2619
Laubscher Meadows
Landfill
Vanderburgh
County

OCT 6 10 25 AM '97
OFFICE OF SOLID AND HAZARDOUS WASTE MGMT. DEM

September 25, 1997

John Guerrettaz
Indiana Department of Environmental Management
100 North Senate
Indianapolis, Indiana 46204

Re: Background Ground Water Analysis For Laubscher Meadows Landfill, Vanderburgh County, Evansville, Indiana

SC August 1997

Dear Mr. Guerrettaz

In accordance with Indiana Department of Environmental Management (IDEM) regulation 329 IAC 10-21-5 and 329 IAC 10-19-1(a)(3)(C), submitted herewith, are the analytical results of the last of four independent ground water samples obtained from wells 13R, 14R, and 15D. This sampling event completes the establishment of background groundwater quality for the site.

Should you have any questions regarding the information submitted herein, or require additional information, please feel free to contact me at (812) 963- 3295 ext. 17.

Sincerely,

Jeffrey W. Jenkins,
Landfill Manager, C.P.G.
Browning-Ferris Industries
Laubscher Meadows Landfill

cc: Tim Ralston
Barry Wyatt
Mike McGovern

All data Entered in Access data base, except WATER Levels.

JE 2/7/98

BFI FIELD INFORMATION LOG

Facility: Laubscher Meadows Sample Point ID: MW13R

Location: Evansville Field Representative: S.Askaw, G. Clouse

Sample Matrix: GW Lab Sample #: A417280

Gascope Calibration: % Gas: ____ % LEL: ____
Gascope Reading: % Gas: ____ % LEL: ____

PURGE INFORMATION:

Method of Well Purge: Grundfos Pump Dedicated: Y

Date / Time Initiated: 8/18/97 ~~to~~ SA 17:25 One (1) Casing Volume, Gal: ____

Initial Water Level, Feet: 21.50 Total Volume Purged, Gal: 22.5

Ground Water Elevation, MSL: ____ Was Well Purged To Dryness: YES

Well Total Depth, Feet: 43.58 Water Level After Purge, Feet: ____

Casing Diameter, Inches: 2 Date / Time Completed: 8/19/97 10:30

PURGE DATA:

Time	Purge Rate (gpm/htz)	Cumulative Volume	Temp. (C)	pH (std units)	Conduct. (mhos/cm)	Turb. (NTU)	Other DO / EH
17:25	105	1 l	15.6	6.9	724	9.5	2.9 / -1
18:00	154	16 gal	14.8	6.85	715	9.7	4.4 / -1
18:20	drift @ 22.5 gal						
SAMPLE:							
8/19/97 10:30			15.9	7.0	722	14.5	4.5 / -4

BFI FIELD INFORMATION LOG (continued)

SAMPLING INFORMATION: Sample Point ID: MW13R

Method of Sampling: Grundfos Pump Dedicated: (Y) / N

Water Level @ Sampling, Feet: 21.50 Well Collection Sequence Number: _____

Parameters: Annual ( ) Semi-Annual ( ) Quarterly (X) Monthly ( ) Other ( ) _____

SAMPLING DATA:

Date/Time	Sample Rate	Temp. (°C)	pH (Std. Units)	Conduct. (µmhos/cm)	Turb. (NTU)	Other DO / EH
8/19/97 10:30	VOA _____ Other _____	15.9	7.0	722	14.5	4.5 / -4

INSTRUMENT CHECK DATA: See MW15D

Turbidity Serial #: _____ ___ NTU std. = ___ NTU ___ NTU std. = ___ NTU

pH Serial #: _____ 4.0 std. = ___ 7.0 std. = ___ 10.0 std. = ___

Conductivity Serial #: _____ ___ umhos/cm = ___ ___ umhos/cm = ___

GENERAL INFORMATION:

Weather Conditions @ time of sampling: rain

Sample Characterisitics: clear, no odor

ANALYTE COLLECTION ORDER, CONTAINERS, PRESERVATIVES AND TESTS PERFORMED:

unpl 1t plastic (Cl⁻, TDS, TSS, Alk, SO_4), 2-HNO_3 1t plastic (metals), $1t_2SO_4$ 1t plastic (NH_3), 3-HCl 40ml vials (VOA)

COMMENTS AND OBSERVATIONS: _____

I certify that sampling procedures were in accordance with all applicable EPA, State and BFI protocols.

Date: 8/19/97 By: [signature] Company: Heritage Enviro. Svc.

BFI FIELD INFORMATION LOG

Facility: Laubscher Meadows

Sample Point ID: MW14R

Location: Evansville

Field Representative: S. Askew / G. Clouse

Sample Matrix: GW

Lab Sample #: A417278

Gascope Calibration: % Gas: ____ % LEL: ____
Gascope Reading: % Gas: ____ % LEL: ____

PURGE INFORMATION.

Method of Well Purge: Grundfos Pump Dedicated: (R)

Date / Time Initiated: 8/18/97 16:45

One (1) Casing Volume, Gal: ____

Initial Water Level, Feet: 23.51

Total Volume Purged, Gal: ~~21~~ SA 25

Ground Water Elevation, MSL: ____

Was Well Purged To Dryness: yes

Well Total Depth, Feet: 53.36

Water Level After Purge, Feet: ____

Casing Diameter, Inches: 2

Date / Time Completed: 8/19/97 10:00

PURGE DATA:

Time	Purge Rate (gpm/htz)	Cumulative Volume	Temp. (C)	pH (std units)	Conduct. (mhos/cm)	Turb. (NTU)	Other DO / EH
8/16:45	112	1 l	15.6	6.99	718	9.5	1.0 / -
17:15	SA ~~2~~ 154	21 gal	15.1	6.94	749	9.5	1.0 / -
17:20	DRY @ 25 gal						
SAMPLE:							
8/19/97 10:00			14.7	7.61	766	18.5	11.5 / -

BFI FIELD INFORMATION LOG (continued)

SAMPLING INFORMATION: Sample Point ID: MW14R

Method of Sampling: Grundfos Pump Dedicated: (Y) / N

Water Level @ Sampling, Feet: 23.51 Well Collection Sequence Number: _____

Parameters: Annual ( ) Semi-Annual ( ) Quarterly (X) Monthly ( ) Other ( ) _____

SAMPLING DATA:

Date/Time	Sample Rate	Temp. (°C)	pH (Std. Units)	Conduct. (µmhos/cm)	Turb. (NTU)	Other DO / EH
8/19/97 10:00	VOA _____ Other _____	14.7	7.61	766	18.5	11.5 / -7

INSTRUMENT CHECK DATA: See MW15D

Turbidity Serial #: _____ ___ NTU std. = ___ NTU ___ NTU std. = ___ NTU

pH Serial #: _____ 4.0 std. = ___ 7.0 std. = ___ 10.0 std. = ___

Conductivity Serial #: _____ ___ umhos/cm = ___ ___ umhos/cm = ___

GENERAL INFORMATION:

Weather Conditions @ time of sampling: rainy

Sample Characterisitics: Clear, no odor

ANALYTE COLLECTION ORDER, CONTAINERS, PRESERVATIVES AND TESTS PERFORMED:

unpt plastic(Cl, TDS, TSS, Alk, SO_4), 2-HNO_3 pt plastic(metals), H_2SO_4 pt plastic (NH_3); 3-HCl 40-ml vials (VOA)

COMMENTS AND OBSERVATIONS: _____

I certify that sampling procedures were in accordance with all applicable EPA, State and BFI protocols.

Date: 8/19/97 By: [signature] Company: Heritage Enviro. Svc.

BFI FIELD INFORMATION LOG

Facility: Laubscher Meadows Sample Point ID: MW15D

Location: Evansville Field Representative: S. Askew + G. Clouse

Sample Matrix: GW Lab Sample #: A417276

Gascope Calibration: % Gas: ____ % LEL: ____
Gascope Reading: % Gas: ____ % LEL: ____

PURGE INFORMATION.

Method of Well Purge: _____ Dedicated: Y

Date / Time Initiated: 8/18/97 15:05 One (1) Casing Volume, Gal: _____

Initial Water Level, Feet: 9.55 Total Volume Purged, Gal: 1'

Ground Water Elevation, MSL: _____ Was Well Purged To Dryness: NO

Well Total Depth, Feet: 80.12 Water Level After Purge, Feet: _____

Casing Diameter, Inches: 2 Date / Time Completed: 8/18/97 16:30

PURGE DATA:

Time	Purge Rate (gpm/htz)	Cumulative Volume	Temp. (C)	pH (std units)	Conduct. (mhos/cm)	Turb. (NTU)	Other DO / Eh
1505	125	1 l	14.2	7.1	904	21.1	1.06 / -1
1550	134	50 gal	14.6	7.1	820	4.2	1.01 / -1
1615	134	100 gal	14.6	7.1	825	4.2	0.85 / -1
1625	134	125 gal	14.7	7.1	840	4.2	0.83 / -1
SAMPLE:							
1630	134	135 gal	14.7	7.1	841	4.1	0.83 / -1

BFI FIELD INFORMATION LOG (continued)

SAMPLING INFORMATION: Sample Point ID: MW15D

Method of Sampling: Grundfos Pump Dedicated: (Y) / N

Water Level @ Sampling, Feet: 9.55 Well Collection Sequence Number: _____

Parameters: Annual ( ) Semi-Annual ( ) Quarterly (X) Monthly ( ) Other ( ) _____

SAMPLING DATA:

Date/Time	Sample Rate	Temp. (°C)	pH (Std. Units)	Conduct. (µmhos/cm)	Turb. (NTU)	Other DO / EH
8/18/97 1630	VOA _____ Other _____	14.7	7.1	841	4.1	0.83 / -11

INSTRUMENT CHECK DATA:

Turbidity Serial #: 9606000109Z4 0-100 NTU std. = 55.4 NTU 0-10 NTU std. = 5.3 NTU

pH Serial #: 54510025 4.0 std. = 4.0 7.0 std. = 7.0 10.0 std. = 10.0

Conductivity Serial #: 62234033 1413 umhos/cm = 1414 12.9 umhos/cm = 10.5

GENERAL INFORMATION:

Weather Conditions @ time of sampling: rain

Sample Characterisitics: clear, no odor

ANALYTE COLLECTION ORDER, CONTAINERS, PRESERVATIVES AND TESTS PERFORMED:

unp lt plastic (Cl, TDS, TSS, Alk, SO_4), 2 HNO_3 lt plastic (metals), H_2SO_4 lt plastic (NH_3), 3 - HCl 40 ml vials (VOA)

COMMENTS AND OBSERVATIONS: _____

I certify that sampling procedures were in accordance with all applicable EPA, State and BFI protocols.

Date: 8/18/97 By: Steve Asker Company: Heritage Enviro. Svc

CASE NARRATIVE
SHIPPING & RECEIVING

The samples A417276-278, 280, 282 were intact at the time of receipt on 19-Aug-97. The samples were logged in and distributed to the appropriate groups for the requested testing.

OFFICE OF SOLID AND HAZARDOUS WASTE MGMT DEM
OCT 6 10 25 AM '97

Teresa A. Miller
Document Control Officer

TO ENSURE PROPER HANDLING OF S[illegible]LES PLEASE COMPLETE THIS ENTIRE FORM

HERITAGE ENVIR[illegible]NMENTAL SERVICES

COMMERCIAL LABORATORY OPERATIONS

7901 West Morris Street
Indianapolis, Indiana 46231 (317) 243-0811 Fax (317) 486-5095

I - 34[illegible]13

Co. Name: BFI

Project Name:

Quote No.: PO No.:

ENVIRONMENTAL PROGRAM:

CWA NPDES _____ IWP _____ SLUDGE _____

RCRA MW _____ SW _____ DISPOSAL _____

SDWA _____ CERCLA/SUPERFUND _____ OTHER _____

Sampled by: Steve Askew

Analyses Requested (Note special detection limits or methods): 2126 591

Report To:
Co:
Add: Jeff Jenkins
Attn:
Phone:

Accelerated Turnaround Requested _____ (Subject to Additional Charge)

Result Request by: ___/___/___ Mo Day Yr

(Date must be Accepted and Approved by Lab)

Client ID:	Date:	Time:	Comp	Grab	Sample Description	Sample Type (Matrix): DW, GW, WW, Soil, Oil, Sludge, Other	No. of Containers	Remarks:	LAB Sample No.
	8/18/97	1630 AM PM		✓	MW 15D		7		A417276
	8/18/97	1630 AM PM		✓	MW15D DUP		7		A417277
	8/19/97	1000 AM PM		✓	14R		7		A417278
	8/19/97	1030 AM PM		✓	13R		7		A417280
		AM PM			Trip Blanks		2	VOA only	A417282
		AM PM							
		AM PM							
		AM PM							
		AM PM							
		AM PM							
		AM PM							
		AM PM							

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	/			/	
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	/			/	
Relinquished by: (Signature) Steve Askew	Date/Time 8/19/97 / 2:15	Received for Lab by: (Signature) Angela Clemons	Date/Time 8/19/97 / 14:25:00	Remarks	

Properly Preserved ✓

Broken Bottles 0

Distribution: White original and Yellow copy to accompany sample to laboratory.
Pink copy to be retained by client.

Rev. 6/95

CERTIFICATE OF ANALYSIS

Service Location	Received	Project	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, INC. COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	19-AUG-97		A417276
	Complete	PO Number	
	08-SEP-97		
	Printed	Sampled	
	08-SEP-97	18-AUG-97 16:30	

Report To	Bill To
JEFF JENKINS BFI WASTE SYSTEMS 2211 GLENVIEW DRIVE EVANSVILLE, IN 47720	ALISHA CLARK BFI WASTE SYSTEMS 2020 LAUBSCHER ROAD EVANSVILLE, IN 47720

Sample Description

CLIENT ID: MW-15 D
DESCRIPTION: GRAB

FIELD TURBIDITY EPA 180.1

Analyst: S. ASKEW | Analysis Date: 18-AUG-97 | Instrument: FIELD | Test: G602.0.0

Parameter	Result	Det. Limit	Units
TURBIDITY	4.1	0.1	ntu

FIELD TEMPERATURE EPA 170.1

Analyst: S. ASKEW | Analysis Date: 18-AUG-97 | Instrument: FIELD | Test: G603.0.0

Parameter	Result	Det. Limit	Units
TEMPERATURE	14.7		Degrees C

FIELD PH (AQUEOUS) SW846-9040A

Analyst: S. ASKEW | Analysis Date: 18-AUG-97 | Instrument: FIELD | Test: G607.0.0

Parameter	Result	Det. Limit	Units
PH	7.1	0.1	Std. Units

FIELD DISSOLVED OXYGEN SAS

Analyst: S. ASKEW | Analysis Date: 18-AUG-97 | Instrument: FIELD | Test: G600.1.0

Parameter	Result	Det. Limit	Units
DISSOLVED OXYGEN	0.83		mg/L

FIELD OXIDATION-REDUCTION POTENTIAL SM2580B-18TH ED

Analyst: S. ASKEW | Analysis Date: 18-AUG-97 | Instrument: FIELD | Test: G604.7.0

Parameter	Result	Det. Limit	Units
OXIDATION/REDUCTION POTENTIAL	-11		mV

FIELD SPECIFIC CONDUCTANCE SW846-9050

Analyst: S. ASKEW | Analysis Date: 18-AUG-97 | Instrument: FIELD | Test: G604.0.0

Parameter	Result	Det. Limit	Units
CONDUCTIVITY	841	1.0	umHOS/cm

AMMONIA DISTILLATION EPA 350.2

Analyst: K. FULLMER | Analysis Date: 27-AUG-97 09:30 | Instrument: PREP | Test: P203.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	200		mL
FINAL VOLUME	250		mL

AMMONIA NITROGEN EPA 350.3

Analyst: K. BUNCH Analysis Date: 28-AUG-97 08:00 Test: G203.4.0
Prep: AMMONIA DISTILLATION EPA 350.2 P203.4.0

Parameter	Result	Det. Limit	Units
NITROGEN, AMMONIA	1.4	0.12	mg/L

CHLORIDE BY ION CHROMATOGRAPHY SW846-9056

Analyst: M. ADKINS Analysis Date: 21-AUG-97 21:18 Instrument: IC Test: G310.2.0

Parameter	Result	Det. Limit	Units
CHLORIDE	22	0.25	mg/L

FIELD FILTRATION SAS

Analyst: . Analysis Date: Instrument: FIELD Test: P110.0.0

FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A

Analyst: P. MASTERS Analysis Date: 21-AUG-97 13:00 Instrument: PREP Test: P132.4.0
Prep: FIELD FILTRATION SAS P110.0.0

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

SODIUM ICP SW846-6010A

Analyst: A. STOCKBURGER Analysis Date: 22-AUG-97 01:55 Instrument: ICP Test: M131.3.1
Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A P132.4.0
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
SODIUM	72.	0.20	mg/L

CADMIUM TRACE ICP SW846-6010A

Analyst: A. ROBERTSON Analysis Date: 25-AUG-97 18:21 Instrument: TRACE ICP Test: M108.0.1
Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A P132.4.0
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.0010	mg/L

CHROMIUM ICP SW846-6010A

Analyst: A. STOCKBURGER Analysis Date: 22-AUG-97 01:55 Instrument: ICP Test: M110.3.1
Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A P132.4.0
Prep: FIELD FILTRATION SAS P110.0.0

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

COPPER ICP SW846-6010A

Analyst: A. STOCKBURGER Analysis Date: 22-AUG-97 01:55 Instrument: ICP Test: M112.3.1
Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A P132.4.0
Prep: FIELD FILTRATION SAS P110.0.0

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

ZINC ICP SW846-6010A

Analyst: A. STOCKBURGER Analysis Date: 22-AUG-97 01:55 Instrument: ICP Test: M139.3.1
Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A P132.4.0
Prep: FIELD FILTRATION SAS P110.0.0

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

IRON ICP SW846-6010A
Analyst: A. STOCKBURGER Analysis Date: 22-AUG-97 01:55 Instrument: ICP Test: M115.3.1
Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A P132.4.0
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
IRON	9.7	0.025	mg/L

MAGNESIUM ICP SW846-6010A
Analyst: A. STOCKBURGER Analysis Date: 22-AUG-97 01:55 Instrument: ICP Test: M118.3.1
Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A P132.4.0
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
MAGNESIUM	34.	0.20	mg/L

MANGANESE ICP SW846-6010A
Analyst: A. STOCKBURGER Analysis Date: 22-AUG-97 01:55 Instrument: ICP Test: M119.3.1
Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A P132.4.0
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
MANGANESE	0.26	0.010	mg/L

POTASSIUM ICP SW846-6010A
Analyst: A. STOCKBURGER Analysis Date: 22-AUG-97 01:55 Instrument: ICP Test: M126.3.1
Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A P132.4.0
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
POTASSIUM	0.69	0.20	mg/L

DISSOLVED SOLIDS EPA 160.1
Analyst: J. ZAVELA Analysis Date: 20-AUG-97 12:00 Test: G402.7.0

Parameter	Result	Det. Limit	Units
DISSOLVED SOLIDS	500	10.0	mg/L

TOTAL SUSPENDED SOLIDS EPA 160.2
Analyst: R. PIERCE Analysis Date: 19-AUG-97 18:00 Test: G403.7.0

