APPENDIX D

Import Soil Technical Memorandum

HALEY & ALDRICH

BOEING REALTY CORPORATION
FORMER C-6 FACILITY
LOS ANGELES, CALIFORNIA

TECHNICAL MEMORANDUM

IMPORT SOIL EVALUATION
USE OF SOIL SOURCE AT CLIFTON AND CRESCENT
AS IMPORT TO PARCEL A

To: **Mr. Brian Mossman**
Boeing Realty Corporation
3855 Lakewood Blvd.
Building 1A MC D001-0097
Long Beach, CA 90846

From: **Haley & Aldrich, Inc.**

Date: **3 February, 2004**

Subject: **Import Soil Evaluation, Use of Soil Source at Clifton and Crescent as Import to Parcel A, Boeing Realty Corporation, Former C-6 Facility - Parcel A, Los Angeles, California**

Haley & Aldrich, Inc. is herein providing this technical memorandum to summarize our recommendations regarding the use of an identified potential soil source, herein referred to as Source Clifton and Crescent, as import to Parcel A of the Boeing Realty Corporation's (BRC's) Former C-6 Facility in Los Angeles, California (Site). Based on our review of the environmental information provided for the Clifton and Crescent import soil, this soil may be used as fill soil on Parcel A.

OVERVIEW/PURPOSE

A source of soil, totaling up to approximately 5,000 cubic yards, has been identified as potential import soil for use on Parcel A. Haley & Aldrich staff collected one representative soil sample from Source Clifton and Crescent and analyzed this sample in accordance with the protocol presented in the December 11, 2000 Import Soil Screening Program Plan prepared for Parcel C. The sample was taken in-situ from the northeast corner of the excavation approximately 10 feet below ground surface (bgs). This plan has been used as guidance to evaluate import soil from "off-Site" sources. The criteria presented in the plan were then compared to the analytical results of the soil sample. The purpose of this technical memorandum is to present a summary of the evaluation of the Source Clifton and Crescent soil and to provide recommendations for use as import fill for Parcel A.

LOCATION OF PROPOSED SOURCE CLIFTON AND CRESCENT IMPORT SOIL

The Source Clifton and Crescent potential import soil comprises approximately 5,000 cubic yards. Of this amount we propose to import approximately 2,000 cubic yards of soil to use as backfill for Parcel A. The

soil is located at the North corner of Clifton Way and North Crescent Drive in Beverly Hills, California. This soil will be excavated from beneath an existing residential apartment building. This property has reportedly been used as residential property with use as agricultural land prior to that.

COMPARISON OF ANALYTICAL RESULTS TO IMPORT SOIL GUIDANCE CRITERIA

The laboratory report for the soil sample collected from the subject potential source is presented as Attachment 1. The sample was analyzed for Title 22 metals, and various organic chemicals, including total petroleum hydrocarbons (TPHs), polynuclear aromatic hydrocarbons (PAHs), pesticides, polychlorinated biphenyls (PCBs) and volatile organic compounds (VOCs). A review of the laboratory results indicates that the organic chemical results are all below laboratory detection limits. A summary of the detected metals and their associated Site-specific soil import criteria are presented in Table 1.

Only one metal, molybdenum, was detected above the Southern California maximum regional background criteria. The result for molybdenum, 1.8 mg/kg, is below the Site-specific import soil criterion for this metal of 2.7 mg/kg.

RECOMMENDATIONS FOR USE AS IMPORT SOIL

Based on the results presented above, it is recommended that Source Clifton and Crescent be used as fill soil on Parcel A. The reported soil concentrations for organic compounds are consistent with the Site-specific criteria, and those for inorganic chemicals are consistent with the Site-specific and/or southern California background criteria, with the exception of molybdenum. Because the result for molybdenum is below the Site-specific import soil criteria it can be considered representative of background metals concentrations for the general geographic region from which these soils originated. In addition, the property from which the Source Clifton and Crescent soils originated has reportedly not been used for industrial activities, the sample as collected from an average depth, and no other typical indicators of contamination were present in the sample.

Sincerely yours,
HALEY & ALDRICH, INC.

Anita Broughton, CIH
Risk Assessment Task Manager

Scott Zachary
Project Manager

THE AMERICAN BOARD OF INDUSTRIAL HYGIENE
INCORPORATED
CERT. NO
5682 CP
EXPIRES
12-31-2004
PENNSYLVANIA - 1960
ANITA BRENCE BROUGHTON, CIH

Attachments:

Appendix A - Laboratory Report for Sample Taken at Crescent and Clifton
Appendix B - Table 1 Summary of Metals Results Listed With Site-Specific Import Soil Criteria and Southern California Import Soil Criteria

HALEY & ALDRICH

Appendix A

Laboratory Report for Sample Taken at Crescent and Clifton

Chain of Custody Record

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

STL-4124 (0901)

Client: HALEY & ALDRICH	Project Manager: SCOTT ZACHARY	Date: 1/16/2004	Chain of Custody Number: 142196
Address: 9040 FRIARS RD, SUITE 220	Telephone Number (Area Code)/Fax Number: 619-280-9210	Lab Number: ~~E4A~~ 160287	Page 1 of 1
City: SAN DIEGO; State: CA; Zip Code: 92108	Site Contact: T. HAMMOND	Lab Contact: D. SUZUKI	
Project Name and Location (State): CG PARCEL A	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.: 28882-403			

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: 40z Jar	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Encore	8260 (5035)	8015	8310	6010/7471	8270	8081 PESTICIDES							Special Instructions/ Conditions of Receipt
IMPORT_SOIL_CRESCENT_CLIFTON	1/16/04	8:30				X		3						3	X	X	X	X	X	X							24 HR TAT
TB_HA011604_0001	1/16/04	—		X							3																HOLD

Analysis (Attach list if more space is needed)

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 1 month)

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

QC Requirements (Specify):

1. Relinquished By	Date: 1/16/04	Time: 12:30	1. Received By	Date: 01/16/04	Time: 1230
2. Relinquished By	Date:	Time:	2. Received By	Date:	Time:
3. Relinquished By	Date:	Time:	3. Received By	Date:	Time:

Comments:

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

BOE-C6-0104375

STL LOS ANGELES - PROJECT RECEIPT CHECKLIST

Date: 01/16/04

LIMS Lot #: E4A160287 Quote #: 42295

Client Name: H & A Project: Boeing C6

Received by: AB Date/Time Received: 01/16/04 @ 1230

Delivered by : ☑ Client ☐ STL ☐ Airborne ☐ Fed Ex ☐ UPS ☐ Other

	Initial / Date
Custody Seal Status Cooler: ☐ Intact ☐ Broken ☑ None	AB 01/16/04
Custody Seal Status Samples: ☐ Intact ☐ Broken ☑ None	
Custody Seal #(s): ☐ No Seal #	
Sampler Signature on COC ☐ Yes ☐ No ☑ N/A	
IR Gun # A Correction Factor 0 °C IR passed daily verification ☐ Yes ☐ No	
Temperature - BLANK 13.3 °C +/- 0 CF = ____ °C	AB 01/16/04
Temperature – COOLER (____ °C ____ °C ____ °C ____ °C) = ____ avg °C +/- 0 CF = ____ °C	
Samples outside temperature criteria but received within 6 hours of final sampling ☑ Yes ☐ N/A	
Sample Container(s): ☑ STL-LA ☐ Client	
One COC/Multiple coolers: ☐ Yes- # coolers ____ All within temp criteria ☐ Yes ☐ No ☑ N/A	
One or more coolers with an anomaly: ☐ Yes – (fill out PRC for each) ☑ N/A	
Samples: ☑ Intact ☐ Broken ☐ Other	
pH measured: ☐ Yes ☐ Anomaly (if checked, notify lab and file NCM) ☑ N/A	
Anomalies: ☐ No ☐ Yes – complete CUR and Create NCM NCM #	
Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times. ☑ Yes ☐ N/A	
Labeled by: Anh Bui Labeling checked	

Turn Around Time: ☑ RUSH–24HR ☐ RUSH–48HR ☐ RUSH–72HR ☐ NORMAL ..... AB 01/16/04

Short-Hold Notification: ☐ pH ☐ Wet Chem ☐ Metals (Filter/Pres) ☒ Encore ☐ >1/2 HT expired... Q 01.16.04

Outside Analysis(es) (Test/Lab/Date Sent Out) :

_____

_____

_____

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

Headspace Anomaly ☒ N/A

Lab ID	Container(s) #	Headspace	Lab ID	Container(s) #	Headspace
		☐ > 5mm ☐ < 5mm			☐ > 5mm ☐ < 5mm
		☐ > 5mm ☐ < 5mm			☐ > 5mm ☐ < 5mm
		☐ > 5mm ☐ < 5mm			☐ > 5mm ☐ < 5mm
		☐ > 5mm ☐ < 5mm			☐ > 5mm ☐ < 5mm
		☐ > 5mm ☐ < 5mm			☐ > 5mm ☐ < 5mm
		☐ > 5mm ☐ < 5mm			☐ > 5mm ☐ < 5mm
		☐ > 5mm ☐ < 5mm			☐ > 5mm ☐ < 5mm

LIMS Lot # EA 160287

PROJECT RECEIPT CHECKLIST Cont'd

Fraction		2													pH
VOAH/ *		3													—
~~AGJ~~	3														—
En(5)	2														—
En(15)	1														

* VOA with headspace/bubbles

H: HCL, S: H2SO4, N: HNO3, V: VOA, SL, Sleeve, E: Encore, PB: Poly Bottle, CGB: Clear Glass Bottle, AGJ: Amber Glass Jar, T: Terracore
AGB: Amber Glass Bottle, n/f/l:HNO3-Lab filtered, n/f:HNO3-Field filtered, znna: Zinc Acetate/Sodium Hydroxide, Na2s2o3: sodium thiosulfate

Condition Upon Receipt Anomaly Form

☐ N/A _____

- **COOLERS**
  - ☐ Not Received (received COC only)
  - ☐ Leaking
  - ☐ Other:

TEMPERATURE (SPECS 4 ± 2°C)
- ☐ Cooler Temp(s)
- ☐ Temperature Blank(s)

- **CONTAINERS**
  - ☐ Leaking
  - ☐ Broken
  - ☐ Extra
  - ☐ Without Labels
  - ☐ Other:

- **CUSTODY SEALS (COOLER(S)**
  - ☐ None
  - ☐ Not Intact
  - ☐ Other

CONTAINER(S)
- ☐ None
- ☐ Not Intact
- ☐ Other

- **CHAIN OF CUSTODY (COC)**
  - ☐ Not relinquished by Client; No date/time relinquished
  - ☐ Incomplete information provided
  - ☐ Other ☐ COC not received – notify PM

- **LABELS**
  - ☐ Not the same ID/info as in COC
  - ☐ Incomplete Information
  - ☐ Markings/Info illegible
  - ☐ Torn

- **SAMPLES**
  - ☐ Samples NOT RECEIVED but listed on COC
  - ☐ Samples received but NOT LISTED on COC
  - ☐ Logged based on Label Information
  - ☐ Logged based on info from other samples on COC
  - ☐ Logged according to Work Plan
  - ☐ Logged on HOLD UNTIL FURTHER NOTICE

- ☐ Will be noted on COC--Client to send samples with new COC
- ☐ Mislabeled as to tests, preservatives, etc.
- ☐ Holding time expired – list sample ID and test
- ☐ Improper container used
- ☐ Not preserved/Improper preservative used
- ☐ Improper pH _____ Lab to preserve sample and document
- ☐ Insufficient quantities for analysis ☐ Other

Comments:

_____

_____

_____

_____

_____

☐ Corrective Action Implemented:

☐ Client Informed: verbally on _____ By: _____ ☐ In writing on _____ By: _____

☐ Sample(s) on hold until: _____ ☐ Sample(s) processed "as is."

Logged by/Date:	Log Review/Date:	PM Review/Date:
AB 01/16/04	1/16/04	01.16.04

EXECUTIVE SUMMARY - Detection Highlights

E4A160287

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
IMPORT_SOIL_CRESCENT_CLIFTON 01/16/04 08:30 001				
Aluminum	12600	20.0	mg/kg	SW846 6010B
Arsenic	11.5	1.0	mg/kg	SW846 6010B
Barium	72.5 J	2.0	mg/kg	SW846 6010B
Cadmium	0.60	0.50	mg/kg	SW846 6010B
Chromium	31.8	1.0	mg/kg	SW846 6010B
Beryllium	0.52	0.50	mg/kg	SW846 6010B
Lead	2.9	0.50	mg/kg	SW846 6010B
Selenium	1.4	0.50	mg/kg	SW846 6010B
Cobalt	5.9	5.0	mg/kg	SW846 6010B
Copper	19.7	2.5	mg/kg	SW846 6010B
Molybdenum	1.8 B	4.0	mg/kg	SW846 6010B
Nickel	20.5	4.0	mg/kg	SW846 6010B
Vanadium	48.0	5.0	mg/kg	SW846 6010B
Zinc	43.5	2.0	mg/kg	SW846 6010B
Percent Moisture	4.9	0.10	%	MCAWW 160.3 MOD

METHODS SUMMARY

E4A160287

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Extractable Petroleum Hydrocarbons	SW846 8015B	SANA AUTO-SHAKE
Inductively Coupled Plasma (ICP) Metals	SW846 6010B	SW846 3050B
Mercury in Solid Waste (Manual Cold-Vapor)	SW846 7471A	SW846 7471A
Organochlorine Pesticides	SW846 8081A	SW846 3550
Percent Moisture	MCAWW 160.3 MOD	MCAWW 160.3 MOD
Polynuclear Aromatic Hydrocarbons by HPLC	SW846 8310	SW846 3550
PCBs by SW-846 8082	SW846 8082	SW846 3550B/366
Semivolatile Organic Compounds by GC/MS	SW846 8270C	SW846 3550B
Volatile Organics by GC/MS	SW846 8260B	SW846 5035
Volatile Petroleum Hydrocarbons	SW846 8015B	SW846 5030

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

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

SAMPLE SUMMARY

E4A160287

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
F753M	001	IMPORT_SOIL_CRESCENT_CLIFTON	01/16/04	08:30

NOTE(S):

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

HALEY & ALDRICH INC

Client Sample ID: IMPORT_SOIL_CRESCENT_CLIFTON

GC/MS Volatiles

Lot-Sample #...: E4A160287-001 **Work Order #...:** F753M1A4 **Matrix.....:** SOLID
Date Sampled...: 01/16/04 08:30 **Date Received..:** 01/16/04 12:30 **MS Run #.....:**
Prep Date.....: 01/16/04 **Analysis Date..:** 01/16/04
Prep Batch #...: 4016484 **Analysis Time..:** 14:16
Dilution Factor: 0.86
Analyst ID.....: 004648 **Instrument ID..:** MSN
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	23	ug/kg	14
Benzene	ND	4.5	ug/kg	1.8
Bromobenzene	ND	4.5	ug/kg	1.8
Bromochloromethane	ND	4.5	ug/kg	0.90
Bromoform	ND	4.5	ug/kg	2.7
Bromomethane	ND	9.0	ug/kg	1.8
2-Butanone	ND	23	ug/kg	14
n-Butylbenzene	ND	4.5	ug/kg	1.8
sec-Butylbenzene	ND	4.5	ug/kg	1.8
tert-Butylbenzene	ND	4.5	ug/kg	1.8
Carbon disulfide	ND	4.5	ug/kg	1.8
Carbon tetrachloride	ND	4.5	ug/kg	0.90
Chlorobenzene	ND	4.5	ug/kg	1.8
Dibromochloromethane	ND	4.5	ug/kg	4.5
Bromodichloromethane	ND	4.5	ug/kg	0.90
Chloroethane	ND	9.0	ug/kg	1.8
Chloroform	ND	4.5	ug/kg	0.90
Chloromethane	ND	9.0	ug/kg	2.7
2-Chlorotoluene	ND	4.5	ug/kg	1.8
4-Chlorotoluene	ND	4.5	ug/kg	1.8
1,2-Dibromo-3-chloro-propane	ND	9.0	ug/kg	2.7
1,2-Dibromoethane (EDB)	ND	4.5	ug/kg	2.7
Dibromomethane	ND	4.5	ug/kg	0.90
1,2-Dichlorobenzene	ND	4.5	ug/kg	1.8
1,3-Dichlorobenzene	ND	4.5	ug/kg	1.8
1,4-Dichlorobenzene	ND	4.5	ug/kg	1.8
Dichlorodifluoromethane	ND	9.0	ug/kg	0.90
1,1-Dichloroethane	ND	4.5	ug/kg	0.90
1,2-Dichloroethane	ND	4.5	ug/kg	0.90
1,1-Dichloroethene	ND	4.5	ug/kg	1.8
cis-1,2-Dichloroethene	ND	4.5	ug/kg	1.8
trans-1,2-Dichloroethene	ND	4.5	ug/kg	1.8
1,2-Dichloropropane	ND	4.5	ug/kg	0.90
1,3-Dichloropropane	ND	4.5	ug/kg	2.7
2,2-Dichloropropane	ND	4.5	ug/kg	1.8
1,1-Dichloropropene	ND	4.5	ug/kg	0.90

