MSD

December 29, 1999

Mr. Femi Akindele
Residual Project Manager
Kentucky/Tennessee Section
U.S. Environmental Protection Agency
Region IV
61 Forsyth Street
Atlanta, GA 30303

Re: Appended Sampling Event # 25, Result of Groundwater Quality Monitoring - FY 00, First Quarter (FY00-1Q), Lees Lane Superfund Site, Jefferson County, Kentucky, Administrative Order on Consent, USEPA Docket No-91-32-C

Dear Mr. Akindele

In accordance with paragraph 11, under Reporting Requirements, of the subject Consent Order and Attachment 1, Operation and Maintenance Plan For Post-Removal Site Control at the Lee's Lane Landfill Site. Section 4.4, Groundwater Quality Monitoring, attached for your information files is one photocopy each of the following analyses and reports prepared by Heritage Laboratories. Inc., 4925 Heller Street, Louisville Kentucky 40218 for MSD.

This well was not sampled during the September 1999 event due to the dedicated pump being inoperative.

The data package contains all of the analytical results and Quality Assurance reports for samples relating to the event.

Certificate of Analysis

WELL LOCATION	SAMPLE DESCRIPTION	LAB ID	REPORT LENGTH
MW-A	LL-MWA25	A500550	8 pages

10862972

Louisville and Jefferson County Metropolitan Sewer District
700 West Liberty Street Louisville, Kentucky 40203-1911 502-540-6000 www.msdlouky.org

Quality Assurance Reports

DESCRIPTION	REPORT LENGTH
Quality Assurance Report	26 pages

The above identified Certificate of Analysis and Quality Assurance Reports were received by the undersigned on December 22,1999 and transmitted within the five (5) working day requirement of Paragraph 11 of the Consent Order.

Please advise if you have any questions concerning the attached information.

Sincerely,

Richard H. Watkins, Sr.
Support Service Manager
RHW/rw
Lees-991Qtr

Enc.

cc: Kentucky National Resource Environment Protection Cabinet
Mr. Rick Hogan, Division of Waste Management
G. R. Garner, Executive Director
Lees Lane File

CERTIFICATE OF ANALYSIS

Service Location	Received	Project	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, LLC COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	10-NOV-99		A500550
	Complete	PO Number	
	24-NOV-99	DP 00151	
	Printed	Sampled	
	25-NOV-99	09-NOV-99 11:32	

Report To	Bill To
DAN SAMMONS, MFWTP IND. WASTE LABORATORY LOUISVILLE AND JEFFERSON COUNTY M.S.D. P.O. BOX 740011 LOUISVILLE, KY 40201	MS. KAREN SHORTE LOUISVILLE & JEFFERSON COUNTY M.S.D. PO BOX 740011 LOUISVILLE, KY 40201

Sample Description

CLIENT ID: LLMWA25

VOLATILE ORGANICS SW846-8240B

Analyst: H. WILLIAMS Analysis Date: 18-NOV-99 11:58 Instrument: GC/MS VOA Test: 0510.3.0

Parameter	Result	Det. Limit	Units
ACETONE	BDL	20	ug/L
ACROLEIN	BDL	50	ug/L
ACRYLONITRILE	BDL	70	ug/L
BENZENE	BDL	5.0	ug/L
BROMODICHLOROMETHANE	BDL	5.0	ug/L
BROMOFORM	BDL	5.0	ug/L
BROMOMETHANE	BDL	10	ug/L
CARBON DISULFIDE	BDL	5.0	ug/L
CARBON TETRACHLORIDE	BDL	5.0	ug/L
CHLOROBENZENE	BDL	5.0	ug/L
CHLOROETHANE	BDL	10	ug/L
CHLOROFORM	BDL	5.0	ug/L
CHLOROMETHANE	BDL	10	ug/L
DIBROMOCHLOROMETHANE	BDL	5.0	ug/L
CIS-1,3-DICHLOROPROPENE	BDL	5.0	ug/L
DICHLORODIFLUOROMETHANE	BDL	5.0	ug/L
1,1-DICHLOROETHANE	BDL	5.0	ug/L
1,2-DICHLOROETHANE	BDL	5.0	ug/L
1,1-DICHLOROETHENE	BDL	5.0	ug/L
1,2-DICHLOROPROPANE	BDL	5.0	ug/L
ETHYLBENZENE	BDL	5.0	ug/L
FLUOROTRICHLOROMETHANE	BDL	5.0	ug/L
2-HEXANONE	BDL	10	ug/L
METHYLENE CHLORIDE	BDL	5.0	ug/L
METHYL ETHYL KETONE	BDL	10	ug/L
4-METHYL-2-PENTANONE	BDL	10	ug/L
STYRENE	BDL	5.0	ug/L
1,1,2,2-TETRACHLOROETHANE	BDL	5.0	ug/L
TETRACHLOROETHENE	BDL	5.0	ug/L
TETRAHYDROFURAN	BDL	25	ug/L
TOLUENE	BDL	5.0	ug/L

HERITAGE ENVIRONMENTAL SERVICES, LLC

Sample ID: A500550 LLMWA25

Parameter	Result	Det. Limit	Units
1,2-DICHLOROETHENE (TOTAL)	BDL	5.0	ug/L
TRANS-1,3-DICHLOROPROPENE	BDL	5.0	ug/L
1,1,1-TRICHLOROETHANE	BDL	5.0	ug/L
1,1,2-TRICHLOROETHANE	BDL	5.0	ug/L
TRICHLOROETHENE	BDL	5.0	ug/L
VINYL ACETATE	BDL	10	ug/L
VINYL CHLORIDE	BDL	10	ug/L
XYLENE (TOTAL)	BDL	5.0	ug/L
...			
SURROGATE RECOVERY			

DICHLOROETHANE-D4	94		% Rec
TOLUENE-D8	92		% Rec
BROMOFLUOROBENZENE	91		% Rec

GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510B

Analyst: P. SIMS Analysis Date: 16-NOV-99 Instrument: PREP Test: P233.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1000		mL
FINAL VOLUME	1.0		mL

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270C

Analyst: L. DOBBINS Analysis Date: 17-NOV-99 20:40 Instrument: GC/MS SVOA Test: 0505.3.0

Prep: GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510B P233.4.0

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	BDL	10	ug/L
ACENAPHTHYLENE	BDL	10	ug/L
ANTHRACENE	BDL	10	ug/L
BENZ(A)ANTHRACENE	BDL	10	ug/L
BENZO(A)PYRENE	BDL	10	ug/L
BENZO(B)FLUORANTHENE	BDL	10	ug/L
BENZO(G,H,I)PERYLENE	BDL	10	ug/L
BENZO(K)FLUORANTHENE	BDL	10	ug/L
BENZYL ALCOHOL	BDL	10	ug/L
BENZYLBUTYLPHTHALATE	BDL	10	ug/L
BIS(2-CHLOROETHOXY)METHANE	BDL	10	ug/L
BIS(2-CHLOROETHYL)ETHER	BDL	10	ug/L
BIS(2-CHLOROISOPROPYL)ETHER	BDL	10	ug/L
BIS(2-ETHYLHEXYL)PHTHALATE	17	10	ug/L
4-BROMOPHENYLPHENYLETHER	BDL	10	ug/L
CARBAZOLE	BDL	10	ug/L
4-CHLOROANILINE	BDL	10	ug/L
2-CHLORONAPHTHALENE	BDL	10	ug/L
4-CHLOROPHENYLPHENYLETHER	BDL	10	ug/L
CHRYSENE	BDL	10	ug/L
DIBENZ(A,H)ANTHRACENE	BDL	10	ug/L
DIBENZOFURAN	BDL	10	ug/L
1,2-DICHLOROBENZENE	BDL	10	ug/L
1,3-DICHLOROBENZENE	BDL	10	ug/L
1,4-DICHLOROBENZENE	BDL	10	ug/L
3,3'-DICHLOROBENZIDINE	BDL	20	ug/L
DIETHYLPHTHALATE	BDL	10	ug/L
DIMETHYLPHTHALATE	BDL	10	ug/L

HERITAGE ENVIRONMENTAL SERVICES, LLC Sample ID: A500550 LLMWA25

Parameter	Result	Det. Limit	Units
DI-N-BUTYLPHTHALATE	BDL	10	ug/L
DINITROBENZENES	BDL	50	ug/L
2,4-DINITROTOLUENE	BDL	10	ug/L
2,6-DINITROTOLUENE	BDL	10	ug/L
DI-N-OCTYLPHTHALATE	BDL	10	ug/L
FLUORANTHENE	BDL	10	ug/L
FLUORENE	BDL	10	ug/L
HEXACHLOROBENZENE	BDL	10	ug/L
HEXACHLOROBUTADIENE	BDL	10	ug/L
HEXACHLOROCYCLOPENTADIENE	BDL	10	ug/L
HEXACHLOROETHANE	BDL	10	ug/L
INDENO(1,2,3-CD)PYRENE	BDL	10	ug/L
ISOPHORONE	BDL	10	ug/L
2-METHYLNAPHTHALENE	BDL	10	ug/L
NAPHTHALENE	BDL	10	ug/L
2-NITROANILINE	BDL	50	ug/L
3-NITROANILINE	BDL	50	ug/L
4-NITROANILINE	BDL	50	ug/L
NITROBENZENE	BDL	10	ug/L
N-NITROSO-DIPHENYLAMINE	BDL	10	ug/L
N-NITROSO-DI-N-PROPYLAMINE	BDL	10	ug/L
PHENANTHRENE	BDL	10	ug/L
2-PICOLINE	BDL	50	ug/L
PYRENE	BDL	10	ug/L
PYRIDINE	BDL	50	ug/L
1,2,4,5-TETRACHLOROBENZENE	BDL	10	ug/L
TOLUENEDIAMINE	BDL	50	ug/L
1,2,4-TRICHLOROBENZENE	BDL	10	ug/L
BENZOIC ACID	BDL	50	ug/L
4-CHLORO-3-METHYLPHENOL	BDL	10	ug/L
2-CHLOROPHENOL	BDL	10	ug/L
2,4-DICHLOROPHENOL	BDL	10	ug/L
2,4-DIMETHYLPHENOL	BDL	10	ug/L
4,6-DINITRO-2-METHYLPHENOL	BDL	50	ug/L
2,4-DINITROPHENOL	BDL	50	ug/L
2-METHYLPHENOL	BDL	10	ug/L
4-METHYLPHENOL	BDL	10	ug/L
2-NITROPHENOL	BDL	10	ug/L
4-NITROPHENOL	BDL	50	ug/L
PENTACHLOROPHENOL	BDL	50	ug/L
PHENOL	BDL	10	ug/L
1,2,4,5-TETRACHLOROBENZENE	BDL	10	ug/L
2,4,5-TRICHLOROPHENOL	BDL	50	ug/L
2,4,6-TRICHLOROPHENOL	BDL	10	ug/L
SURROGATE RECOVERY			
2-FLUOROPHENOL	37		% Rec
PHENOL-D5	30		% Rec
NITROBENZENE-D5	84		% Rec
2-FLUOROBIPHENYL	84		% Rec
2,4,6-TRIBROMOPHENOL	58		% Rec
TERPHENYL-D14	61		% Rec

GC SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510B

Analyst: G. CLOUSE Analysis Date: 12-NOV-99 Instrument: PREP Test: P233.1.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1000		mL
FINAL VOLUME	10		mL

PCB/PESTICIDE SCAN GC:ECD SW846-8081

Analyst: B. WOOD Analysis Date: 13-NOV-99 09:55 Instrument: GC/ECD Test: O305.1.0

Prep: GC SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510B P233.1.0

Parameter	Result	Det. Limit	Units
ALPHA-BHC	BDL	0.05	ug/L
BETA-BHC	BDL	0.05	ug/L
DELTA-BHC	BDL	0.05	ug/L
GAMMA-BHC (LINDANE)	BDL	0.05	ug/L
HEPTACHLOR	BDL	0.05	ug/L
ALDRIN	BDL	0.05	ug/L
HEPTACHLOR EPOXIDE	BDL	0.05	ug/L
ENDOSULFAN I	BDL	0.05	ug/L
DIELDRIN	BDL	0.1	ug/L
4,4'-DDE	BDL	0.1	ug/L
ENDRIN	BDL	0.1	ug/L
ENDOSULFAN II	BDL	0.1	ug/L
4,4'-DDD	BDL	0.1	ug/L
ENDOSULFAN SULFATE	BDL	0.1	ug/L
4,4'-DDT	BDL	0.1	ug/L
METHOXYCHLOR	BDL	0.5	ug/L
ENDRIN ALDEHYDE	BDL	0.1	ug/L
ENDRIN KETONE	BDL	0.1	ug/L
ALPHA-CHLORDANE	BDL	0.5	ug/L
GAMMA-CHLORDANE	BDL	0.5	ug/L
TOXAPHENE	BDL	1	ug/L
PCB AROCLOR 1016	BDL	0.5	ug/L
PCB AROCLOR 1221	BDL	0.5	ug/L
PCB AROCLOR 1232	BDL	0.5	ug/L
PCB AROCLOR 1242	BDL	0.5	ug/L
PCB AROCLOR 1248	BDL	0.5	ug/L
PCB AROCLOR 1254	BDL	1	ug/L
PCB AROCLOR 1260	BDL	1	ug/L
...			
SURROGATE RECOVERY			

DECACHLOROBIPHENYL (DCB)	99.0		% Rec

FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

Analyst: D. BUSCO Analysis Date: 12-NOV-99 10:00 Instrument: PREP Test: P130.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL WEIGHT OR VOLUME	50		mL

ALUMINUM ICP SW846-6010B

Analyst: J. KRAMER Analysis Date: 12-NOV-99 23:28 Instrument: ICP Test: M101.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
ALUMINUM	0.083	0.050	mg/L

ANTIMONY ICP SW846-6010B
Analyst: J. KRAMER Analysis Date: 12-NOV-99 23:28 Instrument: ICP Test: M102.3.0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
ANTIMONY	BDL	0.030	mg/L

BARIUM ICP SW846-6010B
Analyst: J. KRAMER Analysis Date: 12-NOV-99 23:28 Instrument: ICP Test: M104.3.0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
BARIUM	0.020	0.010	mg/L

BERYLLIUM ICP SW846-6010B
Analyst: J. KRAMER Analysis Date: 12-NOV-99 23:28 Instrument: ICP Test: M105.3.0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
BERYLLIUM	BDL	0.0040	mg/L

CADMIUM ICP SW846-6010B
Analyst: J. KRAMER Analysis Date: 12-NOV-99 23:28 Instrument: ICP Test: M108.3.0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.0050	mg/L

CALCIUM ICP SW846-6010B
Analyst: J. KRAMER Analysis Date: 12-NOV-99 23:28 Instrument: ICP Test: M109.3.0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
CALCIUM	100	0.20	mg/L

CHROMIUM ICP SW846-6010B
Analyst: J. KRAMER Analysis Date: 12-NOV-99 23:28 Instrument: ICP Test: M110.3.0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
CHROMIUM	BDL	0.010	mg/L

COBALT ICP SW846-6010B
Analyst: J. KRAMER Analysis Date: 12-NOV-99 23:28 Instrument: ICP Test: M111.3.0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
COBALT	BDL	0.010	mg/L

COPPER ICP SW846-6010B
Analyst: J. KRAMER Analysis Date: 12-NOV-99 23:28 Instrument: ICP Test: M112.3.0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
COPPER	BDL	0.020	mg/L

IRON ICP SW846-6010B
Analyst: J. KRAMER Analysis Date: 12-NOV-99 23:28 Instrument: ICP Test: M115.3.0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

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Parameter	Result	Det. Limit	Units
IRON	0.32	0.025	mg/L

MAGNESIUM ICP SW846-6010B
Analyst: J. KRAMER Analysis Date: 12-NOV-99 23:28 Instrument: ICP Test: M118.3.0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
MAGNESIUM	38.	0.20	mg/L

MANGANESE ICP SW846-6010B
Analyst: J. KRAMER Analysis Date: 12-NOV-99 23:28 Instrument: ICP Test: M119.3.0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
MANGANESE	0.026	0.010	mg/L

NICKEL ICP SW846-6010B
Analyst: J. KRAMER Analysis Date: 12-NOV-99 23:28 Instrument: ICP Test: M122.3.0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
NICKEL	BDL	0.010	mg/L

POTASSIUM ICP SW846-6010B
Analyst: J. KRAMER Analysis Date: 12-NOV-99 23:28 Instrument: ICP Test: M126.3.0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
POTASSIUM	2.3	0.20	mg/L

SILVER ICP SW846-6010B
Analyst: J. KRAMER Analysis Date: 12-NOV-99 23:28 Instrument: ICP Test: M130.3.0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
SILVER	BDL	0.010	mg/L

SODIUM ICP SW846-6010B
Analyst: J. KRAMER Analysis Date: 12-NOV-99 23:28 Instrument: ICP Test: M131.3.0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
SODIUM	33.	0.20	mg/L

VANADIUM ICP SW846-6010B
Analyst: J. KRAMER Analysis Date: 12-NOV-99 23:28 Instrument: ICP Test: M138.3.0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
VANADIUM	BDL	0.010	mg/L

ZINC ICP SW846-6010B
Analyst: J. KRAMER Analysis Date: 12-NOV-99 23:28 Instrument: ICP Test: M139.3.0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
ZINC	BDL	0.020	mg/L

ARSENIC TRACE ICP SW846-6010B
Analyst: G. MAPP Analysis Date: 15-NOV-99 14:36 Instrument: TRACE ICP Test: M103.0.0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

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HERITAGE ENVIRONMENTAL SERVICES, LLC

Sample ID: A500550 LLMWA2

Parameter	Result	Det. Limit	Units
ARSENIC	BDL	0.0050	mg/L

LEAD TRACE ICP SW846-6010B

Analyst: G. MAPP Analysis Date: 15-NOV-99 14:36 Instrument: TRACE ICP Test: M116.0.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
LEAD	BDL	0.0050	mg/L

SELENIUM TRACE ICP SW846-6010B

Analyst: G. MAPP Analysis Date: 15-NOV-99 14:36 Instrument: TRACE ICP Test: M128.0.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
SELENIUM	BDL	0.0050	mg/L

THALLIUM TRACE ICP SW846-6010B

Analyst: G. MAPP Analysis Date: 15-NOV-99 14:36 Instrument: TRACE ICP Test: M134.0.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
THALLIUM	BDL	0.010	mg/L

MERCURY CVAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-7470A

Analyst: K. KAMARA Analysis Date: 12-NOV-99 10:00 Instrument: PREP Test: P131.6.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	100		mL
FINAL VOLUME	100		mL

MERCURY CVAA SW846-7470A

Analyst: R. DALAL Analysis Date: 15-NOV-99 13:45 Instrument: CVAA Test: M120.1.0

Prep: MERCURY CVAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-7470A P131.6.0

Parameter	Result	Det. Limit	Units
MERCURY	BDL	0.00020	mg/L

CYANIDE DISTILLATION SW846-9010A

Analyst: P. HANLIN Analysis Date: 17-NOV-99 15:00 Instrument: PREP Test: P101.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	250		mL
FINAL VOLUME	250		mL

CYANIDE, TOTAL (AUTOMATED) SW846-9012

Analyst: J. ALLEN Analysis Date: 18-NOV-99 15:00 Instrument: AUTO-ANALYZER Test: G101.4.0

Prep: CYANIDE DISTILLATION SW846-9010A P101.4.0

Parameter	Result	Det. Limit	Units
CYANIDE	BDL	0.005	mg/L

Sample Comments

BDL Below Detection Limit

Sample was not received on ice.
Sample chain of custody number 40534.