Parameter	Result	Det. Limit	Units
SUSPENDED SOLIDS	34	1.0	mg/L

ALKALINITY TOTAL EPA 310.1
Analyst: R. PIERCE Analysis Date: 25-AUG-97 22:00 Test: G605.2.0

Parameter	Result	Det. Limit	Units
ALKALINITY	460	1.0	mg/L

ALKALINITY (BICARBONATE) EPA 310.1
Analyst: R. PIERCE Analysis Date: 25-AUG-97 22:00 Test: G610.2.0

Parameter	Result	Det. Limit	Units
ALKALINITY	460	1.0	mg/L

ALKALINITY (CARBONATE) EPA 310.1
Analyst: R. PIERCE Analysis Date: 25-AUG-97 22:00 Test: G611.2.0

Parameter	Result	Det. Limit	Units
ALKALINITY	BDL	1.0	mg/L

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

Analyst: B. SCOTT Analysis Date: 21-AUG-97 14:00 Instrument: PREP Test: P130.4.0

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

CALCIUM ICP SW846-6010A

Analyst: A. HILSCHER Analysis Date: 22-AUG-97 13:58 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	76.	0.20	mg/L

SULFATE BY ION CHROMATOGRAPHY SW846-9056

Analyst: M. ADKINS Analysis Date: 21-AUG-97 21:18 Instrument: IC Test: G310.7.0

Parameter	Result	Det. Limit	Units
SULFATE	BDL	0.25	mg/L

VOLATILE ORGANICS (CAPILLARY COLUMN) SW846-8260A

Analyst: H. WILLIAMS Analysis Date: 21-AUG-97 12:02 Instrument: GC/MS VOA Test: O510.6.0

Parameter	Result	Det. Limit	Units
BENZENE	BDL	5.0	ug/L
CIS-1,3-DICHLOROPROPENE	BDL	5.0	ug/L
TRANS-1,3-DICHLOROPROPENE	BDL	5.0	ug/L
ETHYL BENZENE	BDL	5.0	ug/L
BROMOMETHANE	BDL	5.0	ug/L
CARBON TETRACHLORIDE	BDL	5.0	ug/L
CHLOROBENZENE	BDL	5.0	ug/L
CHLOROETHANE	BDL	5.0	ug/L
CHLOROFORM	BDL	5.0	ug/L
CHLOROMETHANE	BDL	5.0	ug/L
1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	BDL	5.0	ug/L
1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	BDL	5.0	ug/L
1,1-DICHLOROETHANE	BDL	5.0	ug/L
CIS-1,2-DICHLOROETHENE	BDL	5.0	ug/L
TRANS-1,2-DICHLOROETHENE	BDL	5.0	ug/L
1,1-DICHLOROETHENE	BDL	5.0	ug/L
1,2-DICHLOROETHANE	BDL	5.0	ug/L
1,2-DICHLOROPROPANE	BDL	5.0	ug/L
DICHLOROMETHANE (METHYLENE CHLORIDE)	BDL	5.0	ug/L
STYRENE	BDL	5.0	ug/L
1,1,1,2-TETRACHLOROETHANE	BDL	5.0	ug/L
1,1,2,2-TETRACHLOROETHANE	BDL	5.0	ug/L
TETRACHLOROETHENE	BDL	5.0	ug/L
TOLUENE	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
TRICHLOROFLUOROMETHANE	BDL	5.0	ug/L
VINYL CHLORIDE	BDL	2.0	ug/L
XYLENES (O/M/P-XYLENE)	BDL	5.0	ug/L
...			
SURROGATE RECOVERY			

DICHLOROETHANE-D4	102		% Rec
TOLUENE-D8	99		% Rec
4-BROMOFLUOROBENZENE	93		% Rec

1:5 DILUTION

Sample Comments

BDL Below Detection Limit

Sample chain of custody number 64133.

This Certificate shall not be reproduced, except in full, without the written approval of the lab.

Approved : P.K Spence

HERITAGE ENVIRONMENTAL SERVICES, INC. Sample ID: A417277 MW-15 D DUP

Parameter	Result	Det. Limit	Units
CIS-1,2-DICHLOROETHENE	BDL	5.0	ug/L
TRANS-1,2-DICHLOROETHENE	BDL	5.0	ug/L
1,1-DICHLOROETHENE	BDL	5.0	ug/L
1,2-DICHLOROETHANE	BDL	5.0	ug/L
1,2-DICHLOROPROPANE	BDL	5.0	ug/L
DICHLOROMETHANE (METHYLENE CHLORIDE)	BDL	5.0	ug/L
STYRENE	BDL	5.0	ug/L
1,1,1,2-TETRACHLOROETHANE	BDL	5.0	ug/L
1,1,2,2-TETRACHLOROETHANE	BDL	5.0	ug/L
TETRACHLOROETHENE	BDL	5.0	ug/L
TOLUENE	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
TRICHLOROFLUOROMETHANE	BDL	5.0	ug/L
VINYL CHLORIDE	BDL	2.0	ug/L
XYLENES (O/M/P-XYLENE)	BDL	5.0	ug/L
...			
SURROGATE RECOVERY			

DICHLOROETHANE-D4	94		% Rec
TOLUENE-D8	108		% Rec
4-BROMOFLUOROBENZENE	86		% Rec

1:5 DILUTION

Sample Comments

BDL Below Detection Limit

Sample chain of custody number 64133.

This Certificate shall not be reproduced, except in full, without the written approval of the lab.

Approved : P.K Spence

CERTIFICATE OF ANALYSIS

Service Location	Received	Project	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, INC. COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	19-AUG-97		A417277
	Complete 08-SEP-97	PO Number	
	Printed 08-SEP-97	Sampled 18-AUG-97 16:30	

Report To	Bill To
JEFF JENKINS BFI WASTE SYSTEMS 2211 GLENVIEW DRIVE EVANSVILLE, IN 47720	ALISHA CLARK BFI WASTE SYSTEMS 2020 LAUBSCHER ROAD EVANSVILLE, IN 47720

Sample Description

CLIENT ID: MW-15 D DUP
DESCRIPTION: GRAB

AMMONIA DISTILLATION EPA 350.2

Analyst: K. FULLMER Analysis Date: 27-AUG-97 09:30 Instrument: PREP Test: P203.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	200		mL
FINAL VOLUME	250		mL

AMMONIA NITROGEN EPA 350.3

Analyst: K. BUNCH Analysis Date: 28-AUG-97 08:00 Test: G203.4.0
Prep: AMMONIA DISTILLATION EPA 350.2 P203.4.0

Parameter	Result	Det. Limit	Units
NITROGEN, AMMONIA	1.6	0.12	mg/L

CHLORIDE BY ION CHROMATOGRAPHY SW846-9056

Analyst: M. ADKINS Analysis Date: 21-AUG-97 22:47 Instrument: IC Test: G310.2.0

Parameter	Result	Det. Limit	Units
CHLORIDE	22	0.25	mg/L

FIELD FILTRATION SAS

Analyst: . Analysis Date: Instrument: FIELD Test: P110.0.0

FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A

Analyst: P. MASTERS Analysis Date: 21-AUG-97 13:00 Instrument: PREP Test: P132.4.0
Prep: FIELD FILTRATION SAS P110.0.0

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

SODIUM ICP SW846-6010A

Analyst: A. STOCKBURGER Analysis Date: 22-AUG-97 01:57 Instrument: ICP Test: M131.3.1
Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A P132.4.0
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
SODIUM	73.	0.20	mg/L

CADMIUM TRACE ICP SW846-6010A

Analyst: A. ROBERTSON Analysis Date: 25-AUG-97 18:24 Instrument: TRACE ICP Test: M108.0.1
Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A P132.4.0
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.0010	mg/L

CHROMIUM ICP SW846-6010A

Analyst: A. STOCKBURGER Analysis Date: 22-AUG-97 01:57 Instrument: ICP Test: M110.3.1
Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A P132.4.0
Prep: FIELD FILTRATION SAS P110.0.0

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

COPPER ICP SW846-6010A

Analyst: A. STOCKBURGER Analysis Date: 22-AUG-97 01:57 Instrument: ICP Test: M112.3.1
Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A P132.4.0
Prep: FIELD FILTRATION SAS P110.0.0

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

ZINC ICP SW846-6010A

Analyst: A. STOCKBURGER Analysis Date: 22-AUG-97 01:57 Instrument: ICP Test: M139.3.1
Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A P132.4.0
Prep: FIELD FILTRATION SAS P110.0.0

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

IRON ICP SW846-6010A

Analyst: A. STOCKBURGER Analysis Date: 22-AUG-97 01:57 Instrument: ICP Test: M115.3.1
Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A P132.4.0
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
IRON	10.	0.025	mg/L

MAGNESIUM ICP SW846-6010A

Analyst: A. STOCKBURGER Analysis Date: 22-AUG-97 01:57 Instrument: ICP Test: M118.3.1
Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A P132.4.0
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
MAGNESIUM	34.	0.20	mg/L

MANGANESE ICP SW846-6010A

Analyst: A. STOCKBURGER Analysis Date: 22-AUG-97 01:57 Instrument: ICP Test: M119.3.1
Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A P132.4.0
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
MANGANESE	0.24	0.010	mg/L

POTASSIUM ICP SW846-6010A

Analyst: A. STOCKBURGER Analysis Date: 22-AUG-97 01:57 Instrument: ICP Test: M126.3.1
Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A P132.4.0
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
POTASSIUM	0.70	0.20	mg/L

DISSOLVED SOLIDS EPA 160.1

Analyst: J. ZAVELA Analysis Date: 20-AUG-97 12:00 Test: G402.7.0

Parameter	Result	Det. Limit	Units
DISSOLVED SOLIDS	520	10.0	mg/L

TOTAL SUSPENDED SOLIDS EPA 160.2

Analyst: R. PIERCE Analysis Date: 19-AUG-97 18:00 Test: G403.7.0

Parameter	Result	Det. Limit	Units
SUSPENDED SOLIDS	30	1.0	mg/L

ALKALINITY TOTAL EPA 310.1

Analyst: R. PIERCE Analysis Date: 25-AUG-97 22:00 Test: G605.2.0

Parameter	Result	Det. Limit	Units
ALKALINITY	450	1.0	mg/L

ALKALINITY (BICARBONATE) EPA 310.1

Analyst: R. PIERCE Analysis Date: 25-AUG-97 22:00 Test: G610.2.0

Parameter	Result	Det. Limit	Units
ALKALINITY	450	1.0	mg/L

ALKALINITY (CARBONATE) EPA 310.1

Analyst: R. PIERCE Analysis Date: 25-AUG-97 22:00 Test: G611.2.0

Parameter	Result	Det. Limit	Units
ALKALINITY	BDL	1.0	mg/L

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

Analyst: B. SCOTT Analysis Date: 21-AUG-97 14:00 Instrument: PREP Test: P130.4.0

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

CALCIUM ICP SW846-6010A

Analyst: A. HILSCHER Analysis Date: 22-AUG-97 14:10 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	80.	0.20	mg/L

SULFATE BY ION CHROMATOGRAPHY SW846-9056

Analyst: M. ADKINS Analysis Date: 21-AUG-97 22:47 Instrument: IC Test: G310.7.0

Parameter	Result	Det. Limit	Units
SULFATE	BDL	0.25	mg/L

VOLATILE ORGANICS (CAPILLARY COLUMN) SW846-8260A

Analyst: M. WILLIAMS Analysis Date: 21-AUG-97 12:39 Instrument: GC/MS VOA Test: O510.6.0

Parameter	Result	Det. Limit	Units
BENZENE	BDL	5.0	ug/L
CIS-1,3-DICHLOROPROPENE	BDL	5.0	ug/L
TRANS-1,3-DICHLOROPROPENE	BDL	5.0	ug/L
ETHYL BENZENE	BDL	5.0	ug/L
BROMOMETHANE	BDL	5.0	ug/L
CARBON TETRACHLORIDE	BDL	5.0	ug/L
CHLOROBENZENE	BDL	5.0	ug/L
CHLOROETHANE	BDL	5.0	ug/L
CHLOROFORM	BDL	5.0	ug/L
CHLOROMETHANE	BDL	5.0	ug/L
1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	BDL	5.0	ug/L
1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	BDL	5.0	ug/L
1,1-DICHLOROETHANE	BDL	5.0	ug/L

CERTIFICATE OF ANALYSIS

Service Location	Received	Project	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, INC. COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	19-AUG-97		A417278
	Complete 08-SEP-97	PO Number	
	Printed 08-SEP-97	Sampled 19-AUG-97 10:00	

Report To	Bill To
JEFF JENKINS BFI WASTE SYSTEMS 2211 GLENVIEW DRIVE EVANSVILLE, IN 47720	ALISHA CLARK BFI WASTE SYSTEMS 2020 LAUBSCHER ROAD EVANSVILLE, IN 47720

Sample Description

CLIENT ID: 14 R
DESCRIPTION: GRAB

FIELD TURBIDITY EPA 180.1

Analyst: S. ASKEW Analysis Date: 19-AUG-97 Instrument: FIELD Test: G602.0.0

Parameter	Result	Det. Limit	Units
TURBIDITY	18.5	0.1	ntu

FIELD TEMPERATURE EPA 170.1

Analyst: S. ASKEW Analysis Date: 19-AUG-97 Instrument: FIELD Test: G603.0.0

Parameter	Result	Det. Limit	Units
TEMPERATURE	14.7		Degrees C

FIELD PH (AQUEOUS) SW846-9040A

Analyst: S. ASKEW Analysis Date: 19-AUG-97 Instrument: FIELD Test: G607.0.0

Parameter	Result	Det. Limit	Units
PH	7.61	0.1	Std. Units

FIELD DISSOLVED OXYGEN SAS

Analyst: S. ASKEW Analysis Date: 19-AUG-97 Instrument: FIELD Test: G600.1.0

Parameter	Result	Det. Limit	Units
DISSOLVED OXYGEN	11.5	1	mg/L

FIELD OXIDATION-REDUCTION POTENTIAL SM2580B-18TH ED

Analyst: S. ASKEW Analysis Date: 19-AUG-97 Instrument: FIELD Test: G604.7.0

Parameter	Result	Det. Limit	Units
OXIDATION/REDUCTION POTENTIAL	-7		mV

FIELD SPECIFIC CONDUCTANCE SW846-9050

Analyst: S. ASKEW Analysis Date: 19-AUG-97 Instrument: FIELD Test: G604.0.0

Parameter	Result	Det. Limit	Units
CONDUCTIVITY	766	1.0	umHOS/cm

AMMONIA DISTILLATION EPA 350.2

Analyst: K. FULLMER Analysis Date: 27-AUG-97 09:30 Instrument: PREP Test: P203.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	200		mL
FINAL VOLUME	250		mL

AMMONIA NITROGEN EPA 350.3
Analyst: K. BUNCH Analysis Date: 28-AUG-97 08:00 Test: G203.4.0
Prep: AMMONIA DISTILLATION EPA 350.2 P203.4.0

Parameter	Result	Det. Limit	Units
NITROGEN, AMMONIA	4.2	0.12	mg/L

CHLORIDE BY ION CHROMATOGRAPHY SW846-9056
Analyst: M. ADKINS Analysis Date: 21-AUG-97 23:57 Instrument: IC Test: G310.2.0

Parameter	Result	Det. Limit	Units
CHLORIDE	9	0.25	mg/L

FIELD FILTRATION SAS
Analyst: . Analysis Date: Instrument: FIELD Test: P110.0.0

FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A
Analyst: P. MASTERS Analysis Date: 21-AUG-97 13:00 Instrument: PREP Test: P132.4.0
Prep: FIELD FILTRATION SAS P110.0.0

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

SODIUM ICP SW846-6010A
Analyst: A. STOCKBURGER Analysis Date: 22-AUG-97 02:00 Instrument: ICP Test: M131.3.1
Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A P132.4.0
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
SODIUM	62.	0.20	mg/L

CADMIUM TRACE ICP SW846-6010A
Analyst: A. ROBERTSON Analysis Date: 25-AUG-97 18:27 Instrument: TRACE ICP Test: M108.0.1
Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A P132.4.0
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.0010	mg/L

CHROMIUM ICP SW846-6010A
Analyst: A. STOCKBURGER Analysis Date: 22-AUG-97 02:00 Instrument: ICP Test: M110.3.1
Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A P132.4.0
Prep: FIELD FILTRATION SAS P110.0.0

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

COPPER ICP SW846-6010A
Analyst: A. STOCKBURGER Analysis Date: 22-AUG-97 02:00 Instrument: ICP Test: M112.3.1
Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A P132.4.0
Prep: FIELD FILTRATION SAS P110.0.0

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

ZINC ICP SW846-6010A
Analyst: A. STOCKBURGER Analysis Date: 22-AUG-97 02:00 Instrument: ICP Test: M139.3.1
Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A P132.4.0
Prep: FIELD FILTRATION SAS P110.0.0

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

IRON ICP SW846-6010A
Analyst: A. STOCKBURGER Analysis Date: 22-AUG-97 02:00 Instrument: ICP Test: M115.3.1
Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A P132.4.0
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
IRON	1.9	0.025	mg/L

MAGNESIUM ICP SW846-6010A
Analyst: A. STOCKBURGER Analysis Date: 22-AUG-97 02:00 Instrument: ICP Test: M118.3.1
Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A P132.4.0
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
MAGNESIUM	29.	0.20	mg/L

MANGANESE ICP SW846-6010A
Analyst: A. STOCKBURGER Analysis Date: 22-AUG-97 02:00 Instrument: ICP Test: M119.3.1
Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A P132.4.0
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
MANGANESE	0.66	0.010	mg/L

POTASSIUM ICP SW846-6010A
Analyst: A. STOCKBURGER Analysis Date: 22-AUG-97 02:00 Instrument: ICP Test: M126.3.1
Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A P132.4.0
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
POTASSIUM	0.87	0.20	mg/L

DISSOLVED SOLIDS EPA 160.1
Analyst: J. ZAVELA Analysis Date: 25-AUG-97 12:00 Test: G402.7.0

Parameter	Result	Det. Limit	Units
DISSOLVED SOLIDS	430	10.0	mg/L

TOTAL SUSPENDED SOLIDS EPA 160.2
Analyst: R. PIERCE Analysis Date: 19-AUG-97 18:00 Test: G403.7.0

Parameter	Result	Det. Limit	Units
SUSPENDED SOLIDS	15	1.0	mg/L

ALKALINITY TOTAL EPA 310.1
Analyst: R. PIERCE Analysis Date: 25-AUG-97 22:00 Test: G605.2.0

Parameter	Result	Det. Limit	Units
ALKALINITY	390	1.0	mg/L

ALKALINITY (BICARBONATE) EPA 310.1
Analyst: R. PIERCE Analysis Date: 25-AUG-97 22:00 Test: G610.2.0

Parameter	Result	Det. Limit	Units
ALKALINITY	390	1.0	mg/L

ALKALINITY (CARBONATE) EPA 310.1
Analyst: R. PIERCE Analysis Date: 25-AUG-97 22:00 Test: G611.2.0

Parameter	Result	Det. Limit	Units
ALKALINITY	BDL	1.0	mg/L

FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A
Analyst: B. SCOTT Analysis Date: 21-AUG-97 14:00 Instrument: PREP Test: P130.4.0

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

CALCIUM ICP SW846-6010A
Analyst: A. HILSCHER Analysis Date: 22-AUG-97 14:13 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	70.	0.20	mg/L

SULFATE BY ION CHROMATOGRAPHY SW846-9056
Analyst: M. ADKINS Analysis Date: 21-AUG-97 23:57 Instrument: IC Test: G310.7.0

Parameter	Result	Det. Limit	Units
SULFATE	16	0.25	mg/L

VOLATILE ORGANICS (CAPILLARY COLUMN) SW846-8260A
Analyst: H. WILLIAMS Analysis Date: 25-AUG-97 07:20 Instrument: GC/MS VOA Test: O510.6.0

Parameter	Result	Det. Limit	Units
BENZENE	BDL	5.0	ug/L
CIS-1,3-DICHLOROPROPENE	BDL	5.0	ug/L
TRANS-1,3-DICHLOROPROPENE	BDL	5.0	ug/L
ETHYL BENZENE	BDL	5.0	ug/L
BROMOMETHANE	BDL	5.0	ug/L
CARBON TETRACHLORIDE	BDL	5.0	ug/L
CHLOROBENZENE	BDL	5.0	ug/L
CHLOROETHANE	BDL	5.0	ug/L
CHLOROFORM	BDL	5.0	ug/L
CHLOROMETHANE	BDL	5.0	ug/L
1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	BDL	5.0	ug/L
1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	BDL	5.0	ug/L
1,1-DICHLOROETHANE	BDL	5.0	ug/L
CIS-1,2-DICHLOROETHENE	BDL	5.0	ug/L
TRANS-1,2-DICHLOROETHENE	BDL	5.0	ug/L
1,1-DICHLOROETHENE	BDL	5.0	ug/L
1,2-DICHLOROETHANE	BDL	5.0	ug/L
1,2-DICHLOROPROPANE	BDL	5.0	ug/L
DICHLOROMETHANE (METHYLENE CHLORIDE)	BDL	5.0	ug/L
STYRENE	BDL	5.0	ug/L
1,1,1,2-TETRACHLOROETHANE	BDL	5.0	ug/L
1,1,2,2-TETRACHLOROETHANE	BDL	5.0	ug/L
TETRACHLOROETHENE	BDL	5.0	ug/L
TOLUENE	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
TRICHLOROFLUOROMETHANE	BDL	5.0	ug/L
VINYL CHLORIDE	BDL	2.0	ug/L
XYLENES (O/M/P-XYLENE)	BDL	5.0	ug/L
...			
SURROGATE RECOVERY			
DICHLOROETHANE-D4	105		% Rec
TOLUENE-D8	100		% Rec
4-BROMOFLUOROBENZENE	88		% Rec

Sample Comments

BDL Below Detection Limit

Sample chain of custody number 64133.