(Continued on next page)

HALEY & ALDRICH INC

Client Sample ID: IMPORT_SOIL_CRESCENT_CLIFTON

GC/MS Volatiles

Lot-Sample #...: E4A160287-001 **Work Order #...:** F753M1A4 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	4.5	ug/kg	0.90
trans-1,3-Dichloropropene	ND	4.5	ug/kg	2.7
Ethylbenzene	ND	4.5	ug/kg	1.8
Hexachlorobutadiene	ND	4.5	ug/kg	1.8
2-Hexanone	ND	23	ug/kg	9.0
Isopropylbenzene	ND	4.5	ug/kg	1.8
p-Isopropyltoluene	ND	4.5	ug/kg	1.8
Methylene chloride	ND	4.5	ug/kg	2.7
4-Methyl-2-pentanone	ND	23	ug/kg	9.0
Methyl tert-butyl ether	ND	4.5	ug/kg	0.90
Naphthalene	ND	4.5	ug/kg	1.8
n-Propylbenzene	ND	4.5	ug/kg	1.8
Styrene	ND	9.0	ug/kg	1.8
1,1,1,2-Tetrachloroethane	ND	4.5	ug/kg	2.7
1,1,2,2-Tetrachloroethane	ND	4.5	ug/kg	2.7
Tetrachloroethene	ND	4.5	ug/kg	1.8
Toluene	ND	4.5	ug/kg	1.8
1,2,3-Trichlorobenzene	ND	4.5	ug/kg	1.8
1,2,4-Trichloro-benzene	ND	4.5	ug/kg	1.8
1,1,1-Trichloroethane	ND	4.5	ug/kg	0.90
1,1,2-Trichloroethane	ND	4.5	ug/kg	2.7
Trichloroethene	ND	4.5	ug/kg	1.8
Trichlorofluoromethane	ND	9.0	ug/kg	1.8
1,2,3-Trichloropropane	ND	4.5	ug/kg	2.7
1,1,2-Trichlorotrifluoro-ethane	ND	4.5	ug/kg	2.7
1,2,4-Trimethylbenzene	ND	4.5	ug/kg	1.8
1,3,5-Trimethylbenzene	ND	4.5	ug/kg	1.8
Vinyl chloride	ND	9.0	ug/kg	1.8
m-Xylene & p-Xylene	ND	4.5	ug/kg	2.7
o-Xylene	ND	4.5	ug/kg	1.8
Xylenes (total)	ND	4.5	ug/kg	2.7

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	90	(60 - 130)
1,2-Dichloroethane-d4	85	(60 - 140)
Toluene-d8	88	(70 - 130)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

HALEY & ALDRICH INC

Client Sample ID: IMPORT_SOIL_CRESCENT_CLIFTON

GC/MS Semivolatiles

Lot-Sample #...: E4A160287-001 **Work Order #...:** F753M1AD **Matrix.....:** SOLID
Date Sampled...: 01/16/04 08:30 **Date Received..:** 01/16/04 12:30 **MS Run #.....:** 4016270
Prep Date.....: 01/16/04 **Analysis Date..:** 01/20/04
Prep Batch #...: 4016559 **Analysis Time..:** 18:35
Dilution Factor: 1
Analyst ID.....: 007050 **Instrument ID..:** MSI
Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	330	ug/kg	100
Acenaphthylene	ND	330	ug/kg	100
Anthracene	ND	330	ug/kg	80
Benzo(a)anthracene	ND	330	ug/kg	100
Benzo(b)fluoranthene	ND	330	ug/kg	100
Benzo(k)fluoranthene	ND	330	ug/kg	200
Benzo(ghi)perylene	ND	330	ug/kg	150
Benzo(a)pyrene	ND	330	ug/kg	70
Benzoic acid	ND	1600	ug/kg	500
Benzyl alcohol	ND	330	ug/kg	150
bis(2-Chloroethoxy) methane	ND	330	ug/kg	100
bis(2-Chloroethyl)-ether	ND	330	ug/kg	100
bis(2-Chloroisopropyl) ether	ND	330	ug/kg	110
bis(2-Ethylhexyl) phthalate	ND	330	ug/kg	200
4-Bromophenyl phenyl ether	ND	330	ug/kg	80
Butyl benzyl phthalate	ND	330	ug/kg	170
Carbazole	ND	330	ug/kg	80
4-Chloroaniline	ND	330	ug/kg	230
4-Chloro-3-methylphenol	ND	330	ug/kg	100
2-Chloronaphthalene	ND	330	ug/kg	100
2-Chlorophenol	ND	330	ug/kg	150
4-Chlorophenyl phenyl ether	ND	330	ug/kg	90
Chrysene	ND	330	ug/kg	100
Dibenz(a,h)anthracene	ND	330	ug/kg	100
Dibenzofuran	ND	330	ug/kg	90
Di-n-butyl phthalate	ND	330	ug/kg	290
1,2-Dichlorobenzene	ND	330	ug/kg	130
1,3-Dichlorobenzene	ND	330	ug/kg	130
1,4-Dichlorobenzene	ND	330	ug/kg	130
3,3'-Dichlorobenzidine	ND	1600	ug/kg	400
2,4-Dichlorophenol	ND	330	ug/kg	90

(Continued on next page)

HALEY & ALDRICH INC

Client Sample ID: IMPORT_SOIL_CRESCENT_CLIFTON

GC/MS Semivolatiles

Lot-Sample #...: E4A160287-001 **Work Order #...:** F753M1AD **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Diethyl phthalate	ND	330	ug/kg	100
2,4-Dimethylphenol	ND	330	ug/kg	120
Dimethyl phthalate	ND	330	ug/kg	80
4,6-Dinitro-2-methylphenol	ND	1600	ug/kg	300
2,4-Dinitrophenol	ND	1600	ug/kg	500
2,4-Dinitrotoluene	ND	330	ug/kg	100
2,6-Dinitrotoluene	ND	330	ug/kg	90
Di-n-octyl phthalate	ND	330	ug/kg	130
Fluoranthene	ND	330	ug/kg	70
Fluorene	ND	330	ug/kg	90
Hexachlorobenzene	ND	330	ug/kg	80
Hexachlorobutadiene	ND	330	ug/kg	100
Hexachlorocyclopentadiene	ND	1600	ug/kg	370
Hexachloroethane	ND	330	ug/kg	130
Indeno(1,2,3-cd)pyrene	ND	330	ug/kg	100
Isophorone	ND	330	ug/kg	100
2-Methylnaphthalene	ND	330	ug/kg	90
2-Methylphenol	ND	330	ug/kg	120
3-Methylphenol & 4-Methylphenol	ND	330	ug/kg	150
Naphthalene	ND	330	ug/kg	90
2-Nitroaniline	ND	1600	ug/kg	300
3-Nitroaniline	ND	1600	ug/kg	350
4-Nitroaniline	ND	1600	ug/kg	300
Nitrobenzene	ND	330	ug/kg	150
2-Nitrophenol	ND	330	ug/kg	100
4-Nitrophenol	ND	1600	ug/kg	600
N-Nitrosodiphenylamine	ND	330	ug/kg	110
N-Nitrosodi-n-propylamine	ND	330	ug/kg	90
Pentachlorophenol	ND	1600	ug/kg	420
Phenanthrene	ND	330	ug/kg	80
Phenol	ND	330	ug/kg	130
Pyrene	ND	330	ug/kg	120
1,2,4-Trichlorobenzene	ND	330	ug/kg	100
2,4,5-Trichlorophenol	ND	330	ug/kg	100
2,4,6-Trichlorophenol	ND	330	ug/kg	70

(Continued on next page)

HALEY & ALDRICH INC

Client Sample ID: IMPORT_SOIL_CRESCENT_CLIFTON

GC/MS Semivolatiles

Lot-Sample #...: E4A160287-001 **Work Order #...:** F753M1AD **Matrix.....:** SOLID

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	70	(35 - 140)
2-Fluorophenol	67	(35 - 125)
2,4,6-Tribromophenol	62	(25 - 135)
Nitrobenzene-d5	67	(35 - 130)
Phenol-d5	69	(35 - 130)
Terphenyl-d14	63	(35 - 150)

HALEY & ALDRICH INC

IMPORT_SOIL_CRESCENT_CLIFTON

GC/MS Semivolatiles

Lot-Sample #: E4A160287-001 **Work Order #:** F753M1AD **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/kg

HALEY & ALDRICH INC

Client Sample ID: IMPORT_SOIL_CRESCENT_CLIFTON

GC Volatiles

Lot-Sample #...:	E4A160287-001	**Work Order #...:**	F753M1AC	**Matrix.....:**	SOLID
Date Sampled...:	01/16/04 08:30	**Date Received..:**	01/16/04 12:30	**MS Run #.....:**	4020187
Prep Date.....:	01/16/04	**Analysis Date..:**	01/16/04		
Prep Batch #...:	4020371	**Analysis Time..:**	15:02		
Dilution Factor:	1				
Analyst ID.....:	356074	**Instrument ID..:**	G15		
		Method.....:	SW846 8015B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C6-C8	ND	1.0	mg/kg	0.20

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	85	(70 - 130)

HALEY & ALDRICH INC

Client Sample ID: IMPORT_SOIL_CRESCENT_CLIFTON

GC Semivolatiles

Lot-Sample #...:	E4A160287-001	**Work Order #...:**	F753M1AA	**Matrix.....:**	SOLID
Date Sampled...:	01/16/04 08:30	**Date Received..:**	01/16/04 12:30	**MS Run #.....:**	4016265
Prep Date.....:	01/16/04	**Analysis Date..:**	01/19/04		
Prep Batch #...:	4016556	**Analysis Time..:**	20:58		
Dilution Factor:	1				
Analyst ID.....:	356074	**Instrument ID..:**	G02		
		Method.....:	SW846 8015B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C8-C9		**10**	**mg/kg**	**4.0**
C10-C11		**10**	**mg/kg**	**4.0**
C12-C13		**10**	**mg/kg**	**4.0**
C14-C15		**10**	**mg/kg**	**4.0**
C16-C17		**10**	**mg/kg**	**4.0**
C18-C19		**10**	**mg/kg**	**4.0**
C20-C23		**10**	**mg/kg**	**4.0**
C24-C27		**10**	**mg/kg**	**4.0**
C28-C31		**10**	**mg/kg**	**4.0**
C32-C35		**10**	**mg/kg**	**4.0**
C36-C39		**10**	**mg/kg**	**4.0**
C40+		**10**	**mg/kg**	**4.0**
Total Carbon Chain Range		**10**	**mg/kg**	**4.0**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	95	(60 - 125)

HALEY & ALDRICH INC

Client Sample ID: IMPORT_SOIL_CRESCENT_CLIFTON

GC Semivolatiles

Lot-Sample #...: E4A160287-001 **Work Order #...:** F753M2AA **Matrix.....:** SOLID
Date Sampled...: 01/16/04 08:30 **Date Received..:** 01/16/04 12:30 **MS Run #.....:** 4020071
Prep Date.....: 01/19/04 **Analysis Date..:** 01/19/04
Prep Batch #...: 4020216 **Analysis Time..:** 20:14
Dilution Factor: 1
Analyst ID.....: 356074 **Instrument ID..:** G02
Method.....: SW846 8015B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C8-C9	ND	10	mg/kg	4.0
C10-C11	ND	10	mg/kg	4.0
C12-C13	ND	10	mg/kg	4.0
C14-C15	ND	10	mg/kg	4.0
C16-C17	ND	10	mg/kg	4.0
C18-C19	ND	10	mg/kg	4.0
C20-C23	ND	10	mg/kg	4.0
C24-C27	ND	10	mg/kg	4.0
C32-C35	ND	10	mg/kg	4.0
C36-C39	ND	10	mg/kg	4.0
C40+	ND	10	mg/kg	4.0
Total Carbon Chain Range	ND	10	mg/kg	4.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	80	(60 - 125)

HALEY & ALDRICH INC

Client Sample ID: IMPORT_SOIL_CRESCENT_CLIFTON

GC Semivolatiles

Lot-Sample #...: E4A160287-001 **Work Order #...:** F753M1A1 **Matrix.....:** SOLID
Date Sampled...: 01/16/04 08:30 **Date Received..:** 01/16/04 12:30 **MS Run #.....:** 4016267
Prep Date.....: 01/16/04 **Analysis Date..:** 01/19/04
Prep Batch #...: 4016557 **Analysis Time..:** 11:29
Dilution Factor: 1
Analyst ID.....: 018568 **Instrument ID..:** G5B
Method.....: SW846 8081A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aldrin	ND	1.7	ug/kg	0.80
alpha-BHC	ND	1.7	ug/kg	0.70
alpha-Chlordane	ND	1.7	ug/kg	1.0
beta-BHC	ND	1.7	ug/kg	0.50
delta-BHC	ND	1.7	ug/kg	0.50
4,4'-DDD	ND	3.3	ug/kg	0.50
4,4'-DDE	ND	3.3	ug/kg	0.50
4,4'-DDT	ND	3.3	ug/kg	0.70
Dieldrin	ND	1.7	ug/kg	1.0
Endrin	ND	3.3	ug/kg	0.60
Endrin aldehyde	ND	6.0	ug/kg	3.4
gamma-BHC (Lindane)	ND	1.7	ug/kg	0.50
gamma-Chlordane	ND	2.0	ug/kg	1.0
Endosulfan I	ND	1.7	ug/kg	1.0
Endosulfan II	ND	3.3	ug/kg	0.50
Endosulfan sulfate	ND	1.7	ug/kg	0.50
Heptachlor	ND	1.7	ug/kg	0.80
Heptachlor epoxide	ND	1.7	ug/kg	0.50
Methoxychlor	ND	17	ug/kg	5.0
Toxaphene	ND	67	ug/kg	35

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	97	(35 - 140)
Decachlorobiphenyl	107	(65 - 135)

HALEY & ALDRICH INC

IMPORT_SOIL_CRESCENT_CLIFTON

GC Semivolatiles

Lot-Sample #: E4A160287-001 **Work Order #:** F753M1A1 **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/kg

HALEY & ALDRICH INC

Client Sample ID: IMPORT_SOIL_CRESCENT_CLIFTON

GC Semivolatiles

Lot-Sample #...: E4A160287-001 **Work Order #...:** F753M1DL **Matrix.....:** SOLID
Date Sampled...: 01/16/04 08:30 **Date Received..:** 01/16/04 12:30 **MS Run #.....:** 4020280
Prep Date.....: 01/20/04 **Analysis Date..:** 01/20/04
Prep Batch #...: 4020574 **Analysis Time..:** 17:23
Dilution Factor: 1
Analyst ID.....: 018568 **Instrument ID..:** G8B
Method.....: SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	33	ug/kg	20
Aroclor 1221	ND	33	ug/kg	20
Aroclor 1232	ND	33	ug/kg	20
Aroclor 1242	ND	33	ug/kg	20
Aroclor 1248	ND	33	ug/kg	20
Aroclor 1254	ND	33	ug/kg	20
Aroclor 1260	ND	33	ug/kg	20

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	108	(60 - 140)
Tetrachloro-m-xylene	105	(50 - 140)

HALEY & ALDRICH INC

Client Sample ID: IMPORT_SOIL_CRESCENT_CLIFTON

HPLC

Lot-Sample #...: E4A160287-001 **Work Order #...:** F753M1A2 **Matrix.....:** SOLID
Date Sampled...: 01/16/04 08:30 **Date Received..:** 01/16/04 12:30 **MS Run #.....:** 4016268
Prep Date.....: 01/16/04 **Analysis Date..:** 01/17/04
Prep Batch #...: 4016558 **Analysis Time..:** 14:40
Dilution Factor: 1
Analyst ID.....: 004357 **Instrument ID..:** HPLC1
Method.....: SW846 8310

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Fluoranthene	ND	5.0	ug/kg	2.0
Fluorene	ND	10	ug/kg	3.0
Acenaphthylene	ND	20	ug/kg	10
Anthracene	ND	5.0	ug/kg	2.0
Benzo(a)anthracene	ND	10	ug/kg	3.0
Benzo(b)fluoranthene	ND	10	ug/kg	5.0
Benzo(k)fluoranthene	ND	5.0	ug/kg	1.0
Benzo(ghi)perylene	ND	5.0	ug/kg	2.0
Benzo(a)pyrene	ND	5.0	ug/kg	2.0
Chrysene	ND	5.0	ug/kg	2.0
Dibenz(a,h)anthracene	ND	15	ug/kg	6.0
Acenaphthene	ND	30	ug/kg	15
Indeno(1,2,3-cd)pyrene	ND	5.0	ug/kg	2.0
Naphthalene	ND	20	ug/kg	10
Phenanthrene	ND	5.0	ug/kg	2.0
Pyrene	ND	15	ug/kg	6.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
p-Terphenyl	102	(50 - 150)

HALEY & ALDRICH INC

Client Sample ID: IMPORT_SOIL_CRESCENT_CLIFTON

TOTAL Metals

Lot-Sample #...: E4A160287-001 **Matrix.....:** SOLID
Date Sampled...: 01/16/04 08:30 **Date Received..:** 01/16/04 12:30

