N60200.AR.003861
NAS CECIL FIELD, FL
5090.3a

CONSTRUCTION COMPLETION REPORT FOR SUMP CLEANING/OIL AND OIL RESERVOIR REMOVAL AT BUILDING 80 NAS CECIL FIELD FL

4/1/2004

CH2MHILL CONSTRUCTORS INC

Construction Completion Report
Sump Cleaning/Oil and Oil Reservoir Removal at Building 80

Former Naval Air Station Cecil Field
Jacksonville, Florida

Revision No. 00

Contract No. N62467-98-D-0995
Contract Task Order No. 0021

Prepared by:

CH2MHILL

115 Perimeter Center Place, N.E.
Suite 700
Atlanta, GA 30346

Submitted to

Department of the Navy, Southern Division
Naval Facilities Engineering Command
2155 Eagle Drive
North Charleston, South Carolina 29406

April 2004

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115 Perimeter Center Place, N.E.
Suite 700
Atlanta, GA 30346

April 2004

Prepared/Approved By:

Michael D. Halil, Project Manager — Date

Approved By:

R. Scott Newman, Program Manager — Date

Client Acceptance:

U.S. Navy Responsible Authority — Date

CERTIFICATE OF COMPLETION

City of Jacksonville attests that, to the best of its knowledge and belief, the Sump Cleaning/Oil and Oil Reservoir Removal at Building 80 located at the former Naval Air Station Cecil Field, Jacksonville, Florida, delivered under Contract No. N62467-98-D-0995, Contract Task Order No. 0021, has been completed, inspected, and tested, and is in compliance with the contract.

_____ _____

Project Quality Control Manager Date

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Acronyms

CH2M HILL	CH2M HILL Constructors, Inc.
CTO	Contract Task Order
EPA	U.S. Environmental Protection Agency
ERS	Environmental Remediation Services
FL-PRO	Florida Petroleum Residual Organic
NAVFAC EFD SOUTH	Naval Facilities Engineering Command, Southern Division
NAS	Naval Air Station
PCB	polychlorinated biphenyl
TAL	Target Analyte List
TCL	Target Compound List
TRPH	total recoverable petroleum hydrocarbon

1.0 Introduction

CH2M HILL Constructors, Inc. (CH2M HILL) has been contracted by the Department of the Navy, Naval Facilities Engineering Command Southern Division (NAVFAC EFD SOUTH), to prepare this Construction Completion Report for work performed by CH2M HILL at Building 80 located on the former Naval Air Station (NAS) Cecil Field, Jacksonville, Florida (see Figure 1). This work was performed under Contract No. N62467-98-D-0995, Contract Task Order (CTO) No. 0021, and in accordance with the management approach outlined in the CH2M HILL Contract Management Plan (CH2M HILL, 1998), the NAS Cecil Field Basewide Work Plan, Revision No. 01 (CH2M HILL, 1998), the CTO No. 0021 Work Plan Addendum No. 16, Revision No. 00 (CH2M HILL, 2003a), and the CTO No. 0021 Work Plan Addendum No. 16, Revision No. 01 (CH2M HILL, 2003b).

The objective of this report is to provide documentation of the remediation and demolition activities associated with the sump cleaning, oil removal, and oil reservoir removal at Building 80 located on the former NAS Cecil Field in Jacksonville, Florida.

1.1 Site History

The in-ground hydraulic lift systems at Building 80 were originally addressed during NAS Cecil Field Process Closure activities in 1999 under CTO No. 0021. During the Process Closure, the seven known hydraulic lift systems were drained of polychlorinated biphenyl (PCB) containing hydraulic oil, decontaminated, and refilled to preserve the lift systems with non-PCB containing hydraulic oil.

The City of Jacksonville scheduled Building 80 for demolition in 2003. During the pre-demolition inspection, the City of Jacksonville's demolition contractor noticed that the hydraulic lift systems remained operational and oily water had collected within the sumps. In addition, a previously unknown eighth hydraulic lift system located within the building's northeast bay was discovered. The City of Jacksonville notified NAVFAC EFD SOUTH and CH2M HILL was subsequently tasked to complete sump cleaning with oil and oil reservoir removal for the eight hydraulic lift systems at Building 80.

1.2 Project Scope and Project Objectives

On March 3, 2003, CH2M HILL received technical direction from NAVFAC EFD SOUTH to complete the scope of work associated with sump cleaning with oil and oil reservoir removal for the eight hydraulic lift systems at Building 80.

The scope of work and project objectives outlined in the CTO No. 0021 Work Plan Addendum No. 16, Revision No. 01 (CH2M HILL, 2003b) included the following:

- Sample the oily water from the seven hydraulic lift systems in the main bay, the eighth in the rear bay, and the trench north of the main bay for disposal characterization laboratory analyses
- Sample the oil in the oil reservoirs for disposal characterization laboratory analyses
- Disconnect the oil lines and blow oil back into the oil reservoirs
- Remove, transport, and dispose of the oil from the reservoirs using a vacuum truck
- Remove, transport, and recycle the 30-gallon pressure vessel oil reservoirs
- Remove, transport, and dispose of oily water from the sumps using a vacuum truck
- Decontaminate the sumps by triple rinsing with a hot water pressure
- Remove, transport, and dispose of the wash water from the sumps using a vacuum truck

Figure 1
Building 80 Site Location Map

2.0 Chronology of Events and Problems Encountered

2.1 Chronology of Events

The chronology of events at the site is listed below in Table 1. Specific details describing the construction activities are found in Section 3.0 of this report.

TABLE 1
Chronology of Events

Event	Date
Work Plan Addendum No. 16, Revision No. 01 Submitted	March 27, 2003
Work Plan Addendum No. 16, Revision No. 01 Approved	March 28, 2003
Sampling of Oil and Oily Water for Disposal Characterization	March 28, 2003 and April 2, 2003
Mobilization and Site Preparation	April 7-8, 2003
Disassemble Hydraulic Lift Piping	April 8-9, 2003
Hydraulic Lift Sump Cleaning	April 8-9 and 24, 2003
Oil Reservoir Removal	April 24, 2003
Waste Transportation and Disposal	April 24, 2003
City of Jacksonville Final Inspection and Acceptance	April 24, 2003
Demobilization	April 25, 2003

2.2 Problems Encountered

No significant problems were encountered during the completion of the scope of work.

3.0 Construction Activities and Quality Control

Project participants and construction activities are summarized in this section.

3.1 Project Participants

The primary construction participants are shown below in Table 2.

TABLE 2
Organization of Construction Participants

Company	Role	Name
NAVFAC EFD SOUTH	Remedial Project Manager	Mr. Mark Davidson
CH2M HILL	Project Manager	Mr. Michael Halil Mr. Paul Malewicki
	Project Superintendent	Mr. Garnet McCurdy
	Project Quality Control Manager	Mr. Dave Keul
	Site Health and Safety Specialist	Mr. Bruce Johnson
Gulf Coast Analytical Laboratories	Offsite Laboratory Services Subcontractor	
Environmental Remediation Services (ERS)	Waste Transportation and Disposal Subcontractor	

3.2 Summary of Construction Activities

This section describes the activities related to cleaning the underground concrete sumps and removing the oil and oil reservoirs from the hydraulic lift systems at Building 80 at the former NAS Cecil Field, Jacksonville, Florida. Photographs were taken throughout the project and representative photographs are provided in Appendix A. The construction activities performed during the project were:

- Waste characterization
- Mobilization and Site Preparation
- Hydraulic Lift Piping Disassembly
- Hydraulic Lift Sump Cleaning
- Oil and Oil Reservoir Removal
- Waste Removal, Transportation, and Offsite Disposal
- Demobilization
- Preparation and Submittal of this Construction Completion Report

3.2.1 Waste Characterization

Waste characterization sampling for disposal of the hydraulic lift oil and sump water was performed by CH2M HILL on March 28, 2003 and April 2, 2003. Waste characterization sampling and analyses were completed in accordance with the Sampling Analysis Plans provided in the CTO No. 0021 Work Plan Addendum No. 16, Revision No. 00 (CH2M HILL, 2003a) and CTO No. 0021 Work Plan Addendum No. 16, Revision No. 01 (CH2M HILL, 2003b).

On March 28, 2003, one composite sample of sump water was collected from the seven sumps in the south main service bay, one grab sample of sump water was collected from the sump in the northeast service bay, and one composite sample of oil was collected from the oil reservoirs and shipped to Gulf Coast Analytical Laboratories for analysis.

On April 2, 2003, one additional grab sample of sump water was collected from the sump in the northeast service bay, one grab sample of oil was collected from the sump in the northeast service bay, and one additional composite sample of oil was collected from the oil reservoirs and shipped to Gulf Coast Analytical Laboratories for analysis.

The sump water was laboratory analyzed for the following parameters:

- Target Compound List (TCL) Volatiles by EPA Method 8260B
- TCL Semi-volatiles by EPA Method 8270C
- TCL Pesticides/Herbicides by EPA Method 8081A/8151
- Total Recoverable Petroleum Hydrocarbons by FL-PRO Method
- PCBs by EPA Method 8082
- Target Analyte List (TAL) Metals by EPA Method 6010B/7471A
- Corrosivity and Ignitability

The oil from the oil reservoirs and northeast service bay was laboratory analyzed for the following parameters:

- PCBs by EPA Method 8082
- TAL Metals by EPA Method 6010B/7471A
- Corrosivity and Ignitability

The waste characterization laboratory analytical reports are provided in Appendix D.

Following receipt of the laboratory analytical reports, waste profile packages were prepared and provided to Mr. Mitch McPherson of the NAS Jacksonville Public Works Center (PWC) for approval and signature. Copies of the signed waste profiles are provided in Appendix C.

3.2.2 Mobilization and Site Preparation

CH2M HILL completed mobilization and site preparation on April 7-8, 2003. This task included the mobilization of personnel and equipment, including a fork lift and hot water pressure washer, to the work site and establishing site controls (i.e. caution tape and construction barricades). In addition, solid debris located within Building 80 was transported and staged on site outside of the work areas.

3.2.3 Hydraulic Lift Piping Disassembly, Sump Cleaning, and Oil and Oil Reservoir Removal, Transportation, and Disposal

Hydraulic lift piping disassembly, sump cleaning, and oil and oil reservoir removal, transportation, and disposal was completed on April 8, 9, and 24, 2003. This task was completed in accordance with CTO No. 0021 Work Plan Addendum No. 16, Revision No. 01 (CH2M HILL, 2003b).

The activities associated with this task included:

- The hydraulic lift piping was disconnected by saw cutting and oil remaining in the piping was "blown back" into the oil reservoir using an air compressor.
- The oil in the oil reservoirs was evacuated with a vacuum truck.
- The piping and oil reservoirs were triple rinsed with the hot water pressure washer.
- The oil reservoirs were removed from the sumps using the fork lift.
- The sumps were triple rinsed using the hot water pressure washer until no visible staining was present.

Following decontamination and removal, the piping and oil reservoirs were turned over to the City of Jacksonville's Demolition Contractor as scrap metal.

The sump water, sump wash water, and oil were removed in separate loads by a vacuum truck provided by ERS and transported by ERS to Industrial Water Services, Inc. for disposal. Mr. Mitch McPherson of PWC provided manifest and bill of laden signature. A total of 3,000 gallons of sump water and sump wash water and 300 gallons of oil were transported and disposed. The waste profiles, manifest, and oil bill of laden are provided in Appendix C.

3.2.4 Demobilization

CH2M HILL completed demobilization on April 24-25, 2003. Mr. Mark Roberts of the City of Jacksonville completed their final inspection and acceptance on April 24, 2003. On April 25, 2003, all personnel, equipment, and site controls were removed form the site.

4.0 Final Inspection and Site Status Summary

The Navy required no final inspection, however a final inspection was conducted with the City of Jacksonville on April 24, 2004.

4.1 Participants

The following individuals participated in the final site inspection:

- CH2M HILL Project Superintendent Mr. Garnet McCurdy
- CH2M HILL Project QC Manager Mr. Dave Keul
- City of Jacksonville Representative Mr. Mark Roberts.

The City of Jacksonville's Certificate of Completion is provided in Appendix B.

4.2 Deficiencies

No deficiencies were reported during the final inspection.

4.3 Site Status Summary

The project objectives as outlined in the CTO No. 0021 Work Plan Addendum No. 16, Revision No. 01 (CH2M HILL, 2003b) were accomplished, and included:

- Sampling the oily water from the seven hydraulic lift systems in the main bay, the eighth in the rear bay, and the trench north of the main bay for disposal characterization laboratory analyses;
- Sampling the oil in the oil reservoirs for disposal characterization laboratory analyses;
- Disconnecting the oil lines and blowing the oil back into oil reservoirs;
- Removing, transporting, and disposing of 300 gallons of oil from the reservoirs using a vacuum truck;
- Decontaminating, removing, and disposing of the 30-gallon pressure vessel oil reservoirs;
- Decontaminating the sumps by triple rinsing with a hot water pressure; and
- Removing, transporting, and disposing of 3,000 gallons of oily sump water and sump wash water using a vacuum truck.

5.0 References

CH2M HILL Constructors, Inc. 1998. *Contract Management Plan for Response Action Contract No. N62467-98-D-0995*. July.

CH2M HILL Constructors, Inc. 1998. *Basewide Work Plan, Naval Air Station Cecil Field, Jacksonville, Florida. Revision No. 01*. November.

CH2M HILL Constructors, Inc. 2003. *CTO No. 0021 Work Plan Addendum No. 16, Revision No. 00, Pipeline Pigging at the Former Naval Air Station Cecil Field, Jacksonville, Florida.* January.

CH2M HILL Constructors, Inc. 2003. *CTO No. 0021 Work Plan Addendum No. 16, Revision No. 01, Sump Cleaning at Building 80 at the Former Naval Air Station Cecil Field, Jacksonville, Florida.* January. Rev. 01. March.

Appendix A
Site Photographs

1. Photo of Building 80 from the west

2. Photo of Building 80 from the west

3. South Bay Debris Relocation

4. South Bay Debris Relocation

5. South Bay Debris Relocation

6. South Bay Sliding Hydraulic Lift

7. Hydraulic Lift Oil Reservoir/Piping

8. Hydraulic Lift Oil Reservoir/Piping

9. Hydraulic Lift Oil Reservoir/Piping

10. Northeast Bay Debris

11. Northeast Bay Sump

12. Northeast Bay Sump

13. South Bay

14. Hot Water Pressure Washing Sumps

15. Hot Water Pressure Washing Sumps

16. Hot Water Pressure Washing Sumps

17. Vacuum Truck

18. Removing Oils from Reservoir

19. Cleaning Reservoirs

20. Reservoir Removal

21. Sump Oil/Water Level

22. Northeast Bay Oily Water Removal

23. South Bay Post Inspection

Appendix B
City of Jacksonville Certificate of Completion

CH2MHILL
Constructors, Inc.

CERTIFICATE OF COMPLETION

City of Jacksonville
~~CH2M HILL Constructors, Inc.~~, attests that, to the best of its knowledge and belief, the Sump cleaning / Oil and Oil Reservoir Removal at Bldg 80, Former Naval Air Station Cecil Field, Jacksonville, Florida, delivered under Contract No. N62467-98-D-0995, Contract Task Order No. 0021, has been completed, inspected, and tested, and is in compliance with the contract.

Mark [illegible]
Project Quality Control Manager

4/24/03
Date

Appendix C
Transportation and Disposal Documentation

Transportation and Disposal Log Profile Forms

Testing Plan and Log

Material Profile Forms

Field Test Summary Reports

Non-hazardous Waste Manifests

Chain-of-Custody Forms

Transportation and Disposal Log Profile Forms

CTO No	Project No	Project Name	Site Description	Container Type	Container Desig.	Waste Profile Sample No	Contractor	Transporter	Date Transported	Transporter EPA ID	Load ID	Disposal Facility	Disp Fac EPA ID	Media	Waste Type (Haz, Nonhaz, TSCA)	Waste Code/ Haz Waste No	Disposal Date	Manifest Number	Disposal Treatment Method (Enter disposal quantity under appropriate method)					Comments/ Notes	File Status (see note)
																			Incineration	Recycle	Landfill	Other	Unit		
0021	153141	PipeLine Pigging	JP-5 Pipeline	TT		JP-5	Murphy	ERS	27-Mar-03	FL984261412	1	Georgia Petroleum	GAD981222433	Fuel	Nonhaz		27-Mar-2003	13005		5000			Gallons		
0021	153141	PipeLine Pigging	JP-5 Pipeline	TT		JP-5	Murphy	ERS	28-Mar-03	FL984261412	2	Georgia Petroleum	GAD981222433	Fuel	Nonhaz		28-Mar-2003	13006		5000			Gallons		
0021	153141	PipeLine Pigging	JP-5 Pipeline	TT		JP-5	Murphy	ERS	28-Mar-03	FL984261412	3	Georgia Petroleum	GAD981222433	Fuel	Nonhaz		31-Mar-2003	13007		3381			Gallons		
0021	153141	PipeLine Pigging	JP-5 Pipeline	TT		22574	Murphy	ERS	17-Apr-03	FL984261412	4	IWS	FLD981928484	contact water	Nonhaz		17-Apr-2003	13011		5000			Gallons		
0021	153141	PipeLine Pigging	JP-5 Pipeline	TT		22574	Murphy	ERS	17-Apr-03	FL984261412	5	IWS	FLD981928484	contact water	Nonhaz		17-Apr-2003	13012		3503			Gallons		
0021	153141	PipeLine Pigging	JP-5 Pipeline	TT		22574	Murphy	ERS	24-Apr-03	FL984261412	6	IWS	FLD981928484	contact water	Nonhaz		24-Apr-03	13014		615			Gallons		
0021	153141	Bldg 80	Bldg 80, sumps	TT		22584	J.A.Jones	ERS	24-Apr-03	FL984261412	7	IWS	FLD981928484	oil	Nonhaz		24-Apr-03	13013		300			Gallons	Bill of Lading	
0021	153141	Bldg 80	Bldg 80, sumps	TT		22582 22583	J.A.Jones	ERS	24-Apr-03	FL984261412	8	IWS	FLD981928484	oily water	Nonhaz		24-Apr-03	13015		3000			Gallons		

Testing Plan and Log

Contract Number: N62467-98-D-0995	CTO No.: 0021	CTO Title: JP-5 Pippeline Pigging & Bldg-80 S	Location: Cecil Field, Jacksonville FL.

A	B	C	D	E	F	G	H	I	J	K
Spec Section and Paragraph	Test Required	Proposed Lab	Sampled By	Tested By	Test Location	Frequency	Date Test Made	Test Results	Date Results Forwarded	Remarks
	Soil Characterization									
SAP 3.4	021-PL-S-0324-03	Gulf Coast	JAJES	Gulf Coast	PL- Roll-off	Once	24-Mar-03	07-Apr-03	07-Apr-03	
	Analytical - Waste Disposal									
SAP 3.6	**Liquid Characterization**					As Required				
	021-PL-WW-0324-03	Gulf Coast	JAJES	Gulf Coast	PL-Frac Tank	"	24-Mar-03	07-Apr-03	07-Apr-03	T&D'd 04/24/03
	021-WC1-L-0328-03	Gulf Coast	JAJES	Gulf Coast	Bldg 80	"	28-Mar-03	17-Apr-03	17-Apr-03	T&D'd 04/24/03
	021-WC3-L-0328-03	Gulf Coast	JAJES	Gulf Coast	Bldg 80	"	28-Mar-03	17-Apr-03	17-Apr-03	T&D'd 04/24/03
	021-WC4-L-0328-03	Gulf Coast	JAJES	Gulf Coast	Bldg 80	"	28-Mar-03	17-Apr-03	17-Apr-03	T&D'd 04/24/03
	Pipeling Gas Free									
	Section 1	Field Tested		Murphy Pipeline	site diagram	As Required	03-Mar-03	SAT	CCR	
	Section 2	Field Tested		Murphy Pipeline	site diagram	As Required	11-Mar-03	SAT	CCR	
	Section 3	Field Tested		Murphy Pipeline	site diagram	As Required	04-Mar-03	SAT	CCR	
	Section 4 -above	Field Tested		Murphy Pipeline	site diagram	As Required	06-Mar-03	SAT	CCR	
	Section 4- 4" return	Field Tested		Murphy Pipeline	site diagram	As Required	12-Mar-03	SAT	CCR	
	Section 4 - 14" main	Field Tested		Murphy Pipeline	site diagram	As Required	13-Mar-03	SAT	CCR	
	Section 5	Field Tested		Murphy Pipeline	site diagram	As Required	10-Mar-03	SAT	CCR	
	Section 6	Field Tested		Murphy Pipeline	site diagram	As Required	14-Mar-03	SAT	CCR	

Material Profile Forms

INDUSTRIAL WATER SERVICES

MATERIAL PROFILE FORM

JACKSONVILLE (904) 354 - 0372 FAX: (904) 353 - 4033
MOBILE (251) 694 - 7500 FAX: (251) 694 - 7508
CHICAGO (773) 646 - 9700 FAX: (773) 646 - 9730

WC-5

Oil N.E Sump

Generator Name: U.S. Navy
City / State: Jacksonville, Florida
SIC / NAICS Code:
IL EPA ID #:
Name of material: Oily water
Gallons: 200 Frequency: Once
Process generating waste: Former NAS Cecil Field CTO-021, Building 80 , Cleaning of hydraulic lift sumps and oil reservoirs

Customer Name: Environmental Remediation Services
Customer Address: 760 Talleyrand Av.
City / State / Zip: Jacksonville, FL 32202
Phone #: (904)791-9992
Fax #: (904)761-9833
Technical Contact: Jayson Smith

QUESTIONNAIRE

(check one) [x] Used Oil [ ] Petroleum Contact Water [ ] Virgin Product [ ] Nonhazardous Waste

1. Is the waste hazardous by:	Ignitability?	___ Yes	x No
	Corrosivity?	___ Yes	x No
	Reactivity?	___ Yes	x No
2. Does the waste contain:	Herbicides, pesticides, insecticides?	___ Yes	x No
	Dioxins?	___ Yes	x No
	Radioactive substances?	___ Yes	x No
	Domestic wastes?	___ Yes	x No
	Biohazardous materials?	___ Yes	x No
3. Is this a hazardous waste (F, K, U, or P listed) as defined by 40 CFR 261 Subpart D?		___ Yes	x No
If yes to the above, identify the listing.			
4. Is the waste derived from outside an underground storage tank (UST)?		x Yes	___ No
5. If waste is derived from a fuel, is the fuel leaded?		x Yes	___ No

CONSTITUENTS

Does the waste contain any constituents listed in the table below? x Yes ___ No If yes, indicate the level present.
How was the level determined? X Generator Knowledge X Total laboratory analysis ___ TCLP Laboratory analysis

EPA #	Contaminant	Actual level (ppm)	EPA #	Contaminant	Actual level (ppm)
D004	ARSENIC	BDL	D032	HEXACHLOROBENZENE	
D005	BARIUM	13.3mg/kg	D033	HEXACHLOROBUTADIENE	
D018	BENZENE	BDL	D034	HEXACHLOROETHANE	
D006	CADMIUM	0.86	D008	LEAD	12.6 mg/kg
D019	CARBON TETRACHLORIDE		D013	LINDANE	
D020	CHLORDANE		D009	MERCURY	0.0065
D021	CHLOROBENZENE		D014	METHOXYCHLOR	
D022	CHLOROFORM		D035	METHYL ETHYL KETONE	
D007	CHROMIUM	2.52MG/KG	D036	NITROBENZENE	
D024	CRESOL (M)		D037	PENTACHLOROPHENOL	
D023	CRESOL (O)		D038	PYRIDINE	
D025	CRESOL (P)		D010	SELENIUM	1.19
D026	CRESOL		D011	SILVER	BDL
D016	2,4-D		D039	TETRACHLOROETHYLENE	
D027	1,4-DICHLOROBENZENE		D015	TOXAPHENE	
D028	1,2-DICHLOROETHANE		D040	TRICHLOROETHYLENE	
D029	1,1-DICHLOROETHYLENE		D041	2,4,5-TRICHLOROPHENOL	
D030	2,4-DINITROTOLUENE		D042	2,4,6-TRICHLOROPHENOL	
D012	ENDRIN		D017	2,4,5-TP (SILVEX)	
D031	HEPTACHLOR		D043	VINYL CHLORIDE	

CONSTITUENTS (continued)

(page 2)

Contaminant	Actual level (ppm)	Contaminant	Actual level (ppm)
ANTIMONY	BDL	bis 2-ETHYL HEXYL PHTHALATE	NR
COBALT	BDL	CARBAZOLE	NR
COPPER	8.64	n-DECANE	NR
MOLYBDENUM	NR	2,3-DICHLOROANILINE	NR
NICKEL	0.2	FLUORANTHENE	BDL
TIN	NR	n-OCTADECANE	BDL
TITANIUM	NR	PCB's x less than 2 mg/L ___ greater than 2 mg/L	BDL
VANADIUM	0.32	CYANIDES x less than 2 mg/L ___ greater than 2 mg/L	
ZINC	9.61	SULFIDES x less than 2 mg/L ___ greater than 2 mg/L	

PHYSICAL CHARACTERISTICS

Color Clear / brown Odor? [ ] No [x] Yes If yes, describe Fuel

pH 6.81 Flash Point (°F) >212 Total Suspended Solids (%) 0-10%

Total Organic Halogens x less than 1,000 mg/L ___ greater than 1,000 mg/L actual level ___ mg/L

Physical state: ___ solid X liquid ___ semi-solid ___ powder

Layers: ___ single phase ___ multi-layered X bi-layered

Viscosity: ___ very thin ___ thin X moderate ___ thick ___ does not pour

REPRESENTATIVE SAMPLE CERTIFICATION

Sample # 021-wc5-s-0402-03 Dirty oil fm sump Lab ID 20303310605

Sample source Actual Sump to be cleaned and pumped out Sample date 3/28/2003

Sampler name Paul Malewicki / Garnet McCurdy Title PM/SUP

Sampler employer (if other than generator): J.A. Jones Environmental Services

The sampler's signature certifies that any sample submitted is representative of the material described above pursuant to 40 CFR 261.20 (c) or equivalent rules.