This Certificate shall not be reproduced, except in full, without the written approval of the lab.

Approved : P.K Spence

CERTIFICATE OF ANALYSIS

Service Location	Received	Project	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, INC. COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	19-AUG-97		A417280
	Complete	PO Number	
	08-SEP-97		
	Printed	Sampled	
	08-SEP-97	19-AUG-97 10:30	

Report To	Bill To
JEFF JENKINS BFI WASTE SYSTEMS 2211 GLENVIEW DRIVE EVANSVILLE, IN 47720	ALISHA CLARK BFI WASTE SYSTEMS 2020 LAUBSCHER ROAD EVANSVILLE, IN 47720

Sample Description

CLIENT ID: 13 R
DESCRIPTION: GRAB

FIELD TURBIDITY EPA 180.1
Analyst: S. ASKEW | Analysis Date: 19-AUG-97 | Instrument: FIELD | Test: G602.0.0

Parameter	Result	Det. Limit	Units
TURBIDITY	14.5	0.1	ntu

FIELD TEMPERATURE EPA 170.1
Analyst: S. ASKEW | Analysis Date: 19-AUG-97 | Instrument: FIELD | Test: G603.0.0

Parameter	Result	Det. Limit	Units
TEMPERATURE	15.9		Degrees C

FIELD PH (AQUEOUS) SW846-9040A
Analyst: S. ASKEW | Analysis Date: 19-AUG-97 | Instrument: FIELD | Test: G607.0.0

Parameter	Result	Det. Limit	Units
PH	7.0	0.1	Std. Units

FIELD DISSOLVED OXYGEN SAS
Analyst: S. ASKEW | Analysis Date: 19-AUG-97 | Instrument: FIELD | Test: G600.1.0

Parameter	Result	Det. Limit	Units
DISSOLVED OXYGEN	4.5	1	mg/L

FIELD OXIDATION-REDUCTION POTENTIAL SM2580B-18TH ED
Analyst: S. ASKEW | Analysis Date: 19-AUG-97 | Instrument: FIELD | Test: G604.7.0

Parameter	Result	Det. Limit	Units
OXIDATION/REDUCTION POTENTIAL	-4		mV

FIELD SPECIFIC CONDUCTANCE SW846-9050
Analyst: S. ASKEW | Analysis Date: 19-AUG-97 | Instrument: FIELD | Test: G604.0.0

Parameter	Result	Det. Limit	Units
CONDUCTIVITY	722	1.0	umHOS/cm

AMMONIA DISTILLATION EPA 350.2
Analyst: K. FULLMER | Analysis Date: 27-AUG-97 09:30 | Instrument: PREP | Test: P203.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	200		mL
FINAL VOLUME	250		mL

AMMONIA NITROGEN EPA 350.3

Analyst: K. BUNCH Analysis Date: 28-AUG-97 08:00 Test: G203.4.0
Prep: AMMONIA DISTILLATION EPA 350.2 P203.4.0

Parameter	Result	Det. Limit	Units
NITROGEN, AMMONIA	0.29	0.12	mg/L

CHLORIDE BY ION CHROMATOGRAPHY SW846-9056

Analyst: M. ADKINS Analysis Date: 22-AUG-97 00:15 Instrument: IC Test: G310.2.0

Parameter	Result	Det. Limit	Units
CHLORIDE	5.2	0.25	mg/L

FIELD FILTRATION SAS

Analyst: . Analysis Date: Instrument: FIELD Test: P110.0.0

FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A

Analyst: P. MASTERS Analysis Date: 21-AUG-97 13:00 Instrument: PREP Test: P132.4.0
Prep: FIELD FILTRATION SAS P110.0.0

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

SODIUM ICP SW846-6010A

Analyst: A. STOCKBURGER Analysis Date: 22-AUG-97 01:27 Instrument: ICP Test: M131.3.1
Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A P132.4.0
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
SODIUM	44.	0.20	mg/L

CADMIUM TRACE ICP SW846-6010A

Analyst: A. ROBERTSON Analysis Date: 25-AUG-97 17:40 Instrument: TRACE ICP Test: M108.0.1
Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A P132.4.0
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.0010	mg/L

CHROMIUM ICP SW846-6010A

Analyst: A. STOCKBURGER Analysis Date: 22-AUG-97 01:27 Instrument: ICP Test: M110.3.1
Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A P132.4.0
Prep: FIELD FILTRATION SAS P110.0.0

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

COPPER ICP SW846-6010A

Analyst: A. STOCKBURGER Analysis Date: 22-AUG-97 01:27 Instrument: ICP Test: M112.3.1
Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A P132.4.0
Prep: FIELD FILTRATION SAS P110.0.0

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

ZINC ICP SW846-6010A

Analyst: A. STOCKBURGER Analysis Date: 22-AUG-97 01:27 Instrument: ICP Test: M139.3.1
Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A P132.4.0
Prep: FIELD FILTRATION SAS P110.0.0

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

IRON ICP SW846-6010A
Analyst: A. STOCKBURGER Analysis Date: 22-AUG-97 01:27 Instrument: ICP Test: M115.3.1
Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A P132.4.0
Prep: FIELD FILTRATION SAS P110.0.0

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

MAGNESIUM ICP SW846-6010A
Analyst: A. STOCKBURGER Analysis Date: 22-AUG-97 01:27 Instrument: ICP Test: M118.3.1
Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A P132.4.0
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
MAGNESIUM	36.	0.20	mg/L

MANGANESE ICP SW846-6010A
Analyst: A. STOCKBURGER Analysis Date: 22-AUG-97 01:27 Instrument: ICP Test: M119.3.1
Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A P132.4.0
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
MANGANESE	0.53	0.010	mg/L

POTASSIUM ICP SW846-6010A
Analyst: A. STOCKBURGER Analysis Date: 22-AUG-97 01:27 Instrument: ICP Test: M126.3.1
Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A P132.4.0
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
POTASSIUM	0.45	0.20	mg/L

DISSOLVED SOLIDS EPA 160.1
Analyst: J. ZAVELA Analysis Date: 25-AUG-97 12:00 Test: G402.7.0

Parameter	Result	Det. Limit	Units
DISSOLVED SOLIDS	410	10.0	mg/L

TOTAL SUSPENDED SOLIDS EPA 160.2
Analyst: R. PIERCE Analysis Date: 19-AUG-97 18:00 Test: G403.7.0

Parameter	Result	Det. Limit	Units
SUSPENDED SOLIDS	8	1.0	mg/L

ALKALINITY TOTAL EPA 310.1
Analyst: R. PIERCE Analysis Date: 25-AUG-97 22:00 Test: G605.2.0

Parameter	Result	Det. Limit	Units
ALKALINITY	400	1.0	mg/L

ALKALINITY (BICARBONATE) EPA 310.1
Analyst: R. PIERCE Analysis Date: 25-AUG-97 22:00 Test: G610.2.0

Parameter	Result	Det. Limit	Units
ALKALINITY	400	1.0	mg/L

ALKALINITY (CARBONATE) EPA 310.1
Analyst: R. PIERCE Analysis Date: 25-AUG-97 22:00 Test: G611.2.0

Parameter	Result	Det. Limit	Units
ALKALINITY	BDL	1.0	mg/L

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

Analyst: B. SCOTT Analysis Date: 21-AUG-97 14:00 Instrument: PREP Test: P130.4.0

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

CALCIUM ICP SW846-6010A

Analyst: A. HILSCHER Analysis Date: 22-AUG-97 14:15 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	73.	0.20	mg/L

SULFATE BY ION CHROMATOGRAPHY SW846-9056

Analyst: M. ADKINS Analysis Date: 22-AUG-97 00:15 Instrument: IC Test: G310.7.0

Parameter	Result	Det. Limit	Units
SULFATE	12	0.25	mg/L

VOLATILE ORGANICS (CAPILLARY COLUMN) SW846-8260A

Analyst: H. WILLIAMS Analysis Date: 25-AUG-97 07:56 Instrument: GC/MS VOA Test: O510.6.0

Parameter	Result	Det. Limit	Units
BENZENE	BDL	5.0	ug/L
CIS-1,3-DICHLOROPROPENE	BDL	5.0	ug/L
TRANS-1,3-DICHLOROPROPENE	BDL	5.0	ug/L
ETHYL BENZENE	BDL	5.0	ug/L
BROMOMETHANE	BDL	5.0	ug/L
CARBON TETRACHLORIDE	BDL	5.0	ug/L
CHLOROBENZENE	BDL	5.0	ug/L
CHLOROETHANE	BDL	5.0	ug/L
CHLOROFORM	BDL	5.0	ug/L
CHLOROMETHANE	BDL	5.0	ug/L
1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	BDL	5.0	ug/L
1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	BDL	5.0	ug/L
1,1-DICHLOROETHANE	BDL	5.0	ug/L
CIS-1,2-DICHLOROETHENE	BDL	5.0	ug/L
TRANS-1,2-DICHLOROETHENE	BDL	5.0	ug/L
1,1-DICHLOROETHENE	BDL	5.0	ug/L
1,2-DICHLOROETHANE	BDL	5.0	ug/L
1,2-DICHLOROPROPANE	BDL	5.0	ug/L
DICHLOROMETHANE (METHYLENE CHLORIDE)	BDL	5.0	ug/L
STYRENE	BDL	5.0	ug/L
1,1,1,2-TETRACHLOROETHANE	BDL	5.0	ug/L
1,1,2,2-TETRACHLOROETHANE	BDL	5.0	ug/L
TETRACHLOROETHENE	BDL	5.0	ug/L
TOLUENE	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
TRICHLOROFLUOROMETHANE	BDL	5.0	ug/L
VINYL CHLORIDE	BDL	2.0	ug/L
XYLENES (O/M/P-XYLENE)	BDL	5.0	ug/L
...			
SURROGATE RECOVERY			

DICHLOROETHANE-D4	92		% Rec
TOLUENE-D8	108		% Rec
4-BROMOFLUOROBENZENE	92		% Rec

Sample Comments

BDL Below Detection Limit

Sample chain of custody number 64133.

This Certificate shall not be reproduced, except in full, without the written approval of the lab.

Approved : P.K Spence

CERTIFICATE OF ANALYSIS

Service Location	Received	Project	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, INC. COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	19-AUG-97		A417282
	Complete 08-SEP-97	PO Number	
	Printed 08-SEP-97	Sampled 18-AUG-97 16:30	

Report To	Bill To
JEFF JENKINS BFI WASTE SYSTEMS 2211 GLENVIEW DRIVE EVANSVILLE, IN 47720	ALISHA CLARK BFI WASTE SYSTEMS 2020 LAUBSCHER ROAD EVANSVILLE, IN 47720

Sample Description

CLIENT ID: TRIP BLANK

VOLATILE ORGANICS (CAPILLARY COLUMN) SW846-8260A

Analyst: H. WILLIAMS Analysis Date: 26-AUG-97 12:29 Instrument: GC/MS VOA Test: 0510.6.0

Parameter	Result	Det. Limit	Units
BENZENE	BDL	5.0	ug/L
CIS-1,3-DICHLOROPROPENE	BDL	5.0	ug/L
TRANS-1,3-DICHLOROPROPENE	BDL	5.0	ug/L
ETHYL BENZENE	BDL	5.0	ug/L
BROMOMETHANE	BDL	5.0	ug/L
CARBON TETRACHLORIDE	BDL	5.0	ug/L
CHLOROBENZENE	BDL	5.0	ug/L
CHLOROETHANE	BDL	5.0	ug/L
CHLOROFORM	BDL	5.0	ug/L
CHLOROMETHANE	BDL	5.0	ug/L
1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	BDL	5.0	ug/L
1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	BDL	5.0	ug/L
1,1-DICHLOROETHANE	BDL	5.0	ug/L
CIS-1,2-DICHLOROETHENE	BDL	5.0	ug/L
TRANS-1,2-DICHLOROETHENE	BDL	5.0	ug/L
1,1-DICHLOROETHENE	BDL	5.0	ug/L
1,2-DICHLOROETHANE	BDL	5.0	ug/L
1,2-DICHLOROPROPANE	BDL	5.0	ug/L
DICHLOROMETHANE (METHYLENE CHLORIDE)	BDL	5.0	ug/L
STYRENE	BDL	5.0	ug/L
1,1,1,2-TETRACHLOROETHANE	BDL	5.0	ug/L
1,1,2,2-TETRACHLOROETHANE	BDL	5.0	ug/L
TETRACHLOROETHENE	BDL	5.0	ug/L
TOLUENE	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
TRICHLOROFLUOROMETHANE	BDL	5.0	ug/L
VINYL CHLORIDE	BDL	2.0	ug/L
XYLENES (O/M/P-XYLENE)	BDL	5.0	ug/L
...			
SURROGATE RECOVERY			

DICHLOROETHANE-D4	106		% Rec
TOLUENE-D8	98		% Rec

HERITAGE ENVIRONMENTAL SERVICES, INC. **Sample ID: A417282 TRIP BLANK**

Parameter	Result	Det. Limit	Units
4-BROMOFLUOROBENZENE	95		% Rec

Sample Comments

BDL Below Detection Limit

Sample chain of custody number 64133.

This Certificate shall not be reproduced, except in full, without the written approval of the lab.

Approved : P.K. Spence

QUALITY ASSURANCE REPORT

Service Location
HERITAGE ENVIRONMENTAL SERVICES, INC.
COMMERCIAL LABORATORY OPERATIONS
7901 W. MORRIS ST.
INDIANAPOLIS, IN 46231
(317)243-8304

Report Date
09-SEP-97

Submitter
BFI WASTE SYSTEMS
JEFF JENKINS
2020 LAUBSCHER ROAD
EVANSVILLE, IN 47720

Client ID	Lab ID	Date-Time Sampled	Date Received	Date Complete	Description
MW-15 D	A417276	18-AUG-97 16:30	19-AUG-97	08-SEP-97	DESCRIPTION: GRAB
MW-15 D DUP	A417277	18-AUG-97 16:30	19-AUG-97	08-SEP-97	DESCRIPTION: GRAB
14 R	A417278	19-AUG-97 10:00	19-AUG-97	08-SEP-97	DESCRIPTION: GRAB
13 R	A417280	19-AUG-97 10:30	19-AUG-97	08-SEP-97	DESCRIPTION: GRAB
TRIP BLANK	A417282	18-AUG-97 16:30	19-AUG-97	08-SEP-97	DESCRIPTION: GRAB

AMMONIA NITROGEN EPA 350.3 — G203.4

Prep: AMMONIA DISTILLATION EPA 350.2

Run: R333293 Analyst.: K FULLMER Run Date...: 27-AUG-97
PREP Reviewer: B SHRAKE Review Date: 29-AUG-97

QC Type	Lab ID	Source	Anal Run
BLA02	Q736701		R333292
LFB02	Q736702		R333292
SPI02	Q736716	A416584	R333292
DPS02	Q736717	A416584	R333292
SAMPLE	A417276	Rep: 0	R333292
BLA02	Q736720		R333292
LFB02	Q736723		R333292
SAMPLE	A417277	Rep: 0	R333292
SAMPLE	A417278	Rep: 0	R333292
SAMPLE	A417280	Rep: 0	R333292
DUP02	Q736724	A417280	R333292
SPI02	Q736727	A416705	R333292
DPS02	Q736728	A416705	R333292
BLA02	Q736731		R333292
LFB02	Q736732		R333292

Run: R333292 Analyst.: K BUNCH Run Date...: 28-AUG-97
ANALYTICAL Reviewer: K FULLMER Review Date: 29-AUG-97

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
BLA01	Q736698		NITROGEN, AMMONIA			0.0366	mg/L		
ICV01	Q736699		NITROGEN, AMMONIA	0.838		0.868	mg/L	103.6	
CDL01	Q736700		NITROGEN, AMMONIA	0.1		0.0999	mg/L	99.9	
BLA02	Q736701		NITROGEN, AMMONIA			0.0953	mg/L		
02	Q736702		NITROGEN, AMMONIA	5		5.29	mg/L	105.8	
CCV	Q736704		NITROGEN, AMMONIA	1		1.09	mg/L	109	
SPI02	Q736716	A416584	NITROGEN, AMMONIA	0.12	2.5	2.74	mg/L	104.8	
DPS02	Q736717	A416584	NITROGEN, AMMONIA	0.12	2.5	2.74	mg/L	104.8	0
SAMPLE	A417276		See Cert. of Analysis, Rep: 0						
BLA02	Q736720		NITROGEN, AMMONIA			0.0849	mg/L		
BLA01	Q736721		NITROGEN, AMMONIA			0.0396	mg/L		
CCV	Q736722		NITROGEN, AMMONIA	1		0.938	mg/L	93.8	
LFB02	Q736723		NITROGEN, AMMONIA	5		5.29	mg/L	105.8	
SAMPLE	A417277		See Cert. of Analysis, Rep: 0						
SAMPLE	A417278		See Cert. of Analysis, Rep: 0						
SAMPLE	A417280		See Cert. of Analysis, Rep: 0						
DUP02	Q736724	A417280	NITROGEN, AMMONIA	0.29		0.25	mg/L		14.8
BLA01	Q736725		NITROGEN, AMMONIA			0.0444	mg/L		
CCV	Q736726		NITROGEN, AMMONIA	1		1.05	mg/L	105	
SPI02	Q736727	A416705	NITROGEN, AMMONIA	0	2.5	2.54	mg/L	101.6	
DPS02	Q736728	A416705	NITROGEN, AMMONIA	0	2.5	2.64	mg/L	105.6	3.9
BLA02	Q736731		NITROGEN, AMMONIA			0.0883	mg/L		
LFB02	Q736732		NITROGEN, AMMONIA	5		5.09	mg/L	101.8	

CHLORIDE BY ION CHROMATOGRAPHY SW846-9056 — G310.2

Run: R332792 Analyst.: M ADKINS Run Date...: 21-AUG-97 Instrument: IC
ANALYTICAL Reviewer: E WERNZ Review Date: 25-AUG-97

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
01	Q733584		CHLORIDE			< 0.1	mg/L		

HERITAGE ENVIRONMENTAL SERVICES, INC.