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4016462						
Aluminum	**12600**	**20.0**	**mg/kg**	**SW846 6010B**	**01/16/04**	**F753M1AE**
		Dilution Factor: 1		Analysis Time..: 19:30	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 4016202	MDL.....: 8.0	
Arsenic	**11.5**	**1.0**	**mg/kg**	**SW846 6010B**	**01/16/04**	**F753M1AF**
		Dilution Factor: 1		Analysis Time..: 19:30	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 4016202	MDL.....: 0.40	
Antimony	ND	6.0	mg/kg	SW846 6010B	01/16/04	F753M1AG
		Dilution Factor: 1		Analysis Time..: 19:30	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 4016202	MDL.....: 0.60	
Barium	**72.5 J**	**2.0**	**mg/kg**	**SW846 6010B**	**01/16/04**	**F753M1AH**
		Dilution Factor: 1		Analysis Time..: 19:30	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 4016202	MDL.....: 0.10	
Cadmium	**0.60**	**0.50**	**mg/kg**	**SW846 6010B**	**01/16/04**	**F753M1A**
		Dilution Factor: 1		Analysis Time..: 19:30	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 4016202	MDL.....: 0.060	
Chromium	**31.8**	**1.0**	**mg/kg**	**SW846 6010B**	**01/16/04**	**F753M1AK**
		Dilution Factor: 1		Analysis Time..: 19:30	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 4016202	MDL.....: 0.10	
Beryllium	**0.52**	**0.50**	**mg/kg**	**SW846 6010B**	**01/16/04**	**F753M1AL**
		Dilution Factor: 1		Analysis Time..: 19:30	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 4016202	MDL.....: 0.050	
Lead	**2.9**	**0.50**	**mg/kg**	**SW846 6010B**	**01/16/04**	**F753M1AM**
		Dilution Factor: 1		Analysis Time..: 19:30	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 4016202	MDL.....: 0.30	
Selenium	**1.4**	**0.50**	**mg/kg**	**SW846 6010B**	**01/16/04**	**F753M1AN**
		Dilution Factor: 1		Analysis Time..: 19:30	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 4016202	MDL.....: 0.40	

(Continued on next page)

HALEY & ALDRICH INC

Client Sample ID: IMPORT_SOIL_CRESCENT_CLIFTON

TOTAL Metals

Lot-Sample #...: E4A160287-001 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Silver	ND	1.0	mg/kg	SW846 6010B	01/16/04	F753M1AP
		Dilution Factor: 1		Analysis Time..: 19:30	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 4016202	MDL.....: 0.10	
Cobalt	**5.9**	**5.0**	**mg/kg**	**SW846 6010B**	**01/16/04**	**F753M1AQ**
		Dilution Factor: 1		Analysis Time..: 19:30	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 4016202	MDL.....: 0.10	
Copper	**19.7**	**2.5**	**mg/kg**	**SW846 6010B**	**01/16/04**	**F753M1AR**
		Dilution Factor: 1		Analysis Time..: 19:30	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 4016202	MDL.....: 0.40	
Molybdenum	**1.8 B**	**4.0**	**mg/kg**	**SW846 6010B**	**01/16/04**	**F753M1AT**
		Dilution Factor: 1		Analysis Time..: 19:30	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 4016202	MDL.....: 0.30	
Nickel	**20.5**	**4.0**	**mg/kg**	**SW846 6010B**	**01/16/04**	**F753M1AU**
		Dilution Factor: 1		Analysis Time..: 19:30	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 4016202	MDL.....: 0.30	
Thallium	ND	1.0	mg/kg	SW846 6010B	01/16/04	F753M1AV
		Dilution Factor: 1		Analysis Time..: 19:30	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 4016202	MDL.....: 0.50	
Vanadium	**48.0**	**5.0**	**mg/kg**	**SW846 6010B**	**01/16/04**	**F753M1AW**
		Dilution Factor: 1		Analysis Time..: 19:30	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 4016202	MDL.....: 0.10	
Zinc	**43.5**	**2.0**	**mg/kg**	**SW846 6010B**	**01/16/04**	**F753M1AX**
		Dilution Factor: 1		Analysis Time..: 19:30	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 4016202	MDL.....: 1.0	

Prep Batch #...: 4019225

Mercury	ND	0.10	mg/kg	SW846 7471A	01/19/04	F753M1A0
		Dilution Factor: 1		Analysis Time..: 13:53	Analyst ID.....: 000023	
		Instrument ID..: M04		MS Run #.....: 4020305	MDL.....: 0.020	

NOTE(S):

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

HALEY & ALDRICH INC

Client Sample ID: IMPORT_SOIL_CRESCENT_CLIFTON

General Chemistry

Lot-Sample #...: E4A160287-001 **Work Order #...:** F753M **Matrix.....:** SOLID
Date Sampled...: 01/16/04 08:30 **Date Received..:** 01/16/04 12:30

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**4.9**	**0.10**	**%**	**MCAWW 160.3 MOD**	**01/16-01/17/04**	**4016480**

Dilution Factor: 1 Analysis Time..: 16:45 Analyst ID.....: 021088
Instrument ID..: W15 MS Run #.....: 4016232 MDL.....:

QC DATA ASSOCIATION SUMMARY

E4A160287

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	SOLID	SW846 8015B		4016556	4016265
	SOLID	SW846 8015B		4020216	4020071
	SOLID	SW846 8015B		4020371	4020187
	SOLID	SW846 7471A		4019225	4020305
	SOLID	SW846 8082		4020574	4020280
	SOLID	SW846 8081A		4016557	4016267
	SOLID	SW846 8260B		4016484	
	SOLID	SW846 8270C		4016559	4016270
	SOLID	SW846 6010B		4016462	4016202
	SOLID	SW846 8310		4016558	4016268
	SOLID	MCAWW 160.3 MOD		4016480	4016232

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E4A160287
MB Lot-Sample #: E4A160000-484
Analysis Date..: 01/16/04
Dilution Factor: 1

Work Order #...: F76E71AA
Prep Date.....: 01/16/04
Prep Batch #...: 4016484
Analyst ID.....: 004648

Matrix.....: SOLID
Analysis Time..: 10:53
Instrument ID..: MSN

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	ND	25	ug/kg	SW846 8260B
Benzene	ND	5.0	ug/kg	SW846 8260B
Bromobenzene	ND	5.0	ug/kg	SW846 8260B
Bromochloromethane	ND	5.0	ug/kg	SW846 8260B
Bromoform	ND	5.0	ug/kg	SW846 8260B
Bromomethane	ND	10	ug/kg	SW846 8260B
2-Butanone	ND	25	ug/kg	SW846 8260B
n-Butylbenzene	ND	5.0	ug/kg	SW846 8260B
sec-Butylbenzene	ND	5.0	ug/kg	SW846 8260B
tert-Butylbenzene	ND	5.0	ug/kg	SW846 8260B
Carbon disulfide	ND	5.0	ug/kg	SW846 8260B
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260B
Chlorobenzene	ND	5.0	ug/kg	SW846 8260B
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260B
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260B
Chloroethane	ND	10	ug/kg	SW846 8260B
Chloroform	ND	5.0	ug/kg	SW846 8260B
Chloromethane	ND	10	ug/kg	SW846 8260B
2-Chlorotoluene	ND	5.0	ug/kg	SW846 8260B
4-Chlorotoluene	ND	5.0	ug/kg	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	SW846 8260B
1,2-Dibromoethane (EDB)	ND	5.0	ug/kg	SW846 8260B
Dibromomethane	ND	5.0	ug/kg	SW846 8260B
1,2-Dichlorobenzene	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
Dichlorodifluoromethane	ND	10	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
cis-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
trans-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
1,3-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
2,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
Ethylbenzene	ND	5.0	ug/kg	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E4A160287 **Work Order #...:** F76E71AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Hexachlorobutadiene	ND	5.0	ug/kg	SW846 8260B
2-Hexanone	ND	25	ug/kg	SW846 8260B
Isopropylbenzene	ND	5.0	ug/kg	SW846 8260B
p-Isopropyltoluene	ND	5.0	ug/kg	SW846 8260B
Methylene chloride	ND	5.0	ug/kg	SW846 8260B
4-Methyl-2-pentanone	ND	25	ug/kg	SW846 8260B
Methyl tert-butyl ether	ND	5.0	ug/kg	SW846 8260B
Naphthalene	ND	5.0	ug/kg	SW846 8260B
n-Propylbenzene	ND	5.0	ug/kg	SW846 8260B
Styrene	ND	10	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
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260B
Toluene	ND	5.0	ug/kg	SW846 8260B
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	SW846 8260B
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	SW846 8260B
,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
Trichloroethene	ND	5.0	ug/kg	SW846 8260B
Trichlorofluoromethane	ND	10	ug/kg	SW846 8260B
1,2,3-Trichloropropane	ND	5.0	ug/kg	SW846 8260B
1,1,2-Trichlorotrifluoro-ethane	ND	5.0	ug/kg	SW846 8260B
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	SW846 8260B
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	SW846 8260B
Vinyl chloride	ND	10	ug/kg	SW846 8260B
m-Xylene & p-Xylene	ND	5.0	ug/kg	SW846 8260B
o-Xylene	ND	5.0	ug/kg	SW846 8260B
Xylenes (total)	ND	5.0	ug/kg	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	91	(60 - 130)
1,2-Dichloroethane-d4	87	(60 - 140)
Toluene-d8	86	(70 - 130)

NOTE(S):

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

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: E4A160287 **Work Order #...:** F76VJ1AA **Matrix.....:** SOLID
MB Lot-Sample #: E4A160000-559

Prep Date.....: 01/16/04 **Analysis Time..:** 17:27
Analysis Date..: 01/20/04 **Prep Batch #...:** 4016559 **Instrument ID..:** MSI
Dilution Factor: 1

Analyst ID.....: 007050

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acenaphthene	ND	330	ug/kg	SW846 8270C
Acenaphthylene	ND	330	ug/kg	SW846 8270C
Anthracene	ND	330	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
Benzo(ghi)perylene	ND	330	ug/kg	SW846 8270C
Benzo(a)pyrene	ND	330	ug/kg	SW846 8270C
Benzoic acid	ND	1600	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
Carbazole	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
Dimethyl phthalate	ND	330	ug/kg	SW846 8270C

(Continued on next page)

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: E4A160287 **Work Order #...:** F76VJ1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
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
Di-n-octyl phthalate	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
-Methylphenol & 4-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-Nitrosodiphenylamine	ND	330	ug/kg	SW846 8270C
N-Nitrosodi-n-propylamine	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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	84	(35 - 140)
-Fluorophenol	81	(35 - 125)
2,4,6-Tribromophenol	75	(25 - 135)

(Continued on next page)

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: E4A160287 **Work Order #...:** F76VJ1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Nitrobenzene-d5	83	(35 - 130)		
Phenol-d5	80	(35 - 130)		
Terphenyl-d14	73	(35 - 150)		

NOTE(S):

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

HALEY & ALDRICH INC

Method Blank Report

GC/MS Semivolatiles

Lot-Sample #: E4A160000-559 B **Work Order #:** F76VJ1AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/kg

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: E4A160287
MB Lot-Sample #: E4A200000-371

Analysis Date..: 01/16/04
Dilution Factor: 1

Work Order #...: F78VC1AA

Prep Date.....: 01/16/04
Prep Batch #...: 4020371

Analyst ID.....: 356074

Matrix.....: SOLID

Analysis Time..: 12:45
Instrument ID..: G15

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	(70 - 130)

NOTE(S):

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

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: E4A160287
MB Lot-Sample #: E4A200000-216
Analysis Date..: 01/19/04
Dilution Factor: 1

Work Order #...: F78E51AA
Prep Date.....: 01/19/04
Prep Batch #...: 4020216
Analyst ID.....: 356074

Matrix.....: SOLID
Analysis Time..: 18:46
Instrument ID..: G02

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
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	94	(60 - 125)

NOTE(S):

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

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: E4A160287
MB Lot-Sample #: E4A160000-557
Analysis Date..: 01/19/04
Dilution Factor: 1

Work Order #...: F76VF1AA
Prep Date.....: 01/16/04
Prep Batch #...: 4016557
Analyst ID.....: 018568

Matrix.....: SOLID
Analysis Time..: 10:19
Instrument ID..: G5B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aldrin	ND	1.7	ug/kg	SW846 8081A
alpha-BHC	ND	1.7	ug/kg	SW846 8081A
alpha-Chlordane	ND	1.7	ug/kg	SW846 8081A
beta-BHC	ND	1.7	ug/kg	SW846 8081A
delta-BHC	ND	1.7	ug/kg	SW846 8081A
4,4'-DDD	ND	3.3	ug/kg	SW846 8081A
4,4'-DDE	ND	3.3	ug/kg	SW846 8081A
4,4'-DDT	ND	3.3	ug/kg	SW846 8081A
Dieldrin	ND	1.7	ug/kg	SW846 8081A
Endrin	ND	3.3	ug/kg	SW846 8081A
Endrin aldehyde	ND	6.0	ug/kg	SW846 8081A
gamma-BHC (Lindane)	ND	1.7	ug/kg	SW846 8081A
gamma-Chlordane	ND	2.0	ug/kg	SW846 8081A
Endosulfan I	ND	1.7	ug/kg	SW846 8081A
Endosulfan II	ND	3.3	ug/kg	SW846 8081A
Endosulfan sulfate	ND	1.7	ug/kg	SW846 8081A
Heptachlor	ND	1.7	ug/kg	SW846 8081A
Heptachlor epoxide	ND	1.7	ug/kg	SW846 8081A
Methoxychlor	ND	17	ug/kg	SW846 8081A
Toxaphene	ND	67	ug/kg	SW846 8081A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	81	(35 - 140)
Decachlorobiphenyl	99	(65 - 135)

NOTE(S):

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

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: E4A160287
MB Lot-Sample #: E4A200000-574
Analysis Date..: 01/20/04
Dilution Factor: 1

Work Order #...: F79PC1AA
Prep Date.....: 01/20/04
Prep Batch #...: 4020574
Analyst ID.....: 018568

Matrix.....: SOLID
Analysis Time..: 15:18
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	108	(60 - 140)
Tetrachloro-m-xylene	108	(50 - 140)

NOTE(S):

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

METHOD BLANK REPORT

HPLC

Client Lot #...: E4A160287
MB Lot-Sample #: E4A160000-558
Analysis Date..: 01/17/04
Dilution Factor: 1

Work Order #...: F76VG1AA
Prep Date.....: 01/16/04
Prep Batch #...: 4016558
Analyst ID.....: 004357

Matrix.....: SOLID
Analysis Time..: 13:36
Instrument ID..: HPLC1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acenaphthene	ND	30	ug/kg	SW846 8310
Acenaphthylene	ND	20	ug/kg	SW846 8310
Anthracene	ND	5.0	ug/kg	SW846 8310
Benzo(a)anthracene	ND	10	ug/kg	SW846 8310
Benzo(b)fluoranthene	ND	10	ug/kg	SW846 8310
Benzo(k)fluoranthene	ND	5.0	ug/kg	SW846 8310
Benzo(ghi)perylene	ND	5.0	ug/kg	SW846 8310
Benzo(a)pyrene	ND	5.0	ug/kg	SW846 8310
Chrysene	ND	5.0	ug/kg	SW846 8310
Dibenz(a,h)anthracene	ND	15	ug/kg	SW846 8310
Fluoranthene	ND	5.0	ug/kg	SW846 8310
Fluorene	ND	10	ug/kg	SW846 8310
Indeno(1,2,3-cd)pyrene	ND	5.0	ug/kg	SW846 8310
Naphthalene	ND	20	ug/kg	SW846 8310
Phenanthrene	ND	5.0	ug/kg	SW846 8310
Pyrene	ND	15	ug/kg	SW846 8310

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
p-Terphenyl	108	(50 - 150)

NOTE(S):

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

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: E4A160287 **Matrix.....:** SOLID