This Certificate shall not be reproduced, except in full, without the written approval of the lab.
The sample results relate only to the analytes of interest tested

 (continued on next page)

Sample Comments

or to the sample as received by the lab.

Approved : R.K. Spence

QUALITY ASSURANCE REPORT

Service Location
Heritage Environmental Services, LLC
Comercial Laboratory Operations
7901 West Morris Street
Indianapolis, IN 26231
(317) 243-8304

Report Date : 30-Nov-99

Submitter
DAN SAMMONS, MFWTP IND. WASTE LABORATORY
LOUISVILLE AND JEFFERSON COUNTY M.S.D.
P.O. BOX 740011
LOUISVILLE, KY 40201

Client ID	Lab Sample ID	Date/Time Sampled	Date Received	Date Complete
LLMWA25.....	A500550	09-Nov-99 11:32	10-Nov-99	24-Nov-99

CYANIDE, TOTAL (AUTOMATED) SW846-9012 G101.4
Prep : CYANIDE DISTILLATION SW846-9010A

R382012 Analyst: P HANLIN Run Date: 17-Nov-99 Instrument: PREP
Prep Reviewer: K FULLMER Review Date: 18-Nov-99

QCType	Lab ID	Source	Parameter	True/Sampl	Spike Val	RQL	Observed	Units	% Rec	RPD
BLA02	Q1041533		Analytical Run: R382014							
LFB02L	Q1041534		Analytical Run: R382014							
LFB02H	Q1041535		Analytical Run: R382014							
SPI02	Q1041536	A500389	Analytical Run: R382014							
DPS02	Q1041537	A500389	Analytical Run: R382014							
DUP02	Q1041538	A500396	Analytical Run: R382014							
SAMPLE	A500550	Rep: 0	Analytical Run: R382014							

R382014 Analyst: J ALLEN Run Date: 18-Nov-99 Instrument: AUTO-ANALYZER
Analytical Reviewer: B SHRAKE Review Date: 19-Nov-99

QCType	Lab ID	Source	Parameter	True/Sampl	Spike Val	RQL	Observed	Units	% Rec	RPD
CDL01	Q1041545		CYANIDE	0.02			0.0178	mg/L	89	
ICV01	Q1041546		CYANIDE	0.15			0.15	mg/L	100	
BLA02	Q1041533		CYANIDE				0.0015	mg/L		
LFB02L	Q1041534		CYANIDE	0.05			0.0492	mg/L	98.4	
LFB02H	Q1041535		CYANIDE	0.25			0.245	mg/L	98	
SPI02	Q1041536	A500389	CYANIDE	0.003	0.1		0.092	mg/L	89	
DPS02	Q1041537	A500389	CYANIDE	0.003	0.1		0.09	mg/L	87	2.3
CCV	Q1041551		CYANIDE	0.1			0.103	mg/L	103	
BLA01	Q1041552		CYANIDE				0.0013	mg/L		
DUP02	Q1041538	A500396	CYANIDE	0		BDL		mg/L		
SAMPLE	A500550		See Certificate of Analysis, Rep: 0							
CCV	Q1041553		CYANIDE	0.1			0.098	mg/L	98	
BLA01	Q1041554		CYANIDE				0.0007	mg/L		
CCVL	Q1041557		CYANIDE	0.1			0.099	mg/L	99	

Qualifiers
BDL Below Detection Limit

ALUMINUM ICP SW846-6010B M101.3
Prep : FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

R381547 Analyst: D BUSCO Run Date: 12-Nov-99 Instrument: PREP
Prep Reviewer: W WATNESS Review Date: 13-Nov-99

QCType	Lab ID	Source	Parameter	True/Sampl	Spike Val	RQL	Observed	Units	% Rec	RPD
BLA02	Q1038611	NA	Analytical Run: R381642							
LCS	Q1038612	SPEX	Analytical Run: R381642							
SPI02	Q1038613	A500651	Analytical Run: R381642							
DPS02	Q1038614	A500651	Analytical Run: R381642							
SAMPLE	A500550	Rep: 0	Analytical Run: R381642							

R381642 Analyst: J KRAMER Run Date: 12-Nov-99 Instrument: ICP
Analytical Reviewer: S ENDERSON Review Date: 15-Nov-99

QCType	Lab ID	Source	Parameter	True/Sampl	Spike Val	RQL	Observed	Units	% Rec	RPD
ICV01	Q1039060	PERKIN ELM	ALUMINUM	1			0.990	mg/L	99	
CDL01	Q1039064	INORGANIC	ALUMINUM	10			10.1	mg/L	101	
ICS-A	Q1039066	PERKIN-ELM	ALUMINUM	500			482.	mg/L	96.4	
BLA02	Q1038611	NA	ALUMINUM			<	0.0200	mg/L		
LCS	Q1038612	SPEX	ALUMINUM	20.0			19.6	mg/L	98	
SPI02	Q1038613	A500651	ALUMINUM	0	2.00		1.85	mg/L	92.5	
DPS02	Q1038614	A500651	ALUMINUM	0	2.00		1.82	mg/L	91	1.6

ALUMINUM ICP SW846-6010B M101.3 (cont.)
Prep : FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

QCType	Lab ID	Source	Parameter	True/Sampl	Spike Val	RQL	Observed	Units	% Rec	RPD
CCV	Q1039069	INORGANIC	ALUMINUM	5.00			4.95	mg/L	99	
BLA01	Q1039070	NA	ALUMINUM			<	0.0200	mg/L		
SAMPLE	A500550		See Certificate of Analysis, Rep: 0							
CCV	Q1039071	INORGANIC	ALUMINUM	5.00			4.90	mg/L	98	
BLA01	Q1039072	NA	ALUMINUM			<	0.0200	mg/L		
ICS-A	Q1039074	PERKIN-ELM	ALUMINUM	500			482.	mg/L	96.4	

Qualifiers
< Less Than Lower Detection Limit

ANTIMONY ICP SW846-6010B M102.3
Prep : FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

R381547 Analyst: D BUSCO Run Date: 12-Nov-99 Instrument: PREP
Prep Reviewer: W WATNESS Review Date: 13-Nov-99

QCType	Lab ID	Source	Parameter	True/Sampl	Spike Val	RQL	Observed	Units	% Rec	RPD
BLA02	Q1038611	NA	Analytical Run: R381642							
LCS	Q1038612	SPEX	Analytical Run: R381642							
SPI02	Q1038613	A500651	Analytical Run: R381642							
DPS02	Q1038614	A500651	Analytical Run: R381642							
SAMPLE	A500550	Rep: 0	Analytical Run: R381642							

R381642 Analyst: J KRAMER Run Date: 12-Nov-99 Instrument: ICP
Analytical Reviewer: S ENDERSON Review Date: 15-Nov-99

QCType	Lab ID	Source	Parameter	True/Sampl	Spike Val	RQL	Observed	Units	% Rec	RPD
ICV01	Q1039059	PERKIN ELM	ANTIMONY	1			1.02	mg/L	102	
CDL01	Q1039063	PERKIN ELM	ANTIMONY	0.120			0.112	mg/L	93.3	
ICS-A	Q1039065	PERKIN ELM	ANTIMONY	0.6			0.544	mg/L	90.7	
BLA02	Q1038611	NA	ANTIMONY			<	0.0120	mg/L		
LCS	Q1038612	SPEX	ANTIMONY	5.00			5.05	mg/L	101	
SPI02	Q1038613	A500651	ANTIMONY	0	0.500		0.517	mg/L	103.4	
DPS02	Q1038614	A500651	ANTIMONY	0	0.500		0.508	mg/L	101.6	1.8
CCV	Q1039069	INORGANIC	ANTIMONY	1			1.01	mg/L	101	
BLA01	Q1039070	NA	ANTIMONY				0.0133	mg/L		
SAMPLE	A500550		See Certificate of Analysis, Rep: 0							
CCV	Q1039071	INORGANIC	ANTIMONY	1			0.972	mg/L	97.2	
BLA01	Q1039072	NA	ANTIMONY				0.0206	mg/L		
CDL01	Q1039073	PERKIN ELM	ANTIMONY	0.120			0.127	mg/L	105.8	
ICS-A	Q1039075	PERKIN ELM	ANTIMONY	0.6			0.576	mg/L	96	

Qualifiers
< Less Than Lower Detection Limit

ARSENIC TRACE ICP SW846-6010B M103.0
Prep : FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

R381547 Analyst: D BUSCO Run Date: 12-Nov-99 Instrument: PREP
Prep Reviewer: W WATNESS Review Date: 13-Nov-99

QCType	Lab ID	Source	Parameter	True/Sampl	Spike Val	RQL	Observed	Units	% Rec	RPD
SAMPLE	A500550	Rep: 0	Analytical Run: R381780							
BLA02	Q1038615	NA	Analytical Run: R381780							
LCS	Q1038616	INORGANIC	Analytical Run: R381780							
SPI02	Q1038617	A500651	Analytical Run: R381780							
DPS02	Q1038618	A500651	Analytical Run: R381780							

R381780 Analyst: G MAPP Run Date: 15-Nov-99 Instrument: TRACE ICP
Analytical Reviewer: A HILSCHER Review Date: 16-Nov-99

QCType	Lab ID	Source	Parameter	True/Sampl	Spike Val	RQL	Observed	Units	% Rec	RPD
ICV01	Q1039895	PERKIN-ELM	ARSENIC	0.05			0.0485	mg/L	97	
CDL01	Q1039899	INORGANIC	ARSENIC	0.5			0.499	mg/L	99.8	
ICS-A	Q1039901	PERKIN ELM	ARSENIC	0.1			0.0992	mg/L	99.2	
CCV	Q1039910	INORGANIC	ARSENIC	0.1			0.0971	mg/L	97.1	
BLA01	Q1039911	NA	ARSENIC			<	0.00200	mg/L		
BLA02	Q1038615	NA	ARSENIC			<	0.00200	mg/L		
LCS	Q1038616	INORGANIC	ARSENIC	0.5			0.492	mg/L	98.4	
SPI02	Q1038617	A500651	ARSENIC	0	2		1.74	mg/L	87	
DPS02	Q1038618	A500651	ARSENIC	0	2		1.73	mg/L	86.5	0.6
SAMPLE	A500550		See Certificate of Analysis. Rep: 0							
CCV	Q1039912	INORGANIC	ARSENIC	0.1			0.0988	mg/L	98.8	
BLA01	Q1039913	NA	ARSENIC			<	0.00200	mg/L		
CDL01	Q1039920	PERKIN-ELM	ARSENIC	0.02			0.0202	mg/L	101	
ICS-A	Q1039922	PERKIN ELM	ARSENIC	0.1			0.0993	mg/L	99.3	

Qualifiers

< Less Than Lower Detection Limit

BARIUM ICP SW846-6010B **M104.3**

Prep : FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

R381547 Analyst: D BUSCO Run Date: 12-Nov-99 Instrument: PREP
Prep Reviewer: W WATNESS Review Date: 13-Nov-99

QCType	Lab ID	Source	Parameter	True/Sampl	Spike Val	RQL	Observed	Units	% Rec	RPD
BLA02	Q1038611	NA	Analytical Run: R381642							
LCS	Q1038612	SPEX	Analytical Run: R381642							
SPI02	Q1038613	A500651	Analytical Run: R381642							
DPS02	Q1038614	A500651	Analytical Run: R381642							
SAMPLE	A500550	Rep: 0	Analytical Run: R381642							

R381642 Analyst: J KRAMER Run Date: 12-Nov-99 Instrument: ICP
Analytical Reviewer: S ENDERSON Review Date: 15-Nov-99

QCType	Lab ID	Source	Parameter	True/Sampl	Spike Val	RQL	Observed	Units	% Rec	RPD
ICV01	Q1039060	PERKIN ELM	BARIUM	1			0.995	mg/L	99.5	
CDL01	Q1039064	INORGANIC	BARIUM	10			10.1	mg/L	101	
ICS-A	Q1039065	PERKIN ELM	BARIUM	0.500			0.465	mg/L	93	
BLA02	Q1038611	NA	BARIUM			<	0.00400	mg/L		
LCS	Q1038612	SPEX	BARIUM	20.0			19.5	mg/L	97.5	
SPI02	Q1038613	A500651	BARIUM	0	2.00		1.82	mg/L	91	
DPS02	Q1038614	A500651	BARIUM	0	2.00		1.79	mg/L	89.5	1.7
CCV	Q1039069	INORGANIC	BARIUM	5.00			4.86	mg/L	97.2	
BLA01	Q1039070	NA	BARIUM			<	0.00400	mg/L		
SAMPLE	A500550		See Certificate of Analysis. Rep: 0							
CCV	Q1039071	INORGANIC	BARIUM	5.00			4.84	mg/L	96.8	
BLA01	Q1039072	NA	BARIUM			<	0.00400	mg/L		
ICS-A	Q1039075	PERKIN ELM	BARIUM	0.500			0.467	mg/L	93.4	

Qualifiers

< Less Than Lower Detection Limit

BERYLLIUM ICP SW846-6010B **M105.3**

Prep : FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

R381547 Analyst: D BUSCO Run Date: 12-Nov-99 Instrument: PREP
Prep Reviewer: W WATNESS Review Date: 13-Nov-99

HERITAGE ENVIRONMENTAL SERVICES, LLC

QCType	Lab ID	Source	Parameter	True/Sampl	Spike Val	RQL	Observed	Units	% Rec	RPD
BLA02	Q1038611	NA	Analytical Run: R381642							
LCS	Q1038612	SPEX	Analytical Run: R381642							
SPI02	Q1038613	A500651	Analytical Run: R381642							
DPS02	Q1038614	A500651	Analytical Run: R381642							
SAMPLE	A500550	Rep: 0	Analytical Run: R381642							

R381642 Analyst: J KRAMER Run Date: 12-Nov-99 Instrument: ICP
Analytical Reviewer: S ENDERSON Review Date: 15-Nov-99

QCType	Lab ID	Source	Parameter	True/Sampl	Spike Val	RQL	Observed	Units	% Rec	RPD
ICV01	Q1039059	PERKIN ELM	BERYLLIUM	1			1.00	mg/L	100	
CDL01	Q1039064	INORGANIC	BERYLLIUM	10			10.1	mg/L	101	
ICS-A	Q1039065	PERKIN ELM	BERYLLIUM	0.500			0.447	mg/L	89.4	
BLA02	Q1038611	NA	BERYLLIUM			<	0.00160	mg/L		
LCS	Q1038612	SPEX	BERYLLIUM	0.500			0.485	mg/L	97	
SPI02	Q1038613	A500651	BERYLLIUM	0	0.050		0.0452	mg/L	90.4	
DPS02	Q1038614	A500651	BERYLLIUM	0	0.050		0.0439	mg/L	87.8	2.9
CCV	Q1039069	INORGANIC	BERYLLIUM	5.00			4.96	mg/L	99.2	
BLA01	Q1039070	NA	BERYLLIUM			<	0.00160	mg/L		
SAMPLE	A500550		See Certificate of Analysis, Rep: 0							
CCV	Q1039071	INORGANIC	BERYLLIUM	5.00			4.86	mg/L	97.2	
BLA01	Q1039072	NA	BERYLLIUM			<	0.00160	mg/L		
CDL01	Q1039073	PERKIN ELM	BERYLLIUM	0.010			0.00948	mg/L	94.8	
ICS-A	Q1039075	PERKIN ELM	BERYLLIUM	0.500			0.447	mg/L	89.4	

Qualifiers

< Less Than Lower Detection Limit

CADMIUM ICP SW846-6010B **M108.3**
Prep : FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

R381547 Analyst: D BUSCO Run Date: 12-Nov-99 Instrument: PREP
Prep Reviewer: W WATNESS Review Date: 13-Nov-99

QCType	Lab ID	Source	Parameter	True/Sampl	Spike Val	RQL	Observed	Units	% Rec	RPD
BLA02	Q1038611	NA	Analytical Run: R381642							
LCS	Q1038612	SPEX	Analytical Run: R381642							
SPI02	Q1038613	A500651	Analytical Run: R381642							
DPS02	Q1038614	A500651	Analytical Run: R381642							
SAMPLE	A500550	Rep: 0	Analytical Run: R381642							

R381642 Analyst: J KRAMER Run Date: 12-Nov-99 Instrument: ICP
Analytical Reviewer: S ENDERSON Review Date: 15-Nov-99