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
CCVL	Q733585		CHLORIDE	1.25		1.25	mg/L	100	
[illegible]H	Q733586		CHLORIDE	12.5		11.9	mg/L	95.2	
[illegible]B01	Q733587		CHLORIDE	2.5		2.46	mg/L	98.4	
SAMPLE	A417276		See Cert. of Analysis, Rep: 0						
CCVL	Q733590		CHLORIDE	1.25		1.24	mg/L	99.2	
CCVH	Q733591		CHLORIDE	12.5		12	mg/L	96	
BLA01	Q733592		CHLORIDE			< 0.1	mg/L		
SAMPLE	A417277		See Cert. of Analysis, Rep: 0						
SPI01	Q733593	A417277	CHLORIDE	17.4	12.5	29.7	mg/L	98.4	
DPS01	Q733594	A417277	CHLORIDE	17.4	12.5	30.3	mg/L	103.2	4.8
SAMPLE	A417278		See Cert. of Analysis, Rep: 0						
SAMPLE	A417280		See Cert. of Analysis, Rep: 0						
CCVL	Q733597		CHLORIDE	1.25		1.26	mg/L	100.8	
CCVH	Q733598		CHLORIDE	12.5		11.8	mg/L	94.4	
BLA01	Q733599		CHLORIDE			< 0.1	mg/L		

SULFATE BY ION CHROMATOGRAPHY SW846-9056 — G310.7

Run: R332792 Analyst.: M ADKINS Run Date...: 21-AUG-97 Instrument: IC
ANALYTICAL Reviewer: E WERNZ Review Date: 25-AUG-97

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
BLA01	Q733584		SULFATE			< 0.1	mg/L		
CCVL	Q733585		SULFATE	2.5		2.49	mg/L	99.6	
CCVH	Q733586		SULFATE	25		23.4	mg/L	93.6	
LFB01	Q733587		SULFATE	5		4.71	mg/L	94.2	
SAMPLE	A417276		See Cert. of Analysis, Rep: 0						
[illegible]L	Q733590		SULFATE	2.5		2.53	mg/L	101.2	
[illegible]CVH	Q733591		SULFATE	25		23.5	mg/L	94	
BLA01	Q733592		SULFATE			< 0.1	mg/L		
SAMPLE	A417277		See Cert. of Analysis, Rep: 0						
SPI01	Q733593	A417277	SULFATE	0	25	25.5	mg/L	102	
DPS01	Q733594	A417277	SULFATE	0	25	25.1	mg/L	100.4	1.6
SAMPLE	A417278		See Cert. of Analysis, Rep: 0						
SAMPLE	A417280		See Cert. of Analysis, Rep: 0						
CCVL	Q733597		SULFATE	2.5		2.47	mg/L	98.8	
CCVH	Q733598		SULFATE	25		23.6	mg/L	94.4	
BLA01	Q733599		SULFATE			< 0.1	mg/L		

DISSOLVED SOLIDS EPA 160.1 — G402.7

Run: R332677 Analyst.: J ZAVELA Run Date...: 20-AUG-97
ANALYTICAL Reviewer: K FULLMER Review Date: 22-AUG-97

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
BLA01	Q733290		DISSOLVED SOLIDS			4	mg/L		
LCS01	Q733291		DISSOLVED SOLIDS	1080		1130	mg/L	104.6	
DUP01	Q733292	A417088	DISSOLVED SOLIDS	180		170	mg/L		5.7
SPI01	Q733295	A417230	DISSOLVED SOLIDS	210	250	459	mg/L	99.6	
DPS01	Q733296	A417230	DISSOLVED SOLIDS	210	250	473	mg/L	105.2	5.5
SAMPLE	A417276		See Cert. of Analysis, Rep: 0						
SAMPLE	A417277		See Cert. of Analysis, Rep: 0						
[illegible]CS01	Q733297		DISSOLVED SOLIDS	726		743	mg/L	102.3	
[illegible]01	Q733298		DISSOLVED SOLIDS			2	mg/L		

HERITAGE ENVIRONMENTAL SERVICES, INC.

Run: R333182 Analyst.: J ZAVELA Run Date...: 25-AUG-97
ANALYTICAL Reviewer: B SHRAKE Review Date: 28-AUG-97

Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
BLA01	Q735868		DISSOLVED SOLIDS			-28	mg/L		
LCS01	Q735869		DISSOLVED SOLIDS	726		713	mg/L	98.2	
SAMPLE	A417278		See Cert. of Analysis, Rep: 0						
DUP01	Q735870	A417278	DISSOLVED SOLIDS	430		430	mg/L		0
SAMPLE	A417280		See Cert. of Analysis, Rep: 0						
SPI01	Q735871	A417280	DISSOLVED SOLIDS	200	250	427	mg/L	90.8	
LCS01	Q735877		DISSOLVED SOLIDS	726		721	mg/L	99.3	
BLA01	Q735878		DISSOLVED SOLIDS			-2	mg/L		

TOTAL SUSPENDED SOLIDS EPA 160.2 — G403.7

Run: R332423 Analyst.: R PIERCE Run Date...: 19-AUG-97
ANALYTICAL Reviewer: B SHRAKE Review Date: 20-AUG-97

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
BLA01	Q731672		SUSPENDED SOLIDS			0	mg/L		
LCS01	Q731673		SUSPENDED SOLIDS	197		182	mg/L	92.4	
DUP01	Q731676	A417176	SUSPENDED SOLIDS	10		9	mg/L		10.5
SAMPLE	A417276		See Cert. of Analysis, Rep: 0						
SAMPLE	A417277		See Cert. of Analysis, Rep: 0						
SAMPLE	A417278		See Cert. of Analysis, Rep: 0						
SAMPLE	A417280		See Cert. of Analysis, Rep: 0						
SPI01	Q731685	A417280	SUSPENDED SOLIDS	4	98.5	107	mg/L	104.6	
DPS01	Q731686	A417280	SUSPENDED SOLIDS	4	98.5	106	mg/L	103.6	1

FIELD TURBIDITY EPA 180.1 — G602.0

Run: R332426 Analyst.: S ASKEW Run Date...: 18-AUG-97 Instrument: FIELD
ANALYTICAL Reviewer: D EDWARDS Review Date: 20-AUG-97

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
SAMPLE	A417276		See Cert. of Analysis, Rep: 0						
SAMPLE	A417278		See Cert. of Analysis, Rep: 0						
SAMPLE	A417280		See Cert. of Analysis, Rep: 0						

FIELD TEMPERATURE EPA 170.1 — G603.0

Run: R332426 Analyst.: S ASKEW Run Date...: 18-AUG-97 Instrument: FIELD
ANALYTICAL Reviewer: D EDWARDS Review Date: 20-AUG-97

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
SAMPLE	A417276		See Cert. of Analysis, Rep: 0						
SAMPLE	A417278		See Cert. of Analysis, Rep: 0						
SAMPLE	A417280		See Cert. of Analysis, Rep: 0						

FIELD SPECIFIC CONDUCTANCE SW846-9050 — G604.0

Run: R332426 Analyst.: S ASKEW Run Date...: 18-AUG-97 Instrument: FIELD
ANALYTICAL Reviewer: D EDWARDS Review Date: 20-AUG-97

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
MPLE	A417276		See Cert. of Analysis, Rep: 0						

HERITAGE ENVIRONMENTAL SERVICES, INC.

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
SAMPLE	A417278		See Cert. of Analysis, Rep: 0						
SAMPLE	A417280		See Cert. of Analysis, Rep: 0						

FIELD OXIDATION-REDUCTION POTENTIAL SM2580B-18TH ED — G604.7

Run: R332426 ANALYTICAL | Analyst.: S ASKEW | Reviewer: D EDWARDS | Run Date...: 18-AUG-97 | Review Date: 20-AUG-97 | Instrument: FIELD

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
SAMPLE	A417276		See Cert. of Analysis, Rep: 0						
SAMPLE	A417278		See Cert. of Analysis, Rep: 0						
SAMPLE	A417280		See Cert. of Analysis, Rep: 0						

ALKALINITY TOTAL EPA 310.1 — G605.2

Run: R332933 ANALYTICAL | Analyst.: R PIERCE | Reviewer: B SHRAKE | Run Date...: 25-AUG-97 | Review Date: 26-AUG-97

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
LFB01	Q734482		ALKALINITY	20.8		21.5	mg/L	103.4	
CCV	Q734484		ALKALINITY	125		105	mg/L	84	
SAMPLE	A417277		See Cert. of Analysis, Rep: 0						
SAMPLE	A417278		See Cert. of Analysis, Rep: 0						
DUP01	Q734487	A417278	ALKALINITY	0		BDL	mg/L		
SAMPLE	A417280		See Cert. of Analysis, Rep: 0						
SAMPLE	A417276		See Cert. of Analysis, Rep: 0						
CCV	Q734488		ALKALINITY	125		111	mg/L	88.8	
DUP01	Q734489	A417278	ALKALINITY	390		400	mg/L		2.5

FIELD PH (AQUEOUS) SW846-9040A — G607.0

Run: R332426 ANALYTICAL | Analyst.: S ASKEW | Reviewer: D EDWARDS | Run Date...: 18-AUG-97 | Review Date: 20-AUG-97 | Instrument: FIELD

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
SAMPLE	A417276		See Cert. of Analysis, Rep: 0						
SAMPLE	A417278		See Cert. of Analysis, Rep: 0						
SAMPLE	A417280		See Cert. of Analysis, Rep: 0						

ALKALINITY (BICARBONATE) EPA 310.1 — G610.2

Run: R332933 ANALYTICAL | Analyst.: R PIERCE | Reviewer: B SHRAKE | Run Date...: 25-AUG-97 | Review Date: 26-AUG-97

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
LFB01	Q734482		ALKALINITY	20.8		21.5	mg/L	103.4	
CCV	Q734484		ALKALINITY	125		105	mg/L	84	
DUP01	Q734487	A417278	ALKALINITY	0		BDL	mg/L		
SAMPLE	A417277		See Cert. of Analysis, Rep: 0						
CCV	Q734488		ALKALINITY	125		111	mg/L	88.8	
SAMPLE	A417278		See Cert. of Analysis, Rep: 0						
DUP01	Q734489	A417278	ALKALINITY	390		400	mg/L		2.5
DUP01	Q734490	A417278	ALKALINITY	0		BDL	mg/L		
SAMPLE	A417280		See Cert. of Analysis, Rep: 0						

HERITAGE ENVIRONMENTAL SERVICES, INC.

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
SAMPLE	A417276		See Cert. of Analysis, Rep: 0						

ALKALINITY (CARBONATE) EPA 310.1 — G611.2

Run: R332933 Analyst.: R PIERCE Run Date...: 25-AUG-97
ANALYTICAL Reviewer: B SHRAKE Review Date: 26-AUG-97

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
LFB01	Q734482		ALKALINITY	20.8		21.5	mg/L	103.4	
CCV	Q734484		ALKALINITY	125		105	mg/L	84	
DUP01	Q734487	A417278	ALKALINITY	0		BDL	mg/L		
SAMPLE	A417277		See Cert. of Analysis, Rep: 0						
CCV	Q734488		ALKALINITY	125		111	mg/L	88.8	
DUP01	Q734489	A417278	ALKALINITY	390		400	mg/L		2.5
SAMPLE	A417278		See Cert. of Analysis, Rep: 0						
DUP01	Q734490	A417278	ALKALINITY	0		BDL	mg/L		
SAMPLE	A417280		See Cert. of Analysis, Rep: 0						
SAMPLE	A417276		See Cert. of Analysis, Rep: 0						

CADMIUM TRACE ICP SW846-6010A — M108.0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOU SW846-3005A

Run: R332470 Analyst.: P MASTERS Run Date...: 21-AUG-97
PREP Reviewer: W WATNESS Review Date: 22-AUG-97

QC Type	Lab ID	Source	Anal Run
SAMPLE	A417276	Rep: 1	R332945
MPLE	A417277	Rep: 1	R332945
SAMPLE	A417278	Rep: 1	R332945
SAMPLE	A417280	Rep: 1	R332945
LCS	Q731967	INORGAN	R332945
BLA02	Q731968	NA	R332945
SPI02	Q731969	A417280	R332945
DPS02	Q731970	A417280	R332945

Run: R332945 Analyst.: A ROBERTSON Run Date...: 25-AUG-97 Instrument: TRACE ICP
ANALYTICAL Reviewer: S O'NEAL Review Date: 26-AUG-97

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
CCV	Q734597	INORGAN	CADMIUM	0.1		0.0998	mg/L	100	
BLA01	Q734598	NA	CADMIUM			< 0.000400	mg/L		
ICV01	Q734599	PERKIN-	CADMIUM	0.05		0.0509	mg/L	102	
CDL01	Q734602	PERKIN-	CADMIUM	0.01		0.0100	mg/L	100	
ICS-A	Q734605	PERKIN	CADMIUM	1		0.889	mg/L	89	
BLA02	Q731968	NA	CADMIUM			< 0.000400	mg/L		
LCS	Q731967	INORGAN	CADMIUM	0.5		0.480	mg/L	96	
SAMPLE	A417280		See Cert. of Analysis, Rep: 1						
SPI02	Q731969	A417280	CADMIUM	0	0.05	0.0485	mg/L	97	
DPS02	Q731970	A417280	CADMIUM	0	0.05	0.0476	mg/L	95.2	1.9
CCV	Q734628	INORGAN	CADMIUM	0.1		0.100	mg/L	100	
BLA01	Q734629	NA	CADMIUM			< 0.000400	mg/L		
SAMPLE	A417276		See Cert. of Analysis, Rep: 1						
SAMPLE	A417277		See Cert. of Analysis, Rep: 1						
SAMPLE	A417278		See Cert. of Analysis, Rep: 1						
CCV	Q734630	INORGAN	CADMIUM	0.1		0.101	mg/L	101	
A01	Q734631	NA	CADMIUM			< 0.000400	mg/L		

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
CDL01	Q734632	PERKIN-	CADMIUM	0.01		0.0102	mg/L	102	
ICS-A	Q734634	PERKIN	CADMIUM	1		0.868	mg/L	87	

CALCIUM ICP SW846-6010A M109.3

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

Run: R332464 Analyst.: B SCOTT Run Date...: 21-AUG-97
PREP Reviewer: W WATNESS Review Date: 22-AUG-97

QC Type	Lab ID	Source	Anal Run
LCS	Q731936	SPEX	R332779
BLA02	Q731937	NA	R332779
SPI02	Q731938	A417276	R332779
DPS02	Q731939	A417276	R332779
SAMPLE	A417276	Rep: 0	R332779
SAMPLE	A417277	Rep: 0	R332779
SAMPLE	A417278	Rep: 0	R332779
SAMPLE	A417280	Rep: 0	R332779

Run: R332779 Analyst.: A HILSCHER Run Date...: 22-AUG-97 Instrument: ICP
ANALYTICAL Reviewer: S ENDERSON Review Date: 25-AUG-97

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
CCV	Q733509	INORGAN	CALCIUM	50.0		48.3	mg/L	97	
BLA01	Q733510	NA	CALCIUM			< 0.0800	mg/L		
ICV01	Q733513	SPEX	CALCIUM	20		19.9	mg/L	100	
ICS-A	Q733517	PERKIN	CALCIUM	500		463.	mg/L	93	
BLA02	Q731937	NA	CALCIUM			< 0.0800	mg/L		
LCS	Q731936	SPEX	CALCIUM	100		92.9	mg/L	93	
SAMPLE	A417276		See Cert. of Analysis, Rep: 0						
SPI02	Q731938	A417276	CALCIUM	76.5	100	169.	mg/L	93	
DPS02	Q731939	A417276	CALCIUM	76.5	100	170.	mg/L	94	1
CCV	Q733522	INORGAN	CALCIUM	50.0		48.1	mg/L	96	
BLA01	Q733523	NA	CALCIUM			< 0.0800	mg/L		
SAMPLE	A417277		See Cert. of Analysis, Rep: 0						
SAMPLE	A417278		See Cert. of Analysis, Rep: 0						
SAMPLE	A417280		See Cert. of Analysis, Rep: 0						
CCV	Q733524	INORGAN	CALCIUM	50.0		49.1	mg/L	98	
BLA01	Q733525	NA	CALCIUM			< 0.0800	mg/L		
ICS-A	Q733550	PERKIN-	CALCIUM	500		472.	mg/L	94	

CHROMIUM ICP SW846-6010A M110.3

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOU SW846-3005A

Run: R332470 Analyst.: P MASTERS Run Date...: 21-AUG-97
PREP Reviewer: W WATNESS Review Date: 22-AUG-97

QC Type	Lab ID	Source	Anal Run
LCS	Q731953	SPEX	R332633
BLA02	Q731954	NA	R332633
SPI02	Q731955	A417280	R332633
DPS02	Q731956	A417280	R332633
SAMPLE	A417276	Rep: 1	R332633
SAMPLE	A417277	Rep: 1	R332633
SAMPLE	A417278	Rep: 1	R332633
SAMPLE	A417280	Rep: 1	R332633

Run: R332633 Analyst.: A STOCKBURGER Run Date...: 21-AUG-97 Instrument: ICP
ANALYTICAL Reviewer: S ENDERSON Review Date: 22-AUG-97

Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
CCV	Q732839	INORGAN	CHROMIUM	5.00		4.86	mg/L	97	
BLA01	Q732840	NA	CHROMIUM			< 0.00400	mg/L		
ICV01	Q732841	PERKIN	CHROMIUM	1		1.02	mg/L	102	
CDL01	Q732845	PERKIN	CHROMIUM	0.020		0.0195	mg/L	98	
ICS-A	Q732848	PERKIN	CHROMIUM	0.500		0.457	mg/L	91	
BLA02	Q731954	NA	CHROMIUM			< 0.00400	mg/L		
LCS	Q731953	SPEX	CHROMIUM	2.00		1.87	mg/L	94	
SAMPLE	A417280		See Cert. of Analysis, Rep: 1						
SPI02	Q731955	A417280	CHROMIUM	0	0.200	0.198	mg/L	99	
DPS02	Q731956	A417280	CHROMIUM	0	0.200	0.196	mg/L	98	1
CCV	Q732864	INORGAN	CHROMIUM	5.00		4.97	mg/L	99	
BLA01	Q732865	NA	CHROMIUM			< 0.00400	mg/L		
SAMPLE	A417276		See Cert. of Analysis, Rep: 1						
SAMPLE	A417277		See Cert. of Analysis, Rep: 1						
SAMPLE	A417278		See Cert. of Analysis, Rep: 1						
CCV	Q732866	INORGAN	CHROMIUM	5.00		4.96	mg/L	99	
BLA01	Q732867	NA	CHROMIUM			< 0.00400	mg/L		
CDL01	Q732876	PERKIN	CHROMIUM	0.020		0.0222	mg/L	111	
ICS-A	Q732878	PERKIN	CHROMIUM	0.500		0.469	mg/L	94	

COPPER ICP SW846-6010A M112.3

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOU SW846-3005A

Run: R332470 Analyst.: P MASTERS Run Date...: 21-AUG-97
REP Reviewer: W WATNESS Review Date: 22-AUG-97

QC Type	Lab ID	Source	Anal Run
LCS	Q731953	SPEX	R332633
BLA02	Q731954	NA	R332633
SPI02	Q731955	A417280	R332633
DPS02	Q731956	A417280	R332633
SAMPLE	A417276	Rep: 1	R332633
SAMPLE	A417277	Rep: 1	R332633
SAMPLE	A417278	Rep: 1	R332633
SAMPLE	A417280	Rep: 1	R332633

Run: R332633 Analyst.: A STOCKBURGER Run Date...: 21-AUG-97 Instrument: ICP
ANALYTICAL Reviewer: S ENDERSON Review Date: 22-AUG-97

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
CCV	Q732839	INORGAN	COPPER	5.00		4.92	mg/L	98	
BLA01	Q732840	NA	COPPER			0.0126	mg/L		
ICV01	Q732841	PERKIN	COPPER	1		1.01	mg/L	101	
CDL01	Q732845	PERKIN	COPPER	0.050		0.0415	mg/L	83	
ICS-A	Q732848	PERKIN	COPPER	0.500		0.489	mg/L	98	
BLA02	Q731954	NA	COPPER			0.0142	mg/L		
LCS	Q731953	SPEX	COPPER	2.50		2.40	mg/L	96	
SAMPLE	A417280		See Cert. of Analysis, Rep: 1						
SPI02	Q731955	A417280	COPPER	0	0.250	0.258	mg/L	103	
DPS02	Q731956	A417280	COPPER	0	0.250	0.256	mg/L	102	1
CCV	Q732864	INORGAN	COPPER	5.00		5.03	mg/L	101	
BLA01	Q732865	NA	COPPER			0.0208	mg/L		
SAMPLE	A417276		See Cert. of Analysis, Rep: 1						
SAMPLE	A417277		See Cert. of Analysis, Rep: 1						

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
SAMPLE	A417278		See Cert. of Analysis, Rep: 1						
V	Q732866	INORGAN	COPPER	5.00		5.00	mg/L	100	
BLA01	Q732867	NA	COPPER			0.0150	mg/L		
CDL01	Q732876	PERKIN	COPPER	0.050		0.0574	mg/L	115	
ICS-A	Q732878	PERKIN	COPPER	0.500		0.487	mg/L	97	

IRON ICP SW846-6010A — M115.3

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOU SW846-3005A

Run: R332470 Analyst.: P MASTERS Run Date...: 21-AUG-97
PREP Reviewer: W WATNESS Review Date: 22-AUG-97

QC Type	Lab ID	Source	Anal Run
LCS	Q731953	SPEX	R332633
BLA02	Q731954	NA	R332633
SP102	Q731955	A417280	R332633
DPS02	Q731956	A417280	R332633
SAMPLE	A417276	Rep: 1	R332633
SAMPLE	A417277	Rep: 1	R332633
SAMPLE	A417278	Rep: 1	R332633
SAMPLE	A417280	Rep: 1	R332633

Run: R332633 Analyst.: A STOCKBURGER Run Date...: 21-AUG-97 Instrument: ICP
ANALYTICAL Reviewer: S ENDERSON Review Date: 22-AUG-97

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
CCV	Q732839	INORGAN	IRON	5.00		4.89	mg/L	98	
BLA01	Q732840	NA	IRON			< 0.0100	mg/L		
ICV01	Q732841	PERKIN	IRON	1		1.01	mg/L	101	
L01	Q732846	INORGAN	IRON	10		10.1	mg/L	101	
ICS-A	Q732847	PERKIN-	IRON	200		180.	mg/L	90	
BLA02	Q731954	NA	IRON			0.0294	mg/L		
LCS	Q731953	SPEX	IRON	10.0		9.52	mg/L	95	
SAMPLE	A417280		See Cert. of Analysis, Rep: 1						
SP102	Q731955	A417280	IRON	0	1.00	1.01	mg/L	101	
DPS02	Q731956	A417280	IRON	0	1.00	1.00	mg/L	100	1
CCV	Q732864	INORGAN	IRON	5.00		5.02	mg/L	100	
BLA01	Q732865	NA	IRON			< 0.0100	mg/L		
SAMPLE	A417276		See Cert. of Analysis, Rep: 1						
SAMPLE	A417277		See Cert. of Analysis, Rep: 1						
SAMPLE	A417278		See Cert. of Analysis, Rep: 1						
CCV	Q732866	INORGAN	IRON	5.00		4.99	mg/L	100	
BLA01	Q732867	NA	IRON			< 0.0100	mg/L		
ICS-A	Q732877	PERKIN-	IRON	200		186.	mg/L	93	

MAGNESIUM ICP SW846-6010A — M118.3

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOU SW846-3005A

Run: R332470 Analyst.: P MASTERS Run Date...: 21-AUG-97
PREP Reviewer: W WATNESS Review Date: 22-AUG-97

QC Type	Lab ID	Source	Anal Run
LCS	Q731953	SPEX	R332633
BLA02	Q731954	NA	R332633
SP102	Q731955	A417280	R332633
S02	Q731956	A417280	R332633

HERITAGE ENVIRONMENTAL SERVICES, INC.

QC Type	Lab ID	Source	Anal Run
SAMPLE	A417276	Rep: 1	R332633
MPLE	A417277	Rep: 1	R332633
MPLE	A417278	Rep: 1	R332633
SAMPLE	A417280	Rep: 1	R332633

Run: R332633 Analyst.: A STOCKBURGER Run Date...: 21-AUG-97 Instrument: ICP
ANALYTICAL Reviewer: S ENDERSON Review Date: 22-AUG-97

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
CCV	Q732839	INORGAN	MAGNESIUM	50.0		49.6	mg/L	99	
BLA01	Q732840	NA	MAGNESIUM			< 0.0800	mg/L		
ICV01	Q732843	SPEX	MAGNESIUM	20		20.4	mg/L	102	
ICS-A	Q732847	PERKIN-	MAGNESIUM	500		498.	mg/L	100	
BLA02	Q731954	NA	MAGNESIUM			0.176	mg/L		
LCS	Q731953	SPEX	MAGNESIUM	100		97.2	mg/L	97	
SAMPLE	A417280		See Cert. of Analysis, Rep: 1						
SPI02	Q731955	A417280	MAGNESIUM	36.2	100	139.	mg/L	103	
DPS02	Q731956	A417280	MAGNESIUM	36.2	100	139.	mg/L	103	0
CCV	Q732864	INORGAN	MAGNESIUM	50.0		50.9	mg/L	102	
BLA01	Q732865	NA	MAGNESIUM			0.0823	mg/L		
SAMPLE	A417276		See Cert. of Analysis, Rep: 1						
SAMPLE	A417277		See Cert. of Analysis, Rep: 1						
SAMPLE	A417278		See Cert. of Analysis, Rep: 1						
CCV	Q732866	INORGAN	MAGNESIUM	50.0		50.5	mg/L	101	
BLA01	Q732867	NA	MAGNESIUM			< 0.0800	mg/L		
ICS-A	Q732877	PERKIN-	MAGNESIUM	500		514.	mg/L	103	

MANGANESE ICP SW846-6010A M119.3

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOU SW846-3005A

Run: R332470 Analyst.: P MASTERS Run Date...: 21-AUG-97
PREP Reviewer: W WATNESS Review Date: 22-AUG-97

QC Type	Lab ID	Source	Anal Run
LCS	Q731953	SPEX	R332633
BLA02	Q731954	NA	R332633
SPI02	Q731955	A417280	R332633
DPS02	Q731956	A417280	R332633
SAMPLE	A417276	Rep: 1	R332633
SAMPLE	A417277	Rep: 1	R332633
SAMPLE	A417278	Rep: 1	R332633
SAMPLE	A417280	Rep: 1	R332633

Run: R332633 Analyst.: A STOCKBURGER Run Date...: 21-AUG-97 Instrument: ICP
ANALYTICAL Reviewer: S ENDERSON Review Date: 22-AUG-97

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
CCV	Q732839	INORGAN	MANGANESE	5.00		4.86	mg/L	97	
BLA01	Q732840	NA	MANGANESE			< 0.00400	mg/L		
ICV01	Q732841	PERKIN	MANGANESE	1		1.01	mg/L	101	
CDL01	Q732845	PERKIN	MANGANESE	0.030		0.0309	mg/L	103	
ICS-A	Q732848	PERKIN	MANGANESE	0.500		0.472	mg/L	94	
BLA02	Q731954	NA	MANGANESE			< 0.00400	mg/L		
LCS	Q731953	SPEX	MANGANESE	5.00		4.71	mg/L	94	
SAMPLE	A417280		See Cert. of Analysis, Rep: 1						
SPI02	Q731955	A417280	MANGANESE	0.528	0.500	1.01	mg/L	96	
DPS02	Q731956	A417280	MANGANESE	0.528	0.500	1.00	mg/L	94	2
/	Q732864	INORGAN	MANGANESE	5.00		4.96	mg/L	99	

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
BLA01	Q732865	NA	MANGANESE			< 0.00400	mg/L		
[illegible]PLE	A417276		See Cert. of Analysis, Rep: 1						
[illegible]AMPLE	A417277		See Cert. of Analysis, Rep: 1						
SAMPLE	A417278		See Cert. of Analysis, Rep: 1						
CCV	Q732866	INORGAN	MANGANESE	5.00		4.94	mg/L	99	
BLA01	Q732867	NA	MANGANESE			< 0.00400	mg/L		
CDL01	Q732876	PERKIN	MANGANESE	0.030		0.0365	mg/L	122	
ICS-A	Q732878	PERKIN	MANGANESE	0.500		0.479	mg/L	96	

POTASSIUM ICP SW846-6010A — M126.3

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOU SW846-3005A

Run: R332470 — Analyst.: P MASTERS — Run Date...: 21-AUG-97
PREP — Reviewer: W WATNESS — Review Date: 22-AUG-97

QC Type	Lab ID	Source	Anal Run
LCS	Q731953	SPEX	R332633
BLA02	Q731954	NA	R332633
SPI02	Q731955	A417280	R332633
DPS02	Q731956	A417280	R332633
SAMPLE	A417276	Rep: 1	R332633
SAMPLE	A417277	Rep: 1	R332633
SAMPLE	A417278	Rep: 1	R332633
SAMPLE	A417280	Rep: 1	R332633

Run: R332633 — Analyst.: A STOCKBURGER — Run Date...: 21-AUG-97 — Instrument: ICP
ANALYTICAL — Reviewer: S ENDERSON — Review Date: 22-AUG-97

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
[illegible]	Q732839	INORGAN	POTASSIUM	50		50.2	mg/L	100	
BLA01	Q732840	NA	POTASSIUM			< 0.0800	mg/L		
ICV01	Q732842	PERKIN	POTASSIUM	10		10.0	mg/L	100	
ICV01	Q732843	SPEX	POTASSIUM	20		20.4	mg/L	102	
BLA02	Q731954	NA	POTASSIUM			< 0.0800	mg/L		
LCS	Q731953	SPEX	POTASSIUM	100		97.7	mg/L	98	
SAMPLE	A417280		See Cert. of Analysis, Rep: 1						
SPI02	Q731955	A417280	POTASSIUM	0.447	100	105.	mg/L	105	
DPS02	Q731956	A417280	POTASSIUM	0.447	100	105.	mg/L	105	0
CCV	Q732864	INORGAN	POTASSIUM	50		51.0	mg/L	102	
BLA01	Q732865	NA	POTASSIUM			< 0.0800	mg/L		
SAMPLE	A417276		See Cert. of Analysis, Rep: 1						
SAMPLE	A417277		See Cert. of Analysis, Rep: 1						
SAMPLE	A417278		See Cert. of Analysis, Rep: 1						
CCV	Q732866	INORGAN	POTASSIUM	50		50.5	mg/L	101	
BLA01	Q732867	NA	POTASSIUM			0.0815	mg/L		

SODIUM ICP SW846-6010A — M131.3

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOU SW846-3005A

Run: R332470 — Analyst.: P MASTERS — Run Date...: 21-AUG-97
PREP — Reviewer: W WATNESS — Review Date: 22-AUG-97

QC Type	Lab ID	Source	Anal Run
LCS	Q731953	SPEX	R332633
[illegible]LA02	Q731954	NA	R332633
[illegible]02	Q731955	A417280	R332633

HERITAGE ENVIRONMENTAL SERVICES, INC.

QC Type	Lab ID	Source	Anal Run
DPS02	Q731956	A417280	R332633
MPLE	A417276	Rep: 1	R332633
MPLE	A417277	Rep: 1	R332633
SAMPLE	A417278	Rep: 1	R332633
SAMPLE	A417280	Rep: 1	R332633

Run: R332633 Analyst.: A STOCKBURGER Run Date...: 21-AUG-97 Instrument: ICP
ANALYTICAL Reviewer: S ENDERSON Review Date: 22-AUG-97

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
CCV	Q732839	INORGAN	SODIUM	50		50.0	mg/L	100	
BLA01	Q732840	NA	SODIUM			< 0.0800	mg/L		
ICV01	Q732842	PERKIN	SODIUM	1		0.991	mg/L	99	
ICV01	Q732843	SPEX	SODIUM	20		20.4	mg/L	102	
BLA02	Q731954	NA	SODIUM			< 0.0800	mg/L		
LCS	Q731953	SPEX	SODIUM	100		97.8	mg/L	98	
SAMPLE	A417280		See Cert. of Analysis, Rep: 1						
SPI02	Q731955	A417280	SODIUM	43.9	100	150.	mg/L	106	
DPS02	Q731956	A417280	SODIUM	43.9	100	149.	mg/L	105	1
CCV	Q732864	INORGAN	SODIUM	50		51.0	mg/L	102	
BLA01	Q732865	NA	SODIUM			0.0826	mg/L		
SAMPLE	A417276		See Cert. of Analysis, Rep: 1						
SAMPLE	A417277		See Cert. of Analysis, Rep: 1						
SAMPLE	A417278		See Cert. of Analysis, Rep: 1						
CCV	Q732866	INORGAN	SODIUM	50		50.7	mg/L	101	
BLA01	Q732867	NA	SODIUM			0.199	mg/L		

ZINC ICP SW846-6010A M139.3

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOU SW846-3005A

Run: R332470 Analyst.: P MASTERS Run Date...: 21-AUG-97
PREP Reviewer: W WATNESS Review Date: 22-AUG-97

QC Type	Lab ID	Source	Anal Run
LCS	Q731953	SPEX	R332633
BLA02	Q731954	NA	R332633
SPI02	Q731955	A417280	R332633
DPS02	Q731956	A417280	R332633
SAMPLE	A417276	Rep: 1	R332633
SAMPLE	A417277	Rep: 1	R332633
SAMPLE	A417278	Rep: 1	R332633
SAMPLE	A417280	Rep: 1	R332633

Run: R332633 Analyst.: A STOCKBURGER Run Date...: 21-AUG-97 Instrument: ICP
ANALYTICAL Reviewer: S ENDERSON Review Date: 22-AUG-97

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
CCV	Q732839	INORGAN	ZINC	5.00		4.87	mg/L	97	
BLA01	Q732840	NA	ZINC			< 0.00800	mg/L		
ICV01	Q732841	PERKIN	ZINC	1		1.01	mg/L	101	
CDL01	Q732845	PERKIN	ZINC	0.040		0.0346	mg/L	87	
ICS-A	Q732848	PERKIN	ZINC	1.00		0.966	mg/L	97	
BLA02	Q731954	NA	ZINC			< 0.00800	mg/L		
LCS	Q731953	SPEX	ZINC	5.00		4.75	mg/L	95	
SAMPLE	A417280		See Cert. of Analysis, Rep: 1						
SPI02	Q731955	A417280	ZINC	0	0.500	0.508	mg/L	102	
DPS02	Q731956	A417280	ZINC	0	0.500	0.508	mg/L	102	0
V	Q732864	INORGAN	ZINC	5.00		4.96	mg/L	99	

HERITAGE ENVIRONMENTAL SERVICES, INC.