MB Lot-Sample #: E4A160000-462 **Prep Batch #...:** 4016462

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Aluminum	ND	20.0	mg/kg	SW846 6010B	01/16/04	F759D1AA
		Dilution Factor: 1				
		Analysis Time..: 19:10		Analyst ID.....: 021088	Instrument ID..: M01	
Arsenic	ND	1.0	mg/kg	SW846 6010B	01/16/04	F759D1AC
		Dilution Factor: 1				
		Analysis Time..: 19:10		Analyst ID.....: 021088	Instrument ID..: M01	
Antimony	ND	6.0	mg/kg	SW846 6010B	01/16/04	F759D1AD
		Dilution Factor: 1				
		Analysis Time..: 19:10		Analyst ID.....: 021088	Instrument ID..: M01	
Barium	**0.17 B**	**2.0**	**mg/kg**	**SW846 6010B**	**01/16/04**	**F759D1AE**
		Dilution Factor: 1				
		Analysis Time..: 19:10		Analyst ID.....: 021088	Instrument ID..: M01	
Cadmium	ND	0.50	mg/kg	SW846 6010B	01/16/04	F759D1AF
		Dilution Factor: 1				
		Analysis Time..: 19:10		Analyst ID.....: 021088	Instrument ID..: M01	
Chromium	ND	1.0	mg/kg	SW846 6010B	01/16/04	F759D1AG
		Dilution Factor: 1				
		Analysis Time..: 19:10		Analyst ID.....: 021088	Instrument ID..: M01	
Beryllium	ND	0.50	mg/kg	SW846 6010B	01/16/04	F759D1AH
		Dilution Factor: 1				
		Analysis Time..: 19:10		Analyst ID.....: 021088	Instrument ID..: M01	
Lead	ND	0.50	mg/kg	SW846 6010B	01/16/04	F759D1AJ
		Dilution Factor: 1				
		Analysis Time..: 19:10		Analyst ID.....: 021088	Instrument ID..: M01	
Selenium	ND	0.50	mg/kg	SW846 6010B	01/16/04	F759D1AK
		Dilution Factor: 1				
		Analysis Time..: 19:10		Analyst ID.....: 021088	Instrument ID..: M01	
Silver	ND	1.0	mg/kg	SW846 6010B	01/16/04	F759D1AL
		Dilution Factor: 1				
		Analysis Time..: 19:10		Analyst ID.....: 021088	Instrument ID..: M01	
Cobalt	ND	5.0	mg/kg	SW846 6010B	01/16/04	F759D1AM
		Dilution Factor: 1				
		Analysis Time..: 19:10		Analyst ID.....: 021088	Instrument ID..: M01	

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: E4A160287 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	ND	2.5	mg/kg	SW846 6010B	01/16/04	F759D1AN
		Dilution Factor: 1				
		Analysis Time..: 19:10		Analyst ID.....: 021088	Instrument ID..: M01	
Molybdenum	ND	4.0	mg/kg	SW846 6010B	01/16/04	F759D1AP
		Dilution Factor: 1				
		Analysis Time..: 19:10		Analyst ID.....: 021088	Instrument ID..: M01	
Nickel	ND	4.0	mg/kg	SW846 6010B	01/16/04	F759D1AQ
		Dilution Factor: 1				
		Analysis Time..: 19:10		Analyst ID.....: 021088	Instrument ID..: M01	
Thallium	ND	1.0	mg/kg	SW846 6010B	01/16/04	F759D1AR
		Dilution Factor: 1				
		Analysis Time..: 19:10		Analyst ID.....: 021088	Instrument ID..: M01	
Vanadium	ND	5.0	mg/kg	SW846 6010B	01/16/04	F759D1AT
		Dilution Factor: 1				
		Analysis Time..: 19:10		Analyst ID.....: 021088	Instrument ID..: M01	
Zinc	ND	2.0	mg/kg	SW846 6010B	01/16/04	F759D1A
		Dilution Factor: 1				
		Analysis Time..: 19:10		Analyst ID.....: 021088	Instrument ID..: M01	

MB Lot-Sample #: E4A190000-225 **Prep Batch #...:** 4019225

Mercury	ND	0.10	mg/kg	SW846 7471A	01/19/04	F79TD1AA
		Dilution Factor: 1				
		Analysis Time..: 13:49		Analyst ID.....: 000023	Instrument ID..: M04	

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 EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E4A160287 **Work Order #...:** F76E71AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: E4A160000-484 F76E71AD-LCSD
Prep Date.....: 01/16/04 **Analysis Date..:** 01/16/04
Prep Batch #...: 4016484 **Analysis Time..:** 10:12
Dilution Factor: 1 **Instrument ID..:** MSN
Analyst ID.....: 004648

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acetone	86	(50 - 150)			SW846 8260B
	100	(50 - 150)	15	(0-45)	SW846 8260B
Benzene	**97**	**(70 - 130)**			**SW846 8260B**
	98	**(70 - 130)**	**1.0**	**(0-30)**	**SW846 8260B**
Bromobenzene	99	(70 - 140)			SW846 8260B
	97	(70 - 140)	2.7	(0-35)	SW846 8260B
Bromochloromethane	92	(70 - 130)			SW846 8260B
	90	(70 - 130)	1.5	(0-30)	SW846 8260B
Bromoform	93	(70 - 130)			SW846 8260B
	98	(70 - 130)	5.6	(0-30)	SW846 8260B
Bromomethane	111	(50 - 150)			SW846 8260B
	108	(50 - 150)	2.7	(0-35)	SW846 8260B
2-Butanone	92	(60 - 140)			SW846 8260B
	102	(60 - 140)	9.7	(0-35)	SW846 8260B
n-Butylbenzene	98	(70 - 130)			SW846 8260B
	93	(70 - 130)	4.7	(0-30)	SW846 8260B
sec-Butylbenzene	100	(70 - 130)			SW846 8260B
	97	(70 - 130)	3.5	(0-30)	SW846 8260B
tert-Butylbenzene	97	(70 - 130)			SW846 8260B
	95	(70 - 130)	2.8	(0-30)	SW846 8260B
Carbon disulfide	103	(60 - 140)			SW846 8260B
	104	(60 - 140)	0.50	(0-35)	SW846 8260B
t-Butanol	65	(40 - 150)			SW846 8260B
	74	(40 - 150)	12	(0-35)	SW846 8260B
Carbon tetrachloride	98	(70 - 130)			SW846 8260B
	100	(70 - 130)	1.9	(0-30)	SW846 8260B
Chlorobenzene	**96**	**(70 - 130)**			**SW846 8260B**
	94	**(70 - 130)**	**1.5**	**(0-30)**	**SW846 8260B**
Dibromochloromethane	92	(70 - 130)			SW846 8260B
	94	(70 - 130)	2.0	(0-30)	SW846 8260B
Bromodichloromethane	99	(70 - 130)			SW846 8260B
	103	(70 - 130)	4.1	(0-30)	SW846 8260B
Chloroethane	101	(40 - 150)			SW846 8260B
	99	(40 - 150)	2.3	(0-35)	SW846 8260B
Chloroform	98	(70 - 130)			SW846 8260B
	100	(70 - 130)	1.7	(0-30)	SW846 8260B
Chloromethane	110	(50 - 150)			SW846 8260B
	114	(50 - 150)	3.6	(0-35)	SW846 8260B

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E4A160287 **Work Order #...:** F76E71AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: E4A160000-484 F76E71AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
2-Chlorotoluene	101	(70 - 130)			SW846 8260B
	99	(70 - 130)	2.3	(0-30)	SW846 8260B
4-Chlorotoluene	96	(70 - 130)			SW846 8260B
	93	(70 - 130)	3.2	(0-30)	SW846 8260B
1,2-Dibromo-3-chloro-propane	96	(60 - 140)			SW846 8260B
	101	(60 - 140)	5.2	(0-35)	SW846 8260B
1,2-Dibromoethane (EDB)	94	(70 - 130)			SW846 8260B
	99	(70 - 130)	4.7	(0-30)	SW846 8260B
Dibromomethane	100	(70 - 130)			SW846 8260B
	102	(70 - 130)	1.7	(0-30)	SW846 8260B
1,2-Dichlorobenzene	96	(70 - 130)			SW846 8260B
	95	(70 - 130)	1.2	(0-30)	SW846 8260B
1,3-Dichlorobenzene	98	(70 - 130)			SW846 8260B
	96	(70 - 130)	2.0	(0-30)	SW846 8260B
1,4-Dichlorobenzene	100	(70 - 130)			SW846 8260B
	98	(70 - 130)	2.4	(0-30)	SW846 8260B
Dichlorodifluoromethane	158	(40 - 160)			SW846 8260B
	158	(40 - 160)	0.43	(0-35)	SW846 8260B
1,1-Dichloroethane	97	(70 - 130)			SW846 8260B
	97	(70 - 130)	0.28	(0-30)	SW846 8260B
1,2-Dichloroethane	100	(70 - 130)			SW846 8260B
	101	(70 - 130)	1.5	(0-30)	SW846 8260B
1,1-Dichloroethene	**97**	**(65 - 150)**			**SW846 8260B**
	95	**(65 - 150)**	**2.0**	**(0-30)**	**SW846 8260B**
cis-1,2-Dichloroethene	93	(70 - 130)			SW846 8260B
	95	(70 - 130)	1.8	(0-30)	SW846 8260B
trans-1,2-Dichloroethene	92	(70 - 130)			SW846 8260B
	95	(70 - 130)	2.9	(0-30)	SW846 8260B
1,2-Dichloropropane	99	(70 - 130)			SW846 8260B
	100	(70 - 130)	1.5	(0-30)	SW846 8260B
1,3-Dichloropropane	96	(70 - 130)			SW846 8260B
	97	(70 - 130)	1.3	(0-30)	SW846 8260B
2,2-Dichloropropane	104	(70 - 130)			SW846 8260B
	105	(70 - 130)	1.6	(0-30)	SW846 8260B
1,1-Dichloropropene	112	(70 - 130)			SW846 8260B
	115	(70 - 130)	2.2	(0-30)	SW846 8260B
cis-1,3-Dichloropropene	99	(70 - 130)			SW846 8260B
	100	(70 - 130)	0.98	(0-30)	SW846 8260B
trans-1,3-Dichloropropene	93	(70 - 130)			SW846 8260B
	98	(70 - 130)	4.9	(0-30)	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E4A160287 **Work Order #...:** F76E71AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: E4A160000-484 F76E71AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Ethylbenzene	97	(70 - 130)			SW846 8260B
	95	(70 - 130)	1.6	(0-30)	SW846 8260B
Hexachlorobutadiene	103	(70 - 130)			SW846 8260B
	98	(70 - 130)	5.1	(0-30)	SW846 8260B
2-Hexanone	89	(60 - 140)			SW846 8260B
	99	(60 - 140)	11	(0-35)	SW846 8260B
Isopropylbenzene	87	(70 - 130)			SW846 8260B
	85	(70 - 130)	2.8	(0-30)	SW846 8260B
p-Isopropyltoluene	96	(70 - 130)			SW846 8260B
	92	(70 - 130)	4.4	(0-30)	SW846 8260B
Methylene chloride	90	(70 - 130)			SW846 8260B
	95	(70 - 130)	5.9	(0-30)	SW846 8260B
4-Methyl-2-pentanone	92	(60 - 140)			SW846 8260B
	101	(60 - 140)	9.2	(0-35)	SW846 8260B
Methyl tert-butyl ether	93	(70 - 130)			SW846 8260B
	97	(70 - 130)	4.2	(0-30)	SW846 8260B
Naphthalene	95	(60 - 140)			SW846 8260B
	100	(60 - 140)	4.9	(0-35)	SW846 8260B
n-Propylbenzene	99	(70 - 130)			SW846 8260B
	96	(70 - 130)	3.8	(0-30)	SW846 8260B
Styrene	94	(70 - 130)			SW846 8260B
	93	(70 - 130)	0.93	(0-30)	SW846 8260B
1,1,1,2-Tetrachloroethane	98	(70 - 130)			SW846 8260B
	98	(70 - 130)	0.060	(0-30)	SW846 8260B
1,1,2,2-Tetrachloroethane	93	(70 - 130)			SW846 8260B
	96	(70 - 130)	4.0	(0-30)	SW846 8260B
Tetrachloroethene	100	(70 - 130)			SW846 8260B
	96	(70 - 130)	3.8	(0-30)	SW846 8260B
Toluene	**95**	**(70 - 130)**			**SW846 8260B**
	93	**(70 - 130)**	**2.5**	**(0-30)**	**SW846 8260B**
1,2,3-Trichlorobenzene	102	(70 - 130)			SW846 8260B
	103	(70 - 130)	0.88	(0-30)	SW846 8260B
1,2,4-Trichloro-benzene	104	(70 - 130)			SW846 8260B
	102	(70 - 130)	1.3	(0-30)	SW846 8260B
1,1,1-Trichloroethane	98	(70 - 130)			SW846 8260B
	98	(70 - 130)	0.61	(0-30)	SW846 8260B
1,1,2-Trichloroethane	97	(70 - 130)			SW846 8260B
	98	(70 - 130)	1.4	(0-30)	SW846 8260B
Trichloroethene	**101**	**(70 - 135)**			**SW846 8260B**
	101	**(70 - 135)**	**0.23**	**(0-30)**	**SW846 8260B**

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E4A160287 **Work Order #...:** F76E71AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: E4A160000-484 F76E71AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Trichlorofluoromethane	105	(70 - 130)			SW846 8260B
	106	(70 - 130)	1.2	(0-35)	SW846 8260B
1,2,3-Trichloropropane	96	(70 - 130)			SW846 8260B
	99	(70 - 130)	3.8	(0-35)	SW846 8260B
1,1,2-Trichlorotrifluoro-ethane	110	(70 - 130)			SW846 8260B
	109	(70 - 130)	0.53	(0-35)	SW846 8260B
1,2,4-Trimethylbenzene	103	(70 - 130)			SW846 8260B
	100	(70 - 130)	3.4	(0-35)	SW846 8260B
1,3,5-Trimethylbenzene	96	(70 - 130)			SW846 8260B
	93	(70 - 130)	3.6	(0-35)	SW846 8260B
Vinyl chloride	113	(60 - 140)			SW846 8260B
	113	(60 - 140)	0.030	(0-35)	SW846 8260B
m-Xylene & p-Xylene	93	(70 - 130)			SW846 8260B
	91	(70 - 130)	2.3	(0-30)	SW846 8260B
Isopropyl ether	102	(70 - 130)			SW846 8260B
	106	(70 - 130)	3.9	(0-30)	SW846 8260B
o-Xylene	94	(70 - 130)			SW846 8260B
	93	(70 - 130)	1.4	(0-30)	SW846 8260B
Tert-amyl methyl ether	105	(70 - 130)			SW846 8260B
	109	(70 - 130)	4.2	(0-30)	SW846 8260B
Tert-butyl ethyl ether	107	(70 - 130)			SW846 8260B
	110	(70 - 130)	2.6	(0-30)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	89	(60 - 130)
	89	(60 - 130)
1,2-Dichloroethane-d4	84	(60 - 140)
	87	(60 - 140)
Toluene-d8	90	(70 - 130)
	87	(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/MS Volatiles

Client Lot #...: E4A160287 **Work Order #...:** F76E71AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: E4A160000-484 F76E71AD-LCSD
Prep Date.....: 01/16/04 **Analysis Date..:** 01/16/04
Prep Batch #...: 4016484 **Analysis Time..:** 10:12
Dilution Factor: 1 **Instrument ID..:** MSN
Analyst ID.....: 004648

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Acetone	250	214	ug/kg	86		SW846 8260B
	250	250	ug/kg	100	15	SW846 8260B
Benzene	**50.0**	**48.3**	**ug/kg**	**97**		**SW846 8260B**
	50.0	**48.8**	**ug/kg**	**98**	**1.0**	**SW846 8260B**
Bromobenzene	50.0	49.7	ug/kg	99		SW846 8260B
	50.0	48.3	ug/kg	97	2.7	SW846 8260B
Bromochloromethane	50.0	45.8	ug/kg	92		SW846 8260B
	50.0	45.2	ug/kg	90	1.5	SW846 8260B
Bromoform	50.0	46.6	ug/kg	93		SW846 8260B
	50.0	49.2	ug/kg	98	5.6	SW846 8260B
Bromomethane	50.0	55.6	ug/kg	111		SW846 8260B
	50.0	54.1	ug/kg	108	2.7	SW846 8260B
2-Butanone	250	230	ug/kg	92		SW846 8260B
	250	254	ug/kg	102	9.7	SW846 8260B
n-Butylbenzene	50.0	48.8	ug/kg	98		SW846 8260B
	50.0	46.6	ug/kg	93	4.7	SW846 8260B
sec-Butylbenzene	50.0	50.2	ug/kg	100		SW846 8260B
	50.0	48.5	ug/kg	97	3.5	SW846 8260B
tert-Butylbenzene	50.0	48.7	ug/kg	97		SW846 8260B
	50.0	47.3	ug/kg	95	2.8	SW846 8260B
Carbon disulfide	250	259	ug/kg	103		SW846 8260B
	250	260	ug/kg	104	0.50	SW846 8260B
t-Butanol	250	164	ug/kg	65		SW846 8260B
	250	184	ug/kg	74	12	SW846 8260B
Carbon tetrachloride	50.0	48.8	ug/kg	98		SW846 8260B
	50.0	49.8	ug/kg	100	1.9	SW846 8260B
Chlorobenzene	**50.0**	**47.9**	**ug/kg**	**96**		**SW846 8260B**
	50.0	**47.2**	**ug/kg**	**94**	**1.5**	**SW846 8260B**
Dibromochloromethane	50.0	46.1	ug/kg	92		SW846 8260B
	50.0	47.0	ug/kg	94	2.0	SW846 8260B
Bromodichloromethane	50.0	49.4	ug/kg	99		SW846 8260B
	50.0	51.5	ug/kg	103	4.1	SW846 8260B
Chloroethane	50.0	50.5	ug/kg	101		SW846 8260B
	50.0	49.4	ug/kg	99	2.3	SW846 8260B
Chloroform	50.0	49.0	ug/kg	98		SW846 8260B
	50.0	49.8	ug/kg	100	1.7	SW846 8260B
Chloromethane	50.0	55.0	ug/kg	110		SW846 8260B
	50.0	57.0	ug/kg	114	3.6	SW846 8260B