Sampler signature ___

GENERATOR CERTIFICATION

By signing this profile, you certify that:

1. You are the generator or the duly authorized representative of the generator.
2. This waste is not a hazardous waste as defined by USEPA Federal Regulation, unless noted above.
3. This waste does not contain regulated materials or regulated concentrations of PCB's (polychlorinated biphenyls).
4. This sheet contains true and accurate descriptions of the material and all relevant information in your possession regarding known or suspected hazards have been disclosed.
5. The analytical data presented herein or attached hereto were derived from testing a representative sample taken in accordance with 40 CFR 261.20 (c) or equivalent rules.
6. If any changes occur in the character of the material, you will notify the Contractor prior to the Contractor removing the material.
7. If the material is PCW, there are no hazardous constituents above those found in the source of the PCW.

Generator Signature [signature] Date 4-17-03

Printed Name Mitchell B. McPherson

Title Env. Prot. Spec.

INDUSTRIAL WATER SERVICES

MATERIAL PROFILE FORM

JACKSONVILLE (904) 354 - 0372 FAX: (904) 353 - 4033
MOBILE (251) 694 - 7500 FAX: (251) 694 - 7508
CHICAGO (773) 646 - 9700 FAX: (773) 646 - 9730

WC-4

Oils

Generator Name: U.S. Navy
City / State: Jacksonville, Florida
SIC / NAICS Code:
IL EPA ID #:
Name of material: Oily water
Gallons: 500 Frequency: Once
Process generating waste: Former NAS Cecil Field CTO-021, Building 80 , Cleaning of hydraulic lift sumps and oil reservoirs

Customer Name: Environmental Remediation Services
Customer Address: 760 Talleyrand Av.
City / State / Zip: Jacksonville, FL 32202
Phone #: (904)791-9992
Fax #: (904)761-9833
Technical Contact: Jason Smith

QUESTIONNAIRE

(check one) [x] Used Oil [ ] Petroleum Contact Water [ ] Virgin Product [ ] Nonhazardous Waste

1. Is the waste hazardous by:	Ignitability?	X Yes	___ No
	Corrosivity?	___ Yes	x No
	Reactivity?	___ Yes	x No
2. Does the waste contain:	Herbicides, pesticides, insecticides?	___ Yes	x No
	Dioxins?	___ Yes	x No
	Radioactive substances?	___ Yes	x No
	Domestic wastes?	___ Yes	x No
	Biohazardous materials?	___ Yes	x No
3. Is this a hazardous waste (F, K, U, or P listed) as defined by 40 CFR 261 Subpart D?		___ Yes	x No
If yes to the above, identify the listing.			
4. Is the waste derived from outside an underground storage tank (UST)?		x Yes	___ No
5. If waste is derived from a fuel, is the fuel leaded?		x Yes	X No

CONSTITUENTS

Does the waste contain any constituents listed in the table below? X Yes ___ No If yes, indicate the level present.
How was the level determined? X Generator Knowledge X Total laboratory analysis ___ TCLP Laboratory analysis

EPA #	Contaminant	Actual level (ppm)	EPA #	Contaminant	Actual level (ppm)
D004	ARSENIC	BDL	D032	HEXACHLOROBENZENE	
D005	BARIUM	BDL	D033	HEXACHLOROBUTADIENE	
D018	BENZENE		D034	HEXACHLOROETHANE	
D006	CADMIUM	BDL	D008	LEAD	0.16
D019	CARBON TETRACHLORIDE		D013	LINDANE	
D020	CHLORDANE		D009	MERCURY	BDL
D021	CHLOROBENZENE		D014	METHOXYCHLOR	
D022	CHLOROFORM		D035	METHYL ETHYL KETONE	
D007	CHROMIUM	0.033	D036	NITROBENZENE	
D024	CRESOL (M)		D037	PENTACHLOROPHENOL	
D023	CRESOL (O)		D038	PYRIDINE	
D025	CRESOL (P)		D010	SELENIUM	
D026	CRESOL		D011	SILVER	BDL
D016	2,4-D		D039	TETRACHLOROETHYLENE	
D027	1,4-DICHLOROBENZENE		D015	TOXAPHENE	
D028	1,2-DICHLOROETHANE		D040	TRICHLOROETHYLENE	
D029	1,1-DICHLOROETHYLENE		D041	2,4,5-TRICHLOROPHENOL	
D030	2,4-DINITROTOLUENE		D042	2,4,6-TRICHLOROPHENOL	
D012	ENDRIN		D017	2,4,5-TP (SILVEX)	
D031	HEPTACHLOR		D043	VINYL CHLORIDE	

CONSTITUENTS (continued)

(page 2)

Contaminant	Actual level (ppm)	Contaminant	Actual level (ppm)
ANTIMONY	BDL	bis 2-ETHYL HEXYL PHTHALATE	BDL
COBALT	BDL	CARBAZOLE	BDL
COPPER	0.12	n-DECANE	NR
MOLYBDENUM	NR	2,3-DICHLOROANILINE	NR
NICKEL	BDL	FLUORANTHENE	BDL
TIN	NR	n-OCTADECANE	BDL
TITANIUM	NR	PCB's x less than 2 mg/L ___ greater than 2 mg/L	BDL
VANADIUM	BDL	CYANIDES x less than 2 mg/L ___ greater than 2 mg/L	
ZINC	280	SULFIDES x less than 2 mg/L ___ greater than 2 mg/L	

PHYSICAL CHARACTERISTICS

Color Clear / brown Odor? [ ] No [X] Yes If yes, describe OIL

pH 7.12 Flash Point (°F) 126 Total Suspended Solids (%) 0-10%

Total Organic Halogens x less than 1,000 mg/L ___ greater than 1,000 mg/L actual level ___ mg/L

Physical state: ___ solid X liquid ___ semi-solid ___ powder

Layers: ___ single phase ___ multi-layered X bi-layered

Viscosity: ___ very thin ___ thin X moderate ___ thick ___ does not pour

REPRESENTATIVE SAMPLE CERTIFICATION 021-wc4-L-0328-03 Clean Oil LAB # 20303310602

Sample source Actual Sump to be cleaned and pumped out Sample date 3/28/2003

Sampler name Paul Malewicki / Garnet McCurdy Title PM/SUP

Sampler employer (if other than generator): J.A. Jones Environmental Services

The sampler's signature certifies that any sample submitted is representative of the material described above pursuant to 40 CFR 261.20 (c) or equivalent rules.

Sampler signature _____

GENERATOR CERTIFICATION

By signing this profile, you certify that:

1. You are the generator or the duly authorized representative of the generator.
2. This waste is not a hazardous waste as defined by USEPA Federal Regulation, unless noted above.
3. This waste does not contain regulated materials or regulated concentrations of PCB's (polychlorinated biphenyls).
4. This sheet contains true and accurate descriptions of the material and all relevant information in your possession regarding known or suspected hazards have been disclosed.
5. The analytical data presented herein or attached hereto were derived from testing a representative sample taken in accordance with 40 CFR 261.20 (c) or equivalent rules.
6. If any changes occur in the character of the material, you will notify the Contractor prior to the Contractor removing the material.
7. If the material is PCW, there are no hazardous constituents above those found in the source of the PCW.

Generator Signature [signature] Date 4-17-03

Printed Name Mitchell B. McPherson

Title Env. Prot. Spec.

INDUSTRIAL WATER SERVICES

MATERIAL PROFILE FORM

JACKSONVILLE (904) 354 - 0372 FAX: (904) 353 - 4033
MOBILE (251) 694 - 7500 FAX: (251) 694 - 7508
CHICAGO (773) 646 - 9700 FAX: (773) 646 - 9730

WC1 7 sumps

Generator Name: U.S. Navy
City / State: Jacksonville, Florida
SIC / NAICS Code:
IL EPA ID #:
Name of material: Oily water
Gallons: 3,000 Frequency: Once
Process generating waste: Former NAS Cecil Field CTO-021, Building 80 , Cleaning of hydraulic lift sumps and oil reservoirs

Customer Name: Environmental Remediation Services
Customer Address: 760 Talleyrand Av.
City / State / Zip: Jacksonville, FL 32202
Phone #: (904)791-9992
Fax #: (904)761-9833
Technical Contact: Jayson Smith

QUESTIONNAIRE

(check one) [x] Used Oil [ ] Petroleum Contact Water [ ] Virgin Product [ ] Nonhazardous Waste

1. Is the waste hazardous by:	Ignitability?	___ Yes	x No
	Corrosivity?	___ Yes	x No
	Reactivity?	___ Yes	x No
2. Does the waste contain:	Herbicides, pesticides, insecticides?	___ Yes	x No
	Dioxins?	___ Yes	x No
	Radioactive substances?	___ Yes	x No
	Domestic wastes?	___ Yes	x No
	Biohazardous materials?	___ Yes	x No
3. Is this a hazardous waste (F, K, U, or P listed) as defined by 40 CFR 261 Subpart D?		___ Yes	x No
If yes to the above, identify the listing.			
4. Is the waste derived from outside an underground storage tank (UST)?		x Yes	___ No
5. If waste is derived from a fuel, is the fuel leaded?		x Yes	___ No

CONSTITUENTS

Does the waste contain any constituents listed in the table below? x Yes ___ No If yes, indicate the level present.
How was the level determined? ___ Generator Knowledge X Total laboratory analysis ___ TCLP Laboratory analysis

EPA #	Contaminant	Actual level (ppm)
D004	ARSENIC	BDL
D005	BARIUM	0.031
D018	BENZENE	BDL
D006	CADMIUM	BDL
D019	CARBON TETRACHLORIDE	BDL
D020	CHLORDANE	BDL
D021	CHLOROBENZENE	BDL
D022	CHLOROFORM	BDL
D007	CHROMIUM	0.01
D024	CRESOL (M)	BDL
D023	CRESOL (O)	BDL
D025	CRESOL (P)	BDL
D026	CRESOL	BDL
D016	2,4-D	BDL
D027	1,4-DICHLOROBENZENE	BDL
D028	1,2-DICHLOROETHANE	BDL
D029	1,1-DICHLOROETHYLENE	BDL
D030	2,4-DINITROTOLUENE	BDL
D012	ENDRIN	BDL
D031	HEPTACHLOR	BDL

EPA #	Contaminant	Actual level (ppm)
D032	HEXACHLOROBENZENE	BDL
D033	HEXACHLOROBUTADIENE	BDL
D034	HEXACHLOROETHANE	BDL
D008	LEAD	0.15
D013	LINDANE	
D009	MERCURY	0.00004
D014	METHOXYCHLOR	BDL
D035	METHYL ETHYL KETONE	BDL
D036	NITROBENZENE	BDL
D037	PENTACHLOROPHENOL	BDL
D038	PYRIDINE	BDL
D010	SELENIUM	BDL
D011	SILVER	BDL
D039	TETRACHLOROETHYLENE	BDL
D015	TOXAPHENE	BDL
D040	TRICHLOROETHYLENE	BDL
D041	2,4,5-TRICHLOROPHENOL	BDL
D042	2,4,6-TRICHLOROPHENOL	BDL
D017	2,4,5-TP (SILVEX)	BDL
D043	VINYL CHLORIDE	BDL

CONSTITUENTS (continued)

(page 2)

Contaminant	Actual level (ppm)
ANTIMONY	BDL
COBALT	0.0014
COPPER	0.042
MOLYBDENUM	NR
NICKEL	0.0084
TIN	NR
TITANIUM	NR
VANADIUM	BDL
ZINC	0.81

Contaminant			Actual level (ppm)
bis 2-ETHYL HEXYL PHTHALATE			BDL
CARBAZOLE			BDL
n-DECANE			NR
2,3-DICHLOROANILINE			NR
FLUORANTHENE			BDL
n-OCTADECANE			BDL
PCB's	x less than 2 mg/L	___ greater than 2 mg/L	BDL
CYANIDES	x less than 2 mg/L	___ greater than 2 mg/L	
SULFIDES	x less than 2 mg/L	___ greater than 2 mg/L	

PHYSICAL CHARACTERISTICS

Color Clear / brown Odor? [ ] No [x] Yes If yes, describe Fuel

pH 7.74 Flash Point (°F) >212 Total Suspended Solids (%) 0-10%

Total Organic Halogens x less than 1,000 mg/L ___ greater than 1,000 mg/L actual level _____ mg/L

Physical state: ___ solid X liquid ___ semi-solid ___ powder

Layers: ___ single phase ___ multi-layered X bi-layered

Viscosity: ___ very thin ___ thin X moderate ___ thick ___ does not pour

REPRESENTATIVE SAMPLE CERTIFICATION

Sample # 021-wc1-L-0328-03 water fm 7 sumps Lab ID 20303310601

Sample source Actual Sump to be cleaned and pumped out Sample date 3/28/2003

Sampler name Paul Malewicki / Garnet McCurdy Title PM/SUP

Sampler employer (if other than generator): J.A. Jones Environmental Services

The sampler's signature certifies that any sample submitted is representative of the material described above pursuant to 40 CFR 261.20 (c) or equivalent rules.

Sampler signature _____

GENERATOR CERTIFICATION

By signing this profile, you certify that:

1. You are the generator or the duly authorized representative of the generator.
2. This waste is not a hazardous waste as defined by USEPA Federal Regulation, unless noted above.
3. This waste does not contain regulated materials or regulated concentrations of PCB's (polychlorinated biphenyls).
4. This sheet contains true and accurate descriptions of the material and all relevant information in your possession regarding known or suspected hazards have been disclosed.
5. The analytical data presented herein or attached hereto were derived from testing a representative sample taken in accordance with 40 CFR 261.20 (c) or equivalent rules.
6. If any changes occur in the character of the material, you will notify the Contractor prior to the Contractor removing the material.
7. If the material is PCW, there are no hazardous constituents above those found in the source of the PCW.

Generator Signature [signature] Date 4-17-03

Printed Name Mitchell B. McPherson

Title Env. Prot. Spec.

INDUSTRIAL WATER SERVICES

JACKSONVILLE (904) 354 - 0372 FAX: (904) 353 - 4033
MOBILE (251) 694 - 7500 FAX: (251) 694 - 7508
CHICAGO (773) 646 - 9700 FAX: (773) 646 - 9730

MATERIAL PROFILE FORM

WC 3 N.E. Sump

Generator Name: U.S. Navy
City / State: Jacksonville, Florida
SIC / NAICS Code:
IL EPA ID #:
Name of material: Oily water
Gallons: 200 Frequency: Once
Process generating waste: Former NAS Cecil Field CTO-021, Building 80 , Cleaning of hydraulic lift sumps and oil reservoirs

Customer Name: Environmental Remediation Services
Customer Address: 760 Talleyrand Av.
City / State / Zip: Jacksonville, FL 32202
Phone #: (904)791-9992
Fax #: (904)761-9833
Technical Contact: Jason Smith

QUESTIONNAIRE

(check one) [ ] Used Oil [x] Petroleum Contact Water [ ] Virgin Product [ ] Nonhazardous Waste

1. Is the waste hazardous by:
   - Ignitability? ___ Yes x No
   - Corrosivity? ___ Yes x No
   - Reactivity? ___ Yes x No
2. Does the waste contain:
   - Herbicides, pesticides, insecticides? ___ Yes x No
   - Dioxins? ___ Yes x No
   - Radioactive substances? ___ Yes x No
   - Domestic wastes? ___ Yes x No
   - Biohazardous materials? ___ Yes x No
3. Is this a hazardous waste (F, K, U, or P listed) as defined by 40 CFR 261 Subpart D? ___ Yes x No
   If yes to the above, identify the listing.
4. Is the waste derived from outside an underground storage tank (UST)? x Yes ___ No
5. If waste is derived from a fuel, is the fuel leaded? ___ Yes x No

CONSTITUENTS

Does the waste contain any constituents listed in the table below? X Yes ___ No If yes, indicate the level present.
How was the level determined? ___ Generator Knowledge X Total laboratory analysis ___ TCLP Laboratory analysis

EPA #	Contaminant	Actual level (ppm)	EPA #	Contaminant	Actual level (ppm)
D004	ARSENIC	BDL	D032	HEXACHLOROBENZENE	BDL
D005	BARIUM	0.21	D033	HEXACHLOROBUTADIENE	BDL
D018	BENZENE	BDL	D034	HEXACHLOROETHANE	BDL
D006	CADMIUM	0.014	D008	LEAD	0.42
D019	CARBON TETRACHLORIDE	BDL	D013	LINDANE	
D020	CHLORDANE	BDL	D009	MERCURY	0.00047
D021	CHLOROBENZENE	3.17	D014	METHOXYCHLOR	BDL
D022	CHLOROFORM	BDL	D035	METHYL ETHYL KETONE	BDL
D007	CHROMIUM	0.03	D036	NITROBENZENE	BDL
D024	CRESOL (M)	2.65	D037	PENTACHLOROPHENOL	33.7
D023	CRESOL (O)	8.35	D038	PYRIDINE	BDL
D025	CRESOL (P)	2.65	D010	SELENIUM	BDL
D026	CRESOL	13.65	D011	SILVER	BDL
D016	2,4-D	BDL	D039	TETRACHLOROETHYLENE	BDL
D027	1,4-DICHLOROBENZENE	BDL	D015	TOXAPHENE	BDL
D028	1,2-DICHLOROETHANE	BDL	D040	TRICHLOROETHYLENE	BDL
D029	1,1-DICHLOROETHYLENE	BDL	D041	2,4,5-TRICHLOROPHENOL	BDL
D030	2,4-DINITROTOLUENE	BDL	D042	2,4,6-TRICHLOROPHENOL	BDL
D012	ENDRIN	BDL	D017	2,4,5-TP (SILVEX)	BDL
D031	HEPTACHLOR	BDL	D043	VINYL CHLORIDE	BDL

CONSTITUENTS (continued)

(page 2)

Contaminant	Actual level (ppm)	Contaminant	Actual level (ppm)
ANTIMONY	BDL	bis 2-ETHYL HEXYL PHTHALATE	BDL
COBALT	BDL	CARBAZOLE	BDL
COPPER	0.21	n-DECANE	NR
MOLYBDENUM	NR	2,3-DICHLOROANILINE	NR
NICKEL	BDL	FLUORANTHENE	BDL
TIN	41.5	n-OCTADECANE	BDL
TITANIUM	NR	PCB's x less than 2 mg/L ___ greater than 2 mg/L	BDL
VANADIUM	BDL	CYANIDES x less than 2 mg/L ___ greater than 2 mg/L	
ZINC	0.45	SULFIDES x less than 2 mg/L ___ greater than 2 mg/L	

PHYSICAL CHARACTERISTICS

Color Clear / brown Odor? [ ] No [x] Yes If yes, describe OIL

pH 6.78 Flash Point (°F) >212 Total Suspended Solids (%) 0-10%

Total Organic Halogens x less than 1,000 mg/L ___ greater than 1,000 mg/L actual level ___ mg/L

Physical state: ___ solid X liquid ___ semi-solid ___ powder

Layers: ___ single phase ___ multi-layered X bi-layered

Viscosity: ___ very thin ___ thin X moderate ___ thick ___ does not pour

REPRESENTATIVE SAMPLE CERTIFICATION 021-wc3-L-0328-03 NE Sump Lab ID # 20303310603

Sample source Actual Sump to be cleaned and pumped out Sample date 3/28/2003

Sampler name Paul Malewicki / Garnet McCurdy Title PM/SUP

Sampler employer (if other than generator): J.A. Jones Environmental Services

The sampler's signature certifies that any sample submitted is representative of the material described above pursuant to 40 CFR 261.20 (c) or equivalent rules.

Sampler signature ___

GENERATOR CERTIFICATION

By signing this profile, you certify that:

1. You are the generator or the duly authorized representative of the generator.
2. This waste is not a hazardous waste as defined by USEPA Federal Regulation, unless noted above.
3. This waste does not contain regulated materials or regulated concentrations of PCB's (polychlorinated biphenyls).
4. This sheet contains true and accurate descriptions of the material and all relevant information in your possession regarding known or suspected hazards have been disclosed.
5. The analytical data presented herein or attached hereto were derived from testing a representative sample taken in accordance with 40 CFR 261.20 (c) or equivalent rules.
6. If any changes occur in the character of the material, you will notify the Contractor prior to the Contractor removing the material.
7. If the material is PCW, there are no hazardous constituents above those found in the source of the PCW.

Generator Signature [signature] Date 4-17-03

Printed Name Mitchell B. McPherson

Title ENV. Prot. Spec.

Field Test Summary Reports

Monthly Summary Report of Field Tests

Start Date:	End Date:	Submitted Date:	
04 /01/03	04/30/03	04/28/03	
Contract Number:	CTO No.:	CTO Title:	Location:
Navy Contract # N62467-98-D-0995	CTO 0021	JP-5 Pipeline Pigging / Bldg 80 sumps	NAS Cecil Field, FL

A	B	C	D
Type of Test Required	Date of Test	Reporting Laboratory	Test Results
021-WC3-L-0328-03	04/02/03	Gulf Coast	Profiled for disposal / Recycled 04/24/03
021-WC4-L-0328-03	04/02/03	Gulf Coast	Profiled for disposal / Recycled 04/24/03
021-WC5-S-0402-03	04/02/03	Gulf Coast	Profiled for disposal / Recycled 04/24/03

Non-hazardous Waste Manifests

INDUSTRIAL WATER SERVICES

Corporate Office
1010 East Adams St. • Jacksonville, FL 32202
P.O. Box 43369 • Jacksonville, FL 32203
Phone: (904) 354-0372 • (800) 447-3592
Fax: (904) 350-1313 • www.iwsww.com

CERTIFICATE OF COMPLIANCE AND DISPOSAL

Generator: U.S. Navy – NAS Jacksonville
Site Location: Building #80, Jacksonville, FL
ERS project number: 4327

This certifies that on the 24th of April 2003; 300 gallons of non-hazardous off-spec hydraulic oil, as described on manifest number 13013, was disposed of and/or recycled in compliance with all applicable state, federal and local regulations under Industrial User Permit Number ISN 019.

Facility Name:	Industrial Water Services, Inc.
Facility Address:	1640 Talleyrand Avenue Jacksonville, FL
Facility EPA ID#:	FLD 981 928 484
Certified By:	Leslie Detlefsen
Signature:	Leslie Detlefsen
Date:	December 19, 2003

STRAIGHT BILL OF LADING – SHORT FORM – Original – Not Negotiable

PWC 15013

Shipper's No. Not Required.

(Carrier) Environmental Remediation Services, Inc. SCAC. _____ Carrier's No. FLD984261412

Received, subject to the classifications and tariffs in effect on the date of this Bill of Lading:

at Bldg. 80 Cecil Commerce Center, date 4-24-03 from US Navy

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own road or its own water line, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained (as specified in Appendix B to Part 1035) which are hereby agreed to by the shipper and accepted for himself and his assigns.

