06/04/01	ED74D1CX
		Dilution Factor: 1					
		Analysis Time..: 15:21			Instrument ID..: M01	Analyst ID.....: 003119	
		MS Run #.....: 1151240					
Thallium	96	(75 - 120)			SW846 6010B	05/31-06/04/01	ED74D1C0
	95	(75 - 120)	1.6	(0-25)	SW846 6010B	05/31-06/04/01	ED74D1C1
		Dilution Factor: 1					
		Analysis Time..: 15:21			Instrument ID..: M01	Analyst ID.....: 003119	
		MS Run #.....: 1151240					

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E1E310275 **Matrix.....:** SOLID
Date Sampled...: 05/31/01 13:00 **Date Received..:** 05/31/01 16:10

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Vanadium	102	(80 - 120)			SW846 6010B	05/31-06/04/01	ED74D1C2
	96	(80 - 120)	2.7	(0-25)	SW846 6010B	05/31-06/04/01	ED74D1C3

Dilution Factor: 1
Analysis Time..: 15:21 Instrument ID..: M01 Analyst ID.....: 003119
MS Run #.....: 1151240

Zinc	102	(80 - 120)			SW846 6010B	05/31-06/04/01	ED74D1C4
	102	(80 - 120)	0.10	(0-25)	SW846 6010B	05/31-06/04/01	ED74D1C5

Dilution Factor: 1
Analysis Time..: 15:21 Instrument ID..: M01 Analyst ID.....: 003119
MS Run #.....: 1151240

NOTE(S):

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

NC The recovery and/or RPD were not calculated.

N Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...:	E1E310275	**Work Order #...:**	ED74D1C8-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	E1E310275-001		ED74D1C9-MSD		
Date Sampled...:	05/31/01 13:00	**Date Received..:**	05/31/01 16:10	**MS Run #.....:**	1155220
Prep Date.....:	06/01/01	**Analysis Date..:**	06/01/01		
Prep Batch #...:	1155387	**Analysis Time..:**	16:58		
Dilution Factor:	1	**Analyst ID.....:**	999998	**Instrument ID..:**	MSG

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**127**	**(60 - 140)**			**SW846 8260B**
	133	**(60 - 140)**	**4.5**	**(0-35)**	**SW846 8260B**
Benzene	**117**	**(60 - 130)**			**SW846 8260B**
	120	**(60 - 130)**	**3.1**	**(0-35)**	**SW846 8260B**
Trichloroethene	**82**	**(60 - 140)**			**SW846 8260B**
	84	**(60 - 140)**	**1.4**	**(0-35)**	**SW846 8260B**
Toluene	**85**	**(60 - 130)**			**SW846 8260B**
	88	**(60 - 130)**	**3.4**	**(0-35)**	**SW846 8260B**
Chlorobenzene	**83**	**(60 - 130)**			**SW846 8260B**
	85	**(60 - 130)**	**3.0**	**(0-35)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	88	(60 - 140)
	95	(60 - 140)
1,2-Dichloroethane-d4	123	(60 - 140)
	127	(60 - 140)
Toluene-d8	95	(60 - 140)
	98	(60 - 140)

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 Volatiles

Client Lot #...:	E1E310275	**Work Order #...:**	ED74J1A4-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	E1E310275-004		ED74J1A5-MSD		
Date Sampled...:	05/31/01 13:15	**Date Received..:**	05/31/01 16:10	**MS Run #.....:**	1152086
Prep Date.....:	06/01/01	**Analysis Date..:**	06/01/01		
Prep Batch #...:	1152215	**Analysis Time..:**	02:30		
Dilution Factor:	1	**Analyst ID.....:**	001464	**Instrument ID..:**	G16

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
TPH (as Gasoline)	**105**	**(80 - 140)**			**SW846 8015B**
	104	**(80 - 140)**	**1.1**	**(0-40)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	118	(60 - 130)
	117	(60 - 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 Semivolatiles

Client Lot #...:	E1E310275	**Work Order #...:**	ED74J1A6-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	E1E310275-004		ED74J1A7-MSD		
Date Sampled...:	05/31/01 13:15	**Date Received..:**	05/31/01 16:10	**MS Run #.....:**	1152168
Prep Date.....:	06/01/01	**Analysis Date..:**	06/02/01		
Prep Batch #...:	1152340	**Analysis Time..:**	10:28		
Dilution Factor:	1	**Analyst ID.....:**	356074	**Instrument ID..:**	G02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
TPH (as Diesel)	**73**	**(60 - 130)**			**SW846 8015B**
	71	**(60 - 130)**	**3.2**	**(0-35)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	77	(60 - 130)
	75	(60 - 130)

NOTE(S):

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

Bold print denotes control parameters