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E4A160287 **Work Order #...:** F76E71AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: E4A160000-484 F76E71AD-LCSD

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
2-Chlorotoluene	50.0	50.5	ug/kg	101		SW846 8260B
	50.0	49.3	ug/kg	99	2.3	SW846 8260B
4-Chlorotoluene	50.0	48.1	ug/kg	96		SW846 8260B
	50.0	46.6	ug/kg	93	3.2	SW846 8260B
1,2-Dibromo-3-chloro-propane	50.0	47.9	ug/kg	96		SW846 8260B
	50.0	50.4	ug/kg	101	5.2	SW846 8260B
1,2-Dibromoethane (EDB)	50.0	47.0	ug/kg	94		SW846 8260B
	50.0	49.3	ug/kg	99	4.7	SW846 8260B
Dibromomethane	50.0	49.9	ug/kg	100		SW846 8260B
	50.0	50.8	ug/kg	102	1.7	SW846 8260B
1,2-Dichlorobenzene	50.0	48.0	ug/kg	96		SW846 8260B
	50.0	47.4	ug/kg	95	1.2	SW846 8260B
1,3-Dichlorobenzene	50.0	48.8	ug/kg	98		SW846 8260B
	50.0	47.9	ug/kg	96	2.0	SW846 8260B
1,4-Dichlorobenzene	50.0	50.0	ug/kg	100		SW846 8260B
	50.0	48.8	ug/kg	98	2.4	SW846 8260B
Dichlorodifluoromethane	50.0	79.2	ug/kg	158		SW846 8260B
	50.0	78.9	ug/kg	158	0.43	SW846 8260B
1,1-Dichloroethane	50.0	48.3	ug/kg	97		SW846 8260B
	50.0	48.4	ug/kg	97	0.28	SW846 8260B
1,2-Dichloroethane	50.0	49.8	ug/kg	100		SW846 8260B
	50.0	50.5	ug/kg	101	1.5	SW846 8260B
1,1-Dichloroethene	**50.0**	**48.4**	**ug/kg**	**97**		**SW846 8260B**
	50.0	**47.5**	**ug/kg**	**95**	**2.0**	**SW846 8260B**
cis-1,2-Dichloroethene	50.0	46.7	ug/kg	93		SW846 8260B
	50.0	47.5	ug/kg	95	1.8	SW846 8260B
trans-1,2-Dichloroethene	50.0	46.1	ug/kg	92		SW846 8260B
	50.0	47.5	ug/kg	95	2.9	SW846 8260B
1,2-Dichloropropane	50.0	49.4	ug/kg	99		SW846 8260B
	50.0	50.1	ug/kg	100	1.5	SW846 8260B
1,3-Dichloropropane	50.0	47.8	ug/kg	96		SW846 8260B
	50.0	48.4	ug/kg	97	1.3	SW846 8260B
2,2-Dichloropropane	50.0	51.8	ug/kg	104		SW846 8260B
	50.0	52.6	ug/kg	105	1.6	SW846 8260B
1,1-Dichloropropene	50.0	56.2	ug/kg	112		SW846 8260B
	50.0	57.4	ug/kg	115	2.2	SW846 8260B
cis-1,3-Dichloropropene	50.0	49.4	ug/kg	99		SW846 8260B
	50.0	49.9	ug/kg	100	0.98	SW846 8260B
trans-1,3-Dichloropropene	50.0	46.6	ug/kg	93		SW846 8260B
	50.0	49.0	ug/kg	98	4.9	SW846 8260B

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E4A160287 **Work Order #...:** F76E71AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: E4A160000-484 F76E71AD-LCSD

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Ethylbenzene	50.0	48.4	ug/kg	97		SW846 8260B
	50.0	47.6	ug/kg	95	1.6	SW846 8260B
Hexachlorobutadiene	50.0	51.5	ug/kg	103		SW846 8260B
	50.0	49.0	ug/kg	98	5.1	SW846 8260B
2-Hexanone	250	222	ug/kg	89		SW846 8260B
	250	247	ug/kg	99	11	SW846 8260B
Isopropylbenzene	50.0	43.6	ug/kg	87		SW846 8260B
	50.0	42.4	ug/kg	85	2.8	SW846 8260B
p-Isopropyltoluene	50.0	48.2	ug/kg	96		SW846 8260B
	50.0	46.1	ug/kg	92	4.4	SW846 8260B
Methylene chloride	50.0	45.0	ug/kg	90		SW846 8260B
	50.0	47.7	ug/kg	95	5.9	SW846 8260B
4-Methyl-2-pentanone	250	229	ug/kg	92		SW846 8260B
	250	251	ug/kg	101	9.2	SW846 8260B
Methyl tert-butyl ether	50.0	46.3	ug/kg	93		SW846 8260B
	50.0	48.3	ug/kg	97	4.2	SW846 8260B
Naphthalene	50.0	47.6	ug/kg	95		SW846 8260B
	50.0	50.0	ug/kg	100	4.9	SW846 8260B
n-Propylbenzene	50.0	49.6	ug/kg	99		SW846 8260B
	50.0	47.8	ug/kg	96	3.8	SW846 8260B
Styrene	50.0	47.1	ug/kg	94		SW846 8260B
	50.0	46.7	ug/kg	93	0.93	SW846 8260B
1,1,1,2-Tetrachloroethane	50.0	49.0	ug/kg	98		SW846 8260B
	50.0	49.0	ug/kg	98	0.060	SW846 8260B
1,1,2,2-Tetrachloroethane	50.0	46.3	ug/kg	93		SW846 8260B
	50.0	48.2	ug/kg	96	4.0	SW846 8260B
Tetrachloroethene	50.0	49.8	ug/kg	100		SW846 8260B
	50.0	47.9	ug/kg	96	3.8	SW846 8260B
Toluene	**50.0**	**47.7**	**ug/kg**	**95**		**SW846 8260B**
	50.0	**46.5**	**ug/kg**	**93**	**2.5**	**SW846 8260B**
1,2,3-Trichlorobenzene	50.0	50.9	ug/kg	102		SW846 8260B
	50.0	51.3	ug/kg	103	0.88	SW846 8260B
1,2,4-Trichloro-benzene	50.0	51.9	ug/kg	104		SW846 8260B
	50.0	51.2	ug/kg	102	1.3	SW846 8260B
1,1,1-Trichloroethane	50.0	48.8	ug/kg	98		SW846 8260B
	50.0	49.1	ug/kg	98	0.61	SW846 8260B
1,1,2-Trichloroethane	50.0	48.4	ug/kg	97		SW846 8260B
	50.0	49.1	ug/kg	98	1.4	SW846 8260B
Trichloroethene	**50.0**	**50.4**	**ug/kg**	**101**		**SW846 8260B**
	50.0	**50.5**	**ug/kg**	**101**	**0.23**	**SW846 8260B**

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E4A160287 **Work Order #...:** F76E71AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: E4A160000-484 F76E71AD-LCSD

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Trichlorofluoromethane	50.0	52.3	ug/kg	105		SW846 8260B
	50.0	53.0	ug/kg	106	1.2	SW846 8260B
1,2,3-Trichloropropane	50.0	47.8	ug/kg	96		SW846 8260B
	50.0	49.6	ug/kg	99	3.8	SW846 8260B
1,1,2-Trichlorotrifluoro-ethane	50.0	54.8	ug/kg	110		SW846 8260B
	50.0	54.5	ug/kg	109	0.53	SW846 8260B
1,2,4-Trimethylbenzene	50.0	51.5	ug/kg	103		SW846 8260B
	50.0	49.8	ug/kg	100	3.4	SW846 8260B
1,3,5-Trimethylbenzene	50.0	48.2	ug/kg	96		SW846 8260B
	50.0	46.5	ug/kg	93	3.6	SW846 8260B
Vinyl chloride	50.0	56.4	ug/kg	113		SW846 8260B
	50.0	56.4	ug/kg	113	0.030	SW846 8260B
m-Xylene & p-Xylene	100	92.6	ug/kg	93		SW846 8260B
	100	90.5	ug/kg	91	2.3	SW846 8260B
Isopropyl ether	50.0	50.8	ug/kg	102		SW846 8260B
	50.0	52.9	ug/kg	106	3.9	SW846 8260B
o-Xylene	50.0	47.0	ug/kg	94		SW846 8260B
	50.0	46.4	ug/kg	93	1.4	SW846 8260B
Tert-amyl methyl ether	50.0	52.3	ug/kg	105		SW846 8260B
	50.0	54.5	ug/kg	109	4.2	SW846 8260B
Tert-butyl ethyl ether	50.0	53.6	ug/kg	107		SW846 8260B
	50.0	54.9	ug/kg	110	2.6	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	89	(60 - 130)
	89	(60 - 130)
1,2-Dichloroethane-d4	84	(60 - 140)
	87	(60 - 140)
Toluene-d8	90	(70 - 130)
	87	(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/MS Semivolatiles

Client Lot #...: E4A160287 **Work Order #...:** F76VJ1AC **Matrix.....:** SOLID
LCS Lot-Sample#: E4A160000-559
Prep Date.....: 01/16/04 **Analysis Date..:** 01/20/04
Prep Batch #...: 4016559 **Analysis Time..:** 19:09
Dilution Factor: 1 **Instrument ID..:** MSI
Analyst ID.....: 007050

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Acenaphthene	**80**	**(50 - 130)**	**SW846 8270C**
4-Chloro-3-methylphenol	**84**	**(50 - 120)**	**SW846 8270C**
2-Chlorophenol	**76**	**(45 - 125)**	**SW846 8270C**
1,4-Dichlorobenzene	**71**	**(35 - 115)**	**SW846 8270C**
2,4-Dinitrotoluene	**87**	**(40 - 125)**	**SW846 8270C**
4-Nitrophenol	**88**	**(10 - 120)**	**SW846 8270C**
N-Nitrosodi-n-propyl-amine	**77**	**(40 - 125)**	**SW846 8270C**
Pentachlorophenol	**79**	**(20 - 130)**	**SW846 8270C**
Phenol	**77**	**(40 - 110)**	**SW846 8270C**
Pyrene	**76**	**(50 - 145)**	**SW846 8270C**
1,2,4-Trichloro-benzene	**73**	**(50 - 120)**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	80	(35 - 140)
2-Fluorophenol	79	(35 - 125)
2,4,6-Tribromophenol	88	(25 - 135)
Nitrobenzene-d5	76	(35 - 130)
Phenol-d5	80	(35 - 130)
Terphenyl-d14	70	(35 - 150)

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 #...: E4A160287 **Work Order #...:** F76VJ1AC **Matrix.....:** SOLID
LCS Lot-Sample#: E4A160000-559
Prep Date.....: 01/16/04 **Analysis Date..:** 01/20/04
Prep Batch #...: 4016559 **Analysis Time..:** 19:09
Dilution Factor: 1 **Instrument ID..:** MSI
Analyst ID.....: 007050

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Acenaphthene	**3330**	**2680**	**ug/kg**	**80**	**SW846 8270C**
4-Chloro-3-methylphenol	**3330**	**2790**	**ug/kg**	**84**	**SW846 8270C**
2-Chlorophenol	**3330**	**2540**	**ug/kg**	**76**	**SW846 8270C**
1,4-Dichlorobenzene	**3330**	**2380**	**ug/kg**	**71**	**SW846 8270C**
2,4-Dinitrotoluene	**3330**	**2910**	**ug/kg**	**87**	**SW846 8270C**
4-Nitrophenol	**3330**	**2940**	**ug/kg**	**88**	**SW846 8270C**
N-Nitrosodi-n-propyl-amine	**3330**	**2550**	**ug/kg**	**77**	**SW846 8270C**
Pentachlorophenol	**3330**	**2620**	**ug/kg**	**79**	**SW846 8270C**
Phenol	**3330**	**2580**	**ug/kg**	**77**	**SW846 8270C**
Pyrene	**3330**	**2550**	**ug/kg**	**76**	**SW846 8270C**
1,2,4-Trichloro-benzene	**3330**	**2440**	**ug/kg**	**73**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	80	(35 - 140)
2-Fluorophenol	79	(35 - 125)
2,4,6-Tribromophenol	88	(25 - 135)
Nitrobenzene-d5	76	(35 - 130)
Phenol-d5	80	(35 - 130)
Terphenyl-d14	70	(35 - 150)

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 #...: E4A160287 **Work Order #...:** F78VC1AC **Matrix.....:** SOLID
LCS Lot-Sample#: E4A200000-371
Prep Date.....: 01/16/04 **Analysis Date..:** 01/16/04
Prep Batch #...: 4020371 **Analysis Time..:** 13:13
Dilution Factor: 1 **Instrument ID..:** G15
Analyst ID.....: 356074

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
TPH (as Gasoline)	**81**	**(65 - 135)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	99	(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 #...: E4A160287 **Work Order #...:** F78VC1AC **Matrix.....:** SOLID
LCS Lot-Sample#: E4A200000-371
Prep Date.....: 01/16/04 **Analysis Date..:** 01/16/04
Prep Batch #...: 4020371 **Analysis Time..:** 13:13
Dilution Factor: 1 **Instrument ID..:** G15
Analyst ID.....: 356074

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
TPH (as Gasoline)	**5.00**	**4.03**	**mg/kg**	**81**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	99	(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 Semivolatiles

Client Lot #...: E4A160287 **Work Order #...:** F78E51AC **Matrix.....:** SOLID
LCS Lot-Sample#: E4A200000-216
Prep Date.....: 01/19/04 **Analysis Date..:** 01/19/04
Prep Batch #...: 4020216 **Analysis Time..:** 19:30
Dilution Factor: 1 **Instrument ID..:** G02
Analyst ID.....: 356074

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
TPH (as Diesel)	**100**	**(55 - 125)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	92	(60 - 125)

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 #...: E4A160287 **Work Order #...:** F78E51AC **Matrix.....:** SOLID
LCS Lot-Sample#: E4A200000-216
Prep Date.....: 01/19/04 **Analysis Date..:** 01/19/04
Prep Batch #...: 4020216 **Analysis Time..:** 19:30
Dilution Factor: 1 **Instrument ID..:** G02
Analyst ID.....: 356074

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
TPH (as Diesel)	**250**	**251**	**mg/kg**	**100**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	92	(60 - 125)

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 #...: E4A160287 **Work Order #...:** F76VF1AC **Matrix.....:** SOLID
LCS Lot-Sample#: E4A160000-557
Prep Date.....: 01/16/04 **Analysis Date..:** 01/19/04
Prep Batch #...: 4016557 **Analysis Time..:** 10:54
Dilution Factor: 1 **Instrument ID..:** G5B
Analyst ID.....: 018568

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Aldrin	**82**	**(50 - 130)**	**SW846 8081A**
4,4'-DDT	**92**	**(75 - 125)**	**SW846 8081A**
Dieldrin	**89**	**(75 - 125)**	**SW846 8081A**
Endrin	**90**	**(70 - 135)**	**SW846 8081A**
gamma-BHC (Lindane)	**86**	**(70 - 125)**	**SW846 8081A**
Heptachlor	**86**	**(70 - 130)**	**SW846 8081A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	85	(35 - 140)
Decachlorobiphenyl	95	(65 - 135)

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 #...: E4A160287 **Work Order #...:** F76VF1AC **Matrix.....:** SOLID
LCS Lot-Sample#: E4A160000-557
Prep Date.....: 01/16/04 **Analysis Date..:** 01/19/04
Prep Batch #...: 4016557 **Analysis Time..:** 10:54
Dilution Factor: 1 **Instrument ID..:** G5B
Analyst ID.....: 018568

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Aldrin	**6.67**	**5.44**	**ug/kg**	**82**	**SW846 8081A**
4,4'-DDT	**13.3**	**12.2**	**ug/kg**	**92**	**SW846 8081A**
Dieldrin	**13.3**	**11.8**	**ug/kg**	**89**	**SW846 8081A**
Endrin	**13.3**	**12.0**	**ug/kg**	**90**	**SW846 8081A**
gamma-BHC (Lindane)	**6.67**	**5.77**	**ug/kg**	**86**	**SW846 8081A**
Heptachlor	**6.67**	**5.72**	**ug/kg**	**86**	**SW846 8081A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	85	(35 - 140)
Decachlorobiphenyl	95	(65 - 135)

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 #...: E4A160287 **Work Order #...:** F79PC1AC **Matrix.....:** SOLID
LCS Lot-Sample#: E4A200000-574
Prep Date.....: 01/20/04 **Analysis Date..:** 01/20/04
Prep Batch #...: 4020574 **Analysis Time..:** 16:00
Dilution Factor: 1 **Instrument ID..:** G8B
Analyst ID.....: 018568

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Aroclor 1016	**98**	**(60 - 135)**	**SW846 8082**
Aroclor 1260	**98**	**(65 - 135)**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	111	(60 - 140)
Tetrachloro-m-xylene	108	(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 Semivolatiles

Client Lot #...: E4A160287 **Work Order #...:** F79PC1AC **Matrix.....:** SOLID
LCS Lot-Sample#: E4A200000-574
Prep Date.....: 01/20/04 **Analysis Date..:** 01/20/04
Prep Batch #...: 4020574 **Analysis Time..:** 16:00
Dilution Factor: 1 **Instrument ID..:** G8B
Analyst ID.....: 018568