TO: (Mail or street address of consignee for purposes of notification only.)	FROM:
Consignee: Industrial Water Services, Inc.	Shipper: US Navy- NAS Jacksonville
Street: 1640 Talleyrand Avenue	Street: PWC- Box 30, Code 331
Destination: Jacksonville, Florda Zip 32206	Origin: Jacksonville, Florida Zip 32212
Route:	MITCH McPherson (904) 542-5979

Delivering Carrier: Environmental Remediation Services, Inc. | Trailer Initial/Number | U.S. DOT Hazmat Reg. Number 070996-851-022E

No. of packages	HM	Description of articles, special marks, and exceptions	Hazard Class	I.D. Number	Packing Group	Weight (subject to correction)	Class or rate	Labels required (or exemption)	Check column
001	X	Off Spec-Hydraulic Oil, Flammable Liquids	3	1993	III	300	G	FLAMMABLE	
		Approval # 022584							
		Rec'd by Twis 4/24/03							

Remit C.O.D. to:
Address:
City: State: Zip:

COD AMT: $

Charges Advanced $

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of consignor)

C. O. D. FEE: Prepaid ☐ Collect ☐ $

FREIGHT CHARGES ☐ Prepaid ☐ Collect

"If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight". Note. – Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

PLACARDS REQUIRED

PLACARDS SUPPLIED ☐ YES ☒ NO - FURNISHED BY CARRIER

DRIVER'S SIGNATURE:

SPECIAL INSTRUCTIONS: Approval # 022584

SHIPPER: US NAVY
PER: MITCHELL J. McPherson DATE: 4/24/03
Permanent post office address of shipper

CARRIER: ERS
PER: [signature] DATE: 4-24-03

EMERGENCY RESPONSE TELEPHONE NUMBER: (904) 791-9992
Monitored at all times the Hazardous Material is in transportation including storage incidental to transportation (§172.604).

9-BLS-C3 (Rev. 6/95)

INDUSTRIAL WATER SERVICES

Corporate Office
1010 East Adams St. • Jacksonville, FL 32202
P.O. Box 43369 • Jacksonville, FL 32203
Phone: (904) 354-0372 • (800) 447-3592
Fax: (904) 350-1313 • www.iwsww.com

CERTIFICATE OF COMPLIANCE AND DISPOSAL

Generator: U.S. Navy – NAS Jacksonville
Site Location: Building #80, Jacksonville, FL
ERS project number: 4356

This certifies that on the 24th of April 2003; 3,000 gallons of non-hazardous oily wastewater, as described on manifest number 13015, was disposed of and/or recycled in compliance with all applicable state, federal and local regulations under Industrial User Permit Number ISN 019.

Facility Name:	Industrial Water Services, Inc.
Facility Address:	1640 Talleyrand Avenue Jacksonville, FL
Facility EPA ID#:	FLD 981 928 484
Certified By:	Leslie Detlefsen
Signature:	Leslie Detlefsen
Date:	December 19, 2003

12123 South Stony Island Avenue
Chicago, IL 60633
(773) 646-9700
Fax: (773) 646-9730

1640 Talleyrand Avenue
Jacksonville, FL 32206
(904) 354-0372
Fax: (904) 353-4033

1980 Avenue "A"
Mobile, AL 36615
(251) 694-7500
Fax: (251) 694-7508

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: Not Required
Manifest Document No.: 13015
2. Page 1 of 1

GENERATOR

3. Generator's Name and Mailing Address
US Navy MITCH McPherson
(PWC) Box 30, Code 331, NAS Jacksonville, Jacksonville, Florida 32212

4. Generator's Phone ( )

5. Transporter 1 Company Name: Environmental Remediation Svc.
6. US EPA ID Number: F L D 9 8 4 2 6 1 4 1 2
A. Transporter's Phone: 904/791-9992

7. Transporter 2 Company Name:
8. US EPA ID Number:
B. Transporter's Phone:

9. Designated Facility Name and Site Address
Industrial Water Services
1640 Talleyrand Ave.
Jacksonville, Florida 32206
10. US EPA ID Number: F L D 9 8 1 9 2 8 4 8 4
C. Facility's Phone: 904/354-0372

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Non-Hazardous Oily Waste Water	001	TT	3000.	G
b. N/A				
c. N/A				
d. N/A				

D. Additional Descriptions for Materials Listed Above: N/A

E. Handling Codes for Wastes Listed Above: N/A

15. Special Handling Instructions and Additional Information

Bldg-80

ERS Project No.4356
ERS Manifest No: 13015

Approval # 022582
Approval # 022583
~~Approval # 022584~~

Emergency Contact: Environmental Remediation Services, Inc. (904)791-9992

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: MITCHELL B. McPherson
Signature:
Month Day Year: 04 24 03

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: T. McGee
Signature:
Month Day Year: 4 24 03

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name:
Signature:
Month Day Year:

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name:
Signature:
Month Day Year: 4 24 03

ORIGINAL - RETURN TO GENERATOR

Chain-of-Custody Forms

CH2M 14280

CH2M Hill Constructors, Inc.
115 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No (770) 604-9182 ; Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

PROJECT NAME:	PROJECT NUMBER:	LAB NAME AND CONTACT:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No. , and
Bldg 80 - Former NAS Cecil Field	153141	Gulf Coast Labs. Dana Merril	Paul Malewicki J.A. Jones Environmental Services	6219 Authority Ave. Building 1 Jacksonv... Ph:(904) 7774812 Fax: (904) 7774262
PROJECT PHASE/SITE/TASK:	CTO OR DO NUMBER:	LAB PO NUMBER:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No. , and Fax No.):
Bldg 80 - Waste Characteriztion	0021		Christelle Newsome / CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 Ph:(770)604-9182 Ext.561 Fax:604-9282
PROJECT CONTACT:	PROJECT TEL NO AND FAX NO:	LAB TEL NO AND FAX NO:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No. , and Fax No.):
Paul Malewicki J.A. Jones Environmental	Ph:(904)777-4812 Fax:(904) 777-4262	Ph:(225) 769-4900		

ANALYSES REQUIRED (Include Method Numbers)

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	TCL Volatiles by 8260 B	TCL Semi-volatiles by 8270C	TCL Pesticides by 8081A	TCL Herbicides by 8151A	TPH by FL-PRO	TAL Metals by 6010B/7470A	Ignightability 1010	Corrosivity 9045C	PCB's 8082		SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	021-WC1-L-0328-03	Main service bay sumps	L	03/28/03	13:48	III/B	7 Day	3	1	1	1	1	1	1	1	1		Composite	Free Product In Samples	3/3L01
	021-TB3	Temp blank	W																203033101601	
5																				
6																				
7																				
8																				
9																				
10																				

SAMPLER(S) AND COMPANY: (please print)	COURIER AND SHIPPING NUMBER:	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
Garnet McCurdy / Paul Malawiki J.A. Jones Environmental Services	Federal Express Tracking # 7922.1820.7913	4°C Good

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature: P. Malewicki Paul Malewicki	3/28/2003	17:00	Printed Name and Signature: Federal Express	3/28/2003	17:00
Printed Name and Signature:			Printed Name and Signature: Don Ponill	3-29-03	1050
Printed Name and Signature: Don Ponill	3-29-03	1215	Printed Name and Signature: Cooler	3-29-03	1215

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Cooler 3-29-03 1215 Judi Smith 3/30/03 0730

000252

CH2M Hill / 4380 / 203033/06 / Due 4-5-03

CH2M Hill Constructors, Inc.
115 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No (770) 604-9182 ; Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER: **153141-005A**

PROJECT NAME:	PROJECT NUMBER:	LAB NAME AND CONTACT:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No. , and Fax No.):
Bldg 80 - Former NAS Cecil Field	153141	Gulf Coast Labs. Dana Merril	Paul Malewicki J.A. Jones Environmental Services	6219 Authority Ave. Building 1 Jacksonville, FL 32221 Ph:(904) 7774812 Fax: (904) 7774262
PROJECT PHASE/SITE/TASK:	CTO OR DO NUMBER:	LAB PO NUMBER:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No. , and Fax No.):
Bldg 80 - Waste Characteriztion	0021		Christelle Newsome / CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 Ph:(770)604-9182 Ext.561 Fax:604-9282
PROJECT CONTACT:	PROJECT TEL NO AND FAX NO:	LAB TEL NO AND FAX NO:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No. , and Fax No.):
Paul Malewicki J.A. Jones Environmental	Ph:(904)777-4812 Fax:(904) 777-4262	Ph:(225) 769-4900		

ANALYSES REQUIRED (Include Method Numbers)

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	TCL Volatiles by 8260 B	TCL Semi-volatiles by 8270C	TCL Pesticides by 8081A	TCL Herbicides by 8151A	TPH by FL-PRO	TAL Metals by 6010B/7470A	Ignitability 1010	Corrosivity 9045C	PCB's 8082		SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	021-WC4-L-0328-03	Oil from Reservoirs	L	04/02/03	12:53	III/B	7 Day						1					Composit	Additional Sample as requested	3/31-02
2																			203033106	
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				

SAMPLER(S) AND COMPANY: (please print)	COURIER AND SHIPPING NUMBER:	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
Garnet McCurdy / Paul Malewicki J.A. Jones Environmental Services	Federal Express Tracking # 7913-4103-9090	5°C Good

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature: P. Malewicki Paul Malewicki	4/2/2003	1:30	Printed Name and Signature: Federal Express	4/2/2003	2:00
Printed Name and Signature: Fed. Ex. 7913 4103 9090	4-3-03	0900	Printed Name and Signature: Daria Hayden Daria Hayden	4-3-03	0900
Printed Name and Signature:			Printed Name and Signature:		

Distribution: [ ] **Original** - Laboratory (To be returned with Analytical Report); [ ] **Copy 1** - Project File; [ ] **Copy 2** - PMO

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0002254

CH2M/14380/20303 5106 / due 4-5-03

CH2M Hill Constructors, Inc.
115 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No (770) 604-9182 ; Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER
153141-005

PROJECT NAME:	PROJECT NUMBER:	LAB NAME AND CONTACT:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No. , and Fax No.):
Bldg 80 - Former NAS Cecil Field	153141	Gulf Coast Labs. Dana Merril	Paul Malewicki J.A. Jones Environmental Services	6219 Authority Ave. Building 1 Jacksonville, FL 32221 Ph:(904) 7774812 Fax: (904) 7774262
PROJECT PHASE/SITE/TASK:	CTO OR DO NUMBER:	LAB PO NUMBER:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No. , and Fax No.):
Bldg 80 - Waste Characteriztion	0021		Christelle Newsome / CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 Ph:(770)604-9182 Ext.561 Fax:604-9282
PROJECT CONTACT:	PROJECT TEL NO AND FAX NO:	LAB TEL NO AND FAX NO:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No. , and Fax No.):
Paul Malewicki J.A. Jones Environmental	Ph:(904)777-4812 Fax:(904) 777-4262	Ph:(225) 769-4900		

ANALYSES REQUIRED (Include Method Numbers)

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	TCL Volatiles by 8260 B	TCL Semi-volatiles by 8270C	TCL Pesticides by 8081A	TCL Herbicides by 8151A	TPH by FL-PRO	TAL Metals by 6010B/7470A	Ignightability 1010	Corrosivity 9045C	PCB's 8082		SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	021-WC4-L-0328-03	Oil from Reservoirs	L	03/28/03	14:30	III/B	7 Day						1	1	1	1		Composit	Hydraulic Oil	9/31 02
2	021-TB5	Temp blank	W																303-03310403	
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				

SAMPLER(S) AND COMPANY: (please print)	COURIER AND SHIPPING NUMBER:	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
Garnet McCurdy / Paul Malewicki J.A. Jones Environmental Services	Federal Express Tracking # 7922 1820 7990	4°C Good

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature: P. Malewicki Paul Malewicki	3/28/2003	17:00	Printed Name and Signature: Federal Express	3/28/2003	17:00
Printed Name and Signature:			Printed Name and Signature: Don Powell	3-29-03	1050
Printed Name and Signature: Don Powell	3-29-03	1215	Printed Name and Signature: Coder	3-29-03	1215

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000253

Coder 3-29-03 1215 Judi Smith 3/30/03 0730

CH2M/4389/203033106/Due 4-5-03

CH2M Hill Constructors, Inc.
115 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No (770) 604-9182 ; Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER
153141-004

PROJECT NAME:	PROJECT NUMBER:	LAB NAME AND CONTACT:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No. , and Fax No.):
Bldg 80 - Former NAS Cecil Field	153141	Gulf Coast Labs. Dana Merril	Paul Malewicki J.A. Jones Environmental Services	6219 Authority Ave. Building 1 Jacksonville, FL 32221 Ph:(904) 7774812 Fax: (904) 7774262
PROJECT PHASE/SITE/TASK:	CTO OR DO NUMBER:	LAB PO NUMBER:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No. , and Fax No.):
Bldg 80 - Waste Characteriztion	0021		Christelle Newsome / CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 Ph:(770)604-9182 Ext.561 Fax:604-9282
PROJECT CONTACT:	PROJECT TEL NO AND FAX NO:	LAB TEL NO AND FAX NO:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No. , and Fax No.):
Paul Malewicki J.A. Jones Environmental	Ph:(904)777-4812 Fax:(904) 777-4262	Ph:(225) 769-4900		

ANALYSES REQUIRED (Include Method Numbers)

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	TCL Volatiles by 8260 B	TCL Semi-volatiles by 8270C	TCL Pesticides by 8081A	TCL Herbicides by 8151A	TPH by FL-PRO	TAL Metals by 6010B/7470A	Ignitability 1010	Corrosivity 9045C	PCB's 8082		SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	021-WC3-L-0328-03	North East service bay	L	03/28/03	14:10	III/B	7 Day	3	1	1	1	1	1	1	1	1		Grab	Waste liquids	3/31-03
2	021-TB4	Temp blank	W																203033106 03	
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				

SAMPLER(S) AND COMPANY: (please print)	COURIER AND SHIPPING NUMBER:	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
Garnet McCurdy / Paul Malawiki Randy Dumaop / Sean Smith J.A. Jones Environmental Services	Federal Express Tracking # 7922 1820 7854	4°C

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature: P. Malawiki Paul Malewicki	3/28/2003	17:00	Printed Name and Signature: Federal Express	3/28/2003	17:00
Printed Name and Signature:			Printed Name and Signature: Don Powell	3-29-03	1050
Printed Name and Signature: Don Powell	3-29-03	1215	Printed Name and Signature: Cooler	3-29-03	1215
Cooler	3-29-03	1215	Judi Smith	3/30/03	0730

Distribution:[ ] Original - Laboratory (To be returned with Analytical Report);[ ] Copy 1 - Project File; [ ] Copy 2 - PMO

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CH2m Hill / 4380 / 203033106 / Due 4-5-03

CH2M Hill Constructors, Inc.
115 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No (770) 604-9182 ; Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER: **153141-004A**

PROJECT NAME:	PROJECT NUMBER:	LAB NAME AND CONTACT:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No. , and Fax No.):
Bldg 80 - Former NAS Cecil Field	153141	Gulf Coast Labs. Dana Merril	Paul Malewicki J.A. Jones Environmental Services	6219 Authority Ave. Building 1 Jacksonville, FL 32221 Ph:(904) 7774812 Fax: (904) 7774262
PROJECT PHASE/SITE/TASK:	CTO OR DO NUMBER:	LAB PO NUMBER:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No. , and Fax No.):
Bldg 80 - Waste Characteriztion	0021		Christelle Newsome / CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 Ph:(770)604-9182 Ext.561 Fax:604-9282
PROJECT CONTACT:	PROJECT TEL NO AND FAX NO:	LAB TEL NO AND FAX NO:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No. , and Fax No.):
Paul Malewicki J.A. Jones Environmental	Ph:(904)777-4812 Fax:(904) 777-4262	Ph:(225) 769-4900		

ANALYSES REQUIRED (Include Method Numbers)

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	TCL Volatiles by 8260 B	TCL Semi-volatiles by 8270C	TCL Pesticides by 8081A	TCL Herbicides by 8151A		TAL Metals by 6010B/7470A	Ignitability 1010	Corrosivity 9045C	PCB's 8082	TPH by FL-PRO	SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	021-WC3-L-0328-03	North East Sump	L	04/02/03	1:00	III/B	7 Day	4									1	Grab	Additional sample as requested 4- 1 liter	3/31-04
2																			203033106 04	
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				

SAMPLER(S) AND COMPANY: (please print)	COURIER AND SHIPPING NUMBER:	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
Garnet McCurdy / Paul Malawiki J.A. Jones Environmental Services	Federal Express Tracking # 7913-4103-9090	5°C Good

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature: P. Malewicki Paul Malewicki	4/2/2003	1300	Printed Name and Signature: Federal Express	4/2/2003	2:00
Printed Name and Signature: Fed.Ex. 791341039090	4-3-03	0900	Printed Name and Signature: Daria Hayden Daria Hayden	4-3-03	0900
Printed Name and Signature:			Printed Name and Signature:		

Distribution: [ ] Original - Laboratory (To be returned with Analytical Report); [ ] Copy 1 - Project File; [ ] Copy 2 - PMO

Form CCI001, Rev 02/00

000256

CH2M Hill / 14380 / 203033106 / Due 4-5-03

CH2M Hill Constructors, Inc.
115 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No (770) 604-9182 ; Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER: **153141-006**

PROJECT NAME:	PROJECT NUMBER:	LAB NAME AND CONTACT:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No. , and Fax No.):
Bldg 80 - Former NAS Cecil Field	153141	Gulf Coast Labs. Dana Merril	Paul Malewicki J.A. Jones Environmental Services	6219 Authority Ave. Building 1 Jacksonville, FL 32221 Ph:(904) 7774812 Fax: (904) 7774262
PROJECT PHASE/SITE/TASK:	CTO OR DO NUMBER:	LAB PO NUMBER:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No. , and Fax No.):
Bldg 80 - Waste Characteriztion	0021		Christelle Newsome / CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 Ph:(770)604-9182 Ext.561 Fax:604-9282
PROJECT CONTACT:	PROJECT TEL NO AND FAX NO:	LAB TEL NO AND FAX NO:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No. , and Fax No.):
Paul Malewicki J.A. Jones Environmental	Ph:(904)777-4812 Fax:(904) 777-4262	Ph:(225) 769-4900		

ANALYSES REQUIRED (Include Method Numbers)

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	TCL Volatiles by 8260 B	TCL Semi-volatiles by 8270C	TCL Pesticides by 8081A	TCL Herbicides by 8151A	TPH by FL-PRO	TAL Metals by 6010B/7470A	Ignightability 1010	Corrosivity 9045C	PCB's 8082		SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	021-WC5-S-0402-03	Dirty Oil from Sump	S	04/02/03	1:00	III/B	7 Day						2					Grab	Dity Oil from N.E. Sump	3/31-05
2	021-TB5	Temp Blank	W			III/B	7 Day												203033106 08	
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				

SAMPLER(S) AND COMPANY: (please print)	COURIER AND SHIPPING NUMBER:	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
Garnet McCurdy / Paul Malewicki J.A. Jones Environmental Services	Federal Express Tracking # 7913-4103-9090	5°C Good

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature: P. Malewicki Paul Malewicki	4/2/2003	1:00	Printed Name and Signature: Federal Express	4/2/2003	2:00
Printed Name and Signature: Fed. Ex. 7913 4103 9090	4-3-03	0900	Printed Name and Signature: Dana Hayden Dana Hayden	4-3-03	0900
Printed Name and Signature:			Printed Name and Signature:		

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Form CC1001, Rev 02/00

000257

Appendix D
Waste Characterization Analytical Laboratory Reports

NELAP CERTIFICATE NUMBER 01955

GULF COAST
ANALYTICAL LABORATORIES, INC.

ANALYTICAL RESULTS

PERFORMED BY

GULF COAST ANALYTICAL LABORATORIES, INC.

Report Date: 04/14/2003

GCAL REPORT NO.: 203033106

Deliver To:	CH2M HILL Constructors Inc. 115 Perimeter Center Place Suite 700 Atlanta, GA 30346 770-604-9182 Ext. 614
Attn:	Melissa Aycock

CUSTOMER NAME: CH2M HILL Constructors Inc.

PROJECT NAME: N.A.S. Cecil Field

REVISED
DATE 07/28/03

000001
ADDITION

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

021-WC1-L-0328-03MS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203033106

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 91471

Level: (low/med) LOW Lab File ID: 2030402/S8153M

% Moisture: not dec. Date Collected: 03/28/03 Time: 1348

GC Column: DB-624-30M ID: .53 (mm Date Received: 03/29/03

Instrument ID: MSV1 Date Analyzed: 04/02/03 Time: 1308

Soil Extract Volume: (µL Dilution Factor: 1 Analyst: KRV

Soil Aliquot Volume: (µL

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT		MDL	RL
71-55-6	1,1,1-Trichloroethane	21.4		0.204	5.00
79-34-5	1,1,2,2-Tetrachloroethane	21.4		0.200	0.200
79-00-5	1,1,2-Trichloroethane	28.4		0.333	5.00
75-34-3	1,1-Dichloroethane	22.8		0.122	5.00
75-35-4	1,1-Dichloroethene	24.5		0.357	5.00
120-82-1	1,2,4-Trichlorobenzene	19.9		0.405	5.00
96-12-8	1,2-Dibromo-3-chloropropane	22.4		0.200	0.200
106-93-4	1,2-Dibromoethane	24.3		0.116	0.200
95-50-1	1,2-Dichlorobenzene	20.3		0.221	5.00
107-06-2	1,2-Dichloroethane	24.2		0.277	3.00
78-87-5	1,2-Dichloropropane	23.8		0.341	5.00
541-73-1	1,3-Dichlorobenzene	22.1		0.320	5.00
106-46-7	1,4-Dichlorobenzene	19.6		0.295	5.00
78-93-3	2-Butanone	23.9		0.641	10.0
591-78-6	2-Hexanone	26.3		0.443	10.0
108-10-1	4-Methyl-2-pentanone	24.1		0.252	10.0
67-64-1	Acetone	22.4		2.36	10.0
71-43-2	Benzene	22.2		0.100	1.00
75-27-4	Bromodichloromethane	21.4		0.102	0.600
75-25-2	Bromoform	25.6		0.140	4.00
74-83-9	Bromomethane	21.5		0.330	5.00
75-15-0	Carbon disulfide	23.2		0.180	5.00
56-23-5	Carbon tetrachloride	22.7		0.161	3.00
108-90-7	Chlorobenzene	23.5		0.157	5.00
75-00-3	Chloroethane	22.9		0.237	5.00
67-66-3	Chloroform	23.0		0.140	5.00
74-87-3	Chloromethane	23.7		0.393	2.70
110-82-7	Cyclohexane	19.7		0.169	5.00
124-48-1	Dibromochloromethane	26.7		0.105	0.400
75-71-8	Dichlorodifluoromethane	22.4		0.228	5.00
10061-01-5	cis-1,3-Dichloropropene	22.6		0.128	5.00
10061-02-6	trans-1,3-Dichloropropene	27.3		0.329	5.00
100-41-4	Ethylbenzene	23.3		0.312	5.00

FORM I VOA

REVISED
DATE 07/28/03

000014A
ADDITION

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

021-WC1-L-0328-03MS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203033106

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 91471

Level: (low/med) LOW Lab File ID: 2030402/S8153M

% Moisture: not dec. Date Collected: 03/28/03 Time: 1348

GC Column: DB-624-30M ID: .53 (mm Date Received: 03/29/03

Instrument ID: MSV1 Date Analyzed: 04/02/03 Time: 1308

Soil Extract Volume: (µL Dilution Factor: 1 Analyst: KRV

Soil Aliquot Volume: (µL

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT		MDL	RL
98-82-8	Isopropylbenzene (Cumene)	20.4		0.246	5.00
79-20-9	Methyl Acetate	17.4		5.00	5.00
108-87-2	Methylcyclohexane	19.0		5.00	5.00
75-09-2	Methylene chloride	21.9		0.613	5.00
100-42-5	Styrene	22.1		0.173	5.00
127-18-4	Tetrachloroethene	22.4		0.269	3.00
108-88-3	Toluene	25.3		0.152	5.00
79-01-6	Trichloroethene	21.0		0.323	3.00
75-69-4	Trichlorofluoromethane	24.0		0.192	5.00
76-13-1	Trichlorotrifluoroethane	20.9		0.193	5.00
75-01-4	Vinyl chloride	24.7		0.177	1.00
1330-20-7	Xylene (total)	65.4		0.507	5.00
156-59-2	cis-1,2-Dichloroethene	23.4		0.151	5.00
1634-04-4	tert-Butyl methyl ether (MTBE)	26.3		0.122	5.00
156-60-5	trans-1,2-Dichloroethene	23.7		0.192	5.00