QCType	Lab ID	Source	Parameter	True/Sampl	Spike Val	RQL	Observed	Units	% Rec	RPD
ICV01	Q1039059	PERKIN ELM	CADMIUM	1			1.05	mg/L	105	
CDL01	Q1039064	INORGANIC	CADMIUM	10			10.2	mg/L	102	
ICS-A	Q1039065	PERKIN ELM	CADMIUM	1.00			0.864	mg/L	86.4	
BLA02	Q1038611	NA	CADMIUM			<	0.00200	mg/L		
LCS	Q1038612	SPEX	CADMIUM	0.500			0.493	mg/L	98.6	
SPI02	Q1038613	A500651	CADMIUM	0	0.050		0.0464	mg/L	92.8	
DPS02	Q1038614	A500651	CADMIUM	0	0.050		0.0465	mg/L	93	0.2
CCV	Q1039069	INORGANIC	CADMIUM	5.00			4.95	mg/L	99	
BLA01	Q1039070	NA	CADMIUM				0.00341	mg/L		
SAMPLE	A500550		See Certificate of Analysis, Rep: 0							
CCV	Q1039071	INORGANIC	CADMIUM	5.00			4.84	mg/L	96.8	
BLA01	Q1039072	NA	CADMIUM			<	0.00200	mg/L		
CDL01	Q1039073	PERKIN ELM	CADMIUM	0.010			0.0113	mg/L	113	
ICS-A	Q1039075	PERKIN ELM	CADMIUM	1.00			0.869	mg/L	86.9	

Qualifiers

< Less Than Lower Detection Limit

CALCIUM ICP SW846-6010B M109.3

Prep : FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

R381547 Analyst: D BUSCO Run Date: 12-Nov-99 Instrument: PREP
Prep Reviewer: W WATNESS Review Date: 13-Nov-99

QCType	Lab ID	Source	Parameter	True/Sampl	Spike Val	RQL	Observed	Units	% Rec	RPD
BLA02	Q1038611	NA	Analytical Run: R381642							
LCS	Q1038612	SPEX	Analytical Run: R381642							
SPI02	Q1038613	A500651	Analytical Run: R381642							
DPS02	Q1038614	A500651	Analytical Run: R381642							
SAMPLE	A500550	Rep: 0	Analytical Run: R381642							

R381642 Analyst: J KRAMER Run Date: 12-Nov-99 Instrument: ICP
Analytical Reviewer: S ENDERSON Review Date: 15-Nov-99

QCType	Lab ID	Source	Parameter	True/Sampl	Spike Val	RQL	Observed	Units	% Rec	RPD
ICV01	Q1039061	SPEX	CALCIUM	20			20.4	mg/L	102	
ICS-A	Q1039066	PERKIN-ELM	CALCIUM	500			466.	mg/L	93.2	
BLA02	Q1038611	NA	CALCIUM				0.0816	mg/L		
LCS	Q1038612	SPEX	CALCIUM	100			97.8	mg/L	97.8	
SPI02	Q1038613	A500651	CALCIUM	0	100		99.7	mg/L	99.7	
DPS02	Q1038614	A500651	CALCIUM	0	100		97.3	mg/L	97.3	2.4
CCV	Q1039069	INORGANIC	CALCIUM	50.0			49.0	mg/L	98	
BLA01	Q1039070	NA	CALCIUM			<	0.0800	mg/L		
SAMPLE	A500550		See Certificate of Analysis, Rep: 0							
CCV	Q1039071	INORGANIC	CALCIUM	50.0			47.8	mg/L	95.6	
BLA01	Q1039072	NA	CALCIUM			<	0.0800	mg/L		
ICS-A	Q1039074	PERKIN-ELM	CALCIUM	500			465.	mg/L	93	

Qualifiers

< Less Than Lower Detection Limit

CHROMIUM ICP SW846-6010B M110.3

Prep : FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

R381547 Analyst: D BUSCO Run Date: 12-Nov-99 Instrument: PREP
Prep Reviewer: W WATNESS Review Date: 13-Nov-99

QCType	Lab ID	Source	Parameter	True/Sampl	Spike Val	RQL	Observed	Units	% Rec	RPD
BLA02	Q1038611	NA	Analytical Run: R381642							
LCS	Q1038612	SPEX	Analytical Run: R381642							
SPI02	Q1038613	A500651	Analytical Run: R381642							
DPS02	Q1038614	A500651	Analytical Run: R381642							
SAMPLE	A500550	Rep: 0	Analytical Run: R381642							

R381642 Analyst: J KRAMER Run Date: 12-Nov-99 Instrument: ICP
Analytical Reviewer: S ENDERSON Review Date: 15-Nov-99

QCType	Lab ID	Source	Parameter	True/Sampl	Spike Val	RQL	Observed	Units	% Rec	RPD
ICV01	Q1039059	PERKIN ELM	CHROMIUM	1			1.02	mg/L	102	
CDL01	Q1039064	INORGANIC	CHROMIUM	10			10.1	mg/L	101	
ICS-A	Q1039065	PERKIN ELM	CHROMIUM	0.500			0.425	mg/L	85	
BLA02	Q1038611	NA	CHROMIUM			<	0.00400	mg/L		
LCS	Q1038612	SPEX	CHROMIUM	2.00			1.94	mg/L	97	
SPI02	Q1038613	A500651	CHROMIUM	0	0.200		0.182	mg/L	91	
DPS02	Q1038614	A500651	CHROMIUM	0	0.200		0.175	mg/L	87.5	3.9
CCV	Q1039069	INORGANIC	CHROMIUM	5.00			4.92	mg/L	98.4	
BLA01	Q1039070	NA	CHROMIUM			<	0.00400	mg/L		

CHROMIUM ICP SW846-6010B M110.3 (cont.)
Prep : FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

QCType	Lab ID	Source	Parameter	True/Sampl	Spike Val	RQL	Observed	Units	% Rec	RPD
SAMPLE	A500550		See Certificate of Analysis, Rep: 0							
CCV	Q1039071	INORGANIC	CHROMIUM	5.00			4.83	mg/L	96.6	
BLA01	Q1039072	NA	CHROMIUM			<	0.00400	mg/L		
CDL01	Q1039073	PERKIN ELM	CHROMIUM	0.020			0.0181	mg/L	90.5	
ICS-A	Q1039075	PERKIN ELM	CHROMIUM	0.500			0.427	mg/L	85.4	

Qualifiers
< Less Than Lower Detection Limit

COBALT ICP SW846-6010B M111.3
Prep : FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

R381547 Analyst: D BUSCO Run Date: 12-Nov-99 Instrument: PREP
Prep Reviewer: W WATNESS Review Date: 13-Nov-99

QCType	Lab ID	Source	Parameter	True/Sampl	Spike Val	RQL	Observed	Units	% Rec	RPD
BLA02	Q1038611	NA	Analytical Run: R381642							
LCS	Q1038612	SPEX	Analytical Run: R381642							
SPI02	Q1038613	A500651	Analytical Run: R381642							
DPS02	Q1038614	A500651	Analytical Run: R381642							
SAMPLE	A500550	Rep: 0	Analytical Run: R381642							

R381642 Analyst: J KRAMER Run Date: 12-Nov-99 Instrument: ICP
Analytical Reviewer: S ENDERSON Review Date: 15-Nov-99

QCType	Lab ID	Source	Parameter	True/Sampl	Spike Val	RQL	Observed	Units	% Rec	RPD
ICV01	Q1039059	PERKIN ELM	COBALT	1			1.04	mg/L	104	
CDL01	Q1039064	INORGANIC	COBALT	10			10.1	mg/L	101	
ICS-A	Q1039065	PERKIN ELM	COBALT	0.500			0.424	mg/L	84.8	
BLA02	Q1038611	NA	COBALT			<	0.00400	mg/L		
LCS	Q1038612	SPEX	COBALT	5.00			4.81	mg/L	96.2	
SPI02	Q1038613	A500651	COBALT	0	0.500		0.451	mg/L	90.2	
DPS02	Q1038614	A500651	COBALT	0	0.500		0.441	mg/L	88.2	2.2
CCV	Q1039069	INORGANIC	COBALT	5.00			4.89	mg/L	97.8	
BLA01	Q1039070	NA	COBALT			<	0.00400	mg/L		
SAMPLE	A500550		See Certificate of Analysis, Rep: 0							
CCV	Q1039071	INORGANIC	COBALT	5.00			4.81	mg/L	96.2	
BLA01	Q1039072	NA	COBALT			<	0.00400	mg/L		
CDL01	Q1039073	PERKIN ELM	COBALT	0.100			0.101	mg/L	101	
ICS-A	Q1039075	PERKIN ELM	COBALT	0.500			0.424	mg/L	84.8	

Qualifiers
< Less Than Lower Detection Limit

COPPER ICP SW846-6010B M112.3
Prep : FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

R381547 Analyst: D BUSCO Run Date: 12-Nov-99 Instrument: PREP
Prep Reviewer: W WATNESS Review Date: 13-Nov-99

QCType	Lab ID	Source	Parameter	True/Sampl	Spike Val	RQL	Observed	Units	% Rec	RPD
BLA02	Q1038611	NA	Analytical Run: R381642							
LCS	Q1038612	SPEX	Analytical Run: R381642							
SPI02	Q1038613	A500651	Analytical Run: R381642							
DPS02	Q1038614	A500651	Analytical Run: R381642							
SAMPLE	A500550	Rep: 0	Analytical Run: R381642							

HERITAGE ENVIRONMENTAL SERVICES, LLC

R381642	Analyst: J KRAMER	Run Date: 12-Nov-99	Instrument: ICP
Analytical	Reviewer: S ENDERSON	Review Date: 15-Nov-99	

QCType	Lab ID	Source	Parameter	True/Sampl	Spike Val	RQL	Observed	Units	% Rec	RPD
ICV01	Q1039059	PERKIN ELM	COPPER	1			0.998	mg/L	99.8	
CDL01	Q1039064	INORGANIC	COPPER	10			10.0	mg/L	100	
ICS-A	Q1039065	PERKIN ELM	COPPER	0.500			0.452	mg/L	90.4	
BLA02	Q1038611	NA	COPPER			<	0.00800	mg/L		
LCS	Q1038612	SPEX	COPPER	2.50			2.38	mg/L	95.2	
SPI02	Q1038613	A500651	COPPER	0	0.250		0.226	mg/L	90.4	
DPS02	Q1038614	A500651	COPPER	0	0.250		0.222	mg/L	88.8	1.8
CCV	Q1039069	INORGANIC	COPPER	5.00			4.81	mg/L	96.2	
BLA01	Q1039070	NA	COPPER			<	0.00800	mg/L		
SAMPLE	A500550		See Certificate of Analysis, Rep: 0							
CCV	Q1039071	INORGANIC	COPPER	5.00			4.76	mg/L	95.2	
BLA01	Q1039072	NA	COPPER			<	0.00800	mg/L		
CDL01	Q1039073	PERKIN ELM	COPPER	0.050			0.0510	mg/L	102	
ICS-A	Q1039075	PERKIN ELM	COPPER	0.500			0.457	mg/L	91.4	

Qualifiers

< Less Than Lower Detection Limit

IRON ICP SW846-6010B **M115.3**

Prep : FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

R381547	Analyst: D BUSCO	Run Date: 12-Nov-99	Instrument: PREP
Prep	Reviewer: W WATNESS	Review Date: 13-Nov-99	

QCType	Lab ID	Source	Parameter	True/Sampl	Spike Val	RQL	Observed	Units	% Rec	RPD
BLA02	Q1038611	NA	Analytical Run: R381642							
LCS	Q1038612	SPEX	Analytical Run: R381642							
SPI02	Q1038613	A500651	Analytical Run: R381642							
DPS02	Q1038614	A500651	Analytical Run: R381642							
SAMPLE	A500550	Rep: 0	Analytical Run: R381642							

R381642	Analyst: J KRAMER	Run Date: 12-Nov-99	Instrument: ICP
Analytical	Reviewer: S ENDERSON	Review Date: 15-Nov-99	

QCType	Lab ID	Source	Parameter	True/Sampl	Spike Val	RQL	Observed	Units	% Rec	RPD
ICV01	Q1039059	PERKIN ELM	IRON	1			1.02	mg/L	102	
CDL01	Q1039064	INORGANIC	IRON	10			10.0	mg/L	100	
ICS-A	Q1039066	PERKIN-ELM	IRON	200			173.	mg/L	86.5	
BLA02	Q1038611	NA	IRON			<	0.0100	mg/L		
LCS	Q1038612	SPEX	IRON	10.0			9.60	mg/L	96	
SPI02	Q1038613	A500651	IRON	0	1.00		0.922	mg/L	92.2	
DPS02	Q1038614	A500651	IRON	0	1.00		0.894	mg/L	89.4	3.1
CCV	Q1039069	INORGANIC	IRON	5.00			4.86	mg/L	97.2	
BLA01	Q1039070	NA	IRON			<	0.0100	mg/L		
SAMPLE	A500550		See Certificate of Analysis, Rep: 0							
CCV	Q1039071	INORGANIC	IRON	5.00			4.77	mg/L	95.4	
BLA01	Q1039072	NA	IRON			<	0.0100	mg/L		
ICS-A	Q1039074	PERKIN-ELM	IRON	200			172.	mg/L	86	

Qualifiers

< Less Than Lower Detection Limit

LEAD TRACE ICP SW846-6010B **M116.0**

Prep : FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

R381547	Analyst: D BUSCO	Run Date: 12-Nov-99	Instrument: PREP
Prep	Reviewer: W WATNESS	Review Date: 13-Nov-99	

HERITAGE ENVIRONMENTAL SERVICES, LLC

QCType	Lab ID	Source	Parameter	True/Sampl	Spike Val	RQL	Observed	Units	% Rec	RPD
SAMPLE	A500550	Rep: 0	Analytical Run: R381780							
BLA02	Q1038615	NA	Analytical Run: R381780							
LCS	Q1038616	INORGANIC	Analytical Run: R381780							
SPI02	Q1038617	A500651	Analytical Run: R381780							
DPS02	Q1038618	A500651	Analytical Run: R381780							

R381780 Analyst: G MAPP Run Date: 15-Nov-99 Instrument: TRACE ICP
Analytical Reviewer: A HILSCHER Review Date: 16-Nov-99

QCType	Lab ID	Source	Parameter	True/Sampl	Spike Val	RQL	Observed	Units	% Rec	RPD
ICV01	Q1039895	PERKIN-ELM	LEAD	0.05			0.0515	mg/L	103	
CDL01	Q1039899	INORGANIC	LEAD	0.5			0.506	mg/L	101.2	
ICS-A	Q1039901	PERKIN ELM	LEAD	0.05			0.0552	mg/L	110.4	
CCV	Q1039910	INORGANIC	LEAD	0.1			0.0983	mg/L	98.3	
BLA01	Q1039911	NA	LEAD			<	0.00200	mg/L		
BLA02	Q1038615	NA	LEAD			<	0.00200	mg/L		
LCS	Q1038616	INORGANIC	LEAD	0.5			0.488	mg/L	97.6	
SPI02	Q1038617	A500651	LEAD	0	0.5		0.430	mg/L	86	
DPS02	Q1038618	A500651	LEAD	0	0.5		0.427	mg/L	85.4	0.7
SAMPLE	A500550		See Certificate of Analysis, Rep: 0							
CCV	Q1039912	INORGANIC	LEAD	0.1			0.0974	mg/L	97.4	
BLA01	Q1039913	NA	LEAD			<	0.00200	mg/L		
CDL01	Q1039920	PERKIN-ELM	LEAD	0.006			0.00799	mg/L	133.2	
ICS-A	Q1039922	PERKIN ELM	LEAD	0.05			0.0531	mg/L	106.2	

Qualifiers

< Less Than Lower Detection Limit

MAGNESIUM ICP SW846-6010B **M118.3**
Prep : FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

R381547 Analyst: D BUSCO Run Date: 12-Nov-99 Instrument: PREP
Prep Reviewer: W WATNESS Review Date: 13-Nov-99

QCType	Lab ID	Source	Parameter	True/Sampl	Spike Val	RQL	Observed	Units	% Rec	RPD
BLA02	Q1038611	NA	Analytical Run: R381642							
LCS	Q1038612	SPEX	Analytical Run: R381642							
SPI02	Q1038613	A500651	Analytical Run: R381642							
DPS02	Q1038614	A500651	Analytical Run: R381642							
SAMPLE	A500550	Rep: 0	Analytical Run: R381642							

R381642 Analyst: J KRAMER Run Date: 12-Nov-99 Instrument: ICP
Analytical Reviewer: S ENDERSON Review Date: 15-Nov-99

QCType	Lab ID	Source	Parameter	True/Sampl	Spike Val	RQL	Observed	Units	% Rec	RPD
ICV01	Q1039061	SPEX	MAGNESIUM	20			20.5	mg/L	102.5	
ICS-A	Q1039066	PERKIN-ELM	MAGNESIUM	500			484.	mg/L	96.8	
BLA02	Q1038611	NA	MAGNESIUM			<	0.0800	mg/L		
LCS	Q1038612	SPEX	MAGNESIUM	100			99.1	mg/L	99.1	
SPI02	Q1038613	A500651	MAGNESIUM	0	100		101.	mg/L	101	
DPS02	Q1038614	A500651	MAGNESIUM	0	100		98.9	mg/L	98.9	2.1
CCV	Q1039069	INORGANIC	MAGNESIUM	50.0			49.2	mg/L	98.4	
BLA01	Q1039070	NA	MAGNESIUM			<	0.0800	mg/L		
SAMPLE	A500550		See Certificate of Analysis, Rep: 0							
CCV	Q1039071	INORGANIC	MAGNESIUM	50.0			48.5	mg/L	97	
BLA01	Q1039072	NA	MAGNESIUM			<	0.0800	mg/L		
ICS-A	Q1039074	PERKIN-ELM	MAGNESIUM	500			483.	mg/L	96.6	

Qualifiers

< Less Than Lower Detection Limit

MANGANESE ICP SW846-6010B M119.3
Prep : FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

R381547 Analyst: D BUSCO Run Date: 12-Nov-99 Instrument: PREP
Prep Reviewer: W WATNESS Review Date: 13-Nov-99

QCType	Lab ID	Source	Parameter	True/Sampl	Spike Val	RQL	Observed	Units	% Rec	RPD
BLA02	Q1038611	NA	Analytical Run: R381642							
LCS	Q1038612	SPEX	Analytical Run: R381642							
SPI02	Q1038613	A500651	Analytical Run: R381642							
DPS02	Q1038614	A500651	Analytical Run: R381642							
SAMPLE	A500550	Rep: 0	Analytical Run: R381642							