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
BLA01	Q732865	NA	ZINC			< 0.00800	mg/L		
MPLE	A417276		See Cert. of Analysis, Rep: 1						
MPLE	A417277		See Cert. of Analysis, Rep: 1						
SAMPLE	A417278		See Cert. of Analysis, Rep: 1						
CCV	Q732866	INORGAN	ZINC	5.00		4.94	mg/L	99	
BLA01	Q732867	NA	ZINC			< 0.00800	mg/L		
ICS-A	Q732878	PERKIN	ZINC	1.00		1.04	mg/L	104	

VOLATILE ORGANICS (CAPILLARY COLUMN) SW846-8260A 0510.6

Run: R332868 Analyst.: H WILLIAMS Run Date...: 21-AUG-97 Instrument: GC/MS VOA
ANALYTICAL Reviewer: A BRADBURN Review Date: 25-AUG-97

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
CCV	Q734189		See Attached Report: g2690r.ind						
BLA01	Q734190		See Attached Report: x2691r.ind						
SAMPLE	A417276		See Cert. of Analysis, Rep: 0						
SAMPLE	A417277		See Cert. of Analysis, Rep: 0						
LCS01	Q734192		TETRACHLOROETHENE	10		9.95	ug/L	99.5	
SPI01	Q734193	A417182	BENZENE	0	10	9.7	ug/L	97	
SPI01	Q734193	A417182	CARBON TETRACHLORIDE	0	10	8.45	ug/L	84.5	
SPI01	Q734193	A417182	1,4-DICHLOROBENZENE (P-DICHLOROBENZE	0	10	8.09	ug/L	80.9	
SPI01	Q734193	A417182	1,2-DICHLOROETHANE	0	10	10.3	ug/L	103	
SPI01	Q734193	A417182	1,1-DICHLOROETHENE	0	10	10.7	ug/L	107	
SPI01	Q734193	A417182	1,1,1-TRICHLOROETHANE	0	10	10.6	ug/L	106	
SPI01	Q734193	A417182	TRICHLOROETHENE	0	10	9.05	ug/L	90.5	
SPI01	Q734193	A417182	VINYL CHLORIDE	0	10	11.4	ug/L	114	
SPI01	Q734193	A417182	BROMOMETHANE	0	10	11.6	ug/L	116	
SPI01	Q734193	A417182	CHLOROBENZENE	0	10	9.07	ug/L	90.7	
SPI01	Q734193	A417182	CHLOROETHANE	0	10	12	ug/L	120	
SPI01	Q734193	A417182	CHLOROFORM	0	10	9.64	ug/L	96.4	
SPI01	Q734193	A417182	CHLOROMETHANE	0	10	9.76	ug/L	97.6	
SPI01	Q734193	A417182	1,2-DICHLOROBENZENE (O-DICHLOROBENZE	0	10	8.14	ug/L	81.4	
SPI01	Q734193	A417182	TRANS-1,2-DICHLOROETHENE	0	10	10.1	ug/L	101	
SPI01	Q734193	A417182	CIS-1,2-DICHLOROETHENE	0	10	10.5	ug/L	105	
SPI01	Q734193	A417182	DICHLOROMETHANE (METHYLENE CHLORIDE)	0.96	10	11.6	ug/L	106.4	
SPI01	Q734193	A417182	1,1-DICHLOROETHANE	0	10	11.1	ug/L	111	
SPI01	Q734193	A417182	1,2-DICHLOROPROPANE	0	10	9.68	ug/L	96.8	
SPI01	Q734193	A417182	CIS-1,3-DICHLOROPROPENE	0	10	8.27	ug/L	82.7	
SPI01	Q734193	A417182	TRANS-1,3-DICHLOROPROPENE	0	10	8.25	ug/L	82.5	
SPI01	Q734193	A417182	ETHYL BENZENE	0	10	9.31	ug/L	93.1	
SPI01	Q734193	A417182	STYRENE	0	10	8.97	ug/L	89.7	
SPI01	Q734193	A417182	1,1,2-TRICHLOROETHANE	0	10	8.7	ug/L	87	
SPI01	Q734193	A417182	1,1,1,2-TETRACHLOROETHANE	0	10	8.42	ug/L	84.2	
SPI01	Q734193	A417182	1,1,2,2-TETRACHLOROETHANE	0	10	10.4	ug/L	104	
SPI01	Q734193	A417182	TETRACHLOROETHENE	0	10	! 7.44	ug/L	74.4	
SPI01	Q734193	A417182	TOLUENE	0	10	8.87	ug/L	88.7	
SPI01	Q734193	A417182	TRICHLOROFLUOROMETHANE	0	10	11.1	ug/L	111	
DPS01	Q734194	A417182	BENZENE	0	10	10.4	ug/L	104	7
DPS01	Q734194	A417182	CARBON TETRACHLORIDE	0	10	9.12	ug/L	91.2	7.6
DPS01	Q734194	A417182	1,4-DICHLOROBENZENE (P-DICHLOROBENZE	0	10	8.18	ug/L	81.8	1.1
DPS01	Q734194	A417182	1,2-DICHLOROETHANE	0	10	11.1	ug/L	111	7.5
DPS01	Q734194	A417182	1,1-DICHLOROETHENE	0	10	11.5	ug/L	115	7.2
S01	Q734194	A417182	1,1,1-TRICHLOROETHANE	0	10	11.3	ug/L	113	6.4

HERITAGE ENVIRONMENTAL SERVICES, INC.

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
DPS01	Q734194	A417182	TRICHLOROETHENE	0	10	9.61	ug/L	96.1	6
S01	Q734194	A417182	VINYL CHLORIDE	0	10	10.4	ug/L	104	9.2
S01	Q734194	A417182	BROMOMETHANE	0	10	11.8	ug/L	118	1.7
DPS01	Q734194	A417182	CHLOROBENZENE	0	10	9.4	ug/L	94	3.6
DPS01	Q734194	A417182	CHLOROETHANE	0	10	12.1	ug/L	121	.8
DPS01	Q734194	A417182	CHLOROFORM	0	10	10.3	ug/L	103	6.6
DPS01	Q734194	A417182	CHLOROMETHANE	0	10	8.34	ug/L	83.4	15.7
DPS01	Q734194	A417182	1,2-DICHLOROBENZENE (O-DICHLOROBENZE	0	10	8.14	ug/L	81.4	0
DPS01	Q734194	A417182	TRANS-1,2-DICHLOROETHENE	0	10	11.4	ug/L	114	12.1
DPS01	Q734194	A417182	CIS-1,2-DICHLOROETHENE	0	10	11.4	ug/L	114	8.2
DPS01	Q734194	A417182	DICHLOROMETHANE (METHYLENE CHLORIDE)	0.96	10	10.8	ug/L	98.4	7.8
DPS01	Q734194	A417182	1,1-DICHLOROETHANE	0	10	11	ug/L	110	.9
DPS01	Q734194	A417182	1,2-DICHLOROPROPANE	0	10	10.7	ug/L	107	10
DPS01	Q734194	A417182	CIS-1,3-DICHLOROPROPENE	0	10	9.2	ug/L	92	10.6
DPS01	Q734194	A417182	TRANS-1,3-DICHLOROPROPENE	0	10	9.03	ug/L	90.3	9
DPS01	Q734194	A417182	ETHYL BENZENE	0	10	9.72	ug/L	97.2	4.3
DPS01	Q734194	A417182	STYRENE	0	10	9.4	ug/L	94	4.7
DPS01	Q734194	A417182	1,1,2-TRICHLOROETHANE	0	10	9.74	ug/L	97.4	11.3
DPS01	Q734194	A417182	1,1,1,2-TETRACHLOROETHANE	0	10	8.73	ug/L	87.3	3.6
DPS01	Q734194	A417182	1,1,2,2-TETRACHLOROETHANE	0	10	12.9	ug/L	129	21.5
DPS01	Q734194	A417182	TETRACHLOROETHENE	0	10	8.18	ug/L	81.8	9.5
DPS01	Q734194	A417182	TOLUENE	0	10	9.74	ug/L	97.4	9.3
DPS01	Q734194	A417182	TRICHLOROFLUOROMETHANE	0	10	11.7	ug/L	117	5.3
Run: R332958	Analyst.: H WILLIAMS		Run Date...: 25-AUG-97		Instrument: GC/MS VOA				
ANALYTICAL	Reviewer: A BRADBURN		Review Date: 26-AUG-97						
CCV	Q734704		See Attached Report: g2721r.ind						
BLA01	Q734705		See Attached Report: x2722r.ind						
S01	Q734706		TETRACHLOROETHENE	10		6.91	ug/L	69.1	
SAMPLE	A417278		See Cert. of Analysis, Rep: 0						
SAMPLE	A417280		See Cert. of Analysis, Rep: 0						
SPI01	Q734707	A417374	BENZENE	0	10	9.92	ug/L	99.2	
SPI01	Q734707	A417374	CARBON TETRACHLORIDE	0	10	8.71	ug/L	87.1	
SPI01	Q734707	A417374	1,4-DICHLOROBENZENE (P-DICHLOROBENZE	0	10	7.94	ug/L	79.4	
SPI01	Q734707	A417374	1,2-DICHLOROETHANE	0	10	10.7	ug/L	107	
SPI01	Q734707	A417374	1,1-DICHLOROETHENE	0	10	11.1	ug/L	111	
SPI01	Q734707	A417374	1,1,1-TRICHLOROETHANE	0	10	10.9	ug/L	109	
SPI01	Q734707	A417374	TRICHLOROETHENE	0	10	9.38	ug/L	93.8	
SPI01	Q734707	A417374	VINYL CHLORIDE	0	10	11.8	ug/L	118	
SPI01	Q734707	A417374	BROMOMETHANE	0	10	10.7	ug/L	107	
SPI01	Q734707	A417374	CHLOROBENZENE	0	10	9.02	ug/L	90.2	
SPI01	Q734707	A417374	CHLOROETHANE	0	10	11.8	ug/L	118	
SPI01	Q734707	A417374	CHLOROFORM	0	10	10.1	ug/L	101	
SPI01	Q734707	A417374	CHLOROMETHANE	0	10	9.9	ug/L	99	
SPI01	Q734707	A417374	1,2-DICHLOROBENZENE (O-DICHLOROBENZE	0	10	7.83	ug/L	78.3	
SPI01	Q734707	A417374	TRANS-1,2-DICHLOROETHENE	0	10	10.9	ug/L	109	
SPI01	Q734707	A417374	CIS-1,2-DICHLOROETHENE	0	10	10.7	ug/L	107	
SPI01	Q734707	A417374	DICHLOROMETHANE (METHYLENE CHLORIDE)	0	10	11.8	ug/L	118	
SPI01	Q734707	A417374	1,1-DICHLOROETHANE	0	10	11.8	ug/L	118	
SPI01	Q734707	A417374	1,2-DICHLOROPROPANE	0	10	10.1	ug/L	101	
SPI01	Q734707	A417374	CIS-1,3-DICHLOROPROPENE	0	10	8.62	ug/L	86.2	
SPI01	Q734707	A417374	TRANS-1,3-DICHLOROPROPENE	0	10	8.77	ug/L	87.7	
SPI01	Q734707	A417374	ETHYL BENZENE	0	10	9.23	ug/L	92.3	
SPI01	Q734707	A417374	STYRENE	0	10	9.5	ug/L	95	
I01	Q734707	A417374	1,1,2-TRICHLOROETHANE	0	10	9.2	ug/L	92	

HERITAGE ENVIRONMENTAL SERVICES, INC.

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
SPI01	Q734707	A417374	1,1,1,2-TETRACHLOROETHANE	0	10	8.61	ug/L	86.1	
SPI01	Q734707	A417374	1,1,2,2-TETRACHLOROETHANE	0	10	9.95	ug/L	99.5	
SPI01	Q734707	A417374	TETRACHLOROETHENE	0	10	7.47	ug/L	74.7	
SPI01	Q734707	A417374	TOLUENE	0	10	9.22	ug/L	92.2	
SPI01	Q734707	A417374	TRICHLOROFLUOROMETHANE	0	10	11.4	ug/L	114	
DPS01	Q734708	A417374	BENZENE	0	10	10.1	ug/L	101	1.8
DPS01	Q734708	A417374	CARBON TETRACHLORIDE	0	10	8.59	ug/L	85.9	1.4
DPS01	Q734708	A417374	1,4-DICHLOROBENZENE (P-DICHLOROBENZE	0	10	8.24	ug/L	82.4	3.7
DPS01	Q734708	A417374	1,2-DICHLOROETHANE	0	10	10.5	ug/L	105	1.9
DPS01	Q734708	A417374	1,1-DICHLOROETHENE	0	10	10.7	ug/L	107	3.7
DPS01	Q734708	A417374	1,1,1-TRICHLOROETHANE	0	10	10.7	ug/L	107	1.9
DPS01	Q734708	A417374	TRICHLOROETHENE	0	10	9.53	ug/L	95.3	1.6
DPS01	Q734708	A417374	VINYL CHLORIDE	0	10	10	ug/L	100	16.5
DPS01	Q734708	A417374	BROMOMETHANE	0	10	11.3	ug/L	113	5.5
DPS01	Q734708	A417374	CHLOROBENZENE	0	10	9.38	ug/L	93.8	3.9
DPS01	Q734708	A417374	CHLOROETHANE	0	10	11.2	ug/L	112	5.2
DPS01	Q734708	A417374	CHLOROFORM	0	10	9.87	ug/L	98.7	2.3
DPS01	Q734708	A417374	CHLOROMETHANE	0	10	8.35	ug/L	83.5	17
DPS01	Q734708	A417374	1,2-DICHLOROBENZENE (O-DICHLOROBENZE	0	10	8.31	ug/L	83.1	5.9
DPS01	Q734708	A417374	TRANS-1,2-DICHLOROETHENE	0	10	10.8	ug/L	108	.9
DPS01	Q734708	A417374	CIS-1,2-DICHLOROETHENE	0	10	10.5	ug/L	105	1.9
DPS01	Q734708	A417374	DICHLOROMETHANE (METHYLENE CHLORIDE)	0	10	11.8	ug/L	118	0
DPS01	Q734708	A417374	1,1-DICHLOROETHANE	0	10	11.4	ug/L	114	3.4
DPS01	Q734708	A417374	1,2-DICHLOROPROPANE	0	10	10.2	ug/L	102	1
DPS01	Q734708	A417374	CIS-1,3-DICHLOROPROPENE	0	10	8.87	ug/L	88.7	2.9
DPS01	Q734708	A417374	TRANS-1,3-DICHLOROPROPENE	0	10	9	ug/L	90	2.6
DPS01	Q734708	A417374	ETHYL BENZENE	0	10	9.62	ug/L	96.2	4.1
DPS01	Q734708	A417374	STYRENE	0	10	9.16	ug/L	91.6	3.6
DPS01	Q734708	A417374	1,1,2-TRICHLOROETHANE	0	10	9.51	ug/L	95.1	3.3
DPS01	Q734708	A417374	1,1,1,2-TETRACHLOROETHANE	0	10	8.95	ug/L	89.5	3.9
DPS01	Q734708	A417374	1,1,2,2-TETRACHLOROETHANE	0	10	10	ug/L	100	.5
DPS01	Q734708	A417374	TETRACHLOROETHENE	0	10	8.03	ug/L	80.3	7.2
DPS01	Q734708	A417374	TOLUENE	0	10	9.53	ug/L	95.3	3.3
DPS01	Q734708	A417374	TRICHLOROFLUOROMETHANE	0	10	10.3	ug/L	103	10.1

Run: R333156 Analyst.: H WILLIAMS Run Date...: 26-AUG-97 Instrument: GC/MS VOA
ANALYTICAL Reviewer: A BRADBURN Review Date: 27-AUG-97

CCV	Q735718		See Attached Report: g2740r.ind						
BLA01	Q735719		See Attached Report: g2741r.ind						
SAMPLE	A417282		See Cert. of Analysis, Rep: 0						
SPI01	Q735729	A417524	BENZENE	0	10	9.82	ug/L	98.2	
SPI01	Q735729	A417524	CARBON TETRACHLORIDE	0	10	8.45	ug/L	84.5	
SPI01	Q735729	A417524	1,4-DICHLOROBENZENE (P-DICHLOROBENZE	0	10	8.02	ug/L	80.2	
SPI01	Q735729	A417524	1,2-DICHLOROETHANE	0	10	9.81	ug/L	98.1	
SPI01	Q735729	A417524	1,1-DICHLOROETHENE	0	10	10.6	ug/L	106	
SPI01	Q735729	A417524	1,1,1-TRICHLOROETHANE	0	10	10.7	ug/L	107	
SPI01	Q735729	A417524	TRICHLOROETHENE	0	10	9.14	ug/L	91.4	
SPI01	Q735729	A417524	VINYL CHLORIDE	0	10	11.2	ug/L	112	
SPI01	Q735729	A417524	BROMOMETHANE	0	10	10.9	ug/L	109	
SPI01	Q735729	A417524	CHLOROBENZENE	0	10	9.27	ug/L	92.7	
SPI01	Q735729	A417524	CHLOROETHANE	0	10	11.9	ug/L	119	
SPI01	Q735729	A417524	CHLOROFORM	0	10	9.74	ug/L	97.4	
SPI01	Q735729	A417524	CHLOROMETHANE	0	10	9.47	ug/L	94.7	
SPI01	Q735729	A417524	1,2-DICHLOROBENZENE (O-DICHLOROBENZE	0	10	8.27	ug/L	82.7	
01	Q735729	A417524	TRANS-1,2-DICHLOROETHENE	0	10	10.2	ug/L	102	

HERITAGE ENVIRONMENTAL SERVICES, INC.

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
SPI01	Q735729	A417524	CIS-1,2-DICHLOROETHENE	0	10	10.5	ug/L	105	
`01	Q735729	A417524	DICHLOROMETHANE (METHYLENE CHLORIDE)	0	10	11.4	ug/L	114	
..(01	Q735729	A417524	1,1-DICHLOROETHANE	0	10	11.4	ug/L	114	
SPI01	Q735729	A417524	1,2-DICHLOROPROPANE	0	10	9.92	ug/L	99.2	
SPI01	Q735729	A417524	CIS-1,3-DICHLOROPROPENE	0	10	8.39	ug/L	83.9	
SPI01	Q735729	A417524	TRANS-1,3-DICHLOROPROPENE	0	10	8.25	ug/L	82.5	
SPI01	Q735729	A417524	ETHYL BENZENE	0	10	9.3	ug/L	93	
SPI01	Q735729	A417524	STYRENE	0	10	9.17	ug/L	91.7	
SPI01	Q735729	A417524	1,1,2-TRICHLOROETHANE	0	10	8.8	ug/L	88	
SPI01	Q735729	A417524	1,1,1,2-TETRACHLOROETHANE	0	10	8.41	ug/L	84.1	
SPI01	Q735729	A417524	1,1,2,2-TETRACHLOROETHANE	0	10	10	ug/L	100	
SPI01	Q735729	A417524	TETRACHLOROETHENE	0	10	8.03	ug/L	80.3	
SPI01	Q735729	A417524	TOLUENE	0	10	9.28	ug/L	92.8	
SPI01	Q735729	A417524	TRICHLOROFLUOROMETHANE	0	10	10.9	ug/L	109	
DPS01	Q735730	A417524	BENZENE	0	10	10.1	ug/L	101	2.8
DPS01	Q735730	A417524	CARBON TETRACHLORIDE	0	10	9.05	ug/L	90.5	6.9
DPS01	Q735730	A417524	1,4-DICHLOROBENZENE (P-DICHLOROBENZE	0	10	8.53	ug/L	85.3	6.2
DPS01	Q735730	A417524	1,2-DICHLOROETHANE	0	10	10.7	ug/L	107	8.7
DPS01	Q735730	A417524	1,1-DICHLOROETHENE	0	10	11.1	ug/L	111	4.6
DPS01	Q735730	A417524	1,1,1-TRICHLOROETHANE	0	10	11	ug/L	110	2.8
DPS01	Q735730	A417524	TRICHLOROETHENE	0	10	9.54	ug/L	95.4	4.3
DPS01	Q735730	A417524	VINYL CHLORIDE	0	10	10.1	ug/L	101	10.3
DPS01	Q735730	A417524	BROMOMETHANE	0	10	11.8	ug/L	118	7.9
DPS01	Q735730	A417524	CHLOROBENZENE	0	10	9.49	ug/L	94.9	2.3
DPS01	Q735730	A417524	CHLOROETHANE	0	10	11.3	ug/L	113	5.2
DPS01	Q735730	A417524	CHLOROFORM	0	10	10.1	ug/L	101	3.6
DPS01	Q735730	A417524	CHLOROMETHANE	0	10	8.19	ug/L	81.9	14.5
`01	Q735730	A417524	1,2-DICHLOROBENZENE (O-DICHLOROBENZE	0	10	8.55	ug/L	85.5	3.3
DPS01	Q735730	A417524	TRANS-1,2-DICHLOROETHENE	0	10	11.1	ug/L	111	8.5
DPS01	Q735730	A417524	CIS-1,2-DICHLOROETHENE	0	10	10.8	ug/L	108	2.8
DPS01	Q735730	A417524	DICHLOROMETHANE (METHYLENE CHLORIDE)	0	10	11.4	ug/L	114	0
DPS01	Q735730	A417524	1,1-DICHLOROETHANE	0	10	11.6	ug/L	116	1.7
DPS01	Q735730	A417524	1,2-DICHLOROPROPANE	0	10	10.3	ug/L	103	3.8
DPS01	Q735730	A417524	CIS-1,3-DICHLOROPROPENE	0	10	8.71	ug/L	87.1	3.7
DPS01	Q735730	A417524	TRANS-1,3-DICHLOROPROPENE	0	10	8.7	ug/L	87	5.3
DPS01	Q735730	A417524	ETHYL BENZENE	0	10	9.64	ug/L	96.4	3.6
DPS01	Q735730	A417524	STYRENE	0	10	10	ug/L	100	8.7
DPS01	Q735730	A417524	1,1,2-TRICHLOROETHANE	0	10	9.31	ug/L	93.1	5.6
DPS01	Q735730	A417524	1,1,1,2-TETRACHLOROETHANE	0	10	8.92	ug/L	89.2	5.9
DPS01	Q735730	A417524	1,1,2,2-TETRACHLOROETHANE	0	10	9.04	ug/L	90.4	10.1
DPS01	Q735730	A417524	TETRACHLOROETHENE	0	10	8.05	ug/L	80.5	.2
DPS01	Q735730	A417524	TOLUENE	0	10	9.28	ug/L	92.8	0
DPS01	Q735730	A417524	TRICHLOROFLUOROMETHANE	0	10	10.7	ug/L	107	1.9

Comments

Q734193 ! Advisory limits from laboratory generated data.
Q734194 ! Advisory limits from laboratory generated data.
Q734707 ! Advisory limits from laboratory generated data.
Q734708 ! Advisory limits from laboratory generated data.
Q735729 ! Advisory limits from laboratory generated data.
Q735730 ! Advisory limits from laboratory generated data.