REVISED

DATE 07/28/03

FORM I VOA

000014 B

ADDITION

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

021-WC1-L-0328-03MSD

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203033106

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 91472

Level: (low/med) LOW Lab File ID: 2030402/S8155M

% Moisture: not dec. Date Collected: 03/28/03 Time: 1348

GC Column: DB-624-30M ID: .53 (mm Date Received: 03/29/03

Instrument ID: MSV1 Date Analyzed: 04/02/03 Time: 1358

Soil Extract Volume: (µL Dilution Factor: 1 Analyst: KRV

Soil Aliquot Volume: (µL

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT		MDL	RL
98-82-8	Isopropylbenzene (Cumene)	18.0		0.246	5.00
79-20-9	Methyl Acetate	18.6		5.00	5.00
108-87-2	Methylcyclohexane	14.6		5.00	5.00
75-09-2	Methylene chloride	24.7		0.613	5.00
100-42-5	Styrene	22.7		0.173	5.00
127-18-4	Tetrachloroethene	21.6		0.269	3.00
108-88-3	Toluene	26.9		0.152	5.00
79-01-6	Trichloroethene	22.2		0.323	3.00
75-69-4	Trichlorofluoromethane	24.7		0.192	5.00
76-13-1	Trichlorotrifluoroethane	20.4		0.193	5.00
75-01-4	Vinyl chloride	26.1		0.177	1.00
1330-20-7	Xylene (total)	65.3		0.507	5.00
156-59-2	cis-1,2-Dichloroethene	25.2		0.151	5.00
1634-04-4	tert-Butyl methyl ether (MTBE)	27.9		0.122	5.00
156-60-5	trans-1,2-Dichloroethene	25.2		0.192	5.00

REVISED

DATE 07/28/03

FORM I VOA

000014D

ADDITION

3A

WATER VOLATILE MS/MSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203033106

Matrix Spike - EPA Sample No: 021-VVC1-L-0328-03

SAMPLE NO. : 91471

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	MS CONCENTRATION	MS % REC	#	QC. LIMITS
1,1,1-Trichloroethane	ug/L	25	0	21.4	86		45 - 152
1,1,2,2-Tetrachloroethane	ug/L	25	0	21.4	86		55 - 153
1,1,2-Trichloroethane	ug/L	25	0	28.4	114		73 - 144
1,1-Dichloroethane	ug/L	25	0	22.8	91		75 - 127
1,1-Dichloroethene	ug/L	25	0	24.5	98		61 - 145
1,2,4-Trichlorobenzene	ug/L	25	0	19.9	80		60 - 148
1,2-Dibromo-3-chloropropane	ug/L	25	0	22.4	90		58 - 148
1,2-Dibromoethane	ug/L	25	0	24.3	97		74 - 140
1,2-Dichlorobenzene	ug/L	25	0	20.3	81		67 - 142
1,2-Dichloroethane	ug/L	25	0	24.2	97		79 - 134
1,2-Dichloropropane	ug/L	25	0	23.8	95		77 - 129
1,3-Dichlorobenzene	ug/L	25	0	22.1	88		65 - 143
1,4-Dichlorobenzene	ug/L	25	0	19.6	78		68 - 142
2-Butanone	ug/L	25	0	23.9	96		60 - 140
2-Hexanone	ug/L	25	0	26.3	105		71 - 166
4-Methyl-2-pentanone	ug/L	25	0	24.1	96		64 - 159
Acetone	ug/L	25	0	22.4	90		58 - 165
Benzene	ug/L	25	0	22.2	89		76 - 127
Bromodichloromethane	ug/L	25	0	21.4	86		76 - 128
Bromoform	ug/L	25	0	25.6	102		67 - 145
Bromomethane	ug/L	25	0	21.5	86		73 - 147
Carbon disulfide	ug/L	25	0	23.2	93		37 - 155
Carbon tetrachloride	ug/L	25	0	22.7	91		70 - 140
Chlorobenzene	ug/L	25	0	23.5	94		75 - 130
Chloroethane	ug/L	25	0	22.9	92		76 - 160
Chloroform	ug/L	25	0	23	92		80 - 124
Chloromethane	ug/L	25	0	23.7	95		71 - 120
Cyclohexane	ug/L	25	0	19.7	79		40 - 170
Dibromochloromethane	ug/L	25	0	26.7	107		43 - 159
Dichlorodifluoromethane	ug/L	25	0	22.4	90		70 - 127
Ethylbenzene	ug/L	25	0	23.3	93		75 - 138
Isopropylbenzene (Cumene)	ug/L	25	0	20.4	82		66 - 151
Methyl Acetate	ug/L	25	0	17.4	70		40 - 170
Methylcyclohexane	ug/L	25	0	19	76		40 - 170
Methylene chloride	ug/L	25	0	21.9	88		74 - 130
Styrene	ug/L	25	0	22.1	88		75 - 139
Tetrachloroethene	ug/L	25	0	22.4	90		75 - 140
Toluene	ug/L	25	0	25.3	101		76 - 125

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 48 outside limits

Spike Recovery: 1 out of 96 outside limits

REVISED

DATE 09/28/05

FORM III VOA-1

000017A

ADDITION

3A

WATER VOLATILE MS/MSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203033106

Matrix Spike - EPA Sample No: 021-VVC1-L-0328-03

Trichloroethene	ug/L	25	0	21	84		71 - 120
Trichlorofluoromethane	ug/L	25	0	24	96		71 - 131
Trichlorotrifluoroethane	ug/L	25	0	20.9	84		40 - 170
Vinyl chloride	ug/L	25	0	24.7	99		68 - 127
Xylene (total)	ug/L	75	0	65.4	87		68 - 143
cis-1,2-Dichloroethene	ug/L	25	0	23.4	94		78 - 124
cis-1,3-Dichloropropene	ug/L	25	0	22.6	90		73 - 128
tert-Butyl methyl ether (MTBE)	ug/L	25	0	26.3	105		40 - 170
trans-1,2-Dichloroethene	ug/L	25	0	23.7	95		72 - 134
trans-1,3-Dichloropropene	ug/L	25	0	27.3	109		17 - 183

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 48 outside limits

Spike Recovery: 1 out of 96 outside limits

REVISED

DATE 07/28/03

FORM III VOA-1

000017 B

ADDITION

3A

WATER VOLATILE MS/MSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203033106

Matrix Spike - EPA Sample No: 021-VVC1-L-0328-03

SAMPLE NO. : 91472

COMPOUND	UNITS	SPIKE ADDED	MSD CONC.	MSD % REC	#	% RPD	#	QC. LIMITS REC	QC. LIMITS RPD
1,1,1-Trichloroethane	ug/L	25	23	92		7		45 - 152	0 - 30
1,1,2,2-Tetrachloroethane	ug/L	25	22.5	90		5		55 - 153	0 - 30
1,1,2-Trichloroethane	ug/L	25	30.7	123		8		73 - 144	0 - 30
1,1-Dichloroethane	ug/L	25	25.1	100		9		75 - 127	0 - 30
1,1-Dichloroethene	ug/L	25	26.2	105		7		61 - 145	0 - 14
1,2,4-Trichlorobenzene	ug/L	25	14.9	60		29		60 - 148	0 - 30
1,2-Dibromo-3-chloropropane	ug/L	25	23.8	95		5		58 - 148	0 - 30
1,2-Dibromoethane	ug/L	25	26.2	105		8		74 - 140	0 - 30
1,2-Dichlorobenzene	ug/L	25	18.6	74		9		67 - 142	0 - 30
1,2-Dichloroethane	ug/L	25	23.2	93		4		79 - 134	0 - 30
1,2-Dichloropropane	ug/L	25	24.7	99		4		77 - 129	0 - 30
1,3-Dichlorobenzene	ug/L	25	18.8	75		16		65 - 143	0 - 30
1,4-Dichlorobenzene	ug/L	25	16.6	66	*	17		68 - 142	0 - 30
2-Butanone	ug/L	25	25.3	101		5		60 - 140	0 - 30
2-Hexanone	ug/L	25	28.8	115		9		71 - 166	0 - 30
4-Methyl-2-pentanone	ug/L	25	26.5	106		10		64 - 159	0 - 30
Acetone	ug/L	25	28.6	114		24		58 - 165	0 - 30
Benzene	ug/L	25	23.7	95		7		76 - 127	0 - 11
Bromodichloromethane	ug/L	25	22.5	90		5		76 - 128	0 - 30
Bromoform	ug/L	25	28.3	113		10		67 - 145	0 - 30
Bromomethane	ug/L	25	22.4	90		5		73 - 147	0 - 30
Carbon disulfide	ug/L	25	25	100		7		37 - 155	0 - 30
Carbon tetrachloride	ug/L	25	22.4	90		1		70 - 140	0 - 30
Chlorobenzene	ug/L	25	24.6	98		4		75 - 130	0 - 13
Chloroethane	ug/L	25	23.6	94		2		76 - 160	0 - 30
Chloroform	ug/L	25	22.6	90		2		80 - 124	0 - 30
Chloromethane	ug/L	25	25.9	104		9		71 - 120	0 - 30
Cyclohexane	ug/L	25	16.6	66		18		40 - 170	0 - 30
Dibromochloromethane	ug/L	25	29	116		8		43 - 159	0 - 30
Dichlorodifluoromethane	ug/L	25	23.7	95		5		70 - 127	0 - 30
Ethylbenzene	ug/L	25	21.9	88		6		75 - 138	0 - 30
Isopropylbenzene (Cumene)	ug/L	25	18	72		13		66 - 151	0 - 30
Methyl Acetate	ug/L	25	18.6	74		6		40 - 170	0 - 30
Methylcyclohexane	ug/L	25	14.6	58		27		40 - 170	0 - 30
Methylene chloride	ug/L	25	24.7	99		12		74 - 130	0 - 30
Styrene	ug/L	25	22.7	91		3		75 - 139	0 - 30
Tetrachloroethene	ug/L	25	21.6	86		5		75 - 140	0 - 30
Toluene	ug/L	25	26.9	108		7		76 - 125	0 - 13

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 48 outside limits

Spike Recovery: 1 out of 96 outside limits

REVISED

DATE 00128103

FORM III VOA-1

000017C

ADDITION

3A

WATER VOLATILE MS/MSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203033106

Matrix Spike - EPA Sample No: 021-VVC1-L-0328-03

Trichloroethene	ug/L	25	22.2	89		6		71 - 120	0 - 14
Trichlorofluoromethane	ug/L	25	24.7	99		3		71 - 131	0 - 30
Trichlorotrifluoroethane	ug/L	25	20.4	82		2		40 - 170	0 - 30
Vinyl chloride	ug/L	25	26.1	104		5		68 - 127	0 - 30
Xylene (total)	ug/L	75	65.3	87		0		68 - 143	0 - 30
cis-1,2-Dichloroethene	ug/L	25	25.2	101		7		78 - 124	0 - 30
cis-1,3-Dichloropropene	ug/L	25	24.5	98		9		73 - 128	0 - 30
tert-Butyl methyl ether (MTBE)	ug/L	25	27.9	112		6		40 - 170	0 - 30
trans-1,2-Dichloroethene	ug/L	25	25.2	101		6		72 - 134	0 - 30
trans-1,3-Dichloropropene	ug/L	25	30.3	121		10		17 - 183	0 - 30

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 48 outside limits

Spike Recovery: 1 out of 96 outside limits

REVISED

DATE 00/28/03

FORM III VOA-1

000017D

ADDITION

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: ID: (mm)

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Injection Volume: (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: 021-WC4-L-0328-03MS

Contract:

SAS No.: SDG No.: 203033106

Lab Sample ID: 91174

Date Collected: 03/28/03 Time: 1430

Date Received: 03/29/03

Date Extracted: 04/02/03

Date Analyzed: 04/07/03 Time: 0057

Dilution Factor: 1 Analyst: DLB

Prep Method: SW-846 3550

Analytical Method: SW-846 8082

Sulfur Cleanup: (Y/N) N Instrument ID: GCS8B

Lab File ID: 2030405/SV8038

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
12674-11-2	Aroclor-1016	81.0	U	27.2	81.0
11104-28-2	Aroclor-1221	81.0	U	18.6	81.0
11141-16-5	Aroclor-1232	81.0	U	20.4	81.0
53469-21-9	Aroclor-1242	81.0	U	23.8	81.0
12672-29-6	Aroclor-1248	81.0	U	15.8	81.0
11097-69-1	Aroclor-1254	81.0	U	13.1	81.0
11096-82-5	Aroclor-1260	81.0	U	19.0	81.0

REVISED

DATE 02/28/03

FORM I PEST-1

000134 A

ADDITION

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB1701-30M ID: .53 (mm)

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Injection Volume: (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: 021-WC4-L-0328-03MSD

Contract:

SAS No.: SDG No.: 203033106

Lab Sample ID: 91175

Date Collected: 03/28/03 Time: 1430

Date Received: 03/29/03

Date Extracted: 04/02/03

Date Analyzed: 04/07/03 Time: 0127

Dilution Factor: 1 Analyst: DLB

Prep Method: SW-846 3550

Analytical Method: SW-846 8082

Sulfur Cleanup: (Y/N) N Instrument ID: GCS8A

Lab File ID:

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
12674-11-2	Aroclor-1016	81.0	U	27.2	81.0
11104-28-2	Aroclor-1221	81.0	U	18.6	81.0
11141-16-5	Aroclor-1232	81.0	U	20.4	81.0
53469-21-9	Aroclor-1242	81.0	U	23.8	81.0
12672-29-6	Aroclor-1248	81.0	U	15.8	81.0
11097-69-1	Aroclor-1254	81.0	U	13.1	81.0
11096-82-5	Aroclor-1260	81.0	U	19.0	81.0

REVISED

DATE 07/28/03

FORM I PEST-1

0001348

ADDITION

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Soil

Sample wt/vol: 1 Units: g

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: ID: (mm)

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Injection Volume: (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: 021-WC5-S-0402-03 ...MS

Contract:

SAS No.: SDG No.: 203033106

Lab Sample ID: 91923

Date Collected: 04/02/03 Time: 1300

Date Received: 04/03/03

Date Extracted: 04/07/03

Date Analyzed: 04/07/03 Time: 1708

Dilution Factor: 1 Analyst: TLS

Prep Method: SW-846 3550

Analytical Method: SW-846 8082

Sulfur Cleanup: (Y/N) N Instrument ID: GCS8B

Lab File ID: 2030407/SV8014

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
12674-11-2	Aroclor-1016	5540		418	1250
11104-28-2	Aroclor-1221	1250	U	286	1250
11141-16-5	Aroclor-1232	1250	U	313	1250
53469-21-9	Aroclor-1242	1250	U	366	1250
12672-29-6	Aroclor-1248	1250	U	244	1250
11097-69-1	Aroclor-1254	1250	U	202	1250
11096-82-5	Aroclor-1260	5560		293	1250

REVISED

DATE 07/28/03

FORM I PEST-1

000134C

ADDITION

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Soil

Sample wt/vol: 1 Units: g

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: ID: (mm)

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Injection Volume: (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: 021-WC5-S-0402-03...MSD

Contract:

SAS No.: SDG No.: 203033106

Lab Sample ID: 91924

Date Collected: 04/02/03 Time: 1300

Date Received: 04/03/03

Date Extracted: 04/07/03

Date Analyzed: 04/07/03 Time: 1738

Dilution Factor: 1 Analyst: TLS

Prep Method: SW-846 3550

Analytical Method: SW-846 8082

Sulfur Cleanup: (Y/N) N Instrument ID: GCS8B

Lab File ID: 2030407/SV8015

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
12674-11-2	Aroclor-1016	4540		418	1250
11104-28-2	Aroclor-1221	1250	U	286	1250
11141-16-5	Aroclor-1232	1250	U	313	1250
53469-21-9	Aroclor-1242	1250	U	366	1250
12672-29-6	Aroclor-1248	1250	U	244	1250
11097-69-1	Aroclor-1254	1250	U	202	1250
11096-82-5	Aroclor-1260	4390		293	1250

REVISED

DATE 07/28/03

3F

SOIL PESTICIDE MS/MSD RECOVERY

Lab Name: GCAL

Sample ID: 021-WC5-S-0402-03 (OIL)

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203033106

Contract:

Method: SW-846 8082

Spike HSN : 91923

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	MS CONCENTRATION	MS % REC	MS % REC FLAG	QC. LIMITS
Aroclor-1016	ug/kg	4000	0	5330	133		40 - 154
Aroclor-1260	ug/kg	4000	0	5350	134		40 - 168

Spike Dupe HSN : 91924

COMPOUND	UNITS	SPIKE ADDED	MSD CONC.	MSD % REC	REC FLAG	% RPD	RPD FLAG	QC. LIMITS REC	QC. LIMITS RPD
Aroclor-1016	ug/kg	4000	4370	109		20		40 - 154	0 - 43
Aroclor-1260	ug/kg	4000	4220	106		23		40 - 168	0 - 50

RPD : 0 out of 2 outside limits

Spike Recovery: 0 out of 4 outside limits

REVISED

DATE 02/28/03

FORM III PEST-2

000140 A

ADDITION

3F

SOIL PESTICIDE MS/MSD RECOVERY

Lab Name: GCAL

Sample ID: 021-WC4-L-0328-03

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203033106

Contract:

Method: SW-846 8082

Spike HSN : 91174

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	MS CONCENTRATION	MS % REC	MS % REC FLAG	QC. LIMITS
Aroclor-1016	ug/kg	133	0	0	0	*	40 - 154
Aroclor-1260	ug/kg	133	0	0	0	*	40 - 168

Spike Dupe HSN : 91175

COMPOUND	UNITS	SPIKE ADDED	MSD CONC.	MSD % REC	REC FLAG	% RPD	RPD FLAG	QC. LIMITS REC	QC. LIMITS RPD
Aroclor-1016	ug/kg	133	0	0	*	0		40 - 154	0 - 43
Aroclor-1260	ug/kg	133	0	0	*	0		40 - 168	0 - 50

RPD : 0 out of 2 outside limits

Spike Recovery: 4 out of 4 outside limits

REVISED

DATE 07/28/03

FORM III PEST-2

000140 B

ADDITION

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL
Sample ID: 021-WC4-L-0328-03
Lab Code: LA024 Case No.:
Contract:
Matrix: (soil / water) Soil
SAS No.: SDG No.: 203033106
Level: (low / med) % Solids: 98.70
Lab Sample ID: 20303310602
Date Received: 03/29/03 Time: 1050
Date Collected: 03/28/03 Time: 1430

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum	0.84	mg/kg	B	0.63	8.10	SW-846 6010B	P
Antimony	2.43	mg/kg	U	0.19	2.43	SW-846 6010B	P
Arsenic	1.62	mg/kg	U	0.059	1.62	SW-846 6010B	P
Barium	0.41	mg/kg	U	0.021	0.41	SW-846 6010B	P
Beryllium	0.20	mg/kg	U	0.0051	0.20	SW-846 6010B	P
Cadmium	0.20	mg/kg	U	0.0081	0.20	SW-846 6010B	P
Calcium	59.9	mg/kg		1.28	2.03	SW-846 6010B	P
Chromium	0.033	mg/kg	B	0.018	0.41	SW-846 6010B	P
Cobalt	0.41	mg/kg	U	0.024	0.41	SW-846 6010B	P
Copper	0.12	mg/kg	B	0.11	0.41	SW-846 6010B	P
Iron	31.7	mg/kg		0.46	2.03	SW-846 6010B	P
Lead	0.16	mg/kg	B	0.064	0.61	SW-846 6010B	P
Magnesium	2.03	mg/kg	U	0.99	2.03	SW-846 6010B	P
Manganese	0.18	mg/kg	B	0.0051	0.61	SW-846 6010B	P
Mercury	0.030	mg/kg	U	0.0033	0.030	SW-846 7471A	AV
Nickel	1.62	mg/kg	U	0.10	1.62	SW-846 6010B	P
Potassium	8.10	mg/kg	U	1.97	8.10	SW-846 6010B	P
Selenium	0.89	mg/kg	B	0.19	1.62	SW-846 6010B	P
Silver	0.41	mg/kg	U	0.018	0.41	SW-846 6010B	P
Sodium	8.51	mg/kg	B	7.04	40.5	SW-846 6010B	P
Thallium	0.20	mg/kg	B	0.050	0.81	SW-846 6010B	P
Vanadium	0.81	mg/kg	U	0.047	0.81	SW-846 6010B	P
Zinc	280	mg/kg		0.21	0.81	SW-846 6010B	P

REVISED
DATE 09/28/03

FORM I - IN

000201 A
ADDITION

SPIKE SAMPLE RECOVERY

Lab Name: GCAL

Sample ID: 021-WC4-L-0328-03MS

Lab Code: LA024 Case No.:

Contract:

Matrix: (soil / water) Soil

SAS No.: SDG No.: 203033106

Level: (low / med)

Lab Sample ID: 91909

Orig Lab Sample ID: 20303310602

Analyte	LL	UL	Spiked Sample Result	C	Sample Result	C	Spike Added	% R	Q	Units	Method	Type
Aluminum	75	125	383		0.83	B	400	96		mg/kg	SW-846 6010B	P
Antimony	75	125	36.8		0	U	40.0	92		mg/kg	SW-846 6010B	P
Arsenic	75	125	30.5		0	U	40.0	76		mg/kg	SW-846 6010B	P
Barium	75	125	36.5		0	U	40.0	91		mg/kg	SW-846 6010B	P
Beryllium	75	125	37.7		0	U	40.0	94		mg/kg	SW-846 6010B	P
Cadmium	75	125	35.5		0	U	40.0	89		mg/kg	SW-846 6010B	P
Calcium	75	125	428		59.1		400	92		mg/kg	SW-846 6010B	P
Chromium	75	125	36.9		0.033	B	40.0	92		mg/kg	SW-846 6010B	P
Cobalt	75	125	37.1		0	U	40.0	93		mg/kg	SW-846 6010B	P
Copper	75	125	39.2		0.12	B	40.0	98		mg/kg	SW-846 6010B	P
Iron	75	125	419		31.3		400	97		mg/kg	SW-846 6010B	P
Lead	75	125	35.7		0.16	B	40.0	89		mg/kg	SW-846 6010B	P
Magnesium	75	125	344		0	U	400	86		mg/kg	SW-846 6010B	P
Manganese	75	125	37.1		0.17	B	40.0	92		mg/kg	SW-846 6010B	P
Nickel	75	125	37.0		0	U	40.0	92		mg/kg	SW-846 6010B	P
Potassium	75	125	796		0	U	800	100		mg/kg	SW-846 6010B	P
Selenium	75	125	41.5		0.88	B	40.0	101		mg/kg	SW-846 6010B	P
Silver	75	125	4.41		0	U	40.0	11	N	mg/kg	SW-846 6010B	P
Sodium	75	125	1590		8.40	B	1600	99		mg/kg	SW-846 6010B	P
Thallium	75	125	36.5		0.20	B	40.0	91		mg/kg	SW-846 6010B	P
Vanadium	75	125	37.2		0	U	40.0	93		mg/kg	SW-846 6010B	P
Zinc	75	125	307		277		40.0	76		mg/kg	SW-846 6010B	P

REVISED
DATE 07/28/03

FORM V (PART 1) - IN

000247A
ADDITION

SPIKE SAMPLE RECOVERY

Lab Name: GCAL

Sample ID: 021-WC4-L-0328-03MSD

Lab Code: LA024 Case No.:

Contract:

Matrix: (soil / water) Soil

SAS No.: SDG No.: 203033106

Level: (low / med)

Lab Sample ID: 91910

Orig Lab Sample ID: 20303310602

Analyte	LL	UL	Spiked Sample Result	C	Sample Result	C	Spike Added	% R	Q	Units	Method	Type
Aluminum	75	125	386		0.83	B	400	96		mg/kg	SW-846 6010B	P
Antimony	75	125	36.0		0	U	40.0	90		mg/kg	SW-846 6010B	P
Arsenic	75	125	29.3		0	U	40.0	73	N	mg/kg	SW-846 6010B	P
Barium	75	125	36.4		0	U	40.0	91		mg/kg	SW-846 6010B	P
Beryllium	75	125	37.6		0	U	40.0	94		mg/kg	SW-846 6010B	P
Cadmium	75	125	34.8		0	U	40.0	87		mg/kg	SW-846 6010B	P
Calcium	75	125	432		59.1		400	93		mg/kg	SW-846 6010B	P
Chromium	75	125	36.9		0.033	B	40.0	92		mg/kg	SW-846 6010B	P
Cobalt	75	125	36.7		0	U	40.0	92		mg/kg	SW-846 6010B	P
Copper	75	125	39.5		0.12	B	40.0	98		mg/kg	SW-846 6010B	P
Iron	75	125	421		31.3		400	98		mg/kg	SW-846 6010B	P
Lead	75	125	35.0		0.16	B	40.0	87		mg/kg	SW-846 6010B	P
Magnesium	75	125	347		0	U	400	87		mg/kg	SW-846 6010B	P
Manganese	75	125	37.0		0.17	B	40.0	92		mg/kg	SW-846 6010B	P
Nickel	75	125	36.5		0	U	40.0	91		mg/kg	SW-846 6010B	P
Potassium	75	125	777		0	U	800	97		mg/kg	SW-846 6010B	P
Selenium	75	125	38.9		0.88	B	40.0	95		mg/kg	SW-846 6010B	P
Silver	75	125	7.87		0	U	40.0	20	N	mg/kg	SW-846 6010B	P
Sodium	75	125	1560		8.40	B	1600	97		mg/kg	SW-846 6010B	P
Thallium	75	125	35.8		0.20	B	40.0	89		mg/kg	SW-846 6010B	P
Vanadium	75	125	37.2		0	U	40.0	93		mg/kg	SW-846 6010B	P
Zinc	75	125	295		277		40.0	46	N	mg/kg	SW-846 6010B	P