R381642 Analyst: J KRAMER Run Date: 12-Nov-99 Instrument: ICP
Analytical Reviewer: S ENDERSON Review Date: 15-Nov-99

QCType	Lab ID	Source	Parameter	True/Sampl	Spike Val	RQL	Observed	Units	% Rec	RPD
ICV01	Q1039059	PERKIN ELM	MANGANESE	1			1.03	mg/L	103	
CDL01	Q1039064	INORGANIC	MANGANESE	10			10.1	mg/L	101	
ICS-A	Q1039065	PERKIN ELM	MANGANESE	0.500			0.438	mg/L	87.6	
BLA02	Q1038611	NA	MANGANESE			<	0.00400	mg/L		
LCS	Q1038612	SPEX	MANGANESE	5.00			4.84	mg/L	96.8	
SPI02	Q1038613	A500651	MANGANESE	0	0.500		0.456	mg/L	91.2	
DPS02	Q1038614	A500651	MANGANESE	0	0.500		0.445	mg/L	89	2.4
CCV	Q1039069	INORGANIC	MANGANESE	5.00			4.92	mg/L	98.4	
BLA01	Q1039070	NA	MANGANESE			<	0.00400	mg/L		
SAMPLE	A500550		See Certificate of Analysis, Rep: 0							
CCV	Q1039071	INORGANIC	MANGANESE	5.00			4.84	mg/L	96.8	
BLA01	Q1039072	NA	MANGANESE			<	0.00400	mg/L		
CDL01	Q1039073	PERKIN ELM	MANGANESE	0.030			0.0315	mg/L	105	
ICS-A	Q1039075	PERKIN ELM	MANGANESE	0.500			0.438	mg/L	87.6	

Qualifiers
< Less Than Lower Detection Limit

MERCURY CVAA SW846-7470A M120.1
Prep : MERCURY CVAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-7470A

R381698 Analyst: K KAMARA Run Date: 12-Nov-99 Instrument: PREP
Prep Reviewer: S O'NEAL Review Date: 16-Nov-99

QCType	Lab ID	Source	Parameter	True/Sampl	Spike Val	RQL	Observed	Units	% Rec	RPD
LCS	Q1039437		Analytical Run: R381791							
BLA02	Q1039438		Analytical Run: R381791							
SPI02	Q1039439	A500536	Analytical Run: R381791							
DPS02	Q1039440	A500536	Analytical Run: R381791							
SAMPLE	A500550	Rep: 0	Analytical Run: R381791							

R381791 Analyst: R DALAL Run Date: 15-Nov-99 Instrument: CVAA
Analytical Reviewer: S O'NEAL Review Date: 16-Nov-99

QCType	Lab ID	Source	Parameter	True/Sampl	Spike Val	RQL	Observed	Units	% Rec	RPD
ICV01	Q1039990		MERCURY	0.002			0.00199	mg/L	99.5	
CDL01	Q1039994		MERCURY	0.0002			0.0002	mg/L	100	
LCS	Q1039437		MERCURY	0.002			0.00214	mg/L	107	
BLA02	Q1039438		MERCURY			<	0.00008	mg/L		
SPI02	Q1039439	A500536	MERCURY	0	0.001		0.00107	mg/L	107	
DPS02	Q1039440	A500536	MERCURY	0	0.001		0.00102	mg/L	102	4.8
CCV	Q1039997		MERCURY	0.003			0.00264	mg/L	88	
BLA01	Q1039998		MERCURY			<	0.00008	mg/L		
SAMPLE	A500550		See Certificate of Analysis, Rep: 0							

MERCURY CVAA SW846-7470A M120.1 (cont.)
Prep : MERCURY CVAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-7470A

QCType	Lab ID	Source	Parameter	True/Sampl	Spike Val	RQL	Observed	Units	% Rec	RPD
CCV	Q1039999		MERCURY	0.003			0.0032	mg/L	106.7	
BLA01	Q1040000		MERCURY			<	0.00008	mg/L		
CDL01	Q1040007		MERCURY	0.0002			0.0002	mg/L	100	

Qualifiers
< Less Than Lower Detection Limit

NICKEL ICP SW846-6010B M122.3
Prep : FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

R381547 Analyst: D BUSCO Run Date: 12-Nov-99 Instrument: PREP
Prep Reviewer: W WATNESS Review Date: 13-Nov-99

QCType	Lab ID	Source	Parameter	True/Sampl	Spike Val	RQL	Observed	Units	% Rec	RPD
BLA02	Q1038611	NA	Analytical Run: R381642							
LCS	Q1038612	SPEX	Analytical Run: R381642							
SPI02	Q1038613	A500651	Analytical Run: R381642							
DPS02	Q1038614	A500651	Analytical Run: R381642							
SAMPLE	A500550	Rep: 0	Analytical Run: R381642							

R381642 Analyst: J KRAMER Run Date: 12-Nov-99 Instrument: ICP
Analytical Reviewer: S ENDERSON Review Date: 15-Nov-99

QCType	Lab ID	Source	Parameter	True/Sampl	Spike Val	RQL	Observed	Units	% Rec	RPD
ICV01	Q1039059	PERKIN ELM	NICKEL	1			1.04	mg/L	104	
CDL01	Q1039064	INORGANIC	NICKEL	10			10.1	mg/L	101	
ICS-A	Q1039065	PERKIN ELM	NICKEL	1.00			0.838	mg/L	83.8	
BLA02	Q1038611	NA	NICKEL			<	0.00400	mg/L		
LCS	Q1038612	SPEX	NICKEL	5.00			4.83	mg/L	96.6	
SPI02	Q1038613	A500651	NICKEL	0	0.500		0.455	mg/L	91	
DPS02	Q1038614	A500651	NICKEL	0	0.500		0.445	mg/L	89	2.2
CCV	Q1039069	INORGANIC	NICKEL	5.00			4.88	mg/L	97.6	
BLA01	Q1039070	NA	NICKEL			<	0.00400	mg/L		
SAMPLE	A500550		See Certificate of Analysis, Rep: 0							
CCV	Q1039071	INORGANIC	NICKEL	5.00			4.80	mg/L	96	
BLA01	Q1039072	NA	NICKEL			<	0.00400	mg/L		
CDL01	Q1039073	PERKIN ELM	NICKEL	0.080			0.0842	mg/L	105.3	
ICS-A	Q1039075	PERKIN ELM	NICKEL	1.00			0.841	mg/L	84.1	

Qualifiers
< Less Than Lower Detection Limit

POTASSIUM ICP SW846-6010B M126.3
Prep : FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

R381547 Analyst: D BUSCO Run Date: 12-Nov-99 Instrument: PREP
Prep Reviewer: W WATNESS Review Date: 13-Nov-99

QCType	Lab ID	Source	Parameter	True/Sampl	Spike Val	RQL	Observed	Units	% Rec	RPD
BLA02	Q1038611	NA	Analytical Run: R381642							
LCS	Q1038612	SPEX	Analytical Run: R381642							
SPI02	Q1038613	A500651	Analytical Run: R381642							
DPS02	Q1038614	A500651	Analytical Run: R381642							
SAMPLE	A500550	Rep: 0	Analytical Run: R381642							

R381642 Analyst: J KRAMER Run Date: 12-Nov-99 Instrument: ICP
Analytical Reviewer: S ENDERSON Review Date: 15-Nov-99

QCType	Lab ID	Source	Parameter	True/Sampl	Spike Val	RQL	Observed	Units	% Rec	RPD
ICV01	Q1039060	PERKIN ELM	POTASSIUM	10			9.97	mg/L	99.7	
ICV01	Q1039061	SPEX	POTASSIUM	20			20.4	mg/L	102	
BLA02	Q1038611	NA	POTASSIUM			<	0.0800	mg/L		
LCS	Q1038612	SPEX	POTASSIUM	100			101.	mg/L	101	
SPI02	Q1038613	A500651	POTASSIUM	0	100		103.	mg/L	103	
DPS02	Q1038614	A500651	POTASSIUM	0	100		102.	mg/L	102	1
CCV	Q1039069	INORGANIC	POTASSIUM	50			50.0	mg/L	100	
BLA01	Q1039070	NA	POTASSIUM			<	0.0800	mg/L		
SAMPLE	A500550		See Certificate of Analysis, Rep: 0							
CCV	Q1039071	INORGANIC	POTASSIUM	50			49.9	mg/L	99.8	
BLA01	Q1039072	NA	POTASSIUM			<	0.0800	mg/L		

Qualifiers

< Less Than Lower Detection Limit

SELENIUM TRACE ICP SW846-6010B **M128.0**

Prep : FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

R381547 Analyst: D BUSCO Run Date: 12-Nov-99 Instrument: PREP
Prep Reviewer: W WATNESS Review Date: 13-Nov-99

QCType	Lab ID	Source	Parameter	True/Sampl	Spike Val	RQL	Observed	Units	% Rec	RPD
SAMPLE	A500550	Rep: 0	Analytical Run: R381780							
BLA02	Q1038615	NA	Analytical Run: R381780							
LCS	Q1038616	INORGANIC	Analytical Run: R381780							
SPI02	Q1038617	A500651	Analytical Run: R381780							
DPS02	Q1038618	A500651	Analytical Run: R381780							

R381780 Analyst: G MAPP Run Date: 15-Nov-99 Instrument: TRACE ICP
Analytical Reviewer: A HILSCHER Review Date: 16-Nov-99

QCType	Lab ID	Source	Parameter	True/Sampl	Spike Val	RQL	Observed	Units	% Rec	RPD
ICV01	Q1039895	PERKIN-ELM	SELENIUM	0.05			0.0503	mg/L	100.6	
CDL01	Q1039899	INORGANIC	SELENIUM	0.5			0.510	mg/L	102	
ICS-A	Q1039901	PERKIN ELM	SELENIUM	0.05			0.0514	mg/L	102.8	
CCV	Q1039910	INORGANIC	SELENIUM	0.1			0.0982	mg/L	98.2	
BLA01	Q1039911	NA	SELENIUM			<	0.00200	mg/L		
BLA02	Q1038615	NA	SELENIUM			<	0.00200	mg/L		
LCS	Q1038616	INORGANIC	SELENIUM	0.5			0.508	mg/L	101.6	
SPI02	Q1038617	A500651	SELENIUM	0	2		1.86	mg/L	93	
DPS02	Q1038618	A500651	SELENIUM	0	2		1.85	mg/L	92.5	0.5
SAMPLE	A500550		See Certificate of Analysis, Rep: 0							
CCV	Q1039912	INORGANIC	SELENIUM	0.1			0.102	mg/L	102	
BLA01	Q1039913	NA	SELENIUM			<	0.00200	mg/L		
CDL01	Q1039920	PERKIN-ELM	SELENIUM	0.01			0.00622	mg/L	62.2	
ICS-A	Q1039922	PERKIN ELM	SELENIUM	0.05			0.0452	mg/L	90.4	

Qualifiers

< Less Than Lower Detection Limit

SILVER ICP SW846-6010B **M130.3**

Prep : FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

R381547 Analyst: D BUSCO Run Date: 12-Nov-99 Instrument: PREP
Prep Reviewer: W WATNESS Review Date: 13-Nov-99

QCType	Lab ID	Source	Parameter	True/Sampl	Spike Val	RQL	Observed	Units	% Rec	RPD
BLA02	Q1038611	NA	Analytical Run: R381642							
LCS	Q1038612	SPEX	Analytical Run: R381642							
SPI02	Q1038613	A500651	Analytical Run: R381642							

QCType	Lab ID	Source	Parameter	True/Sampl	Spike Val	RQL	Observed	Units	% Rec	RPD
DPS02	Q1038614	A500651	Analytical Run: R381642							
SAMPLE	A500550	Rep: 0	Analytical Run: R381642							

R381642 Analyst: J KRAMER Run Date: 12-Nov-99 Instrument: ICP
Analytical Reviewer: S ENDERSON Review Date: 15-Nov-99

QCType	Lab ID	Source	Parameter	True/Sampl	Spike Val	RQL	Observed	Units	% Rec	RPD
ICV01	Q1039060	PERKIN ELM	SILVER	0.5			0.504	mg/L	100.8	
CDL01	Q1039064	INORGANIC	SILVER	2			2.02	mg/L	101	
ICS-A	Q1039065	PERKIN ELM	SILVER	0.2			0.176	mg/L	88	
BLA02	Q1038611	NA	SILVER			<	0.00400	mg/L		
LCS	Q1038612	SPEX	SILVER	0.500			0.484	mg/L	96.8	
SPI02	Q1038613	A500651	SILVER	0	0.050		0.0405	mg/L	81	
DPS02	Q1038614	A500651	SILVER	0	0.050		0.0409	mg/L	81.8	1
CCV	Q1039069	INORGANIC	SILVER	1.00			0.975	mg/L	97.5	
BLA01	Q1039070	NA	SILVER			<	0.00400	mg/L		
SAMPLE	A500550		See Certificate of Analysis, Rep: 0							
CCV	Q1039071	INORGANIC	SILVER	1.00			0.962	mg/L	96.2	
BLA01	Q1039072	NA	SILVER			<	0.00400	mg/L		
CDL01	Q1039073	PERKIN ELM	SILVER	0.020			0.0193	mg/L	96.5	
ICS-A	Q1039075	PERKIN ELM	SILVER	0.2			0.178	mg/L	89	

Qualifiers

< Less Than Lower Detection Limit

SODIUM ICP SW846-6010B **M131.3**
Prep : FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

R381547 Analyst: D BUSCO Run Date: 12-Nov-99 Instrument: PREP
Prep Reviewer: W WATNESS Review Date: 13-Nov-99

QCType	Lab ID	Source	Parameter	True/Sampl	Spike Val	RQL	Observed	Units	% Rec	RPD
BLA02	Q1038611	NA	Analytical Run: R381642							
LCS	Q1038612	SPEX	Analytical Run: R381642							
SPI02	Q1038613	A500651	Analytical Run: R381642							
DPS02	Q1038614	A500651	Analytical Run: R381642							
SAMPLE	A500550	Rep: 0	Analytical Run: R381642							

R381642 Analyst: J KRAMER Run Date: 12-Nov-99 Instrument: ICP
Analytical Reviewer: S ENDERSON Review Date: 15-Nov-99

QCType	Lab ID	Source	Parameter	True/Sampl	Spike Val	RQL	Observed	Units	% Rec	RPD
ICV01	Q1039060	PERKIN ELM	SODIUM	1			0.998	mg/L	99.8	
ICV01	Q1039061	SPEX	SODIUM	20			20.2	mg/L	101	
BLA02	Q1038611	NA	SODIUM			<	0.0800	mg/L		
LCS	Q1038612	SPEX	SODIUM	100			98.4	mg/L	98.4	
SPI02	Q1038613	A500651	SODIUM	0	100		99.8	mg/L	99.8	
DPS02	Q1038614	A500651	SODIUM	0	100		98.6	mg/L	98.6	1.2
CCV	Q1039069	INORGANIC	SODIUM	50			49.1	mg/L	98.2	
BLA01	Q1039070	NA	SODIUM			<	0.0800	mg/L		
SAMPLE	A500550		See Certificate of Analysis, Rep: 0							
CCV	Q1039071	INORGANIC	SODIUM	50			48.7	mg/L	97.4	
BLA01	Q1039072	NA	SODIUM			<	0.0800	mg/L		

Qualifiers

< Less Than Lower Detection Limit

THALLIUM TRACE ICP SW846-6010B **M134.0**
Prep : FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

HERITAGE ENVIRONMENTAL SERVICES, LLC

R381547	Analyst: D BUSCO	Run Date: 12-Nov-99	Instrument: PREP
Prep	Reviewer: W WATNESS	Review Date: 13-Nov-99	

QCType	Lab ID	Source	Parameter	True/Sampl	Spike Val	RQL	Observed	Units	% Rec	RPD
SAMPLE	A500550	Rep: 0	Analytical Run: R381780							
BLA02	Q1038615	NA	Analytical Run: R381780							
LCS	Q1038616	INORGANIC	Analytical Run: R381780							
SPI02	Q1038617	A500651	Analytical Run: R381780							
DPS02	Q1038618	A500651	Analytical Run: R381780							

R381780	Analyst: G MAPP	Run Date: 15-Nov-99	Instrument: TRACE ICP
Analytical	Reviewer: A HILSCHER	Review Date: 16-Nov-99	

QCType	Lab ID	Source	Parameter	True/Sampl	Spike Val	RQL	Observed	Units	% Rec	RPD
ICV01	Q1039895	PERKIN-ELM	THALLIUM	0.05			0.0477	mg/L	95.4	
CDL01	Q1039899	INORGANIC	THALLIUM	0.5			0.495	mg/L	99	
ICS-A	Q1039901	PERKIN ELM	THALLIUM	0.1			0.0865	mg/L	86.5	
CCV	Q1039910	INORGANIC	THALLIUM	0.1			0.0998	mg/L	99.8	
BLA01	Q1039911	NA	THALLIUM			<	0.00400	mg/L		
BLA02	Q1038615	NA	THALLIUM			<	0.00400	mg/L		
LCS	Q1038616	INORGANIC	THALLIUM	0.5			0.501	mg/L	100.2	
SPI02	Q1038617	A500651	THALLIUM	0	3		2.70	mg/L	90	
DPS02	Q1038618	A500651	THALLIUM	0	3		2.69	mg/L	89.7	0.3
SAMPLE	A500550		See Certificate of Analysis, Rep: 0							
CCV	Q1039912	INORGANIC	THALLIUM	0.1			0.100	mg/L	100	
BLA01	Q1039913	NA	THALLIUM			<	0.00400	mg/L		
CDL01	Q1039920	PERKIN-ELM	THALLIUM	0.02			0.0214	mg/L	107	
ICS-A	Q1039922	PERKIN ELM	THALLIUM	0.1			0.0880	mg/L	88	

Qualifiers

< Less Than Lower Detection Limit

VANADIUM ICP SW846-6010B **M138.3**

Prep : FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

R381547	Analyst: D BUSCO	Run Date: 12-Nov-99	Instrument: PREP
Prep	Reviewer: W WATNESS	Review Date: 13-Nov-99	