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Aroclor 1016	**333**	**325**	**ug/kg**	**98**	**SW846 8082**
Aroclor 1260	**333**	**325**	**ug/kg**	**98**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	111	(60 - 140)
Tetrachloro-m-xylene	108	(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

HPLC

Client Lot #...: E4A160287 **Work Order #...:** F76VG1AC **Matrix.....:** SOLID
LCS Lot-Sample#: E4A160000-558
Prep Date.....: 01/16/04 **Analysis Date..:** 01/17/04
Prep Batch #...: 4016558 **Analysis Time..:** 14:08
Dilution Factor: 1 **Instrument ID..:** HPLC1
Analyst ID.....: 004357

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Acenaphthene	**105**	**(50 - 150)**	**SW846 8310**
Acenaphthylene	**109**	**(50 - 150)**	**SW846 8310**
Anthracene	**98**	**(50 - 150)**	**SW846 8310**
Benzo(a)anthracene	**101**	**(50 - 150)**	**SW846 8310**
Benzo(b)fluoranthene	**104**	**(50 - 150)**	**SW846 8310**
Benzo(k)fluoranthene	**104**	**(50 - 150)**	**SW846 8310**
Benzo(ghi)perylene	**96**	**(50 - 150)**	**SW846 8310**
Benzo(a)pyrene	**105**	**(50 - 150)**	**SW846 8310**
Chrysene	**106**	**(50 - 150)**	**SW846 8310**
Dibenz(a,h)anthracene	**93**	**(50 - 150)**	**SW846 8310**
Fluoranthene	**107**	**(50 - 150)**	**SW846 8310**
Fluorene	**104**	**(50 - 150)**	**SW846 8310**
Indeno(1,2,3-cd)pyrene	**105**	**(50 - 150)**	**SW846 8310**
Naphthalene	**101**	**(50 - 150)**	**SW846 8310**
Phenanthrene	**100**	**(50 - 150)**	**SW846 8310**
Pyrene	**102**	**(50 - 150)**	**SW846 8310**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
p-Terphenyl	105	(50 - 150)

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

HPLC

Client Lot #...: E4A160287 **Work Order #...:** F76VG1AC **Matrix.....:** SOLID
LCS Lot-Sample#: E4A160000-558
Prep Date.....: 01/16/04 **Analysis Date..:** 01/17/04
Prep Batch #...: 4016558 **Analysis Time..:** 14:08
Dilution Factor: 1 **Instrument ID..:** HPLC1
Analyst ID.....: 004357

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Acenaphthene	83.3	**87.5**	ug/kg	**105**	**SW846 8310**
Acenaphthylene	83.3	**90.8**	ug/kg	**109**	**SW846 8310**
Anthracene	83.3	**81.3**	ug/kg	**98**	**SW846 8310**
Benzo(a)anthracene	83.3	**83.8**	ug/kg	**101**	**SW846 8310**
Benzo(b)fluoranthene	83.3	**86.9**	ug/kg	**104**	**SW846 8310**
Benzo(k)fluoranthene	83.3	**86.3**	ug/kg	**104**	**SW846 8310**
Benzo(ghi)perylene	83.3	**80.3**	ug/kg	**96**	**SW846 8310**
Benzo(a)pyrene	83.3	**87.1**	ug/kg	**105**	**SW846 8310**
Chrysene	83.3	**88.0**	ug/kg	**106**	**SW846 8310**
Dibenz(a,h)anthracene	83.3	**77.7**	ug/kg	**93**	**SW846 8310**
Fluoranthene	83.3	**89.3**	ug/kg	**107**	**SW846 8310**
Fluorene	83.3	**86.6**	ug/kg	**104**	**SW846 8310**
Indeno(1,2,3-cd)pyrene	83.3	**87.5**	ug/kg	**105**	**SW846 8310**
Naphthalene	83.3	**84.1**	ug/kg	**101**	**SW846 8310**
Phenanthrene	83.3	**83.5**	ug/kg	**100**	**SW846 8310**
Pyrene	83.3	**84.6**	ug/kg	**102**	**SW846 8310**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
p-Terphenyl	105	(50 - 150)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E4A160287 **Matrix.....:** SOLID

LCS Lot-Sample#: E4A160000-462 **Prep Batch #...:** 4016462

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Aluminum	94	(70 - 115)	SW846 6010B	01/16/04	F759D1AV
		Dilution Factor: 1	Analysis Time..: 19:15		Analyst ID.....: 021088
		Instrument ID..: M01			
Arsenic	100	(75 - 115)	SW846 6010B	01/16/04	F759D1AW
		Dilution Factor: 1	Analysis Time..: 19:15		Analyst ID.....: 021088
		Instrument ID..: M01			
Antimony	92	(70 - 115)	SW846 6010B	01/16/04	F759D1AX
		Dilution Factor: 1	Analysis Time..: 19:15		Analyst ID.....: 021088
		Instrument ID..: M01			
Barium	96	(80 - 115)	SW846 6010B	01/16/04	F759D1A0
		Dilution Factor: 1	Analysis Time..: 19:15		Analyst ID.....: 021088
		Instrument ID..: M01			
Cadmium	96	(80 - 120)	SW846 6010B	01/16/04	F759D1A1
		Dilution Factor: 1	Analysis Time..: 19:15		Analyst ID.....: 021088
		Instrument ID..: M01			
Chromium	101	(85 - 120)	SW846 6010B	01/16/04	F759D1A2
		Dilution Factor: 1	Analysis Time..: 19:15		Analyst ID.....: 021088
		Instrument ID..: M01			
Beryllium	107	(80 - 120)	SW846 6010B	01/16/04	F759D1A3
		Dilution Factor: 1	Analysis Time..: 19:15		Analyst ID.....: 021088
		Instrument ID..: M01			
Lead	98	(75 - 115)	SW846 6010B	01/16/04	F759D1A4
		Dilution Factor: 1	Analysis Time..: 19:15		Analyst ID.....: 021088
		Instrument ID..: M01			
Selenium	93	(70 - 110)	SW846 6010B	01/16/04	F759D1A5
		Dilution Factor: 1	Analysis Time..: 19:15		Analyst ID.....: 021088
		Instrument ID..: M01			
Silver	95	(75 - 120)	SW846 6010B	01/16/04	F759D1A6
		Dilution Factor: 1	Analysis Time..: 19:15		Analyst ID.....: 021088
		Instrument ID..: M01			

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E4A160287 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	99	(80 - 120)	SW846 6010B	01/16/04	F759D1A7
		Dilution Factor: 1	Analysis Time..: 19:15		Analyst ID.....: 021088
		Instrument ID..: M01			
Copper	100	(80 - 120)	SW846 6010B	01/16/04	F759D1A8
		Dilution Factor: 1	Analysis Time..: 19:15		Analyst ID.....: 021088
		Instrument ID..: M01			
Molybdenum	99	(80 - 120)	SW846 6010B	01/16/04	F759D1A9
		Dilution Factor: 1	Analysis Time..: 19:15		Analyst ID.....: 021088
		Instrument ID..: M01			
Nickel	98	(80 - 120)	SW846 6010B	01/16/04	F759D1CA
		Dilution Factor: 1	Analysis Time..: 19:15		Analyst ID.....: 021088
		Instrument ID..: M01			
Thallium	97	(70 - 120)	SW846 6010B	01/16/04	F759D1CC
		Dilution Factor: 1	Analysis Time..: 19:15		Analyst ID.....: 021088
		Instrument ID..: M01			
Vanadium	100	(80 - 120)	SW846 6010B	01/16/04	F759D1CD
		Dilution Factor: 1	Analysis Time..: 19:15		Analyst ID.....: 021088
		Instrument ID..: M01			
Zinc	102	(80 - 120)	SW846 6010B	01/16/04	F759D1CE
		Dilution Factor: 1	Analysis Time..: 19:15		Analyst ID.....: 021088
		Instrument ID..: M01			

LCS Lot-Sample#: E4A190000-225 **Prep Batch #...:** 4019225

Mercury	100	(80 - 115)	SW846 7471A	01/19/04	F79TD1AC
		Dilution Factor: 1	Analysis Time..: 13:51		Analyst ID.....: 000023
		Instrument ID..: M04			

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E4A160287 **Matrix.....:** SOLID

LCS Lot-Sample#: E4A160000-462 **Prep Batch #...:** 4016462

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Aluminum	200	189	mg/kg	94	SW846 6010B	01/16/04	F759D1AV
			Dilution Factor: 1		Analysis Time..: 19:15	Analyst ID.....: 021088	
			Instrument ID..: M01				
Arsenic	200	201	mg/kg	100	SW846 6010B	01/16/04	F759D1AW
			Dilution Factor: 1		Analysis Time..: 19:15	Analyst ID.....: 021088	
			Instrument ID..: M01				
Antimony	50.0	45.8	mg/kg	92	SW846 6010B	01/16/04	F759D1AX
			Dilution Factor: 1		Analysis Time..: 19:15	Analyst ID.....: 021088	
			Instrument ID..: M01				
Barium	200	192	mg/kg	96	SW846 6010B	01/16/04	F759D1A0
			Dilution Factor: 1		Analysis Time..: 19:15	Analyst ID.....: 021088	
			Instrument ID..: M01				
admium	5.00	4.78	mg/kg	96	SW846 6010B	01/16/04	F759D1A1
			Dilution Factor: 1		Analysis Time..: 19:15	Analyst ID.....: 021088	
			Instrument ID..: M01				
Chromium	20.0	20.3	mg/kg	101	SW846 6010B	01/16/04	F759D1A2
			Dilution Factor: 1		Analysis Time..: 19:15	Analyst ID.....: 021088	
			Instrument ID..: M01				
Beryllium	5.00	5.37	mg/kg	107	SW846 6010B	01/16/04	F759D1A3
			Dilution Factor: 1		Analysis Time..: 19:15	Analyst ID.....: 021088	
			Instrument ID..: M01				
Lead	50.0	49.1	mg/kg	98	SW846 6010B	01/16/04	F759D1A4
			Dilution Factor: 1		Analysis Time..: 19:15	Analyst ID.....: 021088	
			Instrument ID..: M01				
Selenium	200	185	mg/kg	93	SW846 6010B	01/16/04	F759D1A5
			Dilution Factor: 1		Analysis Time..: 19:15	Analyst ID.....: 021088	
			Instrument ID..: M01				
Silver	5.00	4.75	mg/kg	95	SW846 6010B	01/16/04	F759D1A6
			Dilution Factor: 1		Analysis Time..: 19:15	Analyst ID.....: 021088	
			Instrument ID..: M01				

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LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E4A160287 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	50.0	49.6	mg/kg	99	SW846 6010B	01/16/04	F759D1A7
			Dilution Factor: 1		Analysis Time..: 19:15	Analyst ID.....: 021088	
			Instrument ID..: M01				
Copper	25.0	24.9	mg/kg	100	SW846 6010B	01/16/04	F759D1A8
			Dilution Factor: 1		Analysis Time..: 19:15	Analyst ID.....: 021088	
			Instrument ID..: M01				
Molybdenum	100	99.4	mg/kg	99	SW846 6010B	01/16/04	F759D1A9
			Dilution Factor: 1		Analysis Time..: 19:15	Analyst ID.....: 021088	
			Instrument ID..: M01				
Nickel	50.0	49.0	mg/kg	98	SW846 6010B	01/16/04	F759D1CA
			Dilution Factor: 1		Analysis Time..: 19:15	Analyst ID.....: 021088	
			Instrument ID..: M01				
Thallium	200	194	mg/kg	97	SW846 6010B	01/16/04	F759D1CC
			Dilution Factor: 1		Analysis Time..: 19:15	Analyst ID.....: 021088	
			Instrument ID..: M01				
Vanadium	50.0	50.2	mg/kg	100	SW846 6010B	01/16/04	F759D1CD
			Dilution Factor: 1		Analysis Time..: 19:15	Analyst ID.....: 021088	
			Instrument ID..: M01				
Zinc	50.0	51.2	mg/kg	102	SW846 6010B	01/16/04	F759D1CE
			Dilution Factor: 1		Analysis Time..: 19:15	Analyst ID.....: 021088	
			Instrument ID..: M01				

LCS Lot-Sample#: E4A190000-225 **Prep Batch #...:** 4019225

Mercury	0.833	0.830	mg/kg	100	SW846 7471A	01/19/04	F79TD1AC
			Dilution Factor: 1		Analysis Time..: 13:51	Analyst ID.....: 000023	
			Instrument ID..: M04				

NOTE(S):

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...:	E4A160287	**Work Order #...:**	F753M1DG-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	E4A160287-001		F753M1DH-MSD		
Date Sampled...:	01/16/04 08:30	**Date Received..:**	01/16/04 12:30	**MS Run #.....:**	4016270
Prep Date.....:	01/16/04	**Analysis Date..:**	01/20/04		
Prep Batch #...:	4016559	**Analysis Time..:**	19:43		
Dilution Factor:	1	**Analyst ID.....:**	007050	**Instrument ID..:**	MSI

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acenaphthene	**74**	**(50 - 130)**			**SW846 8270C**
	77	**(50 - 130)**	**3.9**	**(0-35)**	**SW846 8270C**
4-Chloro-3-methylphenol	**82**	**(50 - 120)**			**SW846 8270C**
	80	**(50 - 120)**	**2.2**	**(0-35)**	**SW846 8270C**
2-Chlorophenol	**77**	**(45 - 125)**			**SW846 8270C**
	71	**(45 - 125)**	**9.1**	**(0-35)**	**SW846 8270C**
1,4-Dichlorobenzene	**67**	**(35 - 115)**			**SW846 8270C**
	62	**(35 - 115)**	**8.3**	**(0-35)**	**SW846 8270C**
2,4-Dinitrotoluene	**81**	**(40 - 125)**			**SW846 8270C**
	84	**(40 - 125)**	**3.6**	**(0-35)**	**SW846 8270C**
4-Nitrophenol	**82**	**(10 - 120)**			**SW846 8270C**
	87	**(10 - 120)**	**5.6**	**(0-35)**	**SW846 8270C**
'-Nitrosodi-n-propyl-amine	**77**	**(40 - 125)**			**SW846 8270C**
	73	**(40 - 125)**	**6.0**	**(0-35)**	**SW846 8270C**
Pentachlorophenol	**73**	**(20 - 130)**			**SW846 8270C**
	73	**(20 - 130)**	**0.20**	**(0-35)**	**SW846 8270C**
Phenol	**79**	**(40 - 110)**			**SW846 8270C**
	73	**(40 - 110)**	**7.9**	**(0-35)**	**SW846 8270C**
Pyrene	**70**	**(50 - 145)**			**SW846 8270C**
	71	**(50 - 145)**	**1.8**	**(0-35)**	**SW846 8270C**
1,2,4-Trichloro-benzene	**70**	**(50 - 120)**			**SW846 8270C**
	69	**(50 - 120)**	**2.6**	**(0-35)**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	72	(35 - 140)
	76	(35 - 140)
2-Fluorophenol	76	(35 - 125)
	72	(35 - 125)
2,4,6-Tribromophenol	82	(25 - 135)
	84	(25 - 135)
Nitrobenzene-d5	72	(35 - 130)
	73	(35 - 130)
Phenol-d5	77	(35 - 130)
	73	(35 - 130)

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: E4A160287 **Work Order #...:** F753M1DG-MS **Matrix.....:** SOLID
MS Lot-Sample #: E4A160287-001 F753M1DH-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Terphenyl-d14	64	(35 - 150)
	66	(35 - 150)

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 #...:	E4A160287	**Work Order #...:**	F753M1DG-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	E4A160287-001		F753M1DH-MSD		
Date Sampled...:	01/16/04 08:30	**Date Received..:**	01/16/04 12:30	**MS Run #.....:**	4016270
Prep Date.....:	01/16/04	**Analysis Date..:**	01/20/04		
Prep Batch #...:	4016559	**Analysis Time..:**	19:43		
Dilution Factor:	1	**Analyst ID.....:**	007050	**Instrument ID..:**	MSI