REVISED
DATE 02/28/03

FORM V (PART 1) - IN

000247B
ADDITION

DUPLICATES

Lab Name: GCAL

Sample ID: 021-WC4-L-0328-03DUP

Lab Code: LA024 Case No.:

Contract:

Matrix: (soil / water) Soil

SAS No.: SDG No.: 203033106

% Solids for Sample:

Level: (low / med)

% Solids for Duplicate:

Lab Sample ID: 91908

Analyte	LL	UL	Sample	C	Duplicate	C	RPD	Q	Units	Method	Type
Aluminum	0	20	0.83	B	0.65	B	24	*	mg/kg	SW-846 6010B	P
Antimony	0	20	0	U	0	U	0		mg/kg	SW-846 6010B	P
Arsenic	0	20	0	U	0	U	0		mg/kg	SW-846 6010B	P
Barium	0	20	0	U	0	U	0		mg/kg	SW-846 6010B	P
Beryllium	0	20	0	U	0	U	0		mg/kg	SW-846 6010B	P
Cadmium	0	20	0	U	0	U	0		mg/kg	SW-846 6010B	P
Calcium	0	20	59.1		68.9		15		mg/kg	SW-846 6010B	P
Chromium	0	20	0.033	B	0.021	B	44	*	mg/kg	SW-846 6010B	P
Cobalt	0	20	0	U	0	U	0		mg/kg	SW-846 6010B	P
Copper	0	20	0.12	B	0	U	200	*	mg/kg	SW-846 6010B	P
Iron	0	20	31.3		31.3		0		mg/kg	SW-846 6010B	P
Lead	0	20	0.16	B	0.16	B	0		mg/kg	SW-846 6010B	P
Magnesium	0	20	0	U	0	U	0		mg/kg	SW-846 6010B	P
Manganese	0	20	0.17	B	0.17	B	0		mg/kg	SW-846 6010B	P
Nickel	0	20	0	U	0	U	0		mg/kg	SW-846 6010B	P
Potassium	0	20	0	U	0	U	0		mg/kg	SW-846 6010B	P
Selenium	0	20	0.88	B	1.17	B	28	*	mg/kg	SW-846 6010B	P
Silver	0	20	0	U	0	U	0		mg/kg	SW-846 6010B	P
Sodium	0	20	8.40	B	8.23	B	2		mg/kg	SW-846 6010B	P
Thallium	0	20	0.20	B	0.39	B	64	*	mg/kg	SW-846 6010B	P
Vanadium	0	20	0	U	0	U	0		mg/kg	SW-846 6010B	P
Zinc	0	20	277		269		3		mg/kg	SW-846 6010B	P

REVISED

DATE 02/28/08

FORM VI - IN

000247C

ADDITION

SPIKE SAMPLE RECOVERY

Lab Name: GCAL

Sample ID: 021-WC4-L-0328-03MS

Lab Code: LA024 Case No.:

Contract:

Matrix: (soil / water) Soil

SAS No.: SDG No.: 203033106

Level: (low / med)

Lab Sample ID: 91914

Orig Lab Sample ID: 20303310602

Analyte	LL	UL	Spiked Sample Result	C	Sample Result	C	Spike Added	% R	Q	Units	Method	Type
Mercury	75	125	0.65		0	U	0.75	87		mg/kg	SW-846 7471A	AV

REVISED
DATE 02/28/03

FORM V (PART 1) - IN

000247D
ADDITION

SPIKE SAMPLE RECOVERY

Lab Name: GCAL

Sample ID: 021-WC4-L-0328-03MSD

Lab Code: LA024

Case No.:

Contract:

Matrix: (soil / water) Soil

SAS No.:

SDG No.: 203033106

Level: (low / med)

Lab Sample ID: 91915

Orig Lab Sample ID: 20303310602

Analyte	LL	UL	Spiked Sample Result	C	Sample Result	C	Spike Added	% R	Q	Units	Method	Type
Mercury	75	125	0.73		0	U	0.75	97		mg/kg	SW-846 7471A	AV

REVISED
DATE 02/28/06

FORM V (PART 1) - IN

000247E
ADDITION

DUPLICATES

Lab Name: GCAL

Sample ID: 021-WC4-L-0328-03DUP

Lab Code: LA024 Case No.:

Contract:

Matrix: (soil / water) Soil

SAS No.: SDG No.: 203033106

% Solids for Sample:

Level: (low / med)

% Solids for Duplicate:

Lab Sample ID: 91913

Analyte	LL	UL	Sample	C	Duplicate	C	RPD	Q	Units	Method	Type
Mercury	0	20	0	U	0	U	0		mg/kg	SW-846 7471A	AV

REVISED
DATE 07/28/08

FORM VI - IN

000247F
ADDITION

GCAL ID	CLIENT ID	MATRIX	COLLECTED	RECEIVED	REPORTED
20303310601	021-WC1-L-0328-03	Water	03/28/2003 13:48	03/29/2003 10:50	

4500 H+B Water - pH

PREP DATE	PREP BATCH	PREP METHOD	DILUTION	ANALYZED	BY	ANALYTICAL BATCH
			1	03/31/2003 10:00	OLT	255295

CAS #	PARAMETER	RESULT	PQL	MDL	UNITS
pH	pH	7.74	1.00	1.00	pH unit

RESULTS REPORTED ON A WET WEIGHT BASIS

REVISED
DATE 02/28/05

GCAL ID	CLIENT ID	MATRIX	COLLECTED	RECEIVED	REPORTED
20303310602	021-WC4-L-0328-03	Solid	03/28/2003 14:30	03/29/2003 10:50	

9045C Solid - pH

PREP DATE	PREP BATCH	PREP METHOD	DILUTION	ANALYZED	BY	ANALYTICAL BATCH
			1	04/01/2003 13:30	OLT	255366

CAS #	PARAMETER	RESULT	PQL	MDL	UNITS
pH	pH	7.12	1.00	1.00	pH unit

RESULTS REPORTED ON A DRY WEIGHT BASIS

REVISED
DATE 01/28/03

GCAL ID	CLIENT ID	MATRIX	COLLECTED	RECEIVED	REPORTED
20303310603	021-WC3-L-0328-03 (WATER)	Water	03/28/2003 14:10	03/29/2003 10:50	

4500 H+B Water - pH

PREP DATE	PREP BATCH	PREP METHOD	DILUTION	ANALYZED	BY	ANALYTICAL BATCH
			1	04/01/2003 15:45	OLT	255344

CAS #	PARAMETER	RESULT	PQL	MDL	UNITS
pH	pH	6.78	1.00	1.00	pH unit

RESULTS REPORTED ON A WET WEIGHT BASIS

REVISED
DATE 07/28/03

GCAL ID	CLIENT ID	MATRIX	COLLECTED	RECEIVED	REPORTED
20303310605	021-WC5-S-0402-03 (OIL)	Solid	04/02/2003 13:00	04/03/2003 09:00	

9045C Solid - pH

PREP DATE	PREP BATCH	PREP METHOD	DILUTION	ANALYZED	BY	ANALYTICAL BATCH
			1	04/04/2003 15:30	OLT	255517

CAS #	PARAMETER	RESULT	PQL	MDL	UNITS
pH	pH	6.81	1.00	1.00	pH unit

RESULTS REPORTED ON A DRY WEIGHT BASIS

REVISED
DATE 07/28/03

GCAL ID	CLIENT ID	MATRIX	COLLECTED	RECEIVED	REPORTED
20303310601	021-WC1-L-0328-03	Water	03/28/2003 13:48	03/29/2003 10:50	

1010 Flashpoint

PREP DATE	PREP BATCH	PREP METHOD	DILUTION	ANALYZED	BY	ANALYTICAL BATCH
			1	04/03/2003 11:20	HLO	255478

CAS #	PARAMETER	RESULT	PQL	MDL	UNITS
000000-01-3	FlashPoint	>212	50	50	Deg F

RESULTS REPORTED ON A WET WEIGHT BASIS

REVISED
DATE 01/28/05

GCAL ID	CLIENT ID	MATRIX	COLLECTED	RECEIVED	REPORTED
20303310602	021-WC4-L-0328-03	Solid	03/28/2003 14:30	03/29/2003 10:50	

1010 Flashpoint

PREP DATE	PREP BATCH	PREP METHOD	DILUTION	ANALYZED	BY	ANALYTICAL BATCH
			1	04/03/2003 11:20	HLO	255477

CAS #	PARAMETER	RESULT	PQL	MDL	UNITS
000000-01-3	FlashPoint	126	50	50	Deg F

RESULTS REPORTED ON A DRY WEIGHT BASIS

REVISED
DATE 00/28/03

GCAL ID	CLIENT ID	MATRIX	COLLECTED	RECEIVED	REPORTED
20303310603	021-WC3-L-0328-03 (WATER)	Water	03/28/2003 14:10	03/29/2003 10:50	

1010 Flashpoint

PREP DATE	PREP BATCH	PREP METHOD	DILUTION	ANALYZED	BY	ANALYTICAL BATCH
			1	04/03/2003 11:20	HLO	255478

CAS #	PARAMETER	RESULT	PQL	MDL	UNITS
000000-01-3	FlashPoint	>212	50	50	Deg F

RESULTS REPORTED ON A WET WEIGHT BASIS

REVISED
DATE 01/28/05

GCAL ID	CLIENT ID	MATRIX	COLLECTED	RECEIVED	REPORTED
20303310605	021-WC5-S-0402-03 (OIL)	Solid	04/02/2003 13:00	04/03/2003 09:00	

1010 Flashpoint

PREP DATE	PREP BATCH	PREP METHOD	DILUTION	ANALYZED	BY	ANALYTICAL BATCH
			1	04/08/2003 08:45	HLO	255603

CAS #	PARAMETER	RESULT	PQL	MDL	UNITS
000000-01-3	FlashPoint	>212	50	50	Deg F

RESULTS REPORTED ON A DRY WEIGHT BASIS

REVISED
DATE 07/28/03

QUALITY CONTROL SUMMARY

DUPLICATE SAMPLE ID: 91028 ORIGINAL LAB ID: 20303310401 PREP BATCH:
MATRIX Water ANALYTICAL BATCH: 255295

4500 H+B

CAS #	PARAMETER	Original Result	Result	RPD	RPD LIMITS
pH	pH	6.16	6.2	0.6	- 6

DUPLICATE SAMPLE ID: 91184 ORIGINAL LAB ID: 20304010501 PREP BATCH:
MATRIX Water ANALYTICAL BATCH: 255344

4500 H+B

CAS #	PARAMETER	Original Result	Result	RPD	RPD LIMITS
pH	pH	7.13	7.16	0.4	- 6

DUPLICATE SAMPLE ID: 91281 ORIGINAL LAB ID: 20303310503 PREP BATCH:
MATRIX Water ANALYTICAL BATCH: 255344

4500 H+B

CAS #	PARAMETER	Original Result	Result	RPD	RPD LIMITS
pH	pH	6.78	6.8	0.3	- 6

DUPLICATE SAMPLE ID: 91236 ORIGINAL LAB ID: 20309310802 PREP BATCH:
MATRIX Solid ANALYTICAL BATCH: 255356

SW-846 9045

CAS #	PARAMETER	Original Result	Result	RPD	RPD LIMITS
pH	pH	7.12	7.08	0.6	- 6

DUPLICATE SAMPLE ID: 91687 ORIGINAL LAB ID: 20303310602 PREP BATCH:
MATRIX Solid ANALYTICAL BATCH: 255477

EPA 1010

CAS #	PARAMETER	Original Result	Result	RPD	RPD LIMITS
000000-01-3	FlashPoint	126	126	0	0 - 25

DUPLICATE SAMPLE ID: 91852 ORIGINAL LAB ID: 20303310605 PREP BATCH:
MATRIX Solid ANALYTICAL BATCH: 255517

SW-846 9045

CAS #	PARAMETER	Original Result	Result	RPD	RPD LIMITS
pH	pH	6.81	6.85	0.6	- 6

REVISED
DATE_____

QUALITY CONTROL RESULTS

LAB ID	SAMPLE ID	MATRIX	COLLECTED	RECEIVED	REPORTED
92041	Sample Duplicate	Solid	04/02/2003 13:0	04/03/2003 09:00	

EPA 1010

PREP DATE	PREP BATCH	PREP METHOD	DILUTION	ANALYZED	BY	ANALYTICAL BATCH
			1	04/08/2003 08:45	HLO	255603

CAS #	PARAMETER	RESULT	RDL	UNITS
000000-01-	FlashPoint	>212	50	Deg F

GULF COAST
ANALYTICAL LABORATORIES, INC.

ANALYTICAL RESULTS

PERFORMED BY

GULF COAST ANALYTICAL LABORATORIES, INC.

Report Date: 04/14/2003

GCAL REPORT NO.: 203033106

Deliver To:	CH2M HILL Constructors Inc. 115 Perimeter Center Place Suite 700 Atlanta, GA 30346 770-604-9182 Ext. 614
Attn:	Melissa Aycock

CUSTOMER NAME: CH2M HILL Constructors Inc.

PROJECT NAME: N.A.S. Cecil Field

7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402 • Phone 225.769.4900 • Fax 225.767.5717

CASE NARRATIVE

Client: CH2M HILL Constructors Inc. **Report:** 203033106

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

VOLATILES MASS SPECTROMETRY

The ICV recoveries for several compounds were above the upper control limit of 130%. These compounds were not detected in the samples included in this report.

SEMI-VOLATILES MASS SPECTROMETRY

Due to the presence of non-target background, samples 20303310601 (021-WC1-L-0328-03) and 20303310604 (021-WC3-L-0328-03 (WATER)) required dilutions. The dilutions are reflected in elevated reporting limits.

In prep batch 255497, the LCS and/or LCSD recoveries for Atrazine (Aatrex), and 2-Chlorophenol were outside the control limits.

Sample 20303310604 (021-WC3-L-0328-03 (WATER)) had one Base-Neutral and one Acid surrogate above QC limits.

In the semi-volatile analysis, the LCS (91134) and LCSD (91135) had sporadic failures.

SEMI-VOLATILES GAS CHROMATOGRAPHY

In the Florida Pro analysis, sample 20303310601 (021-WC1-L-0328-03) had to be diluted due to compounds that were detected above the linear range of the calibration. The surrogate recoveries o-Terphenyl and Nonatriacontane are reported as DO (diluted out), due to the dilution performed on the sample.

In the PCB analysis, surrogate recovery for DCB was below recovery in LCS (91150). All other recoveries were within recovery limit.

In the PCB analysis, the surrogate recovery was diluted out in sample 20303310602 (021-WC4-L-0328-03). This dilution was performed during the extraction due to the oily sample matrix.

In the Herbicide analysis, the LCS sample 91793 was inadvertently double spiked in the extraction process. This has been adjusted in the amount spiked.

LABORATORY ENDORSEMENT

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 Days unless otherwise arranged. Following this retention period the samples will be disposed of in accordance with GCAL's Standard Operating Procedures.

Common Abbreviations Utilized in this Report

ND-Indicates that the parameter was not detected at the specified detection limit
DO-Indicates that the result was diluted out
MI-Indicates that the result was subject to Matrix Interference
TNTC-Indicates that the result was Too Numerous to Count
SUBC-Indicates that the analysis was subcontracted
FLD-Indicates that the parameter was performed in the field
PQL-Practical Quantitation Limit
MDL-Method Detection Limit
RDL-Reporting Detection Limit

Reporting Flags Utilized in this Report

J-Indicates that the result was detected between the PQL and MDL
U-Indicates that the result was not detected at the referenced detection limit
B-Organics Indicates that the compound was detected in the associated Method Blank
B-Inorganics Indicates that the compound was detected between the PQL and MDL

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with ISO Guide 25 and NELAC, this report shall be reproduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This Report pertains only to the samples listed in the Sample Cross-Reference and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the Client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with the terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the condition detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

Scott A. Bailey / CAE

SCOTT A. BAILEY
OPERATIONS MANAGER
GCAL REPORT NO.: 203033106

SAMPLE CROSS-REFERENCE

GCAL ID	CLIENT ID	MATRIX	SAMPLE DATE/TIME	RECEIVE DATE/TIME
20303310601	021-WC1-L-0328-03	Water	03/28/2003 13:48	03/29/2003 10:50
20303310602	021-WC4-L-0328-03	Solid	03/28/2003 14:30	03/29/2003 10:50
20303310603	021-WC3-L-0328-03 (WATER)	Water	03/28/2003 14:10	03/29/2003 10:50
20303310604	021-WC3-L-0328-03 (WATER)	Water	04/02/2003 13:00	04/03/2003 09:00
20303310605	021-WC5-S-0402-03 (OIL)	Solid	04/02/2003 13:00	04/03/2003 09:00
20303310606	021-WC3-L-0328-03R	Water	04/02/2003 13:00	04/03/2003 09:00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

021-WC1-L-0328-03

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203033106

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 20303310601

Level: (low/med) LOW Lab File ID: 2030402/S8149

% Moisture: not dec. Date Collected: 03/28/03 Time: 1348

GC Column: DB-624-30M ID: .53 (mm Date Received: 03/29/03

Instrument ID: MSV1 Date Analyzed: 04/02/03 Time: 1129

Soil Extract Volume: (µL Dilution Factor: 1 Analyst: KRV

Soil Aliquot Volume: (µL

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT		MDL	RL
71-55-6	1,1,1-Trichloroethane	5.00	U	0.204	5.00
79-34-5	1,1,2,2-Tetrachloroethane	0.200	U	0.200	0.200
79-00-5	1,1,2-Trichloroethane	5.00	U	0.333	5.00
75-34-3	1,1-Dichloroethane	5.00	U	0.122	5.00
75-35-4	1,1-Dichloroethene	5.00	U	0.357	5.00
120-82-1	1,2,4-Trichlorobenzene	5.00	U	0.405	5.00
96-12-8	1,2-Dibromo-3-chloropropane	0.200	U	0.200	0.200
106-93-4	1,2-Dibromoethane	0.200	U	0.116	0.200
95-50-1	1,2-Dichlorobenzene	5.00	U	0.221	5.00
107-06-2	1,2-Dichloroethane	3.00	U	0.277	3.00
78-87-5	1,2-Dichloropropane	5.00	U	0.341	5.00
541-73-1	1,3-Dichlorobenzene	5.00	U	0.320	5.00
106-46-7	1,4-Dichlorobenzene	5.00	U	0.295	5.00
78-93-3	2-Butanone	10.0	U	0.641	10.0
591-78-6	2-Hexanone	10.0	U	0.443	10.0
108-10-1	4-Methyl-2-pentanone	10.0	U	0.252	10.0
67-64-1	Acetone	10.0	U	2.36	10.0
71-43-2	Benzene	1.00	U	0.100	1.00
75-27-4	Bromodichloromethane	0.600	U	0.102	0.600
75-25-2	Bromoform	4.00	U	0.140	4.00
74-83-9	Bromomethane	5.00	U	0.330	5.00
75-15-0	Carbon disulfide	5.00	U	0.180	5.00
56-23-5	Carbon tetrachloride	3.00	U	0.161	3.00
108-90-7	Chlorobenzene	5.00	U	0.157	5.00
75-00-3	Chloroethane	5.00	U	0.237	5.00
67-66-3	Chloroform	5.00	U	0.140	5.00
74-87-3	Chloromethane	2.70	U	0.393	2.70
110-82-7	Cyclohexane	5.00	U	0.169	5.00
124-48-1	Dibromochloromethane	0.400	U	0.105	0.400
75-71-8	Dichlorodifluoromethane	5.00	U	0.228	5.00
10061-01-5	cis-1,3-Dichloropropene	5.00	U	0.128	5.00
10061-02-6	trans-1,3-Dichloropropene	5.00	U	0.329	5.00
100-41-4	Ethylbenzene	5.00	U	0.312	5.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

021-WC1-L-0328-03

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203033106

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 20303310601

Level: (low/med) LOW Lab File ID: 2030402/S8149

% Moisture: not dec. Date Collected: 03/28/03 Time: 1348

GC Column: DB-624-30M ID: .53 (mm Date Received: 03/29/03

Instrument ID: MSV1 Date Analyzed: 04/02/03 Time: 1129

Soil Extract Volume: (µL Dilution Factor: 1 Analyst: KRV

Soil Aliquot Volume: (µL

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT		MDL	RL
98-82-8	Isopropylbenzene (Cumene)	5.00	U	0.246	5.00
79-20-9	Methyl Acetate	5.00	U	5.00	5.00
108-87-2	Methylcyclohexane	5.00	U	5.00	5.00
75-09-2	Methylene chloride	5.00	U	0.613	5.00
100-42-5	Styrene	5.00	U	0.173	5.00
127-18-4	Tetrachloroethene	3.00	U	0.269	3.00
108-88-3	Toluene	5.00	U	0.152	5.00
79-01-6	Trichloroethene	3.00	U	0.323	3.00
75-69-4	Trichlorofluoromethane	5.00	U	0.192	5.00
76-13-1	Trichlorotrifluoroethane	5.00	U	0.193	5.00
75-01-4	Vinyl chloride	1.00	U	0.177	1.00
1330-20-7	Xylene (total)	5.00	U	0.507	5.00
156-59-2	cis-1,2-Dichloroethene	5.00	U	0.151	5.00
1634-04-4	tert-Butyl methyl ether (MTBE)	5.00	U	0.122	5.00
156-60-5	trans-1,2-Dichloroethene	5.00	U	0.192	5.00

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
021-WC1-L-0328-03

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203033106

Matrix: Water Lab Sample ID: 20303310601

Sample wt/vol: Units: Lab File ID: 2030402/S8149

Level: (low/med) Date Collected: 03/28/03 Time: 1348

% Moisture: not dec. Date Received: 03/29/03

GC Column: DB-624-30M ID: .53 (mm Date Analyzed: 04/02/03 Time: 1129

Instrument ID: MSV1 Dilution Factor: 1 Analyst: KRV

Soil Extract Volume: (µL

Soil Aliquot Volume: (µL

Number TICs Found: 0

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	
1 .		No tics detected			

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

021-WC3-L-0328-03 (WATER)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203033106

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 20303310603

Level: (low/med) LOW Lab File ID: 2030402/S8150

% Moisture: not dec. Date Collected: 03/28/03 Time: 1410

GC Column: DB-624-30M ID: .53 (mm Date Received: 03/29/03

Instrument ID: MSV1 Date Analyzed: 04/02/03 Time: 1154

Soil Extract Volume: (µL Dilution Factor: 1 Analyst: KRV

Soil Aliquot Volume: (µL

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT		MDL	RL
71-55-6	1,1,1-Trichloroethane	5.00	U	0.204	5.00
79-34-5	1,1,2,2-Tetrachloroethane	0.200	U	0.200	0.200
79-00-5	1,1,2-Trichloroethane	5.00	U	0.333	5.00
75-34-3	1,1-Dichloroethane	5.00	U	0.122	5.00
75-35-4	1,1-Dichloroethene	5.00	U	0.357	5.00
120-82-1	1,2,4-Trichlorobenzene	5.00	U	0.405	5.00
96-12-8	1,2-Dibromo-3-chloropropane	0.200	U	0.200	0.200
106-93-4	1,2-Dibromoethane	0.200	U	0.116	0.200
95-50-1	1,2-Dichlorobenzene	5.00	U	0.221	5.00
107-06-2	1,2-Dichloroethane	3.00	U	0.277	3.00
78-87-5	1,2-Dichloropropane	5.00	U	0.341	5.00
541-73-1	1,3-Dichlorobenzene	5.00	U	0.320	5.00
106-46-7	1,4-Dichlorobenzene	5.00	U	0.295	5.00
78-93-3	2-Butanone	10.0	U	0.641	10.0
591-78-6	2-Hexanone	10.0	U	0.443	10.0
108-10-1	4-Methyl-2-pentanone	10.0	U	0.252	10.0
67-64-1	Acetone	10.0	U	2.36	10.0
71-43-2	Benzene	1.00	U	0.100	1.00
75-27-4	Bromodichloromethane	0.600	U	0.102	0.600
75-25-2	Bromoform	4.00	U	0.140	4.00
74-83-9	Bromomethane	5.00	U	0.330	5.00
75-15-0	Carbon disulfide	5.00	U	0.180	5.00
56-23-5	Carbon tetrachloride	3.00	U	0.161	3.00
108-90-7	Chlorobenzene	3.17	J	0.157	5.00
75-00-3	Chloroethane	5.00	U	0.237	5.00
67-66-3	Chloroform	5.00	U	0.140	5.00
74-87-3	Chloromethane	2.70	U	0.393	2.70
110-82-7	Cyclohexane	5.00	U	0.169	5.00
124-48-1	Dibromochloromethane	0.400	U	0.105	0.400
75-71-8	Dichlorodifluoromethane	5.00	U	0.228	5.00
10061-01-5	cis-1,3-Dichloropropene	5.00	U	0.128	5.00
10061-02-6	trans-1,3-Dichloropropene	5.00	U	0.329	5.00
100-41-4	Ethylbenzene	5.00	U	0.312	5.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