QCType	Lab ID	Source	Parameter	True/Sampl	Spike Val	RQL	Observed	Units	% Rec	RPD
BLA02	Q1038611	NA	Analytical Run: R381642							
LCS	Q1038612	SPEX	Analytical Run: R381642							
SPI02	Q1038613	A500651	Analytical Run: R381642							
DPS02	Q1038614	A500651	Analytical Run: R381642							
SAMPLE	A500550	Rep: 0	Analytical Run: R381642							

R381642	Analyst: J KRAMER	Run Date: 12-Nov-99	Instrument: ICP
Analytical	Reviewer: S ENDERSON	Review Date: 15-Nov-99	

QCType	Lab ID	Source	Parameter	True/Sampl	Spike Val	RQL	Observed	Units	% Rec	RPD
ICV01	Q1039059	PERKIN ELM	VANADIUM	1			1.02	mg/L	102	
CDL01	Q1039064	INORGANIC	VANADIUM	10			10.1	mg/L	101	
ICS-A	Q1039065	PERKIN ELM	VANADIUM	0.500			0.444	mg/L	88.8	
BLA02	Q1038611	NA	VANADIUM			<	0.00400	mg/L		
LCS	Q1038612	SPEX	VANADIUM	5.00			4.94	mg/L	98.8	
SPI02	Q1038613	A500651	VANADIUM	0	0.500		0.466	mg/L	93.2	
DPS02	Q1038614	A500651	VANADIUM	0	0.500		0.456	mg/L	91.2	2.2
CCV	Q1039069	INORGANIC	VANADIUM	5.00			4.98	mg/L	99.6	
BLA01	Q1039070	NA	VANADIUM			<	0.00400	mg/L		
SAMPLE	A500550		See Certificate of Analysis, Rep: 0							
CCV	Q1039071	INORGANIC	VANADIUM	5.00			4.91	mg/L	98.2	
BLA01	Q1039072	NA	VANADIUM			<	0.00400	mg/L		

VANADIUM ICP SW846-6010B M138.3 (cont.)
Prep : FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

QCType	Lab ID	Source	Parameter	True/Sampl	Spike Val	RQL	Observed	Units	% Rec	RPD
CDL01	Q1039073	PERKIN ELM	VANADIUM	0.100			0.101	mg/L	101	
ICS-A	Q1039075	PERKIN ELM	VANADIUM	0.500			0.450	mg/L	90	

Qualifiers
< Less Than Lower Detection Limit

ZINC ICP SW846-6010B M139.3
Prep : FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

R381547 Analyst: D BUSCO Run Date: 12-Nov-99 Instrument: PREP
Prep Reviewer: W WATNESS Review Date: 13-Nov-99

QCType	Lab ID	Source	Parameter	True/Sampl	Spike Val	RQL	Observed	Units	% Rec	RPD
BLA02	Q1038611	NA	Analytical Run: R381642							
LCS	Q1038612	SPEX	Analytical Run: R381642							
SPI02	Q1038613	A500651	Analytical Run: R381642							
DPS02	Q1038614	A500651	Analytical Run: R381642							
SAMPLE	A500550	Rep: 0	Analytical Run: R381642							

R381642 Analyst: J KRAMER Run Date: 12-Nov-99 Instrument: ICP
Analytical Reviewer: S ENDERSON Review Date: 15-Nov-99

QCType	Lab ID	Source	Parameter	True/Sampl	Spike Val	RQL	Observed	Units	% Rec	RPD
ICV01	Q1039059	PERKIN ELM	ZINC	1			1.04	mg/L	104	
CDL01	Q1039064	INORGANIC	ZINC	10			10.1	mg/L	101	
ICS-A	Q1039065	PERKIN ELM	ZINC	1.00			0.911	mg/L	91.1	
BLA02	Q1038611	NA	ZINC				0.0201	mg/L		
LCS	Q1038612	SPEX	ZINC	5.00			5.03	mg/L	100.6	
SPI02	Q1038613	A500651	ZINC	0.0234	0.500		0.506	mg/L	96.5	
DPS02	Q1038614	A500651	ZINC	0.0234	0.500		0.491	mg/L	93.5	3.2
CCV	Q1039069	INORGANIC	ZINC	5.00			4.96	mg/L	99.2	
BLA01	Q1039070	NA	ZINC			<	0.00800	mg/L		
SAMPLE	A500550		See Certificate of Analysis, Rep: 0							
CCV	Q1039071	INORGANIC	ZINC	5.00			4.87	mg/L	97.4	
BLA01	Q1039072	NA	ZINC			<	0.00800	mg/L		
CDL01	Q1039073	PERKIN ELM	ZINC	0.040			0.0451	mg/L	112.8	
ICS-A	Q1039075	PERKIN ELM	ZINC	1.00			0.913	mg/L	91.3	

Qualifiers
< Less Than Lower Detection Limit

PCB/PESTICIDE SCAN GC:ECD SW846-8081 O305.1
Prep : GC SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510B

R381678 Analyst: G CLOUSE Run Date: 12-Nov-99 Instrument: PREP
Prep Reviewer: L JONES Review Date: 15-Nov-99

QCType	Lab ID	Source	Parameter	True/Sampl	Spike Val	RQL	Observed	Units	% Rec	RPD
BLA02	Q1039337	SUPELCO PE	Analytical Run: R381712							
LCS	Q1039338		Analytical Run: R381712							
SPI02	Q1039339	A500550	Analytical Run: R381712							
DPS02	Q1039340	A500550	Analytical Run: R381712							
SAMPLE	A500550	Rep: 0	Analytical Run: R381712							

R381712 Analyst: B WOOD Run Date: 13-Nov-99 Instrument: GC/ECD
Analytical Reviewer: E WERNZ Review Date: 15-Nov-99

QCType	Lab ID	Source	Parameter	True/Sampl	Spike Val	RQL	Observed	Units	% Rec	RPD

BLA02	Q1039337	SUPELCO PE	ALPHA-BHC			BDL	0.05	ug/L	
BLA02	Q1039337	SUPELCO PE	BETA-BHC			BDL	0.05	ug/L	
BLA02	Q1039337	SUPELCO PE	DELTA-BHC			BDL	0.05	ug/L	
BLA02	Q1039337	SUPELCO PE	GAMMA-BHC (LINDANE)			BDL	0.05	ug/L	
BLA02	Q1039337	SUPELCO PE	HEPTACHLOR			BDL	0.05	ug/L	
BLA02	Q1039337	SUPELCO PE	ALDRIN			BDL	0.05	ug/L	
BLA02	Q1039337	SUPELCO PE	HEPTACHLOR EPOXIDE			BDL	0.05	ug/L	
BLA02	Q1039337	SUPELCO PE	ENDOSULFAN I			BDL	0.05	ug/L	
BLA02	Q1039337	SUPELCO PE	DIELDRIN			BDL	0.1	ug/L	
BLA02	Q1039337	SUPELCO PE	4,4'-DDE			BDL	0.1	ug/L	
BLA02	Q1039337	SUPELCO PE	ENDRIN			BDL	0.1	ug/L	
BLA02	Q1039337	SUPELCO PE	ENDOSULFAN II			BDL	0.1	ug/L	
BLA02	Q1039337	SUPELCO PE	4,4'-DDD			BDL	0.1	ug/L	
BLA02	Q1039337	SUPELCO PE	ENDOSULFAN SULFATE			BDL	0.1	ug/L	
BLA02	Q1039337	SUPELCO PE	4,4'-DDT			BDL	0.1	ug/L	
BLA02	Q1039337	SUPELCO PE	METHOXYCHLOR			BDL	0.5	ug/L	
BLA02	Q1039337	SUPELCO PE	ENDRIN ALDEHYDE			BDL	0.1	ug/L	
BLA02	Q1039337	SUPELCO PE	ENDRIN KETONE			BDL	0.1	ug/L	
BLA02	Q1039337	SUPELCO PE	ALPHA-CHLORDANE			BDL	0.5	ug/L	
BLA02	Q1039337	SUPELCO PE	GAMMA-CHLORDANE			BDL	0.5	ug/L	
BLA02	Q1039337	SUPELCO PE	TOXAPHENE			BDL	1	ug/L	
BLA02	Q1039337	SUPELCO PE	PCB AROCLOR 1016			BDL	0.5	ug/L	
BLA02	Q1039337	SUPELCO PE	PCB AROCLOR 1221			BDL	0.5	ug/L	
BLA02	Q1039337	SUPELCO PE	PCB AROCLOR 1232			BDL	0.5	ug/L	
BLA02	Q1039337	SUPELCO PE	PCB AROCLOR 1242			BDL	0.5	ug/L	
BLA02	Q1039337	SUPELCO PE	PCB AROCLOR 1248			BDL	0.5	ug/L	
BLA02	Q1039337	SUPELCO PE	PCB AROCLOR 1254			BDL	1	ug/L	
BLA02	Q1039337	SUPELCO PE	PCB AROCLOR 1260			BDL	1	ug/L	
LCS	Q1039338		GAMMA-BHC (LINDANE)	0.5			0.572	ug/L	114.4
LCS	Q1039338		HEPTACHLOR	0.5			0.53	ug/L	106
LCS	Q1039338		ALDRIN	0.5			0.571	ug/L	114.2
LCS	Q1039338		DIELDRIN	1			1.14	ug/L	114
LCS	Q1039338		ENDRIN	1			1.09	ug/L	109
LCS	Q1039338		4,4'-DDT	1			1.08	ug/L	108
SAMPLE	A500550		See Certificate of Analysis, Rep: 0						
SPI02	Q1039339	A500550	GAMMA-BHC (LINDANE)	0	1.04		1.17	ug/L	112.5
SPI02	Q1039339	A500550	HEPTACHLOR	0	1.04		1.07	ug/L	102.9
SPI02	Q1039339	A500550	ALDRIN	0	1.04		1.14	ug/L	109.6
SPI02	Q1039339	A500550	DIELDRIN	0	2.08		2.33	ug/L	112
SPI02	Q1039339	A500550	ENDRIN	0	2.08		2.25	ug/L	108.2
SPI02	Q1039339	A500550	4,4'-DDT	0	2.08		2.44	ug/L	117.3
DPS02	Q1039340	A500550	GAMMA-BHC (LINDANE)	0	1.04		1.2	ug/L	115.4	2.5
DPS02	Q1039340	A500550	HEPTACHLOR	0	1.04		1.1	ug/L	105.8	2.8
DPS02	Q1039340	A500550	ALDRIN	0	1.04		1.18	ug/L	113.5	3.5
DPS02	Q1039340	A500550	DIELDRIN	0	2.08		2.43	ug/L	116.8	4.2
DPS02	Q1039340	A500550	ENDRIN	0	2.08		2.35	ug/L	113	4.3
DPS02	Q1039340	A500550	4,4'-DDT	0	2.08		2.47	ug/L	118.8	1.3
CCV	Q1039503	SUPELCO PE	ALPHA-BHC	20			19.5	ug/L	97.5
CCV	Q1039503	SUPELCO PE	BETA-BHC	20			20.8	ug/L	104
CCV	Q1039503	SUPELCO PE	DELTA-BHC	20			19.1	ug/L	95.5
CCV	Q1039503	SUPELCO PE	GAMMA-BHC (LINDANE)	20			19.6	ug/L	98
CCV	Q1039503	SUPELCO PE	HEPTACHLOR	20			19.8	ug/L	99
CCV	Q1039503	SUPELCO PE	ALDRIN	20			19.5	ug/L	97.5
CCV	Q1039503	SUPELCO PE	HEPTACHLOR EPOXIDE	20			19.9	ug/L	99.5
CCV	Q1039503	SUPELCO PE	ENDOSULFAN I	20			19.8	ug/L	99
CCV	Q1039503	SUPELCO PE	DIELDRIN	40			39.7	ug/L	99.3
CCV	Q1039503	SUPELCO PE	4,4'-DDE	40			39.8	ug/L	99.5
CCV	Q1039503	SUPELCO PE	ENDRIN	40			40.4	ug/L	101
CCV	Q1039503	SUPELCO PE	ENDOSULFAN II	40			40.8	ug/L	102

PCB/PESTICIDE SCAN GC:ECD SW846-8081 O305.1 (cont.)
Prep : GC SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510B

QCType	Lab ID	Source	Parameter	True/Sampl	Spike Val	RQL	Observed	Units	% Rec	RPD
CCV	Q1039503	SUPELCO	P[4,4'-DDD	40			37.4	ug/L	93.5	
CCV	Q1039503	SUPELCO	P[ENDOSULFAN SULFATE	40			39.1	ug/L	97.8	
CCV	Q1039503	SUPELCO	P[4,4'-DDT	40			37.7	ug/L	94.3	
CCV	Q1039503	SUPELCO	P[METHOXYCHLOR	200			188	ug/L	94	
CCV	Q1039503	SUPELCO	P[ENDRIN ALDEHYDE	40			37.4	ug/L	93.5	
CCV	Q1039503	SUPELCO	P[ENDRIN KETONE	40			34.7	ug/L	86.8	
CCV	Q1039503	SUPELCO	P[ALPHA-CHLORDANE	20			19.9	ug/L	99.5	
CCV	Q1039503	SUPELCO	P[GAMMA-CHLORDANE	20			19.3	ug/L	96.5	

Qualifiers

BDL Below Detection Limit

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270C O505.3
Prep : GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510B

R381572 Analyst: L DOBBINS Run Date: 11-Nov-99 Instrument: GC/MS SVOA
Analytical Reviewer: A BRADBURN Review Date: 12-Nov-99

QCType	Lab ID	Source	Parameter	True/Sampl	Spike Val	RQL	Observed	Units	% Rec	RPD
SPI02	Q1038096	A499989	Analysis Date/Time: 12-Nov-99 03:42							
SPI02	Q1038096	A499989	ACENAPHTHENE	0	200		188	ug/L	94.1	
SPI02	Q1038096	A499989	ACENAPHTHYLENE	0	200		193	ug/L	96.6	
SPI02	Q1038096	A499989	ANTHRACENE	0	200		198	ug/L	99.3	
SPI02	Q1038096	A499989	BENZO(A)PYRENE	0	200		197	ug/L	98.8	
SPI02	Q1038096	A499989	BENZO(B)FLUORANTHENE (3,4-BENZOFLUO	0	200		202	ug/L	101.4	
SPI02	Q1038096	A499989	BENZO(G,H,I)PERYLENE	0	200		180	ug/L	90.3	
SPI02	Q1038096	A499989	BENZO(K)FLUORANTHENE	0	200		192	ug/L	96.3	
SPI02	Q1038096	A499989	BENZYL ALCOHOL	0	200		176	ug/L	88.2	
SPI02	Q1038096	A499989	BENZYLBUTYLPHTHALATE (BUTYLBENZYLPH	0	200		196	ug/L	98	
SPI02	Q1038096	A499989	BIS(2-CHLOROETHOXY)METHANE	0	200		191	ug/L	95.9	
SPI02	Q1038096	A499989	BIS(2-CHLOROETHYL)ETHER	0	200		175	ug/L	87.5	
SPI02	Q1038096	A499989	BIS(2-CHLOROISOPROPYL)ETHER	0	200		182	ug/L	91.2	
SPI02	Q1038096	A499989	BIS(2-ETHYLHEXYL)PHTHALATE	0	200		194	ug/L	97.2	
SPI02	Q1038096	A499989	4-BROMODIPHENYL ETHER	0	200		196	ug/L	98.4	
SPI02	Q1038096	A499989	CARBAZOLE	0	200		224	ug/L	112.2	
SPI02	Q1038096	A499989	4-CHLOROANILINE	0	200		349	ug/L	174.9	
SPI02	Q1038096	A499989	2-CHLORONAPHTHALENE	0	200		191	ug/L	95.7	
SPI02	Q1038096	A499989	4-CHLOROPHENYL-PHENYLETHER	0	200		186	ug/L	93.1	
SPI02	Q1038096	A499989	CHRYSENE	0	200		201	ug/L	100.7	
SPI02	Q1038096	A499989	DIBENZ(A,H)ANTHRACENE	0	200		174	ug/L	87.5	
SPI02	Q1038096	A499989	DIBENZOFURAN	0	200		196	ug/L	98.1	
SPI02	Q1038096	A499989	1,2-DICHLOROBENZENE (O-DICHLOROBENZ	0	200		184	ug/L	92.1	
SPI02	Q1038096	A499989	1,3-DICHLOROBENZENE (M-DICHLOROBENZ	0	200		183	ug/L	91.6	
SPI02	Q1038096	A499989	1,4-DICHLOROBENZENE (P-DICHLOROBENZ	0	200		177	ug/L	88.9	
SPI02	Q1038096	A499989	3,3'-DICHLOROBENZIDINE	0	200		317	ug/L	158.6	
SPI02	Q1038096	A499989	DIETHYLPHTHALATE	0	200		192	ug/L	96.4	
SPI02	Q1038096	A499989	DIMETHYLPHTHALATE	0	200		198	ug/L	99	
SPI02	Q1038096	A499989	DI-N-BUTYLPHTHALATE	0	200		199	ug/L	99.8	
SPI02	Q1038096	A499989	2,4-DINITROTOLUENE	0	200		196	ug/L	98.5	
SPI02	Q1038096	A499989	2,6-DINITROTOLUENE	0	200		199	ug/L	99.7	
SPI02	Q1038096	A499989	DI-N-OCTYLPHTHALATE	0	200		216	ug/L	108.4	
SPI02	Q1038096	A499989	FLUORANTHENE	0	200		208	ug/L	104.4	
SPI02	Q1038096	A499989	FLUORENE	0	200		189	ug/L	94.6	
SPI02	Q1038096	A499989	HEXACHLOROBENZENE	0	200		195	ug/L	98	
SPI02	Q1038096	A499989	HEXACHLOROBUTADIENE	0	200		186	ug/L	93.2	
SPI02	Q1038096	A499989	HEXACHLOROCYCLOPENTADIENE	0	200		166	ug/L	83.1	

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270C 0505.3 (cont.)
Prep : GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510B