Approved by: P.K Spence

Continuing Calibration Report

Data File : C:\R082197\2690R.D
Acq On : 21 Aug 97 3:16
Sample : VSTD010 #080897
Misc : CALIBRATION CHECK 8/21/97

Vial: 14
Operator: HAROLD
Inst : INST-122
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\BFI8260.M
Title : SW-846 Method 8260 25mL water
Last Update : Wed May 14 04:28:41 1997
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

cal 2 = 1320R.D cal 10 = 1332R.D cal 25 = 1312R.D
cal 50 = 1311R.D cal100 = 1310R.D

		Compound	AvgRF	CCRF	%Dev
1	I	PENTAFLUOROBENZENE	1.00000	1.00000	0.0
2	T	dichlorodifluoromethane	0.36904	0.35048	5.0
3	P	chloromethane	0.37698	0.38643	2.5
4	C	VINYL CHLORIDE	0.34873	0.39916	14.5
5	T	bromomethane	0.26701	0.28838	8.0
6	T	chloroethane	0.22205	0.28184	26.9#
7	T	trichlorofluoromethane	0.78289	0.88045	12.5
8	T	acrolein	0.00305	0.00296	3.0
9	C	1,1-DICHLOROETHENE	0.39946	0.44956	12.5
10	T	acetone	0.02899	0.02604	10.2
11	T	iodomethane	0.38868	0.78151	101.1#
12	T	carbon disulfide	1.08346	1.22677	13.2
13	T	allyl chloride	0.68866	0.73188	6.3
14	T	methylene chloride	0.33359	0.36321	8.9
15	T	trans-1,2-dichloroethene	0.44683	0.50153	12.2
16	T	acrylonitrile	0.02070	0.01857	10.3
17	T	MTBE	0.38023	0.44007	15.7
18	P	1,1-dichloroethane	0.88207	1.01033	14.5
19	T	vinyl acetate	0.62848	0.75206	19.7
20	T	chloroprene	0.00095	0.00000	100.0#
21	T	2,2-dichloropropane	0.72269	0.77696	7.5
22	T	cis-1,2-dichloroethene	0.41962	0.48255	15.0
23	T	2-butanone	0.04743	0.05524	16.5
24	T	ethyl acetate	0.03275	0.03540	8.1
25	T	propionitrile	0.00755	0.00986	30.6#
26	T	bromochloromethane	0.17149	0.19558	14.0
27	T	methacrylonitrile	0.05920	0.07762	31.1#
28	T	tetrahydrofuran	0.02605	0.03597	38.1#
29	C	CHLOROFORM	0.99296	1.00565	1.3
30	T	1,1,1-trichloroethane	0.80455	0.83870	4.2
31	I	1,4-DIFLUOROBENZENE	1.00000	1.00000	0.0
32	T	carbon tetrachloride	0.53247	0.46387	12.9
33	T	1,1-dichloropropene	0.50864	0.48776	4.1
34	S	1,2-Dichloroethane-d4	0.25319	0.26368	4.1
35	T	benzene	0.94591	0.98421	4.0
36	T	1,2-dichloroethane	0.26507	0.28135	6.1
37	T	isobutanol	0.00621	0.00601	3.2
38	T	trichloroethene	0.46696	0.44079	5.6
39	T	n-butanol	0.00222	0.00276	24.3#

(#) = Out of Range (Advisory for non CCC, SPCC)

Continuing Calibration Report

Data File : C:\R082197\2690R.D
Acq On : 21 Aug 97 3:16
Sample : VSTD010 #080897
Misc : CALIBRATION CHECK 8/21/97

Vial: 14
Operator: HAROLD
Inst : INST-122
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\BFI8260.M
Title : SW-846 Method 8260 25mL water
Last Update : Wed May 14 04:28:41 1997
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

cal414 = 1320R.D cal1035 = 1332R.D cal2587 = 1312R.D
cal5175 = 1311R.D cal10350 = 1310R.D

		Compound	AvgRF	CCRF	%Dev
40	C	1,2-DICHLOROPROPANE	0.37868	0.40286	6.4
41	T	dibromomethane	0.18782	0.18924	0.8
42	T	1,4-dioxane	0.00058	0.00061	5.2
43	T	methyl methacrylate	0.10487	0.11317	7.9
44	T	bromodichloromethane	0.53018	0.54267	2.4
45	T	2-chloroethylvinylether	0.07123	0.05062	28.9#
46	T	cis-1,3-dichloropropene	0.37950	0.37627	0.9
47	T	4-methyl-2-pentanone	0.08979	0.09330	3.9
48	S	toluene-d8	0.97932	0.98794	0.9
	C	TOLUENE	0.59841	0.59622	0.4
	T	trans-1,3-dichloropropene	0.24995	0.25334	1.4
51	T	1,1,2-trichloroethane	0.15764	0.15594	1.1
52	I	CHLOROBENZENE-D5	1.00000	1.00000	0.0
53	T	ethyl methacrylate	0.21550	0.21657	0.5
54	T	tetrachloroethene	0.69983	0.61319	12.4
55	T	1,3-dichloropropane	0.38997	0.42177	8.2
56	T	2-hexanone	0.13119	0.12111	7.7
57	T	dibromochloromethane	0.43885	0.42338	3.5
58	T	1,2-dibromoethane	0.30837	0.31190	1.1
59	P	chlorobenzene	0.99391	0.98758	0.6
60	T	1,1,1,2-tetrachloroethane	0.43864	0.41796	4.7
61	C	ETHYL BENZENE	1.77643	1.78380	0.4
62	T	m,p-xylene	0.64703	0.64241	0.7
63	T	o-xylene	0.55863	0.56577	1.3
64	T	styrene	0.81740	0.84746	3.7
65	P	bromoform	0.19421	0.18466	4.9
66	I	1,4-DICHLOROBENZENE-D4	1.00000	1.00000	0.0
67	T	isopropylbenzene	5.34560	4.66535	12.7
68	S	4-bromofluorobenzene	1.81479	1.66505	8.3
69	P	1,1,2,2-tetrachloroethane	0.68003	0.73362	7.9
70	T	bromobenzene	1.03461	0.87796	15.1
71	T	1,2,3-trichloropropane	0.28606	0.16350	42.8#
72	T	trans-1,4-dichloro-2-butene	0.08953	0.09570	6.9
	T	n-propylbenzene	6.12761	5.25193	14.3
74	T	2-chlorotoluene	3.78834	3.53245	6.8
75	T	1,3,5-trimethylbenzene	3.38089	2.99536	11.4
76	T	4-chlorotoluene	3.77001	3.57252	5.2
77	T	t-Butylbenzene	2.85147	2.65923	6.7
78	T	1,2,4-trimethylbenzene	2.91543	2.77013	5.0

Continuing Calibration Report

Data File : C:\RO82197\2690R.D
Acq On : 21 Aug 97 3:16
Sample : VSTD010 #080897
Misc : CALIBRATION CHECK 8/21/97

Vial: 14
Operator: HAROLD
Inst : INST-122
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\BFI8260.M
Title : SW-846 Method 8260 25mL water
Last Update : Wed May 14 04:28:41 1997
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

cal 2 = 1320R.D cal 10 = 1332R.D cal 25 = 1312R.D
cal 50 = 1311R.D cal100 = 1310R.D

	Compound	AvgRF	CCRF	%Dev
79 T	sec-butylbenzene	5.26102	4.96840	5.6
80 T	1,3-dichlorobenzene	1.57937	1.38832	12.1
81 T	p-Isopropyltoluene	3.38340	3.28345	3.0
82 T	1,4-dichlorobenzene	1.65420	1.42254	14.0
83 T	n-butylbenzene	3.58506	3.52213	1.8
84 T	1,2-dichlorobenzene	1.15635	0.97928	15.3
85 T	1,2-dibromo-3-chloropropane	0.10585	0.09248	12.6
86 T	1,2,4-trichlorobenzene	0.54185	0.35125	35.2#
87 T	hexachlorobutadiene	0.59948	0.32700	45.5#
T	naphthalene	0.47239	0.30476	35.5#
T	1,2,3-trichlorobenzene	0.39693	0.22582	43.1#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Continuing Calibration Report

Data File : C:\RO82497\2721R.D
Acq On : 25 Aug 97 4:06
Sample : VSTD010 #080897
Misc : CALIBRATION CHECK 8/25/97

Vial: 6
Operator: HAROLD
Inst : INST-122
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\BFI8260.M
Title : SW-846 Method 8260 25mL water
Last Update : Wed May 14 04:28:41 1997
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

cal 2 = 1320R.D cal 10 = 1332R.D cal 25 = 1312R.D
cal 50 = 1311R.D cal100 = 1310R.D

		Compound	AvgRF	CCRF	%Dev
1	I	PENTAFLUOROBENZENE	1.00000	1.00000	0.0
2	T	dichlorodifluoromethane	0.36904	0.41858	13.4
3	P	chloromethane	0.37698	0.44163	17.1
4	C	VINYL CHLORIDE	0.34873	0.39305	12.7
5	T	bromomethane	0.26701	0.28152	5.4
6	T	chloroethane	0.22205	0.29981	35.0#
7	T	trichlorofluoromethane	0.78289	0.88171	12.6
8	T	acrolein	0.00305	0.00461	51.1#
9	C	1,1-DICHLOROETHENE	0.39946	0.46576	16.6
10	T	acetone	0.02899	0.02956	2.0
11	T	iodomethane	0.38868	0.81936	110.8#
12	T	carbon disulfide	1.08346	1.27438	17.6
13	T	allyl chloride	0.68866	0.74036	7.5
14	T	methylene chloride	0.33359	0.37881	13.6
15	T	trans-1,2-dichloroethene	0.44683	0.46987	5.2
16	T	acrylonitrile	0.02070	0.03757	81.5#
17	T	MTBE	0.38023	0.36967	2.8
18	P	1,1-dichloroethane	0.88207	0.94856	7.5
19	T	vinyl acetate	0.62848	0.67815	7.9
20	T	chloroprene	0.00095	0.00000	100.0#
21	T	2,2-dichloropropane	0.72269	0.78309	8.4
22	T	cis-1,2-dichloroethene	0.41962	0.44066	5.0
23	T	2-butanone	0.04743	0.05287	11.5
24	T	ethyl acetate	0.03275	0.03322	1.4
25	T	propionitrile	0.00755	0.00872	15.5
26	T	bromochloromethane	0.17149	0.18845	9.9
27	T	methacrylonitrile	0.05920	0.06173	4.3
28	T	tetrahydrofuran	0.02605	0.02752	5.6
29	C	CHLOROFORM	0.99296	0.93450	5.9
30	T	1,1,1-trichloroethane	0.80455	0.85348	6.1
31	I	1,4-DIFLUOROBENZENE	1.00000	1.00000	0.0
32	T	carbon tetrachloride	0.53247	0.48233	9.4
33	T	1,1-dichloropropene	0.50864	0.49944	1.8
34	S	1,2-Dichloroethane-d4	0.25319	0.23287	8.0
35	T	benzene	0.94591	0.99710	5.4
36	T	1,2-dichloroethane	0.26507	0.26089	1.6
37	T	isobutanol	0.00621	0.00546	12.1
38	T	trichloroethene	0.46696	0.46767	0.2
39	T	n-butanol	0.00222	0.00276	24.3#

Continuing Calibration Report

Data File : C:\R082497\2721R.D
Acq On : 25 Aug 97 4:06
Sample : VSTD010 #080897
Misc : CALIBRATION CHECK 8/25/97

Vial: 6
Operator: HAROLD
Inst : INST-122
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\BFI8260.M
Title : SW-846 Method 8260 25mL water
Last Update : Wed May 14 04:28:41 1997
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

cal414 = 1320R.D cal1035 = 1332R.D cal2587 = 1312R.D
cal5175 = 1311R.D cal10350 = 1310R.D

		Compound	AvgRF	CCRF	%Dev
40	C	1,2-DICHLOROPROPANE	0.37868	0.37773	0.3
41	T	dibromomethane	0.18782	0.17365	7.5
42	T	1,4-dioxane	0.00058	0.00058	0.0
43	T	methyl methacrylate	0.10487	0.09075	13.5
44	T	bromodichloromethane	0.53018	0.51833	2.2
45	T	2-chloroethylvinylether	0.07123	0.05436	23.7#
46	T	cis-1,3-dichloropropene	0.37950	0.35670	6.0
47	T	4-methyl-2-pentanone	0.08979	0.09060	0.9
48	S	toluene-d8	0.97932	1.05631	7.9
	C	TOLUENE	0.59841	0.66636	11.4
	T	trans-1,3-dichloropropene	0.24995	0.23688	5.2
51	T	1,1,2-trichloroethane	0.15764	0.15324	2.8
52	I	CHLOROBENZENE-D5	1.00000	1.00000	0.0
53	T	ethyl methacrylate	0.21550	0.18514	14.1
54	T	tetrachloroethene	0.69983	0.62381	10.9
55	T	1,3-dichloropropane	0.38997	0.36321	6.9
56	T	2-hexanone	0.13119	0.10597	19.2
57	T	dibromochloromethane	0.43885	0.39955	9.0
58	T	1,2-dibromoethane	0.30837	0.27692	10.2
59	P	chlorobenzene	0.99391	1.02529	3.2
60	T	1,1,1,2-tetrachloroethane	0.43864	0.39791	9.3
61	C	ETHYL BENZENE	1.77643	1.93285	8.8
62	T	m,p-xylene	0.64703	0.70234	8.5
63	T	o-xylene	0.55863	0.62611	12.1
64	T	styrene	0.81740	0.93292	14.1
65	P	bromoform	0.19421	0.17927	7.7
66	I	1,4-DICHLOROBENZENE-D4	1.00000	1.00000	0.0
67	T	isopropylbenzene	5.34560	4.38632	17.9
68	S	4-bromofluorobenzene	1.81479	1.48843	18.0
69	P	1,1,2,2-tetrachloroethane	0.68003	0.55678	18.1
70	T	bromobenzene	1.03461	0.80399	22.3#
71	T	1,2,3-trichloropropane	0.28606	0.13616	52.4#
72	T	trans-1,4-dichloro-2-butene	0.08953	0.07000	21.8#
	T	n-propylbenzene	6.12761	5.28257	13.8
74	T	2-chlorotoluene	3.78834	3.23484	14.6
75	T	1,3,5-trimethylbenzene	3.38089	3.04814	9.8
76	T	4-chlorotoluene	3.77001	3.46231	8.2
77	T	t-Butylbenzene	2.85147	2.70756	5.0
78	T	1,2,4-trimethylbenzene	2.91543	2.80143	3.9

Continuing Calibration Report

Data File : C:\R082497\2721R.D
Acq On : 25 Aug 97 4:06
Sample : VSTD010 #080897
Misc : CALIBRATION CHECK 8/25/97

Vial: 6
Operator: HAROLD
Inst : INST-122
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\BFI8260.M
Title : SW-846 Method 8260 25mL water
Last Update : Wed May 14 04:28:41 1997
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

cal 2 = 1320R.D cal 10 = 1332R.D cal 25 = 1312R.D
cal 50 = 1311R.D cal100 = 1310R.D

	Compound	AvgRF	CCRF	%Dev
79 T	sec-butylbenzene	5.26102	5.04057	4.2
80 T	1,3-dichlorobenzene	1.57937	1.44118	8.7
81 T	p-Isopropyltoluene	3.38340	3.53883	4.6
82 T	1,4-dichlorobenzene	1.65420	1.51867	8.2
83 T	n-butylbenzene	3.58506	3.84144	7.2
84 T	1,2-dichlorobenzene	1.15635	1.03883	10.2
85 T	1,2-dibromo-3-chloropropane	0.10585	0.08655	18.2
86 T	1,2,4-trichlorobenzene	0.54185	0.51722	4.5
87 T	hexachlorobutadiene	0.59948	0.49675	17.1
88 T	naphthalene	0.47239	0.41919	11.3
T	1,2,3-trichlorobenzene	0.39693	0.34770	12.4

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Continuing Calibration Report

Data File : C:\R082697\2740R.D
Acq On : 26 Aug 97 3:04
Sample : VSTD010 #080897
Misc : CALIBRATION CHECK 8/26/97

Vial: 14
Operator: HAROLD
Inst : INST-122
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\BFI8260.M
Title : SW-846 Method 8260 25mL water
Last Update : Wed May 14 04:28:41 1997
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

cal 2 = 1320R.D cal 10 = 1332R.D cal 25 = 1312R.D
cal 50 = 1311R.D cal100 = 1310R.D