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Acenaphthene	ND	3330	2470	ug/kg	74		SW846 8270C
	ND	3330	2570	ug/kg	77	3.9	SW846 8270C
4-Chloro-3-methylphenol	ND	3330	2730	ug/kg	82		SW846 8270C
	ND	3330	2670	ug/kg	80	2.2	SW846 8270C
2-Chlorophenol	ND	3330	2580	ug/kg	77		SW846 8270C
	ND	3330	2350	ug/kg	71	9.1	SW846 8270C
1,4-Dichlorobenzene	ND	3330	2250	ug/kg	67		SW846 8270C
	ND	3330	2070	ug/kg	62	8.3	SW846 8270C
2,4-Dinitrotoluene	ND	3330	2710	ug/kg	81		SW846 8270C
	ND	3330	2810	ug/kg	84	3.6	SW846 8270C
4-Nitrophenol	ND	3330	2740	ug/kg	82		SW846 8270C
	ND	3330	2900	ug/kg	87	5.6	SW846 8270C
N-Nitrosodi-n-propyl-amine	ND	3330	2580	ug/kg	77		SW846 8270C
	ND	3330	2430	ug/kg	73	6.0	SW846 8270C
Pentachlorophenol	ND	3330	2430	ug/kg	73		SW846 8270C
	ND	3330	2430	ug/kg	73	0.20	SW846 8270C
Phenol	ND	3330	2640	ug/kg	79		SW846 8270C
	ND	3330	2430	ug/kg	73	7.9	SW846 8270C
Pyrene	ND	3330	2330	ug/kg	70		SW846 8270C
	ND	3330	2370	ug/kg	71	1.8	SW846 8270C
1,2,4-Trichloro-benzene	ND	3330	2350	ug/kg	70		SW846 8270C
	ND	3330	2280	ug/kg	69	2.6	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	72	(35 - 140)
	76	(35 - 140)
2-Fluorophenol	76	(35 - 125)
	72	(35 - 125)
2,4,6-Tribromophenol	82	(25 - 135)
	84	(25 - 135)
Nitrobenzene-d5	72	(35 - 130)
	73	(35 - 130)
Phenol-d5	77	(35 - 130)
	73	(35 - 130)

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: E4A160287 **Work Order #...:** F753M1DG-MS **Matrix.....:** SOLID
MS Lot-Sample #: E4A160287-001 F753M1DH-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Terphenyl-d14	64	(35 - 150)
	66	(35 - 150)

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 #...:	E4A160287	**Work Order #...:**	F74K31CF-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	E4A150416-001		F74K31CG-MSD		
Date Sampled...:	01/15/04 16:30	**Date Received..:**	01/15/04 20:00	**MS Run #.....:**	4020187
Prep Date.....:	01/16/04	**Analysis Date..:**	01/16/04		
Prep Batch #...:	4020371	**Analysis Time..:**	14:07		
Dilution Factor:	1	**Analyst ID.....:**	356074	**Instrument ID..:**	G15

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
TPH (as Gasoline)	**87**	**(65 - 135)**			**SW846 8015B**
	88	**(65 - 135)**	**0.11**	**(0-40)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	106	(70 - 130)
	104	(70 - 130)

NOTE(S):

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

*old print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC Volatiles

Client Lot #...:	E4A160287	**Work Order #...:**	F74K31CF-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	E4A150416-001		F74K31CG-MSD		
Date Sampled...:	01/15/04 16:30	**Date Received..:**	01/15/04 20:00	**MS Run #.....:**	4020187
Prep Date.....:	01/16/04	**Analysis Date..:**	01/16/04		
Prep Batch #...:	4020371	**Analysis Time..:**	14:07		
Dilution Factor:	1	**Analyst ID.....:**	356074	**Instrument ID..:**	G15

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
TPH (as Gasoline)	**ND**	**5.00**	**4.37**	**mg/kg**	**87**		**SW846 8015B**
	ND	**5.00**	**4.38**	**mg/kg**	**88**	**0.11**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	106	(70 - 130)
	104	(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

GC Semivolatiles

Lot-Sample #...: E4A160287 **Work Order #...:** F753M1C9 **Matrix.....:** SOLID
MS Lot-Sample #: E4A160287-001
Date Sampled...: 01/16/04 08:30 **Date Received..:** 01/16/04 12:30
Prep Date.....: 01/16/04 **Analysis Date..:** 01/19/04
Prep Batch #...: 4016556 **MS Run #.....:** 4016265
Dilution Factor: 1 **Analyst ID.....:** 356074 **Instrument ID..:** G02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
TPH (as Diesel)	**0**	**(55 - 125)**	**SW846 8015B**
Diesel Range Organics (C1	**0**	**(60 - 130)**	**SW846 8015B**
Diesel Range Organics (C10-C25)	**0**	**(55 - 130)**	**SW846 8015B**
Motor Oil Range Organics	**0**	**(60 - 130)**	**SW846 8015B**
TPH (as Motor Oil)	**0**	**(60 - 130)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	84	(60 - 125)

NOTE(S):

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

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC Semivolatiles

Lot-Sample #...: E4A160287 **Work Order #...:** F753M1C9 **Matrix.....:** SOLID
MS Lot-Sample #: E4A160287-001
Date Sampled...: 01/16/04 08:30 **Date Received..:** 01/16/04 12:30
Prep Date.....: 01/16/04 **Analysis Date..:** 01/19/04
Prep Batch #...: 4016556 **MS Run #.....:** 4016265
Dilution Factor: 1 **Analyst ID.....:** 356074 **Instrument ID..:** G02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	METHOD
TPH (as Diesel)	**260**	**250**	**218**	**mg/kg**	**0**	**SW846 8015B**
Diesel Range Organics (C1		**250**		**mg/kg**	**0**	**SW846 8015B**
Diesel Range Organics (C10-C25)		**250**		**mg/kg**	**0**	**SW846 8015B**
Motor Oil Range Organics		**250**		**mg/kg**	**0**	**SW846 8015B**
TPH (as Motor Oil)		**250**		**mg/kg**	**0**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	84	(60 - 125)

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 #...:	E4A160287	**Work Order #...:**	F753M1DJ-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	E4A160287-001		F753M1DK-MSD		
Date Sampled...:	01/16/04 08:30	**Date Received..:**	01/16/04 12:30	**MS Run #.....:**	4020071
Prep Date.....:	01/19/04	**Analysis Date..:**	01/19/04		
Prep Batch #...:	4020216	**Analysis Time..:**	20:58		
Dilution Factor:	1	**Analyst ID.....:**	356074	**Instrument ID..:**	G02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
TPH (as Diesel)	**106**	**(55 - 125)**			**SW846 8015B**
	87	**(55 - 125)**	**19**	**(0-35)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	95	(60 - 125)
	84	(60 - 125)

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 #...: E4A160287 **Work Order #...:** F753M1DJ-MS **Matrix.....:** SOLID
MS Lot-Sample #: E4A160287-001 F753M1DK-MSD
Date Sampled...: 01/16/04 08:30 **Date Received..:** 01/16/04 12:30 **MS Run #.....:** 4020071
Prep Date.....: 01/19/04 **Analysis Date..:** 01/19/04
Prep Batch #...: 4020216 **Analysis Time..:** 20:58
Dilution Factor: 1 **Analyst ID.....:** 356074 **Instrument ID..:** G02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
TPH (as Diesel)	**ND**	**250**	**264**	**mg/kg**	**106**		**SW846 8015B**
	ND	**250**	**218**	**mg/kg**	**87**	**19**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	95	(60 - 125)
	84	(60 - 125)

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 #...:	E4A160287	**Work Order #...:**	F753M1DC-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	E4A160287-001		F753M1DD-MSD		
Date Sampled...:	01/16/04 08:30	**Date Received..:**	01/16/04 12:30	**MS Run #.....:**	4016267
Prep Date.....:	01/16/04	**Analysis Date..:**	01/19/04		
Prep Batch #...:	4016557	**Analysis Time..:**	12:03		
Dilution Factor:	1	**Analyst ID.....:**	018568	**Instrument ID..:**	G5B

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Aldrin	**83**	**(50 - 130)**			**SW846 8081A**
	76	**(50 - 130)**	**9.4**	**(0-25)**	**SW846 8081A**
4,4'-DDT	**91**	**(75 - 125)**			**SW846 8081A**
	83	**(75 - 125)**	**9.6**	**(0-25)**	**SW846 8081A**
Dieldrin	**90**	**(75 - 125)**			**SW846 8081A**
	83	**(75 - 125)**	**7.5**	**(0-25)**	**SW846 8081A**
Endrin	**91**	**(70 - 135)**			**SW846 8081A**
	83	**(70 - 135)**	**8.5**	**(0-25)**	**SW846 8081A**
gamma-BHC (Lindane)	**87**	**(70 - 125)**			**SW846 8081A**
	81	**(70 - 125)**	**6.9**	**(0-25)**	**SW846 8081A**
Heptachlor	**85**	**(70 - 130)**			**SW846 8081A**
	78	**(70 - 130)**	**9.2**	**(0-25)**	**SW846 8081A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	80	(35 - 140)
	76	(35 - 140)
Decachlorobiphenyl	93	(65 - 135)
	86	(65 - 135)

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 #...: E4A160287 **Work Order #...:** F753M1DC-MS **Matrix.....:** SOLID
MS Lot-Sample #: E4A160287-001 F753M1DD-MSD
Date Sampled...: 01/16/04 08:30 **Date Received..:** 01/16/04 12:30 **MS Run #.....:** 4016267
Prep Date.....: 01/16/04 **Analysis Date..:** 01/19/04
Prep Batch #...: 4016557 **Analysis Time..:** 12:03
Dilution Factor: 1 **Analyst ID.....:** 018568 **Instrument ID..:** G5B

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Aldrin	**ND**	**6.67**	**5.56**	**ug/kg**	**83**		**SW846 8081A**
	ND	**6.67**	**5.06**	**ug/kg**	**76**	**9.4**	**SW846 8081A**
4,4'-DDT	**ND**	**13.3**	**12.1**	**ug/kg**	**91**		**SW846 8081A**
	ND	**13.3**	**11.0**	**ug/kg**	**83**	**9.6**	**SW846 8081A**
Dieldrin	**ND**	**13.3**	**12.0**	**ug/kg**	**90**		**SW846 8081A**
	ND	**13.3**	**11.1**	**ug/kg**	**83**	**7.5**	**SW846 8081A**
Endrin	**ND**	**13.3**	**12.0**	**ug/kg**	**91**		**SW846 8081A**
	ND	**13.3**	**11.1**	**ug/kg**	**83**	**8.5**	**SW846 8081A**
gamma-BHC (Lindane)	**ND**	**6.67**	**5.81**	**ug/kg**	**87**		**SW846 8081A**
	ND	**6.67**	**5.42**	**ug/kg**	**81**	**6.9**	**SW846 8081A**
Heptachlor	**ND**	**6.67**	**5.69**	**ug/kg**	**85**		**SW846 8081A**
	ND	**6.67**	**5.19**	**ug/kg**	**78**	**9.2**	**SW846 8081A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	80	(35 - 140)
	76	(35 - 140)
Decachlorobiphenyl	93	(65 - 135)
	86	(65 - 135)

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 #...:	E4A160287	**Work Order #...:**	F753M1DM-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	E4A160287-001		F753M1DN-MSD		
Date Sampled...:	01/16/04 08:30	**Date Received..:**	01/16/04 12:30	**MS Run #.....:**	4020280
Prep Date.....:	01/20/04	**Analysis Date..:**	01/20/04		
Prep Batch #...:	4020574	**Analysis Time..:**	18:05		
Dilution Factor:	1	**Analyst ID.....:**	018568	**Instrument ID..:**	G8B

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Aroclor 1016	**86**	**(60 - 135)**			**SW846 8082**
	93	**(60 - 135)**	**7.7**	**(0-30)**	**SW846 8082**
Aroclor 1260	**84**	**(65 - 135)**			**SW846 8082**
	92	**(65 - 135)**	**8.9**	**(0-30)**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	108	(60 - 140)
	115	(60 - 140)
Tetrachloro-m-xylene	105	(50 - 140)
	112	(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

GC Semivolatiles

Client Lot #...: E4A160287 **Work Order #...:** F753M1DM-MS **Matrix.....:** SOLID
MS Lot-Sample #: E4A160287-001 F753M1DN-MSD
Date Sampled...: 01/16/04 08:30 **Date Received..:** 01/16/04 12:30 **MS Run #.....:** 4020280
Prep Date.....: 01/20/04 **Analysis Date..:** 01/20/04
Prep Batch #...: 4020574 **Analysis Time..:** 18:05
Dilution Factor: 1 **Analyst ID.....:** 018568 **Instrument ID..:** G8B

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Aroclor 1016	**ND**	**333**	**287**	**ug/kg**	**86**		**SW846 8082**
	ND	**333**	**310**	**ug/kg**	**93**	**7.7**	**SW846 8082**
Aroclor 1260	**ND**	**333**	**281**	**ug/kg**	**84**		**SW846 8082**
	ND	**333**	**307**	**ug/kg**	**92**	**8.9**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	108	(60 - 140)
	115	(60 - 140)
Tetrachloro-m-xylene	105	(50 - 140)
	112	(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

HPLC

Client Lot #...:	E4A160287	**Work Order #...:**	F753M1DE-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	E4A160287-001		F753M1DF-MSD		
Date Sampled...:	01/16/04 08:30	**Date Received..:**	01/16/04 12:30	**MS Run #.....:**	4016268
Prep Date.....:	01/16/04	**Analysis Date..:**	01/17/04		
Prep Batch #...:	4016558	**Analysis Time..:**	15:12		
Dilution Factor:	1	**Analyst ID.....:**	004357	**Instrument ID..:**	HPLC1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acenaphthene	**103**	**(50 - 150)**			**SW846 8310**
	78	**(50 - 150)**	**27**	**(0-35)**	**SW846 8310**
Acenaphthylene	**105**	**(50 - 150)**			**SW846 8310**
	78	**(50 - 150)**	**30**	**(0-35)**	**SW846 8310**
Anthracene	**98**	**(50 - 150)**			**SW846 8310**
	91	**(50 - 150)**	**7.3**	**(0-35)**	**SW846 8310**
Benzo(a)anthracene	**103**	**(50 - 150)**			**SW846 8310**
	95	**(50 - 150)**	**7.9**	**(0-35)**	**SW846 8310**
Benzo(b)fluoranthene	**103**	**(50 - 150)**			**SW846 8310**
	102	**(50 - 150)**	**1.4**	**(0-35)**	**SW846 8310**
Benzo(k)fluoranthene	**99**	**(50 - 150)**			**SW846 8310**
	98	**(50 - 150)**	**0.79**	**(0-35)**	**SW846 8310**
'enzo(ghi)perylene	**94**	**(50 - 150)**			**SW846 8310**
	88	**(50 - 150)**	**7.2**	**(0-35)**	**SW846 8310**
Benzo(a)pyrene	**101**	**(50 - 150)**			**SW846 8310**
	94	**(50 - 150)**	**7.2**	**(0-35)**	**SW846 8310**
Chrysene	**107**	**(50 - 150)**			**SW846 8310**
	100	**(50 - 150)**	**6.5**	**(0-35)**	**SW846 8310**
Dibenz(a,h)anthracene	**93**	**(50 - 150)**			**SW846 8310**
	81	**(50 - 150)**	**14**	**(0-35)**	**SW846 8310**
Fluoranthene	**106**	**(50 - 150)**			**SW846 8310**
	107	**(50 - 150)**	**0.40**	**(0-35)**	**SW846 8310**
Fluorene	**103**	**(50 - 150)**			**SW846 8310**
	100	**(50 - 150)**	**2.9**	**(0-35)**	**SW846 8310**
Indeno(1,2,3-cd)pyrene	**105**	**(50 - 150)**			**SW846 8310**
	96	**(50 - 150)**	**8.4**	**(0-35)**	**SW846 8310**
Naphthalene	**94**	**(50 - 150)**			**SW846 8310**
	103	**(50 - 150)**	**9.0**	**(0-35)**	**SW846 8310**
Phenanthrene	**102**	**(50 - 150)**			**SW846 8310**
	96	**(50 - 150)**	**5.5**	**(0-35)**	**SW846 8310**
Pyrene	**102**	**(50 - 150)**			**SW846 8310**
	104	**(50 - 150)**	**2.8**	**(0-35)**	**SW846 8310**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
p-Terphenyl	108	(50 - 150)
	104	(50 - 150)

.OTE(S):