QCType	Lab ID	Source	Parameter	True/Sampl	Spike Val	RQL	Observed	Units	% Rec	RPD
SPI02	Q1038096	A499989	HEXACHLOROETHANE	0	200		184	ug/L	92.3	
SPI02	Q1038096	A499989	INDENO(1,2,3-CD)PYRENE	0	200		179	ug/L	89.6	
SPI02	Q1038096	A499989	ISOPHORONE	0	200		186	ug/L	93.2	
SPI02	Q1038096	A499989	2-METHYLNAPHTHALENE	0	200		192	ug/L	96.5	
SPI02	Q1038096	A499989	NAPHTHALENE	0	200		189	ug/L	94.5	
SPI02	Q1038096	A499989	2-NITROANILINE (O-NITROANILINE)	0	200		214	ug/L	107.5	
SPI02	Q1038096	A499989	3-NITROANILINE (M-NITROANILINE)	0	200		258	ug/L	129.4	
SPI02	Q1038096	A499989	4-NITROANILINE (P-NITROANILINE)	0	200		215	ug/L	107.7	
SPI02	Q1038096	A499989	NITROBENZENE	0	200		190	ug/L	95.2	
SPI02	Q1038096	A499989	N-NITROSODIPHENYLAMINE	0	200		196	ug/L	98.2	
SPI02	Q1038096	A499989	N-NITROSO-DI-N-PROPYLAMINE	0	200		221	ug/L	110.5	
SPI02	Q1038096	A499989	PHENANTHRENE	0	200		196	ug/L	98.1	
SPI02	Q1038096	A499989	2-PICOLINE	0	200		136	ug/L	68.3	
SPI02	Q1038096	A499989	PYRENE	0	200		204	ug/L	102.2	
SPI02	Q1038096	A499989	PYRIDINE	0	200		104	ug/L	52	
SPI02	Q1038096	A499989	1,2,4,5-TETRACHLOROBENZENE	0	200		167	ug/L	83.6	
SPI02	Q1038096	A499989	1,2,4-TRICHLOROBENZENE	0	200		183	ug/L	91.5	
SPI02	Q1038096	A499989	BENZOIC ACID	31	200		112	ug/L	40.5	
SPI02	Q1038096	A499989	4-CHLORO-3-METHYLPHENOL (P-CHLORO-M	0	200		183	ug/L	91.8	
SPI02	Q1038096	A499989	2-CHLOROPHENOL	0	200		170	ug/L	85.2	
SPI02	Q1038096	A499989	2,4-DICHLOROPHENOL	0	200		188	ug/L	94.2	
SPI02	Q1038096	A499989	2,4-DIMETHYLPHENOL	0	200		136	ug/L	68.3	
SPI02	Q1038096	A499989	2,4-DINITROPHENOL	0	200		186	ug/L	93.1	
SPI02	Q1038096	A499989	2-METHYLPHENOL (O-CRESOL)	0	200		150	ug/L	75.4	
SPI02	Q1038096	A499989	4-METHYLPHENOL (P-CRESOL)	0	200		161	ug/L	81	
SPI02	Q1038096	A499989	2-NITROPHENOL	0	200		195	ug/L	97.6	
SPI02	Q1038096	A499989	4-NITROPHENOL	0	200		77.8	ug/L	38.9	
SPI02	Q1038096	A499989	PENTACHLOROPHENOL	0	200		203	ug/L	101.8	
SPI02	Q1038096	A499989	PHENOL	0	200		88.8	ug/L	44.4	
SPI02	Q1038096	A499989	2,3,4,6-TETRACHLOROPHENOL	0	200		179	ug/L	89.8	
SPI02	Q1038096	A499989	2,4,5-TRICHLOROPHENOL	0	200		202	ug/L	101.3	
SPI02	Q1038096	A499989	2,4,6-TRICHLOROPHENOL	0	200		204	ug/L	102.5	
DPS02	Q1038097	A499989	Analysis Date/Time: 12-Nov-99 04:30							
DPS02	Q1038097	A499989	ACENAPHTHENE	0	200		189	ug/L	94.9	0.8
DPS02	Q1038097	A499989	ACENAPHTHYLENE	0	200		194	ug/L	97	0.4
DPS02	Q1038097	A499989	ANTHRACENE	0	200		195	ug/L	97.6	1.7
DPS02	Q1038097	A499989	BENZO(A)PYRENE	0	200		204	ug/L	102.1	3.3
DPS02	Q1038097	A499989	BENZO(B)FLUORANTHENE (3,4-BENZOFLUO	0	200		214	ug/L	107.3	5.7
DPS02	Q1038097	A499989	BENZO(G,H,I)PERYLENE	0	200		189	ug/L	94.8	4.9
DPS02	Q1038097	A499989	BENZO(K)FLUORANTHENE	0	200		199	ug/L	99.7	3.5
DPS02	Q1038097	A499989	BENZYL ALCOHOL	0	200		172	ug/L	86.3	2.2
DPS02	Q1038097	A499989	BENZYLBUTYLPHTHALATE (BUTYLBENZYLPH	0	200		199	ug/L	99.8	1.8
DPS02	Q1038097	A499989	BIS(2-CHLOROETHOXY)METHANE	0	200		197	ug/L	98.8	3
DPS02	Q1038097	A499989	BIS(2-CHLOROETHYL)ETHER	0	200		184	ug/L	92.1	5.1
DPS02	Q1038097	A499989	BIS(2-CHLOROISOPROPYL)ETHER	0	200		183	ug/L	91.5	0.3
DPS02	Q1038097	A499989	BIS(2-ETHYLHEXYL)PHTHALATE	0	200		194	ug/L	97.3	0.1
DPS02	Q1038097	A499989	4-BROMODIPHENYL ETHER	0	200		193	ug/L	96.8	1.6
DPS02	Q1038097	A499989	CARBAZOLE	0	200		221	ug/L	110.6	1.4
DPS02	Q1038097	A499989	4-CHLOROANILINE	0	200		341	ug/L	170.8	2.4
DPS02	Q1038097	A499989	2-CHLORONAPHTHALENE	0	200		186	ug/L	93.2	2.6
DPS02	Q1038097	A499989	4-CHLOROPHENYL-PHENYLETHER	0	200		183	ug/L	91.9	1.3
DPS02	Q1038097	A499989	CHRYSENE	0	200		198	ug/L	99.5	1.2
DPS02	Q1038097	A499989	DIBENZ(A,H)ANTHRACENE	0	200		185	ug/L	92.8	5.9
DPS02	Q1038097	A499989	DIBENZOFURAN	0	200		192	ug/L	96.2	2
DPS02	Q1038097	A499989	1,2-DICHLOROBENZENE (O-DICHLOROBENZ	0	200		176	ug/L	88.4	4.1
DPS02	Q1038097	A499989	1,3-DICHLOROBENZENE (M-DICHLOROBENZ	0	200		184	ug/L	92.3	0.8

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270C 0505.3 (cont.)
Prep : GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510B

QCType	Lab ID	Source	Parameter	True/Sampl	Spike Val	RQL	Observed	Units	% Rec	RPD
DPS02	Q1038097	A499989	1,4-DICHLOROBENZENE (P-DICHLOROBENZ	0	200		184	ug/L	92.1	3.5
DPS02	Q1038097	A499989	3,3'-DICHLOROBENZIDINE	0	200		326	ug/L	163.3	2.9
DPS02	Q1038097	A499989	DIETHYLPHTHALATE	0	200		193	ug/L	97	0.6
DPS02	Q1038097	A499989	DIMETHYLPHTHALATE	0	200		197	ug/L	98.6	0.4
DPS02	Q1038097	A499989	DI-N-BUTYLPHTHALATE	0	200		198	ug/L	99.4	0.4
DPS02	Q1038097	A499989	2,4-DINITROTOLUENE	0	200		197	ug/L	98.8	0.3
DPS02	Q1038097	A499989	2,6-DINITROTOLUENE	0	200		199	ug/L	99.8	0.1
DPS02	Q1038097	A499989	DI-N-OCTYLPHTHALATE	0	200		209	ug/L	104.9	3.3
DPS02	Q1038097	A499989	FLUORANTHENE	0	200		199	ug/L	99.6	4.7
DPS02	Q1038097	A499989	FLUORENE	0	200		183	ug/L	91.7	3.1
DPS02	Q1038097	A499989	HEXACHLOROBENZENE	0	200		193	ug/L	96.9	1.1
DPS02	Q1038097	A499989	HEXACHLOROBUTADIENE	0	200		193	ug/L	96.9	3.9
DPS02	Q1038097	A499989	HEXACHLOROCYCLOPENTADIENE	0	200		164	ug/L	82	1.3
DPS02	Q1038097	A499989	HEXACHLOROETHANE	0	200		182	ug/L	91.3	1.1
DPS02	Q1038097	A499989	INDENO(1,2,3-CD)PYRENE	0	200		190	ug/L	95.3	6.2
DPS02	Q1038097	A499989	ISOPHORONE	0	200		190	ug/L	95.4	2.3
DPS02	Q1038097	A499989	2-METHYLNAPHTHALENE	0	200		196	ug/L	98.4	1.9
DPS02	Q1038097	A499989	NAPHTHALENE	0	200		193	ug/L	96.9	2.5
DPS02	Q1038097	A499989	2-NITROANILINE (O-NITROANILINE)	0	200		217	ug/L	108.8	1.2
DPS02	Q1038097	A499989	3-NITROANILINE (M-NITROANILINE)	0	200		264	ug/L	132.4	2.3
DPS02	Q1038097	A499989	4-NITROANILINE (P-NITROANILINE)	0	200		212	ug/L	106.4	1.2
DPS02	Q1038097	A499989	NITROBENZENE	0	200		199	ug/L	99.6	4.5
DPS02	Q1038097	A499989	N-NITROSODIPHENYLAMINE	0	200		191	ug/L	95.6	2.7
DPS02	Q1038097	A499989	N-NITROSO-DI-N-PROPYLAMINE	0	200		223	ug/L	111.5	0.9
DPS02	Q1038097	A499989	PHENANTHRENE	0	200		195	ug/L	97.9	0.2
DPS02	Q1038097	A499989	2-PICOLINE	0	200		136	ug/L	68.4	0.1
DPS02	Q1038097	A499989	PYRENE	0	200		214	ug/L	107.3	4.9
DPS02	Q1038097	A499989	PYRIDINE	0	200		102	ug/L	51.1	1.7
DPS02	Q1038097	A499989	1,2,4,5-TETRACHLOROBENZENE	0	200		164	ug/L	82.1	1.8
DPS02	Q1038097	A499989	1,2,4-TRICHLOROBENZENE	0	200		189	ug/L	94.6	3.3
DPS02	Q1038097	A499989	BENZOIC ACID	31	200		101	ug/L	35	14.6
DPS02	Q1038097	A499989	4-CHLORO-3-METHYLPHENOL (P-CHLORO-M	0	200		187	ug/L	93.5	1.8
DPS02	Q1038097	A499989	2-CHLOROPHENOL	0	200		167	ug/L	83.8	1.7
DPS02	Q1038097	A499989	2,4-DICHLOROPHENOL	0	200		192	ug/L	96.3	2.2
DPS02	Q1038097	A499989	2,4-DIMETHYLPHENOL	0	200		147	ug/L	74	8
DPS02	Q1038097	A499989	2,4-DINITROPHENOL	0	200		191	ug/L	95.8	2.9
DPS02	Q1038097	A499989	2-METHYLPHENOL (O-CRESOL)	0	200		146	ug/L	73.3	2.8
DPS02	Q1038097	A499989	4-METHYLPHENOL (P-CRESOL)	0	200		152	ug/L	76.4	5.8
DPS02	Q1038097	A499989	2-NITROPHENOL	0	200		203	ug/L	102	4.4
DPS02	Q1038097	A499989	4-NITROPHENOL	0	200		63.1	ug/L	31.6	20.7
DPS02	Q1038097	A499989	PENTACHLOROPHENOL	0	200		200	ug/L	100.1	1.7
DPS02	Q1038097	A499989	PHENOL	0	200		78.2	ug/L	39.1	12.7
DPS02	Q1038097	A499989	2,3,4,6-TETRACHLOROPHENOL	0	200		176	ug/L	88.5	1.5
DPS02	Q1038097	A499989	2,4,5-TRICHLOROPHENOL	0	200		200	ug/L	100.3	1
DPS02	Q1038097	A499989	2,4,6-TRICHLOROPHENOL	0	200		203	ug/L	101.6	0.9

R381855 Analyst: P SIMS Run Date: 16-Nov-99 Instrument: PREP
Prep Reviewer: J MINNIEAR, II Review Date: 17-Nov-99

QCType	Lab ID	Source	Parameter	True/Sampl	Spike Val	RQL	Observed	Units	% Rec	RPD
BLA02	Q1040340		Analytical Run: R381932							
LCS	Q1040341	HLI	Analytical Run: R381932							
SPI02	Q1038096	A499989	Analytical Run: R381572							
DPS02	Q1038097	A499989	Analytical Run: R381572							
SAMPLE	A500550	Rep: 0	Analytical Run: R381926							

HERITAGE ENVIRONMENTAL SERVICES, LLC

R381926	Analyst: L DOBBINS	Run Date: 17-Nov-99	Instrument: GC/MS SVOA
Analytical	Reviewer: A BRADBURN	Review Date: 18-Nov-99	

QCType	Lab ID	Source	Parameter	True/Sampl	Spike Val	RQL	Observed	Units	% Rec	RPD
CCVD	Q1040922		Analysis Date/Time: 17-Nov-99 14:33							
CCVD	Q1040922		PYRIDINE	0.7812			0.8448			8.1
CCVD	Q1040922		2-PICOLINE	0.8516			0.8710			2.3
CCVD	Q1040922		PHENOL	1.2346			1.3626			10.4
CCVD	Q1040922		BIS(2-CHLOROETHYL)ETHER	0.9789			1.0744			9.8
CCVD	Q1040922		2-CHLOROPHENOL	1.0213			1.1192			9.6
CCVD	Q1040922		1,3-DICHLOROBENZENE (M-DICHLOROBE	1.1541			1.2533			8.6
CCVD	Q1040922		1,4-DICHLOROBENZENE (P-DICHLOROBE	1.1547			1.2405			7.4
CCVD	Q1040922		1,2-DICHLOROBENZENE (O-DICHLOROBE	0.9685			1.0848			12
CCVD	Q1040922		BENZYL ALCOHOL	0.5225			0.5787			10.8
CCVD	Q1040922		2-METHYLPHENOL (O-CRESOL)	0.8797			0.9762			11
CCVD	Q1040922		BIS(2-CHLOROISOPROPYL)ETHER	1.8496			1.9942			7.8
CCVD	Q1040922		N-NITROSO-DI-N-PROPYLAMINE	0.8258			0.9193			11.3
CCVD	Q1040922		4-METHYLPHENOL (P-CRESOL)	0.8298			0.9312			12.2
CCVD	Q1040922		HEXACHLOROETHANE	0.5060			0.5628			11.2
CCVD	Q1040922		NITROBENZENE	0.3211			0.3368			4.9
CCVD	Q1040922		ISOPHORONE	0.5985			0.5991			0.1
CCVD	Q1040922		2-NITROPHENOL	0.2017			0.2137			5.9
CCVD	Q1040922		2,4-DIMETHYLPHENOL	0.3086			0.3181			3.1
CCVD	Q1040922		BIS(2-CHLOROETHOXY)METHANE	0.3864			0.4023			4.1
CCVD	Q1040922		2,4-DICHLOROPHENOL	0.2660			0.2809			5.6
CCVD	Q1040922		BENZOIC ACID	0.1862			0.1990			6.9
CCVD	Q1040922		1,2,4-TRICHLOROBENZENE	0.3289			0.3518			7
CCVD	Q1040922		NAPHTHALENE	0.7968			0.8451			6.1
CCVD	Q1040922		4-CHLOROANILINE	0.2724			0.3457			26.9
CCVD	Q1040922		TOLUENEDIAMINE	0.0068			0.0077			13.2
CCVD	Q1040922		HEXACHLOROBUTADIENE	0.1850			0.1943			5
CCVD	Q1040922		4-CHLORO-3-METHYLPHENOL (P-CHLOR(	0.2833			0.2988			5.5
CCVD	Q1040922		2-METHYLNAPHTHALENE	0.5659			0.6142			8.5
CCVD	Q1040922		HEXACHLOROCYCLOPENTADIENE	0.2390			0.2677			12
CCVD	Q1040922		1,2,4,5-TETRACHLOROBENZENE	0.3985			0.4173			4.7
CCVD	Q1040922		2,4,6-TRICHLOROPHENOL	0.3251			0.3358			3.3
CCVD	Q1040922		2,4,5-TRICHLOROPHENOL	0.3398			0.3628			6.8
CCVD	Q1040922		2-CHLORONAPHTHALENE	0.8782			0.9222			5
CCVD	Q1040922		2-NITROANILINE (O-NITROANILINE)	0.3011			0.3154			4.7
CCVD	Q1040922		DIMETHYLPHTHALATE	1.0969			1.1393			3.9
CCVD	Q1040922		2,6-DINITROTOLUENE	0.3081			0.3291			6.8
CCVD	Q1040922		ACENAPHTHYLENE	1.3640			1.4475			6.1
CCVD	Q1040922		3-NITROANILINE (M-NITROANILINE)	0.2191			0.2465			12.5
CCVD	Q1040922		ACENAPHTHENE	0.8714			0.9213			5.7
CCVD	Q1040922		2,4-DINITROPHENOL	0.1248			0.1016			18.6
CCVD	Q1040922		4-NITROPHENOL	0.0679			0.0622			8.4
CCVD	Q1040922		DIBENZOFURAN	1.1167			1.1863			6.2
CCVD	Q1040922		2,4-DINITROTOLUENE	0.3232			0.3555			10
CCVD	Q1040922		2,3,4,6-TETRACHLOROPHENOL	0.2522			0.2664			5.6
CCVD	Q1040922		DIETHYLPHTHALATE	1.1047			1.1550			4.6
CCVD	Q1040922		FLUORENE	0.8500			0.9579			12.7
CCVD	Q1040922		4-CHLOROPHENYL-PHENYLETHER	0.4683			0.5311			13.4
CCVD	Q1040922		4-NITROANILINE (P-NITROANILINE)	0.2304			0.2460			6.8
CCVD	Q1040922		N-NITROSODIPHENYLAMINE	0.3859			0.4048			4.9
CCVD	Q1040922		4-BROMODIPHENYL ETHER	0.1770			0.1928			8.9
CCVD	Q1040922		HEXACHLOROBENZENE	0.2221			0.2239			0.8
CCVD	Q1040922		PENTACHLOROPHENOL	0.0954			0.0873			8.5
CCVD	Q1040922		PHENANTHRENE	0.7726			0.8094			4.8
CCVD	Q1040922		ANTHRACENE	0.7843			0.8423			7.4