		Compound	AvgRF	CCRF	%Dev
1	I	PENTAFLUOROBENZENE	1.00000	1.00000	0.0
2	T	dichlorodifluoromethane	0.36904	0.28992	21.4#
3	P	chloromethane	0.37698	0.30813	18.3
4	C	VINYL CHLORIDE	0.34873	0.34753	0.3
5	T	bromomethane	0.26701	0.29621	10.9
6	T	chloroethane	0.22205	0.26676	20.1#
7	T	trichlorofluoromethane	0.78289	0.86833	10.9
8	T	acrolein	0.00305	0.00502	64.6#
9	C	1,1-DICHLOROETHENE	0.39946	0.47327	18.5
10	T	acetone	0.02899	0.03708	27.9#
11	T	iodomethane	0.38868	0.76599	97.1#
12	T	carbon disulfide	1.08346	1.26922	17.1
13	T	allyl chloride	0.68866	0.82892	20.4#
14	T	methylene chloride	0.33359	0.38774	16.2
15	T	trans-1,2-dichloroethene	0.44683	0.47061	5.3
16	T	acrylonitrile	0.02070	0.04427	113.9#
17	T	MTBE	0.38023	0.46528	22.4#
18	P	1,1-dichloroethane	0.88207	0.98462	11.6
19	T	vinyl acetate	0.62848	0.75757	20.5#
20	T	chloroprene	0.00095	0.00000	100.0#
21	T	2,2-dichloropropane	0.72269	0.86660	19.9
22	T	cis-1,2-dichloroethene	0.41962	0.45560	8.6
23	T	2-butanone	0.04743	0.04205	11.3
24	T	ethyl acetate	0.03275	0.03719	13.6
25	T	propionitrile	0.00755	0.01099	45.6#
26	T	bromochloromethane	0.17149	0.18608	8.5
27	T	methacrylonitrile	0.05920	0.08773	48.2#
28	T	tetrahydrofuran	0.02605	0.03649	40.1#
29	C	CHLOROFORM	0.99296	1.11846	12.6
30	T	1,1,1-trichloroethane	0.80455	0.93762	16.5
31	I	1,4-DIFLUOROBENZENE	1.00000	1.00000	0.0
32	T	carbon tetrachloride	0.53247	0.49849	6.4
33	T	1,1-dichloropropene	0.50864	0.51797	1.8
34	S	1,2-Dichloroethane-d4	0.25319	0.27490	8.6
35	T	benzene	0.94591	1.00771	6.5
36	T	1,2-dichloroethane	0.26507	0.30559	15.3
37	T	isobutanol	0.00621	0.00617	0.6
38	T	trichloroethene	0.46696	0.45748	2.0
39	T	n-butanol	0.00222	0.00281	26.6#

Continuing Calibration Report

Data File : C:\R082697\2740R.D
Acq On : 26 Aug 97 3:04
Sample : VSTD010 #080897
Misc : CALIBRATION CHECK 8/26/97

Vial: 14
Operator: HAROLD
Inst : INST-122
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\BFI8260.M
Title : SW-846 Method 8260 25mL water
Last Update : Wed May 14 04:28:41 1997
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

cal414 = 1320R.D cal1035 = 1332R.D cal2587 = 1312R.D
cal5175 = 1311R.D cal10350 = 1310R.D

		Compound	AvgRF	CCRF	%Dev
40	C	1,2-DICHLOROPROPANE	0.37868	0.40577	7.2
41	T	dibromomethane	0.18782	0.19806	5.5
42	T	1,4-dioxane	0.00058	0.00066	13.8
43	T	methyl methacrylate	0.10487	0.11687	11.4
44	T	bromodichloromethane	0.53018	0.56561	6.7
45	T	2-chloroethylvinylether	0.07123	0.06692	6.1
46	T	cis-1,3-dichloropropene	0.37950	0.39114	3.1
47	T	4-methyl-2-pentanone	0.08979	0.10274	14.4
48	S	toluene-d8	0.97932	0.98838	0.9
[illegible]	C	TOLUENE	0.59841	0.60850	1.7
[illegible]	T	trans-1,3-dichloropropene	0.24995	0.25530	2.1
51	T	1,1,2-trichloroethane	0.15764	0.15930	1.1
52	I	CHLOROBENZENE-D5	1.00000	1.00000	0.0
53	T	ethyl methacrylate	0.21550	0.23645	9.7
54	T	tetrachloroethene	0.69983	0.62457	10.8
55	T	1,3-dichloropropane	0.38997	0.44290	13.6
56	T	2-hexanone	0.13119	0.11960	8.8
57	T	dibromochloromethane	0.43885	0.45040	2.6
58	T	1,2-dibromoethane	0.30837	0.31290	1.5
59	P	chlorobenzene	0.99391	1.03533	4.2
60	T	1,1,1,2-tetrachloroethane	0.43864	0.42817	2.4
61	C	ETHYL BENZENE	1.77643	1.85567	4.5
62	T	m,p-xylene	0.64703	0.66008	2.0
63	T	o-xylene	0.55863	0.58983	5.6
64	T	styrene	0.81740	0.87976	7.6
65	P	bromoform	0.19421	0.18842	3.0
66	I	1,4-DICHLOROBENZENE-D4	1.00000	1.00000	0.0
67	T	isopropylbenzene	5.34560	4.56174	14.7
68	S	4-bromofluorobenzene	1.81479	1.60675	11.5
69	P	1,1,2,2-tetrachloroethane	0.68003	0.71101	4.6
70	T	bromobenzene	1.03461	0.88188	14.8
71	T	1,2,3-trichloropropane	0.28606	0.15281	46.6#
72	T	trans-1,4-dichloro-2-butene	0.08953	0.09774	9.2
[illegible]	T	n-propylbenzene	6.12761	5.23116	14.6
[illegible]	T	2-chlorotoluene	3.78834	3.43323	9.4
75	T	1,3,5-trimethylbenzene	3.38089	3.17055	6.2
76	T	4-chlorotoluene	3.77001	3.54236	6.0
77	T	t-Butylbenzene	2.85147	2.65500	6.9
78	T	1,2,4-trimethylbenzene	2.91543	2.85033	2.2

Continuing Calibration Report

Data File : C:\R082697\2740R.D
Acq On : 26 Aug 97 3:04
Sample : VSTD010 #080897
Misc : CALIBRATION CHECK 8/26/97

Vial: 14
Operator: HAROLD
Inst : INST-122
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\BFI8260.M
Title : SW-846 Method 8260 25mL water
Last Update : Wed May 14 04:28:41 1997
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

cal 2 = 1320R.D cal 10 = 1332R.D cal 25 = 1312R.D
cal 50 = 1311R.D cal100 = 1310R.D

		Compound	AvgRF	CCRF	%Dev
79	T	sec-butylbenzene	5.26102	4.96802	5.6
80	T	1,3-dichlorobenzene	1.57937	1.40362	11.1
81	T	p-Isopropyltoluene	3.38340	3.35970	0.7
82	T	1,4-dichlorobenzene	1.65420	1.43820	13.1
83	T	n-butylbenzene	3.58506	3.68980	2.9
84	T	1,2-dichlorobenzene	1.15635	0.99780	13.7
85	T	1,2-dibromo-3-chloropropane	0.10585	0.08741	17.4
86	T	1,2,4-trichlorobenzene	0.54185	0.41743	23.0#
87	T	hexachlorobutadiene	0.59948	0.42590	29.0#
	T	naphthalene	0.47239	0.34743	26.5#
	T	1,2,3-trichlorobenzene	0.39693	0.29270	26.3#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

HERITAGE
SW846-8260A MATRIX METHOD BLANK
VOLATILE ORGANICS FOR GC/MS, CAPILLARY COLUMN TECHNIQUE

GC/MS VOA Data File : >2741R

Date/Time of Analysis: 8/26/97 3:55

Analyte List	Result	UNITS	LIMIT
1,1,1,2-Tetrachloroethane	BDL	UG/L	1
1,1,1-Trichloroethane	BDL	UG/L	1
1,1,2,2-Tetrachloroethane	BDL	UG/L	1
1,1,2-Trichloroethane	BDL	UG/L	1
1,1-Dichloroethane	BDL	UG/L	1
1,1-Dichloroethene	BDL	UG/L	1
1,1-Dichloropropene	BDL	UG/L	1
1,2,3-Trichlorobenzene	BDL	UG/L	1
1,2,3-Trichloropropane	BDL	UG/L	3
1,2,4-Trichlorobenzene	BDL	UG/L	1
1,2,4-Trimethylbenzene	BDL	UG/L	1
1,2-Dibromo-3-Chloropropane	BDL	UG/L	5
1,2-Dibromoethane	BDL	UG/L	1
1,2-Dichlorobenzene	BDL	UG/L	1
1,2-Dichloroethane	BDL	UG/L	1
1,2-Dichloropropane	BDL	UG/L	1
1,3,5-Trimethylbenzene	BDL	UG/L	1
1,3-Dichlorobenzene	BDL	UG/L	1
1,3-Dichloropropane	BDL	UG/L	1
1,3-Dichloropropene	BDL	UG/L	1
1,4-Dichlorobenzene	BDL	UG/L	1
1,4-Dioxane	BDL	UG/L	100
2,2-Dichloropropane	BDL	UG/L	1
2-Chloroethylvinylether	BDL	UG/L	1
2-Chlorotoluene	BDL	UG/L	1
2-Hexanone	BDL	UG/L	10
4-Chlorotoluene	BDL	UG/L	1
4-Isopropyltoluene	BDL	UG/L	1
Acetone	BDL	UG/L	10
Acrolein	BDL	UG/L	25
Acrylonitrile	BDL	UG/L	10
Benzene	BDL	UG/L	1
Bromobenzene	BDL	UG/L	1
Bromochloromethane	BDL	UG/L	1
Bromodichloromethane	BDL	UG/L	1
Bromoform	BDL	UG/L	1
Bromomethane	BDL	UG/L	2
Carbon Disulfide	BDL	UG/L	1
Carbon Tetrachloride	BDL	UG/L	5
Chlorobenzene	BDL	UG/L	1
Chloroethane	BDL	UG/L	2
Chloroform	BDL	UG/L	1
Chloromethane	BDL	UG/L	1
Cis-1,2-Dichloroethene	BDL	UG/L	1

HERITAGE
SW846-8260A MATRIX METHOD BLANK
VOLATILE ORGANICS FOR GC/MS, CAPILLARY COLUMN TECHNIQUE

GC/MS VOA Data File : >2741R

Date/Time of Analysis: 8/26/97 3:55

Analyte List	Result	UNITS	LIMIT
Cis-1,3-Dichloropropene	BDL	UG/L	1
Dibromochloromethane	BDL	UG/L	1
Dibromomethane	BDL	UG/L	2
Dichlorodifluoromethane	BDL	UG/L	1
Dichlorofluoromethane	BDL	UG/L	1
Dichloromethane	BDL	UG/L	2
Diethyl Ether	BDL	UG/L	1
Ethyl Benzene	BDL	UG/L	1
Ethyl Cyanide	BDL	UG/L	20
Hexachlorobutadiene	BDL	UG/L	1
Isobutanol	BDL	UG/L	100
Isopropylbenzene	BDL	UG/L	1
M/P-Xylene	BDL	UG/L	1
Methyl Ethyl Ketone	BDL	UG/L	20
Methyl Iodide	BDL	UG/L	2
Methyl Isobutyl Ketone	BDL	UG/L	20
N-Butylbenzene	BDL	UG/L	1
N-Propylbenzene	BDL	UG/L	2
Naphthalene	BDL	UG/L	1
O-Xylene	BDL	UG/L	1
Sec-Butylbenzene	BDL	UG/L	1
Styrene	BDL	UG/L	1
Tert-Butylbenzene	BDL	UG/L	1
Tetrachloroethene	BDL	UG/L	1
Tetrahydrofuran	BDL	UG/L	20
Toluene	BDL	UG/L	1
Trans-1,2-Dichloroethene	BDL	UG/L	1
Trans-1,3-Dichloropropene	BDL	UG/L	1
Trans-1,4-Dichloro-2-Butene	BDL	UG/L	20
Trichloroethene	BDL	UG/L	1
Trichlorofluoromethane	BDL	UG/L	1
Vinyl Acetate	BDL	UG/L	10
Vinyl Chloride	BDL	UG/L	2
Xylenes	BDL	UG/L	2

Surrogate Recovery

Dichloroethane-D4	108	% RECOVERY
Toluene-D8	100	% RECOVERY
4-Bromofluorobenzene	97	% RECOVERY

Heritage
Volatile Analysis - Water Method Blank
Analysis Method: SW846-8260

GC/MS VOA Data File: >2691R
Analysis Date/Time: 8/21/97 4:07

Analyte List	Result	DL	Units
Benzene	BDL	5	uG/L
Bromobenzene	BDL	5	uG/L
Bromochloromethane	BDL	5	uG/L
Bromodichloromethane	BDL	5	uG/L
Bromoform	BDL	5	uG/L
Bromomethane	BDL	5	uG/L
n-Butylbenzene	BDL	5	uG/L
tert-Butylbenzene	BDL	5	uG/L
Carbon tetrachloride	BDL	5	uG/L
Chlorobenzene	BDL	5	uG/L
Chloroethane	BDL	5	uG/L
Chloroform	BDL	5	uG/L
Chloromethane	BDL	5	uG/L
2-Chlorotoluene	BDL	5	uG/L
4-Chlorotoluene	BDL	5	uG/L
Dibromochloromethane	BDL	5	uG/L
1,2-Dibromo-3-Chloropropane	BDL	5	uG/L
1,2-Dibromoethane	BDL	5	uG/L
Dibromomethane	BDL	5	uG/L
1,2-Dichlorobenzene	BDL	5	uG/L
1,3-Dichlorobenzene	BDL	5	uG/L
1,4-Dichlorobenzene	BDL	5	uG/L
Dichlorodifluoromethane	BDL	5	uG/L
1,1-Dichloroethane	BDL	5	uG/L
1,2-Dichloroethane	BDL	5	uG/L
1,1-Dichloroethene	BDL	5	uG/L
cis-1,2-Dichloroethene	BDL	5	uG/L
trans-1,2-Dichloroethene	BDL	5	uG/L
1,2-Dichloropropane	BDL	5	uG/L
1,3-Dichloropropane	BDL	5	uG/L
2,2-Dichloropropane	BDL	5	uG/L
1,1-Dichloropropene	BDL	5	uG/L
cis-1,3-Dichloropropene	BDL	5	uG/L
trans-1,3-Dichloropropene	BDL	5	uG/L
Ethyl Benzene	BDL	5	uG/L
Hexachlorobutadiene	BDL	5	uG/L
Isopropylbenzene	BDL	5	uG/L
Dichloromethane	BDL	5	uG/L
Naphthalene	BDL	5	uG/L
N-Propylbenzene	BDL	5	uG/L
Styrene	BDL	5	uG/L
1,1,1,2-Tetrachloroethane	BDL	5	uG/L
1,1,2,2-Tetrachloroethane	BDL	5	uG/L
Tetrachloroethane	BDL	5	uG/L
Toluene	BDL	5	uG/L
1,2,3-Trichloropropane	BDL	5	uG/L
1,2,4-Trichlorobenzene	BDL	5	uG/L

Heritage
Volatile Analysis - Water Method Blank
Analysis Method: SW846-8260

GC/MS VOA Data File: >2691R
Analysis Date/Time: 8/21/97 4:07

Analyte List	Result	DL	Units
1,1,1-Trichloroethane.....	BDL	5	uG/L
1,1,2-Trichloroethane.....	BDL	5	uG/L
Trichloroethene.....	BDL	5	uG/L
Trichlorofluoromethane.....	BDL	5	uG/L
1,2,3-Trichloropropane.....	BDL	5	uG/L
1,2,4-Trimethylbenzene.....	BDL	5	uG/L
1,3,5-Trimethylbenzene.....	BDL	5	uG/L
Vinyl Chloride.....	BDL	5	uG/L
Xylenes (o/m/p-xylene).....	BDL	5	uG/L
Hexane.....	BDL	10	uG/L
Methyl-t-butyl benzene.....	BDL	5	uG/L
Methyl-2-Pentanone.....	BDL	10	uG/L

Surrogate Recovery		
Dichloroethane-d4.....	107	% Recovery
Toluene-d8.....	101	% Recovery
4-Bromofluorobenzene.....	97	% Recovery

Heritage
Volatile Analysis - Water Method Blank
Analysis Method: SW846-8260

GC/MS VOA Data File: >2722R
Analysis Date/Time: 8/25/97 4:57

Analyte List	Result	DL	Units
Benzene	BDL	5	uG/L
Bromobenzene	BDL	5	uG/L
Bromochloromethane	BDL	5	uG/L
Bromodichloromethane	BDL	5	uG/L
Bromoform	BDL	5	uG/L
Bromomethane	BDL	5	uG/L
n-Butylbenzene	BDL	5	uG/L
tert-Butylbenzene	BDL	5	uG/L
Carbon tetrachloride	BDL	5	uG/L
Chlorobenzene	BDL	5	uG/L
Chloroethane	BDL	5	uG/L
Chloroform	BDL	5	uG/L
Chloromethane	BDL	5	uG/L
2-Chlorotoluene	BDL	5	uG/L
4-Chlorotoluene	BDL	5	uG/L
Dibromochloromethane	BDL	5	uG/L
1,2-Dibromo-3-Chloropropane	BDL	5	uG/L
1,2-Dibromoethane	BDL	5	uG/L
Dibromomethane	BDL	5	uG/L
1,2-Dichlorobenzene	BDL	5	uG/L
1,3-Dichlorobenzene	BDL	5	uG/L
1,4-Dichlorobenzene	BDL	5	uG/L
Dichlorodifluoromethane	BDL	5	uG/L
1,1-Dichloroethane	BDL	5	uG/L
1,2-Dichloroethane	BDL	5	uG/L
1,1-Dichloroethene	BDL	5	uG/L
cis-1,2-Dichloroethene	BDL	5	uG/L
trans-1,2-Dichloroethene	BDL	5	uG/L
1,2-Dichloropropane	BDL	5	uG/L
1,3-Dichloropropane	BDL	5	uG/L
2,2-Dichloropropane	BDL	5	uG/L
1,1-Dichloropropene	BDL	5	uG/L
cis-1,3-Dichloropropene	BDL	5	uG/L
trans-1,3-Dichloropropene	BDL	5	uG/L
Ethyl Benzene	BDL	5	uG/L
Hexachlorobutadiene	BDL	5	uG/L
Isopropylbenzene	BDL	5	uG/L
Dichloromethane	BDL	5	uG/L
Naphthalene	BDL	5	uG/L
N-Propylbenzene	BDL	5	uG/L
Styrene	BDL	5	uG/L
1,1,1,2-Tetrachloroethane	BDL	5	uG/L
1,1,2,2-Tetrachloroethane	BDL	5	uG/L
Tetrachloroethane	BDL	5	uG/L
Toluene	BDL	5	uG/L
1,2,3-Trichloropropane	BDL	5	uG/L
1,2,4-Trichlorobenzene	BDL	5	uG/L

Heritage
Volatile Analysis - Water Method Blank
Analysis Method: SW846-8260

GC/MS VOA Data File: >2722R
Analysis Date/Time: 8/25/97 4:57

Analyte List	Result	DL	Units
1,1,1-Trichloroethane.....	BDL	5	uG/L
1,1,2-Trichloroethane.....	BDL	5	uG/L
Trichloroethene.....	BDL	5	uG/L
Trichlorofluoromethane.....	BDL	5	uG/L
1,2,3-Trichloropropane.....	BDL	5	uG/L
1,2,4-Trimethylbenzene.....	BDL	5	uG/L
1,3,5-Trimethylbenzene.....	BDL	5	uG/L
Vinyl Chloride.....	BDL	5	uG/L
Xylenes (o/m/p-xylene).....	BDL	5	uG/L
Hexane.....	BDL	10	uG/L
Methyl-t-butyl benzene.....	BDL	5	uG/L
Methyl-2-Pentanone.....	BDL	10	uG/L

Surrogate Recovery		
Dichloroethane-d4.....	89	% Recovery
Toluene-d8.....	102	% Recovery
4-Bromofluorobenzene.....	96	% Recovery