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

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

HPLC

Client Lot #...: E4A160287 **Work Order #...:** F753M1DE-MS **Matrix.....:** SOLID
MS Lot-Sample #: E4A160287-001 F753M1DF-MSD
Date Sampled...: 01/16/04 08:30 **Date Received..:** 01/16/04 12:30 **MS Run #.....:** 4016268
Prep Date.....: 01/16/04 **Analysis Date..:** 01/17/04
Prep Batch #...: 4016558 **Analysis Time..:** 15:12
Dilution Factor: 1 **Analyst ID.....:** 004357 **Instrument ID..:** HPLC1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Acenaphthene	**ND**	**83.3**	**86.0**	**ug/kg**	**103**		**SW846 8310**
	ND	**83.3**	**65.4**	**ug/kg**	**78**	**27**	**SW846 8310**
Acenaphthylene	**ND**	**83.3**	**87.7**	**ug/kg**	**105**		**SW846 8310**
	ND	**83.3**	**64.6**	**ug/kg**	**78**	**30**	**SW846 8310**
Anthracene	**ND**	**83.3**	**81.8**	**ug/kg**	**98**		**SW846 8310**
	ND	**83.3**	**76.1**	**ug/kg**	**91**	**7.3**	**SW846 8310**
Benzo(a)anthracene	**ND**	**83.3**	**85.5**	**ug/kg**	**103**		**SW846 8310**
	ND	**83.3**	**79.0**	**ug/kg**	**95**	**7.9**	**SW846 8310**
Benzo(b)fluoranthene	**ND**	**83.3**	**85.8**	**ug/kg**	**103**		**SW846 8310**
	ND	**83.3**	**84.6**	**ug/kg**	**102**	**1.4**	**SW846 8310**
Benzo(k)fluoranthene	**ND**	**83.3**	**82.7**	**ug/kg**	**99**		**SW846 8310**
	ND	**83.3**	**82.0**	**ug/kg**	**98**	**0.79**	**SW846 8310**
Benzo(ghi)perylene	**ND**	**83.3**	**78.3**	**ug/kg**	**94**		**SW846 8310**
	ND	**83.3**	**72.9**	**ug/kg**	**88**	**7.2**	**SW846 8310**
Benzo(a)pyrene	**ND**	**83.3**	**84.5**	**ug/kg**	**101**		**SW846 8310**
	ND	**83.3**	**78.6**	**ug/kg**	**94**	**7.2**	**SW846 8310**
Chrysene	**ND**	**83.3**	**88.8**	**ug/kg**	**107**		**SW846 8310**
	ND	**83.3**	**83.2**	**ug/kg**	**100**	**6.5**	**SW846 8310**
Dibenz(a,h)anthracene	**ND**	**83.3**	**77.5**	**ug/kg**	**93**		**SW846 8310**
	ND	**83.3**	**67.1**	**ug/kg**	**81**	**14**	**SW846 8310**
Fluoranthene	**ND**	**83.3**	**88.7**	**ug/kg**	**106**		**SW846 8310**
	ND	**83.3**	**89.0**	**ug/kg**	**107**	**0.40**	**SW846 8310**
Fluorene	**ND**	**83.3**	**85.6**	**ug/kg**	**103**		**SW846 8310**
	ND	**83.3**	**83.2**	**ug/kg**	**100**	**2.9**	**SW846 8310**
Indeno(1,2,3-cd)pyrene	**ND**	**83.3**	**87.2**	**ug/kg**	**105**		**SW846 8310**
	ND	**83.3**	**80.1**	**ug/kg**	**96**	**8.4**	**SW846 8310**
Naphthalene	**ND**	**83.3**	**78.1**	**ug/kg**	**94**		**SW846 8310**
	ND	**83.3**	**85.5**	**ug/kg**	**103**	**9.0**	**SW846 8310**
Phenanthrene	**ND**	**83.3**	**84.7**	**ug/kg**	**102**		**SW846 8310**
	ND	**83.3**	**80.1**	**ug/kg**	**96**	**5.5**	**SW846 8310**
Pyrene	**ND**	**83.3**	**84.6**	**ug/kg**	**102**		**SW846 8310**
	ND	**83.3**	**86.9**	**ug/kg**	**104**	**2.8**	**SW846 8310**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
p-Terphenyl	108	(50 - 150)
	104	(50 - 150)

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 #...: E4A160287 **Matrix.....:** SOLID
Date Sampled...: 01/16/04 08:30 **Date Received..:** 01/16/04 12:30

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: E4A160287-001 **Prep Batch #...:** 4016462							
Aluminum	NC	(70 - 115)			SW846 6010B	01/16/04	F753M1A5
	NC	(70 - 115)		(0-25)	SW846 6010B	01/16/04	F753M1A6
		Dilution Factor: 1					
		Analysis Time..: 19:43			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 4016202					
Arsenic	97	(75 - 115)			SW846 6010B	01/16/04	F753M1A7
	98	(75 - 115)	1.4	(0-25)	SW846 6010B	01/16/04	F753M1A8
		Dilution Factor: 1					
		Analysis Time..: 19:43			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 4016202					
Antimony	29 N	(70 - 115)			SW846 6010B	01/16/04	F753M1A9
	43 N,*	(70 - 115)	38	(0-25)	SW846 6010B	01/16/04	F753M1CA
		Dilution Factor: 1					
		Analysis Time..: 19:43			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 4016202					
Barium	94	(80 - 115)			SW846 6010B	01/16/04	F753M1CC
	93	(80 - 115)	1.1	(0-25)	SW846 6010B	01/16/04	F753M1CD
		Dilution Factor: 1					
		Analysis Time..: 19:43			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 4016202					
Cadmium	91	(80 - 120)			SW846 6010B	01/16/04	F753M1CE
	97	(80 - 120)	5.6	(0-25)	SW846 6010B	01/16/04	F753M1CF
		Dilution Factor: 1					
		Analysis Time..: 19:43			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 4016202					
Chromium	94	(85 - 120)			SW846 6010B	01/16/04	F753M1CG
	105	(85 - 120)	4.4	(0-25)	SW846 6010B	01/16/04	F753M1CH
		Dilution Factor: 1					
		Analysis Time..: 19:43			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 4016202					
Beryllium	104	(80 - 120)			SW846 6010B	01/16/04	F753M1CJ
	106	(80 - 120)	1.7	(0-25)	SW846 6010B	01/16/04	F753M1CK
		Dilution Factor: 1					
		Analysis Time..: 19:43			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 4016202					

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E4A160287 **Matrix.....:** SOLID
Date Sampled...: 01/16/04 08:30 **Date Received..:** 01/16/04 12:30

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Lead	92	(75 - 115)			SW846 6010B	01/16/04	F753M1CL
	96	(75 - 115)	4.4	(0-25)	SW846 6010B	01/16/04	F753M1CM
		Dilution Factor: 1					
		Analysis Time..: 19:43			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 4016202					
Selenium	91	(70 - 110)			SW846 6010B	01/16/04	F753M1CN
	91	(70 - 110)	0.27	(0-25)	SW846 6010B	01/16/04	F753M1CP
		Dilution Factor: 1					
		Analysis Time..: 19:43			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 4016202					
Silver	86	(75 - 120)			SW846 6010B	01/16/04	F753M1CQ
	85	(75 - 120)	1.3	(0-25)	SW846 6010B	01/16/04	F753M1CR
		Dilution Factor: 1					
		Analysis Time..: 19:43			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 4016202					
Cobalt	94	(80 - 120)			SW846 6010B	01/16/04	F753M1CT
	95	(80 - 120)	1.2	(0-25)	SW846 6010B	01/16/04	F753M1CU
		Dilution Factor: 1					
		Analysis Time..: 19:43			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 4016202					
Copper	103	(80 - 120)			SW846 6010B	01/16/04	F753M1CV
	112	(80 - 120)	5.1	(0-25)	SW846 6010B	01/16/04	F753M1CW
		Dilution Factor: 1					
		Analysis Time..: 19:43			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 4016202					
Molybdenum	91	(80 - 120)			SW846 6010B	01/16/04	F753M1CX
	93	(80 - 120)	2.3	(0-25)	SW846 6010B	01/16/04	F753M1C0
		Dilution Factor: 1					
		Analysis Time..: 19:43			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 4016202					
Nickel	92	(80 - 120)			SW846 6010B	01/16/04	F753M1C1
	101	(80 - 120)	6.5	(0-25)	SW846 6010B	01/16/04	F753M1C2
		Dilution Factor: 1					
		Analysis Time..: 19:43			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 4016202					

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E4A160287 **Matrix.....:** SOLID
Date Sampled...: 01/16/04 08:30 **Date Received..:** 01/16/04 12:30

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	91	(70 - 120)			SW846 6010B	01/16/04	F753M1C3
	91	(70 - 120)	0.41	(0-25)	SW846 6010B	01/16/04	F753M1C4

Dilution Factor: 1
Analysis Time..: 19:43 Instrument ID..: M01 Analyst ID.....: 021088
MS Run #.....: 4016202

Vanadium	97	(80 - 120)			SW846 6010B	01/16/04	F753M1C5
	111	(80 - 120)	7.2	(0-25)	SW846 6010B	01/16/04	F753M1C6

Dilution Factor: 1
Analysis Time..: 19:43 Instrument ID..: M01 Analyst ID.....: 021088
MS Run #.....: 4016202

Zinc	97	(80 - 120)			SW846 6010B	01/16/04	F753M1C7
	136 N	(80 - 120)	19	(0-25)	SW846 6010B	01/16/04	F753M1C8

Dilution Factor: 1
Analysis Time..: 19:43 Instrument ID..: M01 Analyst ID.....: 021088
MS Run #.....: 4016202

MS Lot-Sample #: E4A160287-001 **Prep Batch #...:** 4019225

Mercury	113	(80 - 120)			SW846 7471A	01/19/04	F753M1DP
	113	(80 - 120)	0.0	(0-20)	SW846 7471A	01/19/04	F753M1DQ

Dilution Factor: 1
Analysis Time..: 13:54 Instrument ID..: M04 Analyst ID.....: 000023
MS Run #.....: 4020305

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.

* Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E4A160287 **Matrix.....:** SOLID
Date Sampled...: 01/16/04 08:30 **Date Received..:** 01/16/04 12:30

MS Lot-Sample #: E4A160287-001 **Prep Batch #...:** 4016462

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Aluminum									
	12600	200	13100	mg/kg			SW846 6010B	01/16/04	F753M1A5
			Qualifiers: NC						
	12600	200	12900	mg/kg			SW846 6010B	01/16/04	F753M1A6
			Qualifiers: NC						
			Dilution Factor: 1						
			Analysis Time..: 19:43		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 4016202						
Arsenic									
	11.5	200	205	mg/kg	97		SW846 6010B	01/16/04	F753M1A7
	11.5	200	208	mg/kg	98	1.4	SW846 6010B	01/16/04	F753M1A8
			Dilution Factor: 1						
			Analysis Time..: 19:43		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 4016202						
Antimony									
	ND	50.0	14.5 N	mg/kg	29		SW846 6010B	01/16/04	F753M1
	ND	50.0	21.3	mg/kg	43	38	SW846 6010B	01/16/04	F753M1CA
			Qualifiers: N,*						
			Dilution Factor: 1						
			Analysis Time..: 19:43		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 4016202						
Barium									
	72.5	200	261	mg/kg	94		SW846 6010B	01/16/04	F753M1CC
	72.5	200	258	mg/kg	93	1.1	SW846 6010B	01/16/04	F753M1CD
			Dilution Factor: 1						
			Analysis Time..: 19:43		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 4016202						
Cadmium									
	0.60	5.00	5.16	mg/kg	91		SW846 6010B	01/16/04	F753M1CE
	0.60	5.00	5.46	mg/kg	97	5.6	SW846 6010B	01/16/04	F753M1CF
			Dilution Factor: 1						
			Analysis Time..: 19:43		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 4016202						
Chromium									
	31.8	20.0	50.6	mg/kg	94		SW846 6010B	01/16/04	F753M1CG
	31.8	20.0	52.8	mg/kg	105	4.4	SW846 6010B	01/16/04	F753M1CH
			Dilution Factor: 1						
			Analysis Time..: 19:43		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 4016202						

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E4A160287 **Matrix.....:** SOLID
Date Sampled...: 01/16/04 08:30 **Date Received..:** 01/16/04 12:30

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Beryllium									
	0.52	5.00	5.72	mg/kg	104		SW846 6010B	01/16/04	F753M1CJ
	0.52	5.00	5.82	mg/kg	106	1.7	SW846 6010B	01/16/04	F753M1CK
			Dilution Factor: 1						
			Analysis Time..: 19:43		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 4016202						
Lead									
	2.9	50.0	48.7	mg/kg	92		SW846 6010B	01/16/04	F753M1CL
	2.9	50.0	50.8	mg/kg	96	4.4	SW846 6010B	01/16/04	F753M1CM
			Dilution Factor: 1						
			Analysis Time..: 19:43		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 4016202						
Selenium									
	1.4	200	183	mg/kg	91		SW846 6010B	01/16/04	F753M1CN
	1.4	200	183	mg/kg	91	0.27	SW846 6010B	01/16/04	F753M1CP
			Dilution Factor: 1						
			Analysis Time..: 19:43		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 4016202						
Silver									
	ND	5.00	4.29	mg/kg	86		SW846 6010B	01/16/04	F753M1CQ
	ND	5.00	4.24	mg/kg	85	1.3	SW846 6010B	01/16/04	F753M1CR
			Dilution Factor: 1						
			Analysis Time..: 19:43		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 4016202						
Cobalt									
	5.9	50.0	52.7	mg/kg	94		SW846 6010B	01/16/04	F753M1CT
	5.9	50.0	53.4	mg/kg	95	1.2	SW846 6010B	01/16/04	F753M1CU
			Dilution Factor: 1						
			Analysis Time..: 19:43		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 4016202						
Copper									
	19.7	25.0	45.4	mg/kg	103		SW846 6010B	01/16/04	F753M1CV
	19.7	25.0	47.8	mg/kg	112	5.1	SW846 6010B	01/16/04	F753M1CW
			Dilution Factor: 1						
			Analysis Time..: 19:43		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 4016202						

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E4A160287 **Matrix.....:** SOLID
Date Sampled...: 01/16/04 08:30 **Date Received..:** 01/16/04 12:30

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Molybdenum									
	1.8	100	92.9	mg/kg	91		SW846 6010B	01/16/04	F753M1CX
	1.8	100	95.1	mg/kg	93	2.3	SW846 6010B	01/16/04	F753M1C0
			Dilution Factor: 1						
			Analysis Time..: 19:43		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 4016202						
Nickel									
	20.5	50.0	66.3	mg/kg	92		SW846 6010B	01/16/04	F753M1C1
	20.5	50.0	70.8	mg/kg	101	6.5	SW846 6010B	01/16/04	F753M1C2
			Dilution Factor: 1						
			Analysis Time..: 19:43		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 4016202						
Thallium									
	ND	200	182	mg/kg	91		SW846 6010B	01/16/04	F753M1C3
	ND	200	182	mg/kg	91	0.41	SW846 6010B	01/16/04	F753M1C4
			Dilution Factor: 1						
			Analysis Time..: 19:43		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 4016202						
Vanadium									
	48.0	50.0	96.4	mg/kg	97		SW846 6010B	01/16/04	F753M1C5
	48.0	50.0	104	mg/kg	111	7.2	SW846 6010B	01/16/04	F753M1C6
			Dilution Factor: 1						
			Analysis Time..: 19:43		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 4016202						
Zinc									
	43.5	50.0	92.1	mg/kg	97		SW846 6010B	01/16/04	F753M1C7
	43.5	50.0	111 N	mg/kg	136	19	SW846 6010B	01/16/04	F753M1C8
			Dilution Factor: 1						
			Analysis Time..: 19:43		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 4016202						

MS Lot-Sample #: E4A160287-001 **Prep Batch #...:** 4019225

Mercury									
	ND	0.167	0.188	mg/kg	113		SW846 7471A	01/19/04	F753M1DP
	ND	0.167	0.188	mg/kg	113	0.0	SW846 7471A	01/19/04	F753M1DQ
			Dilution Factor: 1						
			Analysis Time..: 13:54		Instrument ID..: M04			Analyst ID.....: 000023	
			MS Run #.....: 4020305						

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E4A160287 **Matrix.....:** SOLID
Date Sampled...: 01/16/04 08:30 **Date Received..:** 01/16/04 12:30

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.

* Relative percent difference (RPD) is outside stated control limits.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: E4A160287 **Work Order #...:** F74K3-SMP **Matrix.....:** SOLID
F74K3-DUP

Date Sampled...: 01/15/04 16:30 **Date Received..:** 01/15/04 20:00

% Moisture.....: 9.0

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture						SD Lot-Sample #:	E4A150416-001	
	9.0	9.0	%	0.0	(0-10)	MCAWW 160.3 MOD	01/16-01/17/04	4016480

Dilution Factor: 1 Analysis Time..: 16:45 Analyst ID.....: 021088

Instrument ID..: W15 MS Run Number..: 4016232

Appendix B

Summary of Metals Results Listed With Site-Specific Import Soil Criteria and Southern California Import Soil Criteria Table

Table I
Summary of Metals Results Listed with Site-Specific Import
Soil Criteria and Southern California Import Soil Criteria
Former C-6 Facility
Los Angeles, California

Sample Identification	Chemical	Reported Concentration (mg/kg)	Site-Specific Import Soil Criterion (mg/kg) Source: H&A 1/2002	Maximum Regional (Southern California) Background Criterion (mg/kg) Source: CAL-EPA 1992
Import_Soil_Crescent_Clifton	Aluminum	12600	43,000	NE
	Arsenic	11.5	14	15.2
	Barium	72.5 J	294	560
	Beryllium	0.52	0.56	1.2
	Cadmium	0.60	1.0	1.45
	Chromium	31.8	48.5	32.6
	Cobalt	5.9	20.0	23.2
	Copper	19.7	49.0	54.0
	Lead	2.9	7.2	189.4
	Molybdenum	**1.8 B**	**2.7**	**1.4**
	Nickel	20.5	37.4	28.2
	Vanadium	48	93.0	84.8
	Zinc	43.5	114	247

B – Result is between reporting limit and MDL
J – Blank contamination. Actual result is likely less than reported.
MDL – Minimum Detection Limit
NE – Not evaluated

QA/QC: BWP
Date: 02/03/04

Haley & Aldrich, Inc.
G:\Projects\ENVIRONMENTAL\28882_C6ProjectMngmt\403 Parcel A Arsenic Excavation\Import Soil Report\FinalSoilImport-Parcel A Excavation-techmemo 3_9_04.doc

BOE-C6-0104460