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270C 0505.3 (cont.)
Prep : GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510B

QCType	Lab ID	Source	Parameter	True/Sampl	Spike Val	RQL	Observed	Units	% Rec	RPD
CCVD	Q1040922		CARBAZOLE	0.5294			0.5641			6.6
CCVD	Q1040922		DI-N-BUTYLPHTHALATE	0.9740			1.0346			6.2
CCVD	Q1040922		FLUORANTHENE	0.7034			0.7440			5.8
CCVD	Q1040922		PYRENE	1.4588			1.5181			4.1
CCVD	Q1040922		BENZYLBUTYLPHTHALATE (BUTYLBENZ	0.7467			0.7561			1.3
CCVD	Q1040922		3,3'-DICHLOROBENZIDINE	0.2018			0.2212			9.6
CCVD	Q1040922		CHRYSENE	0.8594			0.8672			0.9
CCVD	Q1040922		BIS(2-ETHYLHEXYL)PHTHALATE	0.9282			0.9610			3.5
CCVD	Q1040922		DI-N-OCTYLPHTHALATE	1.8799			2.0316			8.1
CCVD	Q1040922		BENZO(B)FLUORANTHENE (3,4-BENZOFL	1.0209			1.0685			4.7
CCVD	Q1040922		BENZO(K)FLUORANTHENE	0.9914			1.0544			6.4
CCVD	Q1040922		BENZO(A)PYRENE	0.9149			0.9225			0.8
CCVD	Q1040922		INDENO(1,2,3-CD)PYRENE	1.0655			1.0451			1.9
CCVD	Q1040922		DIBENZ(A,H)ANTHRACENE	0.8378			0.8133			2.9
CCVD	Q1040922		BENZO(G,H,I)PERYLENE	0.9109			0.9061			0.5
CCVD	Q1040922		2-FLUOROPHENOL	0.7948			0.8599			8.2
CCVD	Q1040922		PHENOL-D5	1.1222			1.2014			7.1
CCVD	Q1040922		NITROBENZENE-D5	0.3165			0.3268			3.3
CCVD	Q1040922		2-FLUOROBIPHENYL	0.9300			0.9426			1.4
CCVD	Q1040922		2,4,6-TRIBROMOPHENOL	0.0920			0.1006			9.3
CCVD	Q1040922		TERPHENYL-D14	1.0662			1.1088			4
SAMPLE	A500550		Analysis Date/Time: 17-Nov-99 20:40							
SAMPLE	A500550		See Certificate of Analysis. Rep: 0							

R381932 Analyst: L DOBBINS Run Date: 17-Nov-99 Instrument: GC/MS SVOA
Analytical Reviewer: A BRADBURN Review Date: 18-Nov-99

QCType	Lab ID	Source	Parameter	True/Sampl	Spike Val	RQL	Observed	Units	% Rec	RPD
BLA02	Q1040340		Analysis Date/Time: 17-Nov-99 18:39							
BLA02	Q1040340		PYRIDINE			BDL	50	ug/L		
BLA02	Q1040340		2-PICOLINE			BDL	50	ug/L		
BLA02	Q1040340		PHENOL			BDL	10	ug/L		
BLA02	Q1040340		BIS(2-CHLOROETHYL)ETHER			BDL	10	ug/L		
BLA02	Q1040340		2-CHLOROPHENOL			BDL	10	ug/L		
BLA02	Q1040340		1,3-DICHLOROBENZENE (M-DICHLOROBENZ			BDL	10	ug/L		
BLA02	Q1040340		1,4-DICHLOROBENZENE (P-DICHLOROBENZ			BDL	10	ug/L		
BLA02	Q1040340		1,2-DICHLOROBENZENE (O-DICHLOROBENZ			BDL	10	ug/L		
BLA02	Q1040340		BENZYL ALCOHOL			BDL	10	ug/L		
BLA02	Q1040340		2-METHYLPHENOL (O-CRESOL)			BDL	10	ug/L		
BLA02	Q1040340		BIS(2-CHLOROISOPROPYL)ETHER			BDL	10	ug/L		
BLA02	Q1040340		N-NITROSO-DI-N-PROPYLAMINE			BDL	10	ug/L		
BLA02	Q1040340		4-METHYLPHENOL (P-CRESOL)			BDL	10	ug/L		
BLA02	Q1040340		HEXACHLOROETHANE			BDL	10	ug/L		
BLA02	Q1040340		NITROBENZENE			BDL	10	ug/L		
BLA02	Q1040340		ISOPHORONE			BDL	10	ug/L		
BLA02	Q1040340		2-NITROPHENOL			BDL	10	ug/L		
BLA02	Q1040340		2,4-DIMETHYLPHENOL			BDL	10	ug/L		
BLA02	Q1040340		BIS(2-CHLOROETHOXY)METHANE			BDL	10	ug/L		
BLA02	Q1040340		2,4-DICHLOROPHENOL			BDL	10	ug/L		
BLA02	Q1040340		BENZOIC ACID			BDL	50	ug/L		
BLA02	Q1040340		1,2,4-TRICHLOROBENZENE			BDL	10	ug/L		
BLA02	Q1040340		NAPHTHALENE			BDL	10	ug/L		
BLA02	Q1040340		4-CHLOROANILINE			BDL	10	ug/L		
BLA02	Q1040340		HEXACHLOROBUTADIENE			BDL	10	ug/L		
BLA02	Q1040340		4-CHLORO-3-METHYLPHENOL (P-CHLORO-M			BDL	10	ug/L		
BLA02	Q1040340		2-METHYLNAPHTHALENE			BDL	10	ug/L		

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270C 0505.3 (cont.)
Prep : GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510B

QCType	Lab ID	Source	Parameter	True/Sampl	Spike Val	RQL	Observed	Units	% Rec	RPD
BLA02	Q1040340		HEXACHLOROCYCLOPENTADIENE			BDL	10	ug/L		
BLA02	Q1040340		1,2,4,5-TETRACHLOROBENZENE			BDL	10	ug/L		
BLA02	Q1040340		2,4,6-TRICHLOROPHENOL			BDL	10	ug/L		
BLA02	Q1040340		2,4,5-TRICHLOROPHENOL			BDL	50	ug/L		
BLA02	Q1040340		2-NITROANILINE (O-NITROANILINE)			BDL	50	ug/L		
BLA02	Q1040340		DIMETHYLPHTHALATE			BDL	10	ug/L		
BLA02	Q1040340		2,6-DINITROTOLUENE			BDL	10	ug/L		
BLA02	Q1040340		ACENAPHTHYLENE			BDL	10	ug/L		
BLA02	Q1040340		3-NITROANILINE (M-NITROANILINE)			BDL	50	ug/L		
BLA02	Q1040340		ACENAPHTHENE			BDL	10	ug/L		
BLA02	Q1040340		2,4-DINITROPHENOL			BDL	50	ug/L		
BLA02	Q1040340		4-NITROPHENOL			BDL	50	ug/L		
BLA02	Q1040340		2,4-DINITROTOLUENE			BDL	10	ug/L		
BLA02	Q1040340		2,3,4,6-TETRACHLOROPHENOL			BDL	10	ug/L		
BLA02	Q1040340		DIETHYLPHTHALATE			BDL	10	ug/L		
BLA02	Q1040340		FLUORENE			BDL	10	ug/L		
BLA02	Q1040340		4-CHLOROPHENYL-PHENYLETHER			BDL	10	ug/L		
BLA02	Q1040340		4-NITROANILINE (P-NITROANILINE)			BDL	50	ug/L		
BLA02	Q1040340		N-NITROSODIPHENYLAMINE			BDL	10	ug/L		
BLA02	Q1040340		4-BROMODIPHENYL ETHER			BDL	10	ug/L		
BLA02	Q1040340		HEXACHLOROBENZENE			BDL	10	ug/L		
BLA02	Q1040340		PENTACHLOROPHENOL			BDL	50	ug/L		
BLA02	Q1040340		PHENANTHRENE			BDL	10	ug/L		
BLA02	Q1040340		ANTHRACENE			BDL	10	ug/L		
BLA02	Q1040340		CARBAZOLE			BDL	10	ug/L		
BLA02	Q1040340		DI-N-BUTYLPHTHALATE			BDL	10	ug/L		
BLA02	Q1040340		FLUORANTHENE			BDL	10	ug/L		
BLA02	Q1040340		PYRENE			BDL	10	ug/L		
BLA02	Q1040340		BENZYLBUTYLPHTHALATE (BUTYLBENZYLPH			BDL	10	ug/L		
BLA02	Q1040340		3,3'-DICHLOROBENZIDINE			BDL	20	ug/L		
BLA02	Q1040340		CHRYSENE			BDL	10	ug/L		
BLA02	Q1040340		BIS(2-ETHYLHEXYL)PHTHALATE			BDL	10	ug/L		
BLA02	Q1040340		DI-N-OCTYLPHTHALATE			BDL	10	ug/L		
BLA02	Q1040340		BENZO(B)FLUORANTHENE (3,4-BENZOFLUO			BDL	10	ug/L		
BLA02	Q1040340		BENZO(K)FLUORANTHENE			BDL	10	ug/L		
BLA02	Q1040340		BENZO(A)PYRENE			BDL	10	ug/L		
BLA02	Q1040340		INDENO(1,2,3-CD)PYRENE			BDL	10	ug/L		
BLA02	Q1040340		DIBENZ(A,H)ANTHRACENE			BDL	10	ug/L		
BLA02	Q1040340		BENZO(G,H,I)PERYLENE			BDL	10	ug/L		
BLA02	Q1040340		2-CHLORONAPHTHALENE			BDL	10	ug/L		
BLA02	Q1040340		DIBENZOFURAN			BDL	10	ug/L		
BLA02	Q1040340		2-FLUOROPHENOL						69	
BLA02	Q1040340		PHENOL-D5						53	
BLA02	Q1040340		NITROBENZENE-D5						110	
BLA02	Q1040340		2-FLUOROBIPHENYL						110	
BLA02	Q1040340		2,4,6-TRIBROMOPHENOL						108	
BLA02	Q1040340		TERPHENYL-D14						102	
LCS	Q1040341	HLI	*Analysis Date/Time: 17-Nov-99 19:26*							
LCS	Q1040341	HLI	ACENAPHTHENE		100		108	ug/L	108.9	
LCS	Q1040341	HLI	ACENAPHTHYLENE		100		95.6	ug/L	95.6	
LCS	Q1040341	HLI	ANTHRACENE		100		100	ug/L	100.3	
LCS	Q1040341	HLI	BENZO(A)PYRENE		100		106	ug/L	107	
LCS	Q1040341	HLI	BENZO(B)FLUORANTHENE (3,4-BENZOFLUO		100		111	ug/L	111.4	
LCS	Q1040341	HLI	BENZO(G,H,I)PERYLENE		100		104	ug/L	104.4	
LCS	Q1040341	HLI	BENZO(K)FLUORANTHENE		100		107	ug/L	107.7	
LCS	Q1040341	HLI	BENZYL ALCOHOL		100		94.5	ug/L	94.5	

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270C 0505.3 (cont.)
Prep : GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510B

QCType	Lab ID	Source	Parameter	True/Sampl	Spike Val	RQL	Observed	Units	% Rec	RPD
LCS	Q1040341	HLI	BENZYLBUTYLPHTHALATE (BUTYLBENZYLF	100			105	ug/L	105.5	
LCS	Q1040341	HLI	BIS(2-CHLOROETHOXY)METHANE	100			105	ug/L	106	
LCS	Q1040341	HLI	BIS(2-CHLOROETHYL)ETHER	100			86.9	ug/L	86.9	
LCS	Q1040341	HLI	BIS(2-CHLOROISOPROPYL)ETHER	100			117	ug/L	117.8	
LCS	Q1040341	HLI	BIS(2-ETHYLHEXYL)PHTHALATE	100			106	ug/L	106.1	
LCS	Q1040341	HLI	4-BROMODIPHENYL ETHER	100			103	ug/L	103.4	
LCS	Q1040341	HLI	CARBAZOLE	100			114	ug/L	114.9	
LCS	Q1040341	HLI	4-CHLOROANILINE	100			128	ug/L	128.7	
LCS	Q1040341	HLI	2-CHLORONAPHTHALENE	100			121	ug/L	121	
LCS	Q1040341	HLI	4-CHLOROPHENYL-PHENYLETHER	100			99.4	ug/L	99.4	
LCS	Q1040341	HLI	CHRYSENE	100			109	ug/L	109.4	
LCS	Q1040341	HLI	DIBENZ(A,H)ANTHRACENE	100			107	ug/L	107.6	
LCS	Q1040341	HLI	DIBENZOFURAN	100			101	ug/L	101.4	
LCS	Q1040341	HLI	1,2-DICHLOROBENZENE (O-DICHLOROBENZ	100			90.6	ug/L	90.6	
LCS	Q1040341	HLI	1,3-DICHLOROBENZENE (M-DICHLOROBENZ	100			92.6	ug/L	92.6	
LCS	Q1040341	HLI	1,4-DICHLOROBENZENE (P-DICHLOROBENZ	100			95.5	ug/L	95.5	
LCS	Q1040341	HLI	3,3'-DICHLOROBENZIDINE	100			154	ug/L	154.2	
LCS	Q1040341	HLI	DIETHYLPHTHALATE	100			105	ug/L	105.9	
LCS	Q1040341	HLI	DIMETHYLPHTHALATE	100			104	ug/L	104.8	
LCS	Q1040341	HLI	DI-N-BUTYLPHTHALATE	100			100	ug/L	100.4	
LCS	Q1040341	HLI	2,4-DINITROTOLUENE	100			105	ug/L	105	
LCS	Q1040341	HLI	2,6-DINITROTOLUENE	100			111	ug/L	111.7	
LCS	Q1040341	HLI	DI-N-OCTYLPHTHALATE	100			116	ug/L	116.4	
LCS	Q1040341	HLI	FLUORANTHENE	100			100	ug/L	100.4	
LCS	Q1040341	HLI	FLUORENE	100			99.4	ug/L	99.4	
LCS	Q1040341	HLI	HEXACHLOROBENZENE	100			103	ug/L	103.1	
LCS	Q1040341	HLI	HEXACHLOROBUTADIENE	100			97.2	ug/L	97.2	
LCS	Q1040341	HLI	HEXACHLOROCYCLOPENTADIENE	100			66.5	ug/L	66.5	
LCS	Q1040341	HLI	HEXACHLOROETHANE	100			91.9	ug/L	91.9	
LCS	Q1040341	HLI	INDENO(1,2,3-CD)PYRENE	100			109	ug/L	109	
LCS	Q1040341	HLI	ISOPHORONE	100			101	ug/L	101.3	
LCS	Q1040341	HLI	2-METHYLNAPHTHALENE	100			101	ug/L	101.5	
LCS	Q1040341	HLI	NAPHTHALENE	100			101	ug/L	102	
LCS	Q1040341	HLI	2-NITROANILINE (O-NITROANILINE)	100			114	ug/L	114.8	
LCS	Q1040341	HLI	3-NITROANILINE (M-NITROANILINE)	100			125	ug/L	125.1	
LCS	Q1040341	HLI	4-NITROANILINE (P-NITROANILINE)	100			114	ug/L	114.9	
LCS	Q1040341	HLI	NITROBENZENE	100			104	ug/L	104.9	
LCS	Q1040341	HLI	N-NITROSODIPHENYLAMINE	100			182	ug/L	182.2	
LCS	Q1040341	HLI	N-NITROSO-DI-N-PROPYLAMINE	100			94.4	ug/L	94.4	
LCS	Q1040341	HLI	PHENANTHRENE	100			103	ug/L	103.5	
LCS	Q1040341	HLI	2-PICOLINE	100			69.5	ug/L	69.5	
LCS	Q1040341	HLI	PYRENE	100			108	ug/L	108.2	
LCS	Q1040341	HLI	PYRIDINE	100			56.7	ug/L	56.7	
LCS	Q1040341	HLI	1,2,4,5-TETRACHLOROBENZENE	100			119	ug/L	119.9	
LCS	Q1040341	HLI	1,2,4-TRICHLOROBENZENE	100			99.2	ug/L	99.2	
LCS	Q1040341	HLI	BENZOIC ACID	100			17.3	ug/L	17.3	
LCS	Q1040341	HLI	4-CHLORO-3-METHYLPHENOL (P-CHLORO-M	100			104	ug/L	104.4	
LCS	Q1040341	HLI	2-CHLOROPHENOL	100			89.7	ug/L	89.7	
LCS	Q1040341	HLI	2,4-DICHLOROPHENOL	100			106	ug/L	106.4	
LCS	Q1040341	HLI	2,4-DIMETHYLPHENOL	100			87.3	ug/L	87.3	
LCS	Q1040341	HLI	2,4-DINITROPHENOL	100			98.9	ug/L	98.9	
LCS	Q1040341	HLI	2-METHYLPHENOL (O-CRESOL)	100			89.3	ug/L	89.3	
LCS	Q1040341	HLI	4-METHYLPHENOL (P-CRESOL)	100			87.5	ug/L	87.5	
LCS	Q1040341	HLI	2-NITROPHENOL	100			107	ug/L	107.1	
LCS	Q1040341	HLI	4-NITROPHENOL	100			71.9	ug/L	71.9	
LCS	Q1040341	HLI	PENTACHLOROPHENOL	100			98.1	ug/L	98.1	

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270C 0505.3 (cont.)
Prep : GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510B

QCType	Lab ID	Source	Parameter	True/Sampl	Spike Val	RQL	Observed	Units	% Rec	RPD
LCS	Q1040341	HLI	PHENOL	100			58	ug/L	58	
LCS	Q1040341	HLI	2,3,4,6-TETRACHLOROPHENOL	100			107	ug/L	107.9	
LCS	Q1040341	HLI	2,4,5-TRICHLOROPHENOL	100			109	ug/L	109.5	
LCS	Q1040341	HLI	2,4,6-TRICHLOROPHENOL	100			106	ug/L	106.8	