021-WC3-L-0328-03 (WATER)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203033106

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 20303310603

Level: (low/med) LOW Lab File ID: 2030402/S8150

% Moisture: not dec. Date Collected: 03/28/03 Time: 1410

GC Column: DB-624-30M ID: .53 (mm Date Received: 03/29/03

Instrument ID: MSV1 Date Analyzed: 04/02/03 Time: 1154

Soil Extract Volume: (µL Dilution Factor: 1 Analyst: KRV

Soil Aliquot Volume: (µL

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT		MDL	RL
98-82-8	Isopropylbenzene (Cumene)	5.00	U	0.246	5.00
79-20-9	Methyl Acetate	5.00	U	5.00	5.00
108-87-2	Methylcyclohexane	5.00	U	5.00	5.00
75-09-2	Methylene chloride	5.00	U	0.613	5.00
100-42-5	Styrene	5.00	U	0.173	5.00
127-18-4	Tetrachloroethene	3.00	U	0.269	3.00
108-88-3	Toluene	5.00	U	0.152	5.00
79-01-6	Trichloroethene	3.00	U	0.323	3.00
75-69-4	Trichlorofluoromethane	5.00	U	0.192	5.00
76-13-1	Trichlorotrifluoroethane	5.00	U	0.193	5.00
75-01-4	Vinyl chloride	1.00	U	0.177	1.00
1330-20-7	Xylene (total)	5.00	U	0.507	5.00
156-59-2	cis-1,2-Dichloroethene	5.00	U	0.151	5.00
1634-04-4	tert-Butyl methyl ether (MTBE)	5.00	U	0.122	5.00
156-60-5	trans-1,2-Dichloroethene	5.00	U	0.192	5.00

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
021-WC3-L-0328-03 (WATER)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203033106

Matrix: Water Lab Sample ID: 20303310603

Sample wt/vol: Units: Lab File ID: 2030402/S8150

Level: (low/med) Date Collected: 03/28/03 Time: 1410

% Moisture: not dec. Date Received: 03/29/03

GC Column: DB-624-30M ID: .53 (mm Date Analyzed: 04/02/03 Time: 1154

Instrument ID: MSV1 Dilution Factor: 1 Analyst: KRV

Soil Extract Volume: (µL

Soil Aliquot Volume: (µL

Number TICs Found: 0

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	
1 .		No tics detected			

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MB91383

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203033106

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 91383

Level: (low/med) LOW Lab File ID: 2030402/S8148

% Moisture: not dec. Date Collected: Time:

GC Column: DB-624-30M ID: .53 (mm Date Received:

Instrument ID: MSV1 Date Analyzed: 04/02/03 Time: 1054

Soil Extract Volume: (µL Dilution Factor: 1 Analyst: KRV

Soil Aliquot Volume: (µL

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT		MDL	RL
71-55-6	1,1,1-Trichloroethane	5.00	U	0.204	5.00
79-34-5	1,1,2,2-Tetrachloroethane	0.200	U	0.200	0.200
79-00-5	1,1,2-Trichloroethane	5.00	U	0.333	5.00
75-34-3	1,1-Dichloroethane	5.00	U	0.122	5.00
75-35-4	1,1-Dichloroethene	5.00	U	0.357	5.00
120-82-1	1,2,4-Trichlorobenzene	5.00	U	0.405	5.00
96-12-8	1,2-Dibromo-3-chloropropane	0.200	U	0.200	0.200
106-93-4	1,2-Dibromoethane	0.200	U	0.116	0.200
95-50-1	1,2-Dichlorobenzene	5.00	U	0.221	5.00
107-06-2	1,2-Dichloroethane	3.00	U	0.277	3.00
78-87-5	1,2-Dichloropropane	5.00	U	0.341	5.00
541-73-1	1,3-Dichlorobenzene	5.00	U	0.320	5.00
106-46-7	1,4-Dichlorobenzene	5.00	U	0.295	5.00
78-93-3	2-Butanone	10.0	U	0.641	10.0
591-78-6	2-Hexanone	10.0	U	0.443	10.0
108-10-1	4-Methyl-2-pentanone	10.0	U	0.252	10.0
67-64-1	Acetone	10.0	U	2.36	10.0
71-43-2	Benzene	1.00	U	0.100	1.00
75-27-4	Bromodichloromethane	0.600	U	0.102	0.600
75-25-2	Bromoform	4.00	U	0.140	4.00
74-83-9	Bromomethane	5.00	U	0.330	5.00
75-15-0	Carbon disulfide	5.00	U	0.180	5.00
56-23-5	Carbon tetrachloride	3.00	U	0.161	3.00
108-90-7	Chlorobenzene	5.00	U	0.157	5.00
75-00-3	Chloroethane	5.00	U	0.237	5.00
67-66-3	Chloroform	5.00	U	0.140	5.00
74-87-3	Chloromethane	2.70	U	0.393	2.70
110-82-7	Cyclohexane	5.00	U	0.169	5.00
124-48-1	Dibromochloromethane	0.400	U	0.105	0.400
75-71-8	Dichlorodifluoromethane	5.00	U	0.228	5.00
10061-01-5	cis-1,3-Dichloropropene	5.00	U	0.128	5.00
10061-02-6	trans-1,3-Dichloropropene	5.00	U	0.329	5.00
100-41-4	Ethylbenzene	5.00	U	0.312	5.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MB91383

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203033106

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 91383

Level: (low/med) LOW Lab File ID: 2030402/S8148

% Moisture: not dec. Date Collected: Time:

GC Column: DB-624-30M ID: .53 (mm Date Received:

Instrument ID: MSV1 Date Analyzed: 04/02/03 Time: 1054

Soil Extract Volume: (µL Dilution Factor: 1 Analyst: KRV

Soil Aliquot Volume: (µL

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT		MDL	RL
98-82-8	Isopropylbenzene (Cumene)	5.00	U	0.246	5.00
79-20-9	Methyl Acetate	5.00	U	5.00	5.00
108-87-2	Methylcyclohexane	5.00	U	5.00	5.00
75-09-2	Methylene chloride	5.00	U	0.613	5.00
100-42-5	Styrene	5.00	U	0.173	5.00
127-18-4	Tetrachloroethene	3.00	U	0.269	3.00
108-88-3	Toluene	5.00	U	0.152	5.00
79-01-6	Trichloroethene	3.00	U	0.323	3.00
75-69-4	Trichlorofluoromethane	5.00	U	0.192	5.00
76-13-1	Trichlorotrifluoroethane	5.00	U	0.193	5.00
75-01-4	Vinyl chloride	1.00	U	0.177	1.00
1330-20-7	Xylene (total)	5.00	U	0.507	5.00
156-59-2	cis-1,2-Dichloroethene	5.00	U	0.151	5.00
1634-04-4	tert-Butyl methyl ether (MTBE)	5.00	U	0.122	5.00
156-60-5	trans-1,2-Dichloroethene	5.00	U	0.192	5.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

LCS91382

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203033106

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 91382

Level: (low/med) LOW Lab File ID: 2030402/S8145

% Moisture: not dec. Date Collected: Time:

GC Column: DB-624-30M ID: .53 (mm Date Received:

Instrument ID: MSV1 Date Analyzed: 04/02/03 Time: 0940

Soil Extract Volume: (µL Dilution Factor: 1 Analyst: KRV

Soil Aliquot Volume: (µL

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT		MDL	RL
71-55-6	1,1,1-Trichloroethane	23.9		0.204	5.00
79-34-5	1,1,2,2-Tetrachloroethane	21.5		0.200	0.200
79-00-5	1,1,2-Trichloroethane	28.9		0.333	5.00
75-34-3	1,1-Dichloroethane	26.1		0.122	5.00
75-35-4	1,1-Dichloroethene	27.7		0.357	5.00
120-82-1	1,2,4-Trichlorobenzene	31.9		0.405	5.00
96-12-8	1,2-Dibromo-3-chloropropane	22.1		0.200	0.200
106-93-4	1,2-Dibromoethane	24.8		0.116	0.200
95-50-1	1,2-Dichlorobenzene	26.3		0.221	5.00
107-06-2	1,2-Dichloroethane	23.2		0.277	3.00
78-87-5	1,2-Dichloropropane	25.0		0.341	5.00
541-73-1	1,3-Dichlorobenzene	30.7		0.320	5.00
106-46-7	1,4-Dichlorobenzene	25.6		0.295	5.00
78-93-3	2-Butanone	26.4		0.641	10.0
591-78-6	2-Hexanone	25.9		0.443	10.0
108-10-1	4-Methyl-2-pentanone	20.1		0.252	10.0
67-64-1	Acetone	26.8		2.36	10.0
71-43-2	Benzene	24.8		0.100	1.00
75-27-4	Bromodichloromethane	20.6		0.102	0.600
75-25-2	Bromoform	26.5		0.140	4.00
74-83-9	Bromomethane	24.0		0.330	5.00
75-15-0	Carbon disulfide	26.8		0.180	5.00
56-23-5	Carbon tetrachloride	24.4		0.161	3.00
108-90-7	Chlorobenzene	27.6		0.157	5.00
75-00-3	Chloroethane	24.7		0.237	5.00
67-66-3	Chloroform	26.6		0.140	5.00
74-87-3	Chloromethane	25.6		0.393	2.70
110-82-7	Cyclohexane	25.9		0.169	5.00
124-48-1	Dibromochloromethane	27.9		0.105	0.400
75-71-8	Dichlorodifluoromethane	25.9		0.228	5.00
10061-01-5	cis-1,3-Dichloropropene	21.9		0.128	5.00
10061-02-6	trans-1,3-Dichloropropene	29.1		0.329	5.00
100-41-4	Ethylbenzene	30.0		0.312	5.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

LCS91382

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203033106

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 91382

Level: (low/med) LOW Lab File ID: 2030402/S8145

% Moisture: not dec. Date Collected: Time:

GC Column: DB-624-30M ID: .53 (mm Date Received:

Instrument ID: MSV1 Date Analyzed: 04/02/03 Time: 0940

Soil Extract Volume: (µL Dilution Factor: 1 Analyst: KRV

Soil Aliquot Volume: (µL

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT		MDL	RL
98-82-8	Isopropylbenzene (Cumene)	26.9		0.246	5.00
79-20-9	Methyl Acetate	17.3		5.00	5.00
108-87-2	Methylcyclohexane	27.3		5.00	5.00
75-09-2	Methylene chloride	25.7		0.613	5.00
100-42-5	Styrene	26.8		0.173	5.00
127-18-4	Tetrachloroethene	27.6		0.269	3.00
108-88-3	Toluene	28.6		0.152	5.00
79-01-6	Trichloroethene	23.6		0.323	3.00
75-69-4	Trichlorofluoromethane	26.5		0.192	5.00
76-13-1	Trichlorotrifluoroethane	25.3		0.193	5.00
75-01-4	Vinyl chloride	27.3		0.177	1.00
1330-20-7	Xylene (total)	80.7		0.507	5.00
156-59-2	cis-1,2-Dichloroethene	26.2		0.151	5.00
1634-04-4	tert-Butyl methyl ether (MTBE)	26.4		0.122	5.00
156-60-5	trans-1,2-Dichloroethene	27.3		0.192	5.00

2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203033106

	SAMPLE NO.	SMC1	#	SMC2	#	SMC3	#	SMC4	#	TOT OUT
1 .	021-WC1-L-0328-03	86		85		99		94		0
2 .	021-WC3-L-0328-03 (WATER)	86		88		99		95		0
3 .	021-WC1-L-0328-03MS	83		86		99		89		0
4 .	021-WC1-L-0328-03MSD	87		86		100		93		0
5 .	LCS91382	87		92		100		94		0
6 .	MB91383	86		87		100		92		0

		QC LIMITS
SMC 1	4-Bromofluorobenzene	78 - 115
SMC 2	Dibromofluoromethane	70 - 130
SMC 3	Toluene-d8	83 - 112
SMC 4	1,2-Dichloroethane-d4	76 - 128

Column to be used to flag recovery values

* Values outside of contract required QC limits

3A

WATER VOLATILE LCS/LCSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203033106

SAMPLE NO. : 91382

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS % REC	#	QC. LIMITS
1,1,1-Trichloroethane	ug/L	25	0	23.9	96		45 - 152
1,1,2,2-Tetrachloroethane	ug/L	25	0	21.5	86		55 - 153
1,1,2-Trichloroethane	ug/L	25	0	28.9	116		73 - 144
1,1-Dichloroethane	ug/L	25	0	26.1	104		75 - 127
1,1-Dichloroethene	ug/L	25	0	27.7	111		67 - 140
1,2,4-Trichlorobenzene	ug/L	25	0	31.9	128		60 - 148
1,2-Dibromo-3-chloropropane	ug/L	25	0	22.1	88		58 - 148
1,2-Dibromoethane	ug/L	25	0	24.8	99		74 - 140
1,2-Dichlorobenzene	ug/L	25	0	26.3	105		67 - 142
1,2-Dichloroethane	ug/L	25	0	23.2	93		79 - 134
1,2-Dichloropropane	ug/L	25	0	25	100		77 - 129
1,3-Dichlorobenzene	ug/L	25	0	30.7	123		65 - 143
1,4-Dichlorobenzene	ug/L	25	0	25.6	102		68 - 142
2-Butanone	ug/L	25	0	26.4	106		59 - 157
2-Hexanone	ug/L	25	0	25.9	104		71 - 166
4-Methyl-2-pentanone	ug/L	25	0	20.1	80		65 - 159
Acetone	ug/L	25	0	26.8	107		58 - 165
Benzene	ug/L	25	0	24.8	99		74 - 128
Bromodichloromethane	ug/L	25	0	20.6	82		76 - 128
Bromoform	ug/L	25	0	26.5	106		67 - 145
Bromomethane	ug/L	25	0	24	96		73 - 147
Carbon disulfide	ug/L	25	0	26.8	107		37 - 155
Carbon tetrachloride	ug/L	25	0	24.4	98		75 - 128
Chlorobenzene	ug/L	25	0	27.6	110		78 - 125
Chloroethane	ug/L	25	0	24.7	99		46 - 160
Chloroform	ug/L	25	0	26.6	106		80 - 124
Chloromethane	ug/L	25	0	25.6	102		71 - 120
Cyclohexane	ug/L	25	0	25.9	104		70 - 130
Dibromochloromethane	ug/L	25	0	27.9	112		43 - 159
Dichlorodifluoromethane	ug/L	25	0	25.9	104		70 - 127
Ethylbenzene	ug/L	25	0	30	120		75 - 138
Isopropylbenzene (Cumene)	ug/L	25	0	26.9	108		66 - 151
Methyl Acetate	ug/L	25	0	17.3	69		40 - 170
Methylcyclohexane	ug/L	25	0	27.3	109		40 - 130
Methylene chloride	ug/L	25	0	25.7	103		74 - 130
Styrene	ug/L	25	0	26.8	107		75 - 139
Tetrachloroethene	ug/L	25	0	27.6	110		75 - 140
Toluene	ug/L	25	0	28.6	114		76 - 125

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 0 outside limits

Spike Recovery: 0 out of 48 outside limits

FORM III VOA-1

3A

WATER VOLATILE LCS/LCSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203033106

Trichloroethene	ug/L	25	0	23.6	94		63 - 118
Trichlorofluoromethane	ug/L	25	0	26.5	106		73 - 131
Trichlorotrifluoroethane	ug/L	25	0	25.3	101		70 - 130
Vinyl chloride	ug/L	25	0	27.3	109		68 - 127
Xylene (total)	ug/L	75	0	80.7	108		60 - 154
cis-1,2-Dichloroethene	ug/L	25	0	26.2	105		78 - 124
cis-1,3-Dichloropropene	ug/L	25	0	21.9	88		73 - 128
tert-Butyl methyl ether (MTBE)	ug/L	25	0	26.4	106		70 - 130
trans-1,2-Dichloroethene	ug/L	25	0	27.3	109		75 - 124
trans-1,3-Dichloropropene	ug/L	25	0	29.1	116		72 - 134

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 0 outside limits

Spike Recovery: 0 out of 48 outside limits

4A

VOLATILE METHOD BLANK SUMMARY

SAMPLE NO.

MB91383

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203033106

Lab File ID: 2030402/S8148

Lab Sample ID: 91383 Date Extracted:

GC Column: DB-624-30M ID: .53 (mm

Date Analyzed: 04/02/03 Time: 1054

Instrument ID: MSV1 Matrix: Water

Heated Purge: N

Level: LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1.	LCS91382	91382	2030402/S8145	04/02/03	0940
2.	021-WC1-L-0328-03	20303310601	2030402/S8149	04/02/03	1129
3.	021-WC3-L-0328-03 (WATER)	20303310603	2030402/S8150	04/02/03	1154
4.	021-WC1-L-0328-03MS	91471	2030402/S8153M	04/02/03	1308
5.	021-WC1-L-0328-03MSD	91472	2030402/S8155M	04/02/03	1358

5A

VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203033106

Lab File ID: 2030320/S7973 BFB Injection Date: 03/20/03

Instrument ID: MSV1 BFB Injection Time: 0849

GC Column: DB-624-30M ID: .53 (mm

m / e	ION ABUNDANCE CRITERIA	% Relative Abundance			
50	15.0 - 40.0% of mass 95	18.11	(	)	
75	30.0 - 60.0% of mass 95	46.93	(	)	
95	Base Peak, 100% relative abundance	100	(	)	
96	5.0 -9.0% of mass 95	7.9	(	)	
173	Less than 2.0% of mass 174	0	(0	)	1
174	50.0 - 99.9% of mass 95	68.49	(	)	
175	5.0 - 9.0% of mass 174	5.17	(7.55	)	1
176	95.0 - 101.0% of mass 174	67.24	(98.18	)	1
177	5.0 - 9.0% of mass 176	4.88	(7.26	)	2

1- Value is % mass 174 2- Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1 .	V1STD002	1206	2030320/S7975	03/20/03	1036
2 .	V1STD005	1201	2030320/S7976	03/20/03	1100
3 .	V1STD020	1202	2030320/S7977	03/20/03	1125
4 .	V1STD050	1203	2030320/S7978	03/20/03	1150
5 .	V1STD100	1204	2030320/S7979	03/20/03	1214
6 .	V1STD200	1205	2030320/S7980	03/20/03	1250
7 .	V1STD00.2	1207	2030320/S7982	03/20/03	1340
8 .	V1STD00.4	1208	2030320/S7983	03/20/03	1405

5A

VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203033106

Lab File ID: 2030402/S8142 BFB Injection Date: 04/02/03

Instrument ID: MSV1 BFB Injection Time: 0752

GC Column: DB-624-30M ID: .53 (mm

m / e	ION ABUNDANCE CRITERIA	% Relative Abundance			
50	15.0 - 40.0% of mass 95	17.7	(	)	
75	30.0 - 60.0% of mass 95	46.47	(	)	
95	Base Peak, 100% relative abundance	100	(	)	
96	5.0 -9.0% of mass 95	8.1	(	)	
173	Less than 2.0% of mass 174	0	(0	)	1
174	50.0 - 99.9% of mass 95	64.73	(	)	
175	5.0 - 9.0% of mass 174	5.18	(8.01	)	1
176	95.0 - 101.0% of mass 174	63.46	(98.05	)	1
177	5.0 - 9.0% of mass 176	4.38	(6.91	)	2

1- Value is % mass 174 2- Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1.	V1STD050	1400	2030402/S8143	04/02/03	0821
2.	LCS91382	91382	2030402/S8145	04/02/03	0940
3.	MB91383	91383	2030402/S8148	04/02/03	1054
4.	021-WC1-L-0328-03	20303310601	2030402/S8149	04/02/03	1129
5.	021-WC3-L-0328-03 (WATER)	20303310603	2030402/S8150	04/02/03	1154
6.	021-WC1-L-0328-03MS	91471	2030402/S8153M	04/02/03	1308
7.	021-WC1-L-0328-03MSD	91472	2030402/S8155M	04/02/03	1358

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: GCAL | Contract:

Lab Code: LA024 | Case No.: | SAS No.: | SDG No.: 203033106

Instrument ID: MSV1 | Calibration Date 1 03/20/03 | Time 1: 1036

GC Column: DB-624-30M | ID: .53 (mm) | Calibration Date 2 03/20/03 | Time 2: 1405

Heated Purge: (Y/N) N | Method: SW-846 8260

Lab File ID: Level 1: 1201 | Level 2: 1202 | Level 3: 1203

Level 4: 1204 | Level 5: 1205 | Level 6: 1206

Level 7: 1207 | Level 8: 1208 | Level 9:

COMPOUND	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	$\overline{RF}$	RSD	#	LIMIT	TYPE
Acetone	0.046	0.035	0.054	0.041	0.044					0.044	16.26		50	Averaged
Acrolein	0.006	0.006	0.008	0.011	0.012					0.009	30.84		50	Averaged
Acrylonitrile	0.052	0.052	0.053	0.056	0.054					0.053	3.195		50	Averaged
Bromochloromethane	0.200	0.209	0.217	0.225	0.230					0.216	5.514		50	Averaged
Bromodichloromethane	0.560	0.600	0.668	0.699	0.694	0.600		0.824		0.664	13.26		50	Averaged
Bromoform	0.602	0.628	0.692	0.713	0.668	0.609				0.652	7.066		50	Averaged
Bromomethane	0.186	0.215	0.235	0.249	0.229	0.243				0.226	10.05		50	Averaged
Carbon disulfide	0.448	0.621	0.691	0.782	0.808					0.670	21.57		50	Averaged
Carbon tetrachloride	0.241	0.384	0.414	0.493	0.499	0.340				0.395	24.70		50	Averaged
Chloroethane	0.124	0.161	0.173	0.183	0.176	0.181				0.166	13.41		50	Averaged
m,p-Xylene	0.838	0.967	1.019	1.047	0.903					0.955	8.937		50	Averaged
Chloroform	0.507	0.658	0.616	0.723	0.703					0.641	13.36		30	Averaged
Chloromethane	0.140	0.202	0.214	0.226	0.214	0.201				0.200	15.36		50	Averaged
Dibromochloromethane	0.820	0.887	0.944	0.985	0.931	0.948	0.764	0.855		0.892	8.381		50	Averaged
Dibromomethane	0.339	0.316	0.335	0.341	0.334					0.333	2.998		50	Averaged
Dichlorodifluoromethane	0.218	0.300	0.312	0.358	0.343					0.306	17.82		50	Averaged
1,1-Dichloroethane	0.451	0.521	0.550	0.591	0.598					0.542	11.04		50	Averaged
1,2-Dichloroethane	0.355	0.385	0.383	0.376	0.370	0.400				0.378	3.978		50	Averaged
cis-1,2-Dichloroethene	0.396	0.461	0.469	0.504	0.498					0.466	9.209		50	Averaged
trans-1,2-Dichloroethene	0.273	0.371	0.384	0.418	0.414					0.372	15.74		50	Averaged
Methylene chloride	0.355	0.339	0.358	0.361	0.383					0.359	4.445		50	Averaged
1,2-Dichloropropane	0.295	0.360	0.376	0.399	0.398					0.366	11.64		30	Averaged
cis-1,3-Dichloropropene	0.445	0.487	0.540	0.575	0.593					0.528	11.67		50	Averaged
trans-1,3-Dichloropropene	0.697	0.722	0.738	0.788	0.731					0.735	4.534		50	Averaged
Ethylbenzene	0.531	0.622	0.641	0.621	0.566					0.596	7.715		30	Averaged
2-Hexanone	0.420	0.324	0.344	0.338	0.303					0.346	12.80		50	Averaged
Isopropylbenzene (Cumene)	2.178	2.537	2.700	2.782	2.442					2.528	9.362		50	Averaged
2-Butanone	0.118	0.082	0.090	0.085	0.081					0.091	16.94		50	Averaged
Methyl iodide	0.423	0.521	0.586	0.625	0.623					0.556	15.36		50	Averaged
4-Methyl-2-pentanone	0.349	0.268	0.293	0.297	0.290					0.300	10.00		50	Averaged
n-Propylbenzene	2.452	2.951	3.149	3.327	2.962					2.968	11.01		50	Averaged
Styrene	1.498	1.598	1.707	1.731	1.553					1.618	6.161		50	Averaged
Tetrachloroethene	0.393	0.528	0.558	0.588	0.510	0.635				0.535	15.41		50	Averaged
1,1,1,2-Tetrachloroethane	0.612	0.716	0.737	0.755	0.667					0.697	8.326		50	Averaged
1,1,2,2-Tetrachloroethane	1.167	1.066	1.099	1.041	0.970	1.324	3.669	1.784		0.978	0.998		50	Linear