Qualifiers

BDL Below Detection Limit

VOLATILE ORGANICS SW846-8240B 0510.3

R382295 Analyst: H WILLIAMS Run Date: 18-Nov-99 Instrument: GC/MS VOA
Analytical Reviewer: A BRADBURN Review Date: 24-Nov-99

QCType	Lab ID	Source	Parameter	True/Sampl	Spike Val	RQL	Observed	Units	% Rec	RPD
CCVD	Q1043175		Analysis Date/Time: 18-Nov-99 08:38							
CCVD	Q1043175		DICHLORODIFLUOROMETHANE	0.6530			1.0019			53.4
CCVD	Q1043175		CHLOROMETHANE	0.4565			0.4349			4.7
CCVD	Q1043175		VINYL CHLORIDE	0.7515			0.7066			6
CCVD	Q1043175		BROMOMETHANE	1.0474			1.1958			14.2
CCVD	Q1043175		CHLOROETHANE	0.5093			0.5315			4.4
CCVD	Q1043175		TRICHLOROFLUOROMETHANE	3.2722			3.2708			0
CCVD	Q1043175		ACROLEIN	0.0508			0.1420			179.5
CCVD	Q1043175		ACETONE (2-PROPANONE)	0.5111			0.3307			35.3
CCVD	Q1043175		1,1-DICHLOROETHENE	0.9773			0.9174			6.1
CCVD	Q1043175		DICHLOROMETHANE (METHYLENE CHLO	1.2601			1.1615			7.8
CCVD	Q1043175		ACRYLONITRILE	0.1732			0.2808			62.1
CCVD	Q1043175		VINYL ACETATE	2.4068			1.1772			51.1
CCVD	Q1043175		CARBON DISULFIDE	2.5280			2.0078			20.6
CCVD	Q1043175		1,1-DICHLOROETHANE	2.3440			2.1701			7.4
CCVD	Q1043175		METHYL ETHYL KETONE	0.7027			0.4781			32
CCVD	Q1043175		CHLOROFORM	3.2868			3.2590			0.8
CCVD	Q1043175		TETRAHYDROFURAN	0.3743			0.2638			29.5
CCVD	Q1043175		1,1,1-TRICHLOROETHANE	0.9566			0.9155			4.3
CCVD	Q1043175		CARBON TETRACHLORIDE	0.9649			0.8610			10.8
CCVD	Q1043175		1,2-DICHLOROETHANE	0.7879			0.7168			9
CCVD	Q1043175		BENZENE	0.8566			0.7968			7
CCVD	Q1043175		TRICHLOROETHENE	0.4947			0.5292			7
CCVD	Q1043175		1,2-DICHLOROPROPANE	0.4427			0.4101			7.4
CCVD	Q1043175		CIS-1,3-DICHLOROPROPENE	0.5977			0.6500			8.8
CCVD	Q1043175		TOLUENE	0.5754			0.5722			0.6
CCVD	Q1043175		TRANS-1,3-DICHLOROPROPENE	0.7020			0.6740			4
CCVD	Q1043175		2-HEXANONE	0.4930			0.3231			34.5
CCVD	Q1043175		1,1,2-TRICHLOROETHANE	0.5072			0.4860			4.2
CCVD	Q1043175		TETRACHLOROETHENE	0.5674			0.6320			11.4
CCVD	Q1043175		DIBROMOCHLOROMETHANE	1.2030			1.2178			1.2
CCVD	Q1043175		CHLOROBENZENE	0.9628			0.9931			3.1
CCVD	Q1043175		ETHYL BENZENE	0.4272			0.4413			3.3
CCVD	Q1043175		XYLENES (O/M/P-XYLENE)	1.084			1.081			0.28
CCVD	Q1043175		STYRENE	0.8982			0.9111			1.4
CCVD	Q1043175		BROMOFORM	1.0752			1.1038			2.7
CCVD	Q1043175		1,1,2,2-TETRACHLOROETHANE	0.8720			0.7959			8.7
CCVD	Q1043175		1,2-DICHLOROETHENE (CIS AND TRANS)	1.1026			1.1007			0.2
CCVD	Q1043175		DICHLOROETHANE-D4	2.2304			1.9543			12.4
CCVD	Q1043175		TOLUENE-D8	0.8894			0.8289			6.8
CCVD	Q1043175		4-BROMOFLUOROBENZENE	1.0182			0.9292			8.7

VOLATILE ORGANICS SW846-8240B 0510.3 (cont.)

QCType	Lab ID	Source	Parameter	True/Sampl	Spike Val	RQL	Observed	Units	% Rec	RPD
BLA01	Q1043176		Analysis Date/Time: 18-Nov-99 09:57							
BLA01	Q1043176		DICHLORODIFLUOROMETHANE			BDL	5.0	ug/L		
BLA01	Q1043176		CHLOROMETHANE			BDL	10	ug/L		
BLA01	Q1043176		VINYL CHLORIDE			BDL	10	ug/L		
BLA01	Q1043176		BROMOMETHANE			BDL	10	ug/L		
BLA01	Q1043176		CHLOROETHANE			BDL	10	ug/L		
BLA01	Q1043176		TRICHLOROFLUOROMETHANE			BDL	5.0	ug/L		
BLA01	Q1043176		ACROLEIN			BDL	50	ug/L		
BLA01	Q1043176		ACETONE (2-PROPANONE)			BDL	20	ug/L		
BLA01	Q1043176		1,1-DICHLOROETHENE			BDL	5.0	ug/L		
BLA01	Q1043176		DICHLOROMETHANE (METHYLENE CHLORIDE			BDL	5.0	ug/L		
BLA01	Q1043176		ACRYLONITRILE			BDL	70	ug/L		
BLA01	Q1043176		VINYL ACETATE			BDL	10	ug/L		
BLA01	Q1043176		CARBON DISULFIDE			BDL	5.0	ug/L		
BLA01	Q1043176		1,1-DICHLOROETHANE			BDL	5.0	ug/L		
BLA01	Q1043176		METHYL ETHYL KETONE			BDL	10	ug/L		
BLA01	Q1043176		CHLOROFORM			BDL	5.0	ug/L		
BLA01	Q1043176		TETRAHYDROFURAN			BDL	25	ug/L		
BLA01	Q1043176		1,1,1-TRICHLOROETHANE			BDL	5.0	ug/L		
BLA01	Q1043176		CARBON TETRACHLORIDE			BDL	5.0	ug/L		
BLA01	Q1043176		1,2-DICHLOROETHANE			BDL	5.0	ug/L		
BLA01	Q1043176		BENZENE			BDL	5.0	ug/L		
BLA01	Q1043176		TRICHLOROETHENE			BDL	5.0	ug/L		
BLA01	Q1043176		1,2-DICHLOROPROPANE			BDL	5.0	ug/L		
BLA01	Q1043176		CIS-1,3-DICHLOROPROPENE			BDL	5.0	ug/L		
BLA01	Q1043176		TOLUENE			BDL	5.0	ug/L		
BLA01	Q1043176		TRANS-1,3-DICHLOROPROPENE			BDL	5.0	ug/L		
BLA01	Q1043176		2-HEXANONE			BDL	10	ug/L		
BLA01	Q1043176		1,1,2-TRICHLOROETHANE			BDL	5.0	ug/L		
BLA01	Q1043176		TETRACHLOROETHENE			BDL	5.0	ug/L		
BLA01	Q1043176		DIBROMOCHLOROMETHANE			BDL	5.0	ug/L		
BLA01	Q1043176		CHLOROBENZENE			BDL	5.0	ug/L		
BLA01	Q1043176		ETHYL BENZENE			BDL	5.0	ug/L		
BLA01	Q1043176		XYLENES (O/M/P-XYLENE)			BDL	5	ug/L		
BLA01	Q1043176		STYRENE			BDL	5.0	ug/L		
BLA01	Q1043176		BROMOFORM			BDL	5.0	ug/L		
BLA01	Q1043176		1,1,2,2-TETRACHLOROETHANE			BDL	5.0	ug/L		
BLA01	Q1043176		1,2-DICHLOROETHENE (CIS AND TRANS)			BDL	5.0	ug/L		
BLA01	Q1043176		DICHLOROETHANE-D4						91	
BLA01	Q1043176		TOLUENE-D8						93	
BLA01	Q1043176		4-BROMOFLUOROBENZENE						92	
LCS01	Q1043177		Analysis Date/Time: 18-Nov-99 11:14							
LCS01	Q1043177		1,1-DICHLOROETHENE	20			18.8	ug/L	94	
LCS01	Q1043177		ACETONE (2-PROPANONE)	20			20.1	ug/L	100.5	
SAMPLE	A500550		Analysis Date/Time: 18-Nov-99 11:58							
SAMPLE	A500550		See Certificate of Analysis, Rep: 0							
SPI01	Q1043215	A500550	Analysis Date/Time: 18-Nov-99 15:34							
SPI01	Q1043215	A500550	ACETONE (2-PROPANONE)	0	50.0		27.3	ug/L	54.6	
SPI01	Q1043215	A500550	BENZENE	0	50.0		38.9	ug/L	77.7	
SPI01	Q1043215	A500550	BROMODICHLOROMETHANE	0	50.0		41.3	ug/L	82.5	
SPI01	Q1043215	A500550	BROMOFORM	0	50.0		45.5	ug/L	91	
SPI01	Q1043215	A500550	BROMOMETHANE	0	50.0		26.8	ug/L	53.6	
SPI01	Q1043215	A500550	CARBON DISULFIDE	0	50.0		26.2	ug/L	52.5	
SPI01	Q1043215	A500550	CARBON TETRACHLORIDE	0	50.0		35.4	ug/L	70.8	
SPI01	Q1043215	A500550	CHLOROBENZENE	0	50.0		45.3	ug/L	90.5	
SPI01	Q1043215	A500550	CHLOROETHANE	0	50.0		26.2	ug/L	52.4	

VOLATILE ORGANICS SW846-8240B 0510.3 (cont.)

QCType	Lab ID	Source	Parameter	True/Sampl	Spike Val	RQL	Observed	Units	% Rec	RPD
SPI01	Q1043215	A500550	CHLOROFORM	0	50.0		42.8	ug/L	85.7	
SPI01	Q1043215	A500550	CHLOROMETHANE	0	50.0		16.4	ug/L	32.9	
SPI01	Q1043215	A500550	DIBROMOCHLOROMETHANE	0	50.0		45.5	ug/L	91	
SPI01	Q1043215	A500550	CIS-1,3-DICHLOROPROPENE	0	50.0		40.2	ug/L	80.4	
SPI01	Q1043215	A500550	DICHLORODIFLUOROMETHANE	0	50.0		9.67	ug/L	19.3	
SPI01	Q1043215	A500550	1,1-DICHLOROETHANE	0	50.0		38.3	ug/L	76.5	
SPI01	Q1043215	A500550	1,2-DICHLOROETHANE	0	50.0		40.2	ug/L	80.4	
SPI01	Q1043215	A500550	1,1-DICHLOROETHENE	0	50	!	32.7	ug/L	65.5	
SPI01	Q1043215	A500550	1,2-DICHLOROPROPANE	0	50.0		41.7	ug/L	83.5	
SPI01	Q1043215	A500550	ETHYL BENZENE	0	50.0		44.6	ug/L	89.1	
SPI01	Q1043215	A500550	TRICHLOROFLUOROMETHANE	0	50.0		31.5	ug/L	63	
SPI01	Q1043215	A500550	2-HEXANONE	0	50.0		30.5	ug/L	61.1	
SPI01	Q1043215	A500550	DICHLOROMETHANE (METHYLENE CHLORIDE	0	50.0		35.6	ug/L	71.2	
SPI01	Q1043215	A500550	METHYL ETHYL KETONE	0	50.0		30.1	ug/L	60.3	
SPI01	Q1043215	A500550	4-METHYL-2-PENTANONE	0	50.0		32.7	ug/L	65.3	
SPI01	Q1043215	A500550	STYRENE	0	50.0		44.1	ug/L	88.3	
SPI01	Q1043215	A500550	1,1,2,2-TETRACHLOROETHANE	0	50.0		42.2	ug/L	84.5	
SPI01	Q1043215	A500550	TETRACHLOROETHENE	0	50.0		48.2	ug/L	96.5	
SPI01	Q1043215	A500550	TOLUENE	0	50.0		42.5	ug/L	85	
SPI01	Q1043215	A500550	1,2-DICHLOROETHENE (CIS AND TRANS)	0	100		80.3	ug/L	80.3	
SPI01	Q1043215	A500550	TRANS-1,3-DICHLOROPROPENE	0	50.0		40.8	ug/L	81.6	
SPI01	Q1043215	A500550	1,1,1-TRICHLOROETHANE	0	50		39	ug/L	78	
SPI01	Q1043215	A500550	1,1,2-TRICHLOROETHANE	0	50.0		44.6	ug/L	89.2	
SPI01	Q1043215	A500550	TRICHLOROETHENE	0	50.0		44.6	ug/L	89.3	
SPI01	Q1043215	A500550	VINYL ACETATE	0	50.0		11.3	ug/L	22.5	
SPI01	Q1043215	A500550	VINYL CHLORIDE	0	50.0		16.9	ug/L	33.9	
SPI01	Q1043215	A500550	TETRAHYDROFURAN	0	125		77.5	ug/L	62	
DPS01	Q1043223	A500550	Analysis Date/Time: 18-Nov-99 16:16							
DPS01	Q1043223	A500550	ACETONE (2-PROPANONE)	0	50.0		49.1	ug/L	99.9	58.6
DPS01	Q1043223	A500550	BENZENE	0	50.0		39.4	ug/L	78.8	1.4
DPS01	Q1043223	A500550	BROMODICHLOROMETHANE	0	50.0		43.4	ug/L	86.8	5.1
DPS01	Q1043223	A500550	BROMOFORM	0	50.0		50.8	ug/L	101.5	10.9
DPS01	Q1043223	A500550	BROMOMETHANE	0	50.0		26.1	ug/L	52.3	2.5
DPS01	Q1043223	A500550	CARBON DISULFIDE	0	50.0		29.2	ug/L	58.3	10.5
DPS01	Q1043223	A500550	CARBON TETRACHLORIDE	0	50.0		36.1	ug/L	72.2	2
DPS01	Q1043223	A500550	CHLOROBENZENE	0	50.0		46.7	ug/L	93.5	3.3
DPS01	Q1043223	A500550	CHLOROETHANE	0	50.0		26.8	ug/L	53.5	2.1
DPS01	Q1043223	A500550	CHLOROFORM	0	50.0		44.5	ug/L	88.9	3.7
DPS01	Q1043223	A500550	CHLOROMETHANE	0	50.0		16.9	ug/L	33.8	2.7
DPS01	Q1043223	A500550	DIBROMOCHLOROMETHANE	0	50.0		49.3	ug/L	98.5	7.9
DPS01	Q1043223	A500550	CIS-1,3-DICHLOROPROPENE	0	50.0		41.9	ug/L	83.8	4.1
DPS01	Q1043223	A500550	DICHLORODIFLUOROMETHANE	0	50.0		9.74	ug/L	19.5	1
DPS01	Q1043223	A500550	1,1-DICHLOROETHANE	0	50.0		39.9	ug/L	79.8	4.2
DPS01	Q1043223	A500550	1,2-DICHLOROETHANE	0	50.0		41.5	ug/L	83	3.2
DPS01	Q1043223	A500550	1,1-DICHLOROETHENE	0	50	!	33.2	ug/L	66.4	1.4
DPS01	Q1043223	A500550	1,2-DICHLOROPROPANE	0	50.0		43.4	ug/L	86.7	3.8
DPS01	Q1043223	A500550	ETHYL BENZENE	0	50.0		47.9	ug/L	95.7	7.1
DPS01	Q1043223	A500550	TRICHLOROFLUOROMETHANE	0	50.0		31.7	ug/L	63.4	0.6
DPS01	Q1043223	A500550	2-HEXANONE	0	50.0		41.8	ug/L	83.5	31
DPS01	Q1043223	A500550	DICHLOROMETHANE (METHYLENE CHLORIDE	0	50.0		38.2	ug/L	76.4	7
DPS01	Q1043223	A500550	METHYL ETHYL KETONE	0	50.0		40.1	ug/L	81.9	30.4
DPS01	Q1043223	A500550	4-METHYL-2-PENTANONE	0	50.0		42.3	ug/L	84.5	25.6
DPS01	Q1043223	A500550	STYRENE	0	50.0		44.1	ug/L	89.9	1.8
DPS01	Q1043223	A500550	1,1,2,2-TETRACHLOROETHANE	0	50.0		50.5	ug/L	101	17.8
DPS01	Q1043223	A500550	TETRACHLOROETHENE	0	50.0		51.6	ug/L	103.1	6.6
DPS01	Q1043223	A500550	TOLUENE	0	50.0		43.7	ug/L	87.4	2.8

VOLATILE ORGANICS SW846-8240B 0510.3 (cont.)

QCType	Lab ID	Source	Parameter	True/Sampl	Spike Val	RQL	Observed	Units	% Rec	RPD
DPS01	Q1043223	A500550	1,2-DICHLOROETHENE (CIS AND TRANS)	0	100		83.1	ug/L	84	4.5
DPS01	Q1043223	A500550	TRANS-1,3-DICHLOROPROPENE	0	50.0		42.5	ug/L	85	4.1
DPS01	Q1043223	A500550	1,1,1-TRICHLOROETHANE	0	50		40.3	ug/L	80.6	3.3
DPS01	Q1043223	A500550	1,1,2-TRICHLOROETHANE	0	50.0		48.5	ug/L	97	8.4
DPS01	Q1043223	A500550	TRICHLOROETHENE	0	50.0		46.9	ug/L	93.7	4.8
DPS01	Q1043223	A500550	VINYL ACETATE	0	50.0		12.9	ug/L	25.8	13.7
DPS01	Q1043223	A500550	VINYL CHLORIDE	0	50.0		17.4	ug/L	34.8	2.6
DPS01	Q1043223	A500550	TETRAHYDROFURAN	0	125		103	ug/L	82.7	28.6

Qualifiers

! Outside Lab Generated Control Limits

BDL Below Detection Limit

Approved : P.K Spence