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: GCAL | Contract:

Lab Code: LA024 | Case No.: | SAS No.: | SDG No.: 203033106

Instrument ID: MSV1 | Calibration Date 1 03/20/03 | Time 1: 1036

GC Column: DB-624-30M | ID: .53 (mm) | Calibration Date 2 03/20/03 | Time 2: 1405

Heated Purge: (Y/N) N | Method: SW-846 8260

Lab File ID: Level 1: 1201 | Level 2: 1202 | Level 3: 1203

Level 4: 1204 | Level 5: 1205 | Level 6: 1206

Level 7: 1207 | Level 8: 1208 | Level 9:

COMPOUND	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	$\overline{RF}$	RSD	#	LIMIT	TYPE
1,2,4-Trichlorobenzene	0.496	0.612	0.531	0.813	0.775					0.645	22.13		50	Averaged
1,1,1-Trichloroethane	0.357	0.499	0.513	0.573	0.558					0.500	17.08		50	Averaged
1,1,2-Trichloroethane	0.619	0.649	0.634	0.649	0.609					0.632	2.835		50	Averaged
Trichlorofluoromethane	0.293	0.408	0.422	0.483	0.495					0.420	19.18		50	Averaged
1,2,3-Trichloropropane	1.121	1.246	1.396	1.428	1.301					1.298	9.469		50	Averaged
1,2,4-Trimethylbenzene	1.808	2.111	2.113	2.430	2.065					2.105	10.51		50	Averaged
1,3,5-Trimethylbenzene	1.872	2.241	2.375	2.497	2.697					2.213	11.11		50	Averaged
Vinyl chloride	0.148	0.209	0.224	0.241	0.238	0.215		0.191		0.210	15.43		30	Averaged
o-Xylene	0.883	0.901	0.982	1.00	0.886					0.930	6.013		50	Averaged
1,2-Dibromo-3-chloropropane	0.231	0.262	0.283	0.307	0.311		0.422	0.415		0.318	23.09		50	Averaged
1,2-Dibromoethane	0.813	0.826	0.854	0.857	0.790	0.925	1.273	1.071		0.926	17.91		50	Averaged
Vinyl acetate	0.204	0.209	0.220	0.233	0.271					0.227	11.87		50	Averaged
tert-Butyl methyl ether (MTBE)	0.538	0.562	0.588	0.652	0.678					0.604	9.847		50	Averaged
1,2-Dichloroethene	0.335	0.416	0.426	0.461	0.456			0.414		0.418	10.85		50	Averaged
4-Isopropyltoluene	1.909	2.362	2.463	2.650	2.343					2.345	11.62		50	Averaged
Xylene (total)	0.884	1.027	1.073	1.139	0.991					1.023	9.330		50	Averaged
Methylcyclohexane	0.243	0.328	0.361	0.400	0.368					0.340	17.57		50	Averaged
n-Hexane	0.146	0.201	0.213	0.241	0.217					0.204	17.35		50	Averaged
trans-1,4-Dichloro-2-butene	0.139	0.165	0.185	0.201	0.198					0.178	14.40		50	Averaged
Cyclohexane	0.249	0.378	0.417	0.494	0.477					0.403	24.31		50	Averaged
2,2-Dichloropropane	0.313	0.430	0.450	0.493	0.497					0.437	17.10		50	Averaged
Methyl Acetate	0.162	0.152	0.161	0.160	0.164					0.160	2.729		50	Averaged
Trichlorotrifluoroethane	0.310	0.444	0.441	0.507	0.501					0.441	17.95		50	Averaged
1,1-Dichloropropene	0.272	0.379	0.416	0.475	0.471					0.403	20.69		50	Averaged
2-Chloroethylvinyl ether	0.182	0.180	0.203	0.207	0.212					0.197	7.642		50	Averaged
1,3-Dichloropropane	0.977	0.976	1.00	1.012	0.929					0.979	3.222		50	Averaged
Bromobenzene	1.976	2.065	2.510	2.588	2.313					2.290	11.70		50	Averaged
2-Chlorotoluene	1.702	2.221	2.208	2.334	2.119					2.117	11.53		50	Averaged
4-Chlorotoluene	1.847	2.243	2.491	2.507	2.410					2.300	11.90		50	Averaged
tert-Butylbenzene	1.155	1.580	1.650	1.823	1.603					1.562	15.80		50	Averaged
sec-Butylbenzene	2.350	3.139	3.254	3.526	3.134					3.080	14.22		50	Averaged
1,3-Dichlorobenzene	1.034	1.054	1.147	1.208	1.028					1.094	7.277		50	Averaged
1,4-Dichlorobenzene	1.618	1.822	1.802	1.821	1.655					1.744	5.682		50	Averaged
n-Butylbenzene	1.577	1.830	1.608	2.219	1.963					1.840	14.44		50	Averaged
1,2-Dichlorobenzene	1.375	1.405	1.506	1.585	1.430					1.460	5.819		50	Averaged

FORM VI VOA

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203033106

Instrument ID: MSV1 Calibration Date 1 03/20/03 Time 1: 1036

GC Column: DB-624-30M ID: .53 (mm) Calibration Date 2 03/20/03 Time 2: 1405

Heated Purge: (Y/N) N Method: SW-846 8260

Lab File ID: Level 1: 1201 Level 2: 1202 Level 3: 1203

Level 4: 1204 Level 5: 1205 Level 6: 1206

Level 7: 1207 Level 8: 1208 Level 9:

COMPOUND	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	$\overline{RF}$	RSD	#	LIMIT	TYPE
Hexachlorobutadiene	0.310	0.389	0.415	0.472	0.435	0.411				0.405	13.38		50	Averaged
Naphthalene	0.854	0.924	1.033	1.387	1.487					1.137	24.92		50	Averaged
1,2,3-Trichlorobenzene	0.549	0.612	0.507	0.813	0.719					0.640	19.60		50	Averaged
1,1-Dichloroethene	0.172	0.234	0.238	0.263	0.272					0.236	16.67		30	Averaged
Benzene	0.710	0.854	0.898	0.956	0.937	0.999		1.399		0.965	22.10		50	Averaged
Trichloroethene	0.299	0.397	0.418	0.463	0.459	0.440				0.413	14.83		50	Averaged
Toluene	1.580	1.901	1.956	2.025	1.761					1.844	9.597		30	Averaged
Chlorobenzene	1.403	1.491	1.561	1.572	1.376					1.481	6.026		50	Averaged
4-Bromofluorobenzene	1.045	0.867	1.004	0.852	0.883					0.930	9.456		50	Averaged
Dibromofluoromethane	0.567	0.512	0.580	0.506	0.546					0.542	6.058		50	Averaged
Toluene-d8	1.983	1.782	1.975	1.701	1.641					1.816	8.629		50	Averaged
1,2-Dichloroethane-d4	0.188	0.164	0.188	0.170	0.184					0.179	6.285		50	Averaged

Gulf Coast Analytical Laboratories, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: ICV
Level: LOW
Data Type: MS DATA
SpikeList File: ICV.spk
Sublist File: 8260b.sub
Method File: /var/chem/msv1.i/2030320.s.b/8260Bw1.m
Misc Info: MSV~3060~*1*RSP

Client SDG: 2030320.s
Fraction: VOA
Client Smp ID: V1STD050
Operator: RSP
SampleType: LCS
Quant Type: ISTD

SPIKE	COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1	Dichlorodifluorome	50.0	67.7	135.31*	70-130
2	Chloromethane ++	50.0	63.2	126.42	70-130
3	Vinyl Chloride +	50.0	64.0	128.02	70-130
4	Bromomethane	50.0	61.9	123.76	70-130
5	Chloroethane	50.0	64.0	127.99	70-130
6	Trichlorofluoromet	50.0	69.8	139.68*	70-130
7	Acrolein	250	413	165.24*	70-130
8	1,1-Dichloroethene	50.0	69.1	138.11*	70-130
9	1,1,2Trichlotriflu	50.0	71.4	142.73*	70-130
10	Acetone	50.0	109	218.60*	70-130
11	Methyl Iodide	50.0	71.8	143.69*	70-130
12	Carbon Disulfide	50.0	65.8	131.69*	70-130
13	Methylene Chloride	50.0	64.7	129.48	70-130
14	Acrylonitrile	250	302	120.77	70-130
15	trans-1,2-Dichloro	50.0	67.7	135.30*	70-130
17	MTBE	50.0	64.8	129.63	70-130
18	1,1-Dichloroethane	50.0	65.3	130.68*	70-130
19	Vinyl Acetate	50.0	67.6	135.30*	70-130
20	cis-1,2-Dichloroet	50.0	64.9	129.79	70-130
21	2,2-Dichloropropan	50.0	68.6	137.16*	70-130
22	2-Butanone	50.0	82.8	165.69*	70-130
23	Bromochloromethane	50.0	61.3	122.68	70-130
24	Chloroform +	50.0	70.4	140.73*	70-130
26	1,1,1-Trichloroeth	50.0	64.8	129.66	70-130
27	1,1-Dichloropropen	50.0	68.2	136.34*	70-130
28	Carbon Tetrachlori	50.0	72.6	145.23*	70-130
30	1,2-Dichloroethane	50.0	63.6	127.30	70-130
31	Benzene	50.0	60.1	120.24	70-130
34	Trichloroethene	50.0	65.9	131.77*	70-130
36	1,2-Dichloropropan	50.0	59.0	117.91	70-130
37	Dibromomethane	50.0	61.5	123.02	70-130
38	Bromodichlorometha	50.0	61.1	122.28	70-130
39	2-Chloroethyl viny	50.0	60.8	121.55	70-130

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
40 cis-1,3-Dichloropr	50.0	66.1	132.15*	70-130
41 4-methyl-2-pentano	50.0	66.2	132.40*	70-130
43 Toluene +	50.0	53.2	106.38	70-130
44 trans-1,3-Dichloro	50.0	53.9	107.71	70-130
45 1,1,2-Trichloroeth	50.0	51.9	103.77	70-130
46 1,3-Dichloropropan	50.0	50.3	100.52	70-130
47 Tetrachloroethene	50.0	48.7	97.44	70-130
48 2-Hexanone	50.0	77.3	154.54*	70-130
49 Dibromochlorometha	50.0	45.1	90.14	70-130
50 1,2-Dibromoethane (	50.0	40.8	81.62	70-130
52 Chlorobenzene ++	50.0	45.6	91.23	70-130
53 1,1,1,2-Tetrachlor	50.0	46.4	92.80	70-130
54 Ethylbenzene +	50.0	48.5	96.93	70-130
55 p,m-Xylene	100	88.5	88.49	70-130
56 o-Xylene	50.0	45.6	91.21	70-130
57 Styrene	50.0	43.6	87.10	70-130
58 Bromoform ++	50.0	46.5	93.09	70-130
59 Isopropylbenzene	50.0	42.8	85.60	70-130
61 1,1,2,2-Tetrachlor	50.0	42.6	85.11	70-130
62 trans-1,4-Dichloro	50.0	49.7	99.46	70-130
63 1,2,3-Trichloropro	50.0	44.6	89.22	70-130
64 Bromobenzene	50.0	43.0	86.02	70-130
65 n-Propylbenzene	50.0	40.9	81.70	70-130
66 2-Chlorotoluene	50.0	42.4	84.88	70-130
67 1,3,5-Trimethylben	50.0	49.4	98.90	70-130
68 4-Chlorotoluene	50.0	42.0	83.90	70-130
69 tert-butylbenzene	50.0	41.1	82.30	70-130
70 1,2,4-Trimethylben	50.0	40.0	79.92	70-130
71 sec-Butylbenzene	50.0	42.5	85.03	70-130
72 p-Isopropyltoluene	50.0	42.1	84.20	70-130
73 1,3-Dichlorobenzen	50.0	41.7	83.37	70-130
75 1,4-Dichlorobenzen	50.0	43.7	87.43	70-130
76 1,2-Dichlorobenzen	50.0	41.2	82.47	70-130
77 n-Butylbenzene	50.0	43.1	86.27	70-130
79 1,2-Dibromo-3-Chlo	50.0	37.6	75.26	70-130
80 1,2,4-Trichloroben	50.0	44.8	89.60	70-130
81 Hexachlorobutadien	50.0	39.6	79.21	70-130
82 Naphthalene	50.0	46.3	92.55	70-130
83 1,2,3-Trichloroben	50.0	41.8	83.59	70-130

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 25 Dibromofluorometha	50.0	64.4	128.82	70-130

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 29 1,2-Dichloroethane	50.0	62.1	124.24	76-128
$ 42 Toluene-d8	50.0	52.0	104.08	83-112
$ 60 Bromofluorobenzene	50.0	44.9	89.88	78-115

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203033106

Instrument ID: MSV1

Calibration Date: 04/02/03 Time: 0821

Lab File ID: 2030402/S8143

Init. Calib. Date 1: 03/20/03 Time 1: 1036

Heated Purge: (Y/N) N

Init. Calib. Date 2: 03/20/03 Time 2: 1405

GC Column: DB-624-30M ID: .53 (mm)

COMPOUND	$\overline{RRF}$	RRF50	Min RRF	% D	Max %D
Acetone	0.044	0.050	0	13.6	50
Acrolein	0.009	0.005	0	-41.2	50
Acrylonitrile	0.053	0.056	0	5.696	50
Bromochloromethane	0.216	0.207	0	-4.15	50
Bromodichloromethane	0.664	0.602	0	-9.24	50
Bromoform	0.652	0.695	.1	6.560	50
Bromomethane	0.226	0.205	0	-9.57	50
Carbon disulfide	0.670	0.690	0	2.996	50
Carbon tetrachloride	0.395	0.393	0	-0.67	50
Chloroethane	0.166	0.163	0	-2.15	50
m,p-Xylene	0.955	1.008	0	5.650	50
Chloroform	0.641	0.636	0	-0.89	20
Chloromethane	0.200	0.200	.1	0.097	50
Dibromochloromethane	0.892	0.992	0	11.2	50
Dibromomethane	0.333	0.305	0	-8.39	50
Dichlorodifluoromethane	0.306	0.305	0	-0.37	50
1,1-Dichloroethane	0.542	0.528	.1	-2.63	50
1,2-Dichloroethane	0.378	0.350	0	-7.37	50
cis-1,2-Dichloroethene	0.466	0.445	0	-4.35	50
trans-1,2-Dichloroethene	0.372	0.372	0	0.110	50
Methylene chloride	0.359	0.344	0	-4.37	50
1,2-Dichloropropane	0.366	0.361	0	-1.35	20
cis-1,3-Dichloropropene	0.528	0.498	0	-5.71	50
trans-1,3-Dichloropropene	0.735	0.823	0	11.9	50
Ethylbenzene	0.596	0.645	0	8.249	20
2-Hexanone	0.346	0.368	0	6.513	50
Isopropylbenzene (Cumene)	2.528	2.677	0	5.928	50
2-Butanone	0.091	0.090	0	-1.10	50
Methyl iodide	0.556	0.483	0	-13.0	50
4-Methyl-2-pentanone	0.300	0.274	0	-8.41	50
n-Propylbenzene	2.968	3.123	0	5.213	50
Styrene	1.618	1.692	0	4.603	50
Tetrachloroethene	0.535	0.578	0	7.899	50
1,1,1,2-Tetrachloroethane	0.697	0.762	0	9.309	50
1,1,2,2-Tetrachloroethane	0.978	1.275	.3	-15.8	50
1,2,4-Trichlorobenzene	0.645	0.798	0	23.6	50
1,1,1-Trichloroethane	0.500	0.468	0	-6.43	50
1,1,2-Trichloroethane	0.632	0.708	0	12.0	50
Trichlorofluoromethane	0.420	0.429	0	2.062	50

FORM V II VOA

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203033106

Instrument ID: MSV1

Calibration Date: 04/02/03 Time: 0821

Lab File ID: 2030402/S8143

Init. Calib. Date 1: 03/20/03 Time 1: 1036

Heated Purge: (Y/N) N

Init. Calib. Date 2: 03/20/03 Time 2: 1405

GC Column: DB-624-30M ID: .53 (mm)

COMPOUND	$\overline{RRF}$	RRF50	Min RRF	% D	Max %D
1,2,3-Trichloropropane	1.298	1.431	0	10.2	50
1,2,4-Trimethylbenzene	2.105	2.308	0	9.652	50
1,3,5-Trimethylbenzene	2.213	2.328	0	5.176	50
Vinyl chloride	0.210	0.216	0	3.143	20
o-Xylene	0.930	0.967	0	3.962	50
1,2-Dibromo-3-chloropropane	0.318	0.288	0	-9.57	50
1,2-Dibromoethane	0.926	0.906	0	-2.19	50
Vinyl acetate	0.227	0.178	0	-21.7	50
tert-Butyl methyl ether (MTBE)	0.604	0.610	0	1.013	50
1,2-Dichloroethene	0.418	0.409	0	-2.12	50
4-Isopropyltoluene	2.345	2.429	0	3.584	50
Xylene (total)	1.023	1.061	0	5.088	50
Methylcyclohexane	0.340	0.373	0	9.653	50
n-Hexane	0.204	0.232	0	14.2	50
trans-1,4-Dichloro-2-butene	0.178	0.203	0	14.1	50
Cyclohexane	0.403	0.404	0	0.405	50
2,2-Dichloropropane	0.437	0.436	0	-0.23	50
Methyl Acetate	0.160	0.103	0	-35.5	50
Trichlorotrifluoroethane	0.441	0.435	0	-1.33	50
1,1-Dichloropropene	0.403	0.411	0	2.122	50
2-Chloroethylvinyl ether	0.197	0.149	0	-24.1	50
1,3-Dichloropropane	0.979	1.101	0	12.4	50
Bromobenzene	2.290	2.544	0	11.1	50
2-Chlorotoluene	2.117	2.225	0	5.085	50
4-Chlorotoluene	2.300	2.342	0	1.836	50
tert-Butylbenzene	1.562	1.663	0	6.475	50
sec-Butylbenzene	3.080	3.265	0	5.994	50
1,3-Dichlorobenzene	1.094	1.189	0	8.602	50
1,4-Dichlorobenzene	1.744	1.645	0	-5.66	50
n-Butylbenzene	1.840	2.104	0	14.4	50
1,2-Dichlorobenzene	1.460	1.451	0	-0.60	50
Hexachlorobutadiene	0.405	0.438	0	8.038	50
Naphthalene	1.137	1.923	0	69.2	50
1,2,3-Trichlorobenzene	0.640	0.782	0	22.1	50
1,1-Dichloroethene	0.236	0.248	0	5.188	20
Benzene	0.965	0.899	0	-6.85	50
Trichloroethene	0.413	0.382	0	-7.47	50
Toluene	1.844	2.068	0	12.1	20
Chlorobenzene	1.481	1.560	.3	5.380	50

FORM VII VOA

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203033106

Instrument ID: MSV1

Calibration Date: 04/02/03 Time: 0821

Lab File ID: 2030402/S8143

Init. Calib. Date 1: 03/20/03 Time 1: 1036

Heated Purge: (Y/N) N

Init. Calib. Date 2: 03/20/03 Time 2: 1405

GC Column: DB-624-30M ID: .53 (mm)

COMPOUND	$\overline{RRF}$	RRF50	Min RRF	% D	Max %D
4-Bromofluorobenzene	0.930	0.799	0	-14.1	50
Dibromofluoromethane	0.542	0.508	0	-6.42	50
Toluene-d8	1.816	1.816	0	-0.02	50
1,2-Dichloroethane-d4	0.179	0.169	0	-5.71	50

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203033106

Lab File ID (Standard): 2030402/S8143

Date Analyzed: 04/02/03

Instrument ID: MSV1

Time: 0821

GC Column: DB-624-30M ID: .53 (mm)

Heated Purge: (Y/N) N

	IS 1 Area	RT	IS 2 Area	RT	IS 3 Area	RT
12 HOUR STD	970370	8.857	1897592	6.797	909979	10.92
UPPER LIMIT	1940740	9.357	3795184	7.297	1819958	11.42
LOWER LIMIT	485185	8.357	948796	6.297	454989.5	10.42

EPA Sample			#		#		#		#		#		#
1 .	LCS91382	999274		8.86		2189330		6.8		919991		10.93	
2 .	MB91383	1017278		8.85		1988260		6.79		945988		10.92	
3 .	021-WC1-L-0328-03	920380		8.85		1851834		6.79		871301		10.93	
4 .	021-WC3-L-0328-03 (WATER)	954532		8.85		1885179		6.8		899731		10.92	
5 .	021-WC1-L-0328-03MS	1007138		8.85		2027847		6.8		917109		10.92	
6 .	021-WC1-L-0328-03MSD	1008571		8.85		2023992		6.79		957510		10.92	

IS 1 ID : Chlorobenzene-d5
IS 2 ID : Fluorobenzene
IS 3 ID : 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RTLOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk
* Value outside of QC limits

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203033106

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: 021-WC1-L-0328-03

Contract:

Lab File ID: 2030403/A6165

Lab Sample ID: 20303310601

Date Collected: 03/28/03 Time: 1348

Date Received: 03/29/03

Date Extracted: 04/01/03

Date Analyzed: 04/03/03 Time: 1222

Dilution Factor: 10 Analyst: RLW

Prep Method: 3510

Analytical Method: SW-846 8270

Instrument ID: MSSV1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	PQL
95-95-4	2,4,5-Trichlorophenol	40.0	U	1.17	40.0
88-06-2	2,4,6-Trichlorophenol	30.0	U	2.34	30.0
120-83-2	2,4-Dichlorophenol	5.00	U	2.01	5.00
51-28-5	2,4-Dinitrophenol	500	U	5.59	500
121-14-2	2,4-Dinitrotoluene	4.00	U	1.58	4.00
606-20-2	2,6-Dinitrotoluene	4.00	U	3.02	4.00
91-58-7	2-Chloronaphthalene	100	U	2.81	100
95-57-8	2-Chlorophenol	100	U	1.09	100
91-57-6	2-Methylnaphthalene	100	U	2.41	100
88-74-4	2-Nitroaniline	500	U	2.01	500
88-75-5	2-Nitrophenol	100	U	1.86	100
91-94-1	3,3'-Dichlorobenzidine	200	U	1.51	200
99-09-2	3-Nitroaniline	500	U	1.12	500
534-52-1	2-Methyl-4,6-dinitrophenol	500	U	5.73	500
59-50-7	4-Chloro-3-methylphenol	100	U	1.71	100
106-47-8	4-Chloroaniline	100	U	1.62	100
7005-72-3	4-Chlorophenyl-phenylether	100	U	1.72	100
83-32-9	Acenaphthene	100	U	1.85	100
208-96-8	Acenaphthylene	100	U	2.26	100
98-86-2	Acetophenone	100	U	2.16	100
120-12-7	Anthracene	100	U	2.73	100
1912-24-9	Atrazine (Aatrex)	200	U	1.95	200
100-52-7	Benzaldehyde	200	U	1.10	200
56-55-3	Benzo(a)anthracene	4.00	U	1.75	4.00
50-32-8	Benzo(a)pyrene	4.00	U	1.98	4.00
205-99-2	Benzo(b)fluoranthene	4.00	U	1.61	4.00
191-24-2	Benzo(g,h,i)perylene	100	U	1.31	100
207-08-9	Benzo(k)fluoranthene	5.00	U	2.00	5.00
92-52-4	Biphenyl	100	U	1.93	100
111-91-1	Bis(2-Chloroethoxy)methane	100	U	1.95	100

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203033106

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: 021-WC1-L-0328-03

Contract:

Lab File ID: 2030403/A6165

Lab Sample ID: 20303310601

Date Collected: 03/28/03 Time: 1348

Date Received: 03/29/03

Date Extracted: 04/01/03

Date Analyzed: 04/03/03 Time: 1222

Dilution Factor: 10 Analyst: RLW

Prep Method: 3510

Analytical Method: SW-846 8270

Instrument ID: MSSV1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	PQL
111-44-4	Bis(2-Chloroethyl)ether	40.0	U	1.55	40.0
108-60-1	bis(2-Chloroisopropyl)ether	100	U	2.70	100
117-81-7	bis(2-ethylhexyl)phthalate	50.0	U	5.65	50.0
101-55-3	4-Bromophenyl-phenylether	100	U	2.29	100
85-68-7	Butylbenzylphthalate	100	U	2.00	100
105-60-2	Caprolactam	100	U	3.09	100
86-74-8	Carbazole	40.0	U	1.06	40.0
218-01-9	Chrysene	50.0	U	1.70	50.0
84-74-2	Di-n-butylphthalate	100	U	8.94	100
117-84-0	Di-n-octylphthalate	100	U	1.92	100
53-70-3	Dibenz(a,h)anthracene	4.00	U	2.73	4.00
132-64-9	Dibenzofuran	100	U	1.70	100
84-66-2	Diethylphthalate	100	U	1.30	100
131-11-3	Dimethyl-phthalate	100	U	1.95	100
206-44-0	Fluoranthene	100	U	1.10	100
86-73-7	Fluorene	100	U	1.50	100
118-74-1	Hexachlorobenzene	10.0	U	2.83	10.0
87-68-3	Hexachlorobutadiene	5.00	U	1.05	5.00
77-47-4	Hexachlorocyclopentadiene	100	U	3.60	100
67-72-1	Hexachloroethane	20.0	U	1.09	20.0
193-39-5	Indeno(1,2,3-cd)pyrene	4.00	U	1.71	4.00
78-59-1	Isophorone	100	U	4.67	100
91-20-3	Naphthalene	100	U	2.99	100
100-01-6	4-Nitroaniline	500	U	1.34	500
98-95-3	Nitrobenzene	40.0	U	1.89	40.0
100-02-7	4-Nitrophenol	500	U	3.97	500
87-86-5	Pentachlorophenol	500	U	9.26	500
85-01-8	Phenanthrene	100	U	1.19	100
108-95-2	Phenol	100	U	2.87	100
129-00-0	Pyrene	100	U	1.32	100
1319-77-3M	m,p-Cresol	100	U	1.04	100

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203033106

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: 021-WC1-L-0328-03

Contract:

Lab File ID: 2030403/A6165

Lab Sample ID: 20303310601

Date Collected: 03/28/03 Time: 1348

Date Received: 03/29/03

Date Extracted: 04/01/03

Date Analyzed: 04/03/03 Time: 1222

Dilution Factor: 10 Analyst: RLW

Prep Method: 3510

Analytical Method: SW-846 8270

Instrument ID: MSSV1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	PQL
621-64-7	N-Nitroso-di-n-propylamine	40.0	U	3.17	40.0
86-30-6	N-Nitrosodiphenylamine	70.0	U	1.17	70.0
95-48-7	o-Cresol	100	U	4.90	100

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL
Lab Code: LA024 2 Case No.:
SAS No.: SDG No.: 203033106
Matrix: Water
Sample wt/vol: Units:
Level: (low/med)
% Moisture: not dec.
GC Column: DB-5MS-30M ID: .25 (mm)
Concentrated Extract Volume: (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

Sample ID: 021-WC1-L-0328-03
Contract:
Lab File ID: 2030403/A6165
Lab Sample ID: 20303310601
Date Collected: 03/28/03 Time: 1348
Date Received: 03/29/03
Date Extracted:
Date Analyzed: 04/03/03 Time: 1222
Dilution Factor: 10 Analyst: RLW
Prep Method:
Analytical Method: SW-846 8270C
Instrument ID: MSSV1

Number TICs Found : 1

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	85-44-9	Phthalic anhydride	5.367	123	

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203033106

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: 021-WC3-L-0328-03 (WATER)

Contract:

Lab File ID: 2030404/A6199

Lab Sample ID: 20303310604

Date Collected: 04/02/03 Time: 1300

Date Received: 04/03/03

Date Extracted: 04/04/03

Date Analyzed: 04/04/03 Time: 2027

Dilution Factor: 10 Analyst: RLW

Prep Method: 3510

Analytical Method: SW-846 8270

Instrument ID: MSSV1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	PQL
95-95-4	2,4,5-Trichlorophenol	40.0	U	1.17	40.0
88-06-2	2,4,6-Trichlorophenol	30.0	U	2.34	30.0
120-83-2	2,4-Dichlorophenol	5.00	U	2.01	5.00
51-28-5	2,4-Dinitrophenol	500	U	5.59	500
121-14-2	2,4-Dinitrotoluene	4.00	U	1.58	4.00
606-20-2	2,6-Dinitrotoluene	4.00	U	3.02	4.00
91-58-7	2-Chloronaphthalene	100	U	2.81	100
95-57-8	2-Chlorophenol	100	U	1.09	100
91-57-6	2-Methylnaphthalene	100	U	2.41	100
88-74-4	2-Nitroaniline	500	U	2.01	500
88-75-5	2-Nitrophenol	100	U	1.86	100
91-94-1	3,3'-Dichlorobenzidine	200	U	1.51	200
99-09-2	3-Nitroaniline	500	U	1.12	500
534-52-1	2-Methyl-4,6-dinitrophenol	500	U	5.73	500
59-50-7	4-Chloro-3-methylphenol	100	U	1.71	100
106-47-8	4-Chloroaniline	100	U	1.62	100
7005-72-3	4-Chlorophenyl-phenylether	100	U	1.72	100
83-32-9	Acenaphthene	100	U	1.85	100
208-96-8	Acenaphthylene	100	U	2.26	100
98-86-2	Acetophenone	100	U	2.16	100
120-12-7	Anthracene	100	U	2.73	100
1912-24-9	Atrazine (Aatrex)	200	U	1.95	200
100-52-7	Benzaldehyde	200	U	1.10	200
56-55-3	Benzo(a)anthracene	4.00	U	1.75	4.00
50-32-8	Benzo(a)pyrene	4.00	U	1.98	4.00
205-99-2	Benzo(b)fluoranthene	4.00	U	1.61	4.00
191-24-2	Benzo(g,h,i)perylene	100	U	1.31	100
207-08-9	Benzo(k)fluoranthene	5.00	U	2.00	5.00
92-52-4	Biphenyl	100	U	1.93	100
111-91-1	Bis(2-Chloroethoxy)methane	100	U	1.95	100

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203033106

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: 021-WC3-L-0328-03 (WATER)

Contract:

Lab File ID: 2030404/A6199

Lab Sample ID: 20303310604

Date Collected: 04/02/03 Time: 1300

Date Received: 04/03/03

Date Extracted: 04/04/03

Date Analyzed: 04/04/03 Time: 2027

Dilution Factor: 10 Analyst: RLW

Prep Method: 3510

Analytical Method: SW-846 8270

Instrument ID: MSSV1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	PQL
111-44-4	Bis(2-Chloroethyl)ether	40.0	U	1.55	40.0
108-60-1	bis(2-Chloroisopropyl)ether	100	U	2.70	100
117-81-7	bis(2-ethylhexyl)phthalate	50.0	U	5.65	50.0
101-55-3	4-Bromophenyl-phenylether	100	U	2.29	100
85-68-7	Butylbenzylphthalate	100	U	2.00	100
105-60-2	Caprolactam	100	U	3.09	100
86-74-8	Carbazole	40.0	U	1.06	40.0
218-01-9	Chrysene	50.0	U	1.70	50.0
84-74-2	Di-n-butylphthalate	100	U	8.94	100
117-84-0	Di-n-octylphthalate	100	U	1.92	100
53-70-3	Dibenz(a,h)anthracene	4.00	U	2.73	4.00
132-64-9	Dibenzofuran	100	U	1.70	100
84-66-2	Diethylphthalate	100	U	1.30	100
131-11-3	Dimethyl-phthalate	100	U	1.95	100
206-44-0	Fluoranthene	100	U	1.10	100
86-73-7	Fluorene	100	U	1.50	100
118-74-1	Hexachlorobenzene	10.0	U	2.83	10.0
87-68-3	Hexachlorobutadiene	5.00	U	1.05	5.00
77-47-4	Hexachlorocyclopentadiene	100	U	3.60	100
67-72-1	Hexachloroethane	20.0	U	1.09	20.0
193-39-5	Indeno(1,2,3-cd)pyrene	4.00	U	1.71	4.00
78-59-1	Isophorone	100	U	4.67	100
91-20-3	Naphthalene	100	U	2.99	100
100-01-6	4-Nitroaniline	500	U	1.34	500
98-95-3	Nitrobenzene	40.0	U	1.89	40.0
100-02-7	4-Nitrophenol	500	U	3.97	500
87-86-5	Pentachlorophenol	33.7	J	9.26	500
85-01-8	Phenanthrene	100	U	1.19	100
108-95-2	Phenol	100	U	2.87	100
129-00-0	Pyrene	100	U	1.32	100
1319-77-3M	m,p-Cresol	2.65	J	1.04	100

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203033106

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: 021-WC3-L-0328-03 (WATER)

Contract:

Lab File ID: 2030404/A6199

Lab Sample ID: 20303310604

Date Collected: 04/02/03 Time: 1300

Date Received: 04/03/03

Date Extracted: 04/04/03

Date Analyzed: 04/04/03 Time: 2027

Dilution Factor: 10 Analyst: RLW

Prep Method: 3510

Analytical Method: SW-846 8270

Instrument ID: MSSV1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	PQL
621-64-7	N-Nitroso-di-n-propylamine	40.0	U	3.17	40.0
86-30-6	N-Nitrosodiphenylamine	70.0	U	1.17	70.0
95-48-7	o-Cresol	8.35	J	4.90	100

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL

Lab Code: LA024 2 Case No.:

SAS No.: SDG No.: 203033106

Matrix: Water

Sample wt/vol: Units:

Level: (low/med)

% Moisture: not dec.

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: 021-WC3-L-0328-03 (WATER)

Contract:

Lab File ID: 2030404/A6199

Lab Sample ID: 20303310604

Date Collected: 04/02/03 Time: 1300

Date Received: 04/03/03

Date Extracted:

Date Analyzed: 04/04/03 Time: 2027

Dilution Factor: 10 Analyst: RLW

Prep Method:

Analytical Method: SW-846 8270C

Instrument ID: MSSV1

Number TICs Found : 4

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.		Unknown	6.395	629	
2.	1421-49-4	Benzoic acid, 3,5-bis(1,1-dime	7.118	801	
3.	57-11-4	Octadecanoic acid	7.785	408	
4.	80-05-7	Phenol, 4,4'-(1-methylethylide	7.885	959	

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203033106

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: MB91133

Contract:

Lab File ID: 2030402/A6139

Lab Sample ID: 91133

Date Collected: Time:

Date Received:

Date Extracted: 04/01/03

Date Analyzed: 04/02/03 Time: 1518

Dilution Factor: 1 Analyst: RLW

Prep Method: 3510

Analytical Method: SW-846 8270

Instrument ID: MSSV1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	PQL
95-95-4	2,4,5-Trichlorophenol	4.00	U	0.117	4.00
88-06-2	2,4,6-Trichlorophenol	3.00	U	0.234	3.00
120-83-2	2,4-Dichlorophenol	0.500	U	0.201	0.500
51-28-5	2,4-Dinitrophenol	50.0	U	0.559	50.0
121-14-2	2,4-Dinitrotoluene	0.400	U	0.158	0.400
606-20-2	2,6-Dinitrotoluene	0.400	U	0.302	0.400
91-58-7	2-Chloronaphthalene	10.0	U	0.281	10.0
95-57-8	2-Chlorophenol	10.0	U	0.109	10.0
91-57-6	2-Methylnaphthalene	10.0	U	0.241	10.0
88-74-4	2-Nitroaniline	50.0	U	0.201	50.0
88-75-5	2-Nitrophenol	10.0	U	0.186	10.0
91-94-1	3,3'-Dichlorobenzidine	20.0	U	0.151	20.0
99-09-2	3-Nitroaniline	50.0	U	0.112	50.0
534-52-1	2-Methyl-4,6-dinitrophenol	50.0	U	0.573	50.0
59-50-7	4-Chloro-3-methylphenol	10.0	U	0.171	10.0
106-47-8	4-Chloroaniline	10.0	U	0.162	10.0
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	0.172	10.0
83-32-9	Acenaphthene	10.0	U	0.185	10.0
208-96-8	Acenaphthylene	10.0	U	0.226	10.0
98-86-2	Acetophenone	10.0	U	0.216	10.0
120-12-7	Anthracene	10.0	U	0.273	10.0
1912-24-9	Atrazine (Aatrex)	20.0	U	0.195	20.0
100-52-7	Benzaldehyde	20.0	U	0.110	20.0
56-55-3	Benzo(a)anthracene	0.400	U	0.175	0.400
50-32-8	Benzo(a)pyrene	0.400	U	0.198	0.400
205-99-2	Benzo(b)fluoranthene	0.400	U	0.161	0.400
191-24-2	Benzo(g,h,i)perylene	10.0	U	0.131	10.0
207-08-9	Benzo(k)fluoranthene	0.500	U	0.200	0.500
92-52-4	Biphenyl	10.0	U	0.193	10.0
111-91-1	Bis(2-Chloroethoxy)methane	10.0	U	0.195	10.0

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203033106

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: MB91133

Contract:

Lab File ID: 2030402/A6139

Lab Sample ID: 91133

Date Collected: Time:

Date Received:

Date Extracted: 04/01/03

Date Analyzed: 04/02/03 Time: 1518

Dilution Factor: 1 Analyst: RLW

Prep Method: 3510

Analytical Method: SW-846 8270

Instrument ID: MSSV1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	PQL
111-44-4	Bis(2-Chloroethyl)ether	4.00	U	0.155	4.00
108-60-1	bis(2-Chloroisopropyl)ether	10.0	U	0.270	10.0
117-81-7	bis(2-ethylhexyl)phthalate	5.00	U	0.565	5.00
101-55-3	4-Bromophenyl-phenylether	10.0	U	0.229	10.0
85-68-7	Butylbenzylphthalate	10.0	U	0.200	10.0
105-60-2	Caprolactam	10.0	U	0.309	10.0
86-74-8	Carbazole	4.00	U	0.106	4.00
218-01-9	Chrysene	5.00	U	0.170	5.00
84-74-2	Di-n-butylphthalate	10.0	U	0.894	10.0
117-84-0	Di-n-octylphthalate	10.0	U	0.192	10.0
53-70-3	Dibenz(a,h)anthracene	0.400	U	0.273	0.400
132-64-9	Dibenzofuran	10.0	U	0.170	10.0
84-66-2	Diethylphthalate	10.0	U	0.130	10.0
131-11-3	Dimethyl-phthalate	10.0	U	0.195	10.0
206-44-0	Fluoranthene	10.0	U	0.110	10.0
86-73-7	Fluorene	10.0	U	0.150	10.0
118-74-1	Hexachlorobenzene	1.00	U	0.283	1.00
87-68-3	Hexachlorobutadiene	0.500	U	0.105	0.500
77-47-4	Hexachlorocyclopentadiene	10.0	U	0.360	10.0
67-72-1	Hexachloroethane	2.00	U	0.109	2.00
193-39-5	Indeno(1,2,3-cd)pyrene	0.400	U	0.171	0.400
78-59-1	Isophorone	10.0	U	0.467	10.0
91-20-3	Naphthalene	10.0	U	0.299	10.0
100-01-6	4-Nitroaniline	50.0	U	0.134	50.0
98-95-3	Nitrobenzene	4.00	U	0.189	4.00
100-02-7	4-Nitrophenol	50.0	U	0.397	50.0
87-86-5	Pentachlorophenol	50.0	U	0.926	50.0
85-01-8	Phenanthrene	10.0	U	0.119	10.0
108-95-2	Phenol	10.0	U	0.287	10.0
129-00-0	Pyrene	10.0	U	0.132	10.0
1319-77-3M	m,p-Cresol	10.0	U	0.104	10.0

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203033106

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: MB91133

Contract:

Lab File ID: 2030402/A6139

Lab Sample ID: 91133

Date Collected: Time:

Date Received:

Date Extracted: 04/01/03

Date Analyzed: 04/02/03 Time: 1518

Dilution Factor: 1 Analyst: RLW

Prep Method: 3510

Analytical Method: SW-846 8270

Instrument ID: MSSV1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	PQL
621-64-7	N-Nitroso-di-n-propylamine	4.00	U	0.317	4.00
86-30-6	N-Nitrosodiphenylamine	7.00	U	0.117	7.00
95-48-7	o-Cresol	10.0	U	0.490	10.0
106-46-7	1,4-Dichlorobenzene	10.0	U	0.915	10.0

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203033106

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: MB91787

Contract:

Lab File ID: 2030404/A6196

Lab Sample ID: 91787

Date Collected: Time:

Date Received:

Date Extracted: 04/04/03

Date Analyzed: 04/04/03 Time: 1924

Dilution Factor: 1 Analyst: RLW

Prep Method: 3510

Analytical Method: SW-846 8270

Instrument ID: MSSV1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	PQL
95-95-4	2,4,5-Trichlorophenol	4.00	U	0.117	4.00
88-06-2	2,4,6-Trichlorophenol	3.00	U	0.234	3.00
120-83-2	2,4-Dichlorophenol	0.500	U	0.201	0.500
51-28-5	2,4-Dinitrophenol	50.0	U	0.559	50.0
121-14-2	2,4-Dinitrotoluene	0.400	U	0.158	0.400
606-20-2	2,6-Dinitrotoluene	0.400	U	0.302	0.400
91-58-7	2-Chloronaphthalene	10.0	U	0.281	10.0
95-57-8	2-Chlorophenol	10.0	U	0.109	10.0
91-57-6	2-Methylnaphthalene	10.0	U	0.241	10.0
88-74-4	2-Nitroaniline	50.0	U	0.201	50.0
88-75-5	2-Nitrophenol	10.0	U	0.186	10.0
91-94-1	3,3'-Dichlorobenzidine	20.0	U	0.151	20.0
99-09-2	3-Nitroaniline	50.0	U	0.112	50.0
534-52-1	2-Methyl-4,6-dinitrophenol	50.0	U	0.573	50.0
59-50-7	4-Chloro-3-methylphenol	10.0	U	0.171	10.0
106-47-8	4-Chloroaniline	10.0	U	0.162	10.0
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	0.172	10.0
83-32-9	Acenaphthene	10.0	U	0.185	10.0
208-96-8	Acenaphthylene	10.0	U	0.226	10.0
98-86-2	Acetophenone	10.0	U	0.216	10.0
120-12-7	Anthracene	10.0	U	0.273	10.0
1912-24-9	Atrazine (Aatrex)	20.0	U	0.195	20.0
100-52-7	Benzaldehyde	20.0	U	0.110	20.0
56-55-3	Benzo(a)anthracene	0.400	U	0.175	0.400
50-32-8	Benzo(a)pyrene	0.400	U	0.198	0.400
205-99-2	Benzo(b)fluoranthene	0.400	U	0.161	0.400
191-24-2	Benzo(g,h,i)perylene	10.0	U	0.131	10.0
207-08-9	Benzo(k)fluoranthene	0.500	U	0.200	0.500
92-52-4	Biphenyl	10.0	U	0.193	10.0
111-91-1	Bis(2-Chloroethoxy)methane	10.0	U	0.195	10.0

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203033106

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: MB91787

Contract:

Lab File ID: 2030404/A6196

Lab Sample ID: 91787

Date Collected: Time:

Date Received:

Date Extracted: 04/04/03

Date Analyzed: 04/04/03 Time: 1924

Dilution Factor: 1 Analyst: RLW

Prep Method: 3510

Analytical Method: SW-846 8270

Instrument ID: MSSV1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	PQL
111-44-4	Bis(2-Chloroethyl)ether	4.00	U	0.155	4.00
108-60-1	bis(2-Chloroisopropyl)ether	10.0	U	0.270	10.0
117-81-7	bis(2-ethylhexyl)phthalate	1.70	J	0.565	5.00
101-55-3	4-Bromophenyl-phenylether	10.0	U	0.229	10.0
85-68-7	Butylbenzylphthalate	10.0	U	0.200	10.0
105-60-2	Caprolactam	10.0	U	0.309	10.0
86-74-8	Carbazole	4.00	U	0.106	4.00
218-01-9	Chrysene	5.00	U	0.170	5.00
84-74-2	Di-n-butylphthalate	2.67	J	0.894	10.0
117-84-0	Di-n-octylphthalate	10.0	U	0.192	10.0
53-70-3	Dibenz(a,h)anthracene	0.400	U	0.273	0.400
132-64-9	Dibenzofuran	10.0	U	0.170	10.0
84-66-2	Diethylphthalate	10.0	U	0.130	10.0
131-11-3	Dimethyl-phthalate	10.0	U	0.195	10.0
206-44-0	Fluoranthene	10.0	U	0.110	10.0
86-73-7	Fluorene	10.0	U	0.150	10.0
118-74-1	Hexachlorobenzene	1.00	U	0.283	1.00
87-68-3	Hexachlorobutadiene	0.500	U	0.105	0.500
77-47-4	Hexachlorocyclopentadiene	10.0	U	0.360	10.0
67-72-1	Hexachloroethane	2.00	U	0.109	2.00
193-39-5	Indeno(1,2,3-cd)pyrene	0.400	U	0.171	0.400
78-59-1	Isophorone	10.0	U	0.467	10.0
91-20-3	Naphthalene	10.0	U	0.299	10.0
100-01-6	4-Nitroaniline	50.0	U	0.134	50.0
98-95-3	Nitrobenzene	4.00	U	0.189	4.00
100-02-7	4-Nitrophenol	50.0	U	0.397	50.0
87-86-5	Pentachlorophenol	50.0	U	0.926	50.0
85-01-8	Phenanthrene	10.0	U	0.119	10.0
108-95-2	Phenol	10.0	U	0.287	10.0
129-00-0	Pyrene	10.0	U	0.132	10.0
1319-77-3M	m,p-Cresol	10.0	U	0.104	10.0

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203033106

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: MB91787

Contract:

Lab File ID: 2030404/A6196

Lab Sample ID: 91787

Date Collected: Time:

Date Received:

Date Extracted: 04/04/03

Date Analyzed: 04/04/03 Time: 1924

Dilution Factor: 1 Analyst: RLW

Prep Method: 3510

Analytical Method: SW-846 8270

Instrument ID: MSSV1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	PQL
621-64-7	N-Nitroso-di-n-propylamine	4.00	U	0.317	4.00
86-30-6	N-Nitrosodiphenylamine	0.262	J	0.117	7.00
95-48-7	o-Cresol	10.0	U	0.490	10.0
106-46-7	1,4-Dichlorobenzene	10.0	U	0.915	10.0

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203033106

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: LCS91134

Contract:

Lab File ID: 2030402/A6140

Lab Sample ID: 91134

Date Collected: Time:

Date Received:

Date Extracted: 04/01/03

Date Analyzed: 04/02/03 Time: 1539

Dilution Factor: 1 Analyst: RLW

Prep Method: 3510

Analytical Method: SW-846 8270

Instrument ID: MSSV1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	PQL
95-95-4	2,4,5-Trichlorophenol	91.0		0.117	4.00
88-06-2	2,4,6-Trichlorophenol	87.5		0.234	3.00
120-83-2	2,4-Dichlorophenol	85.5		0.201	0.500
51-28-5	2,4-Dinitrophenol	95.1		0.559	50.0
121-14-2	2,4-Dinitrotoluene	88.0		0.158	0.400
606-20-2	2,6-Dinitrotoluene	82.7		0.302	0.400
91-58-7	2-Chloronaphthalene	74.8		0.281	10.0
95-57-8	2-Chlorophenol	76.0		0.109	10.0
91-57-6	2-Methylnaphthalene	66.7		0.241	10.0
88-74-4	2-Nitroaniline	90.2		0.201	50.0
88-75-5	2-Nitrophenol	85.1		0.186	10.0
91-94-1	3,3'-Dichlorobenzidine	90.9		0.151	20.0
99-09-2	3-Nitroaniline	67.7		0.112	50.0
534-52-1	2-Methyl-4,6-dinitrophenol	89.7		0.573	50.0
59-50-7	4-Chloro-3-methylphenol	74.5		0.171	10.0
106-47-8	4-Chloroaniline	74.5		0.162	10.0
7005-72-3	4-Chlorophenyl-phenylether	77.6		0.172	10.0
83-32-9	Acenaphthene	80.3		0.185	10.0
208-96-8	Acenaphthylene	80.3		0.226	10.0
98-86-2	Acetophenone	89.0		0.216	10.0
120-12-7	Anthracene	91.3		0.273	10.0
1912-24-9	Atrazine (Aatrex)	176		0.195	20.0
100-52-7	Benzaldehyde	80.8		0.110	20.0
56-55-3	Benzo(a)anthracene	84.7		0.175	0.400
50-32-8	Benzo(a)pyrene	97.2		0.198	0.400
205-99-2	Benzo(b)fluoranthene	90.8		0.161	0.400
191-24-2	Benzo(g,h,i)perylene	93.1		0.131	10.0
207-08-9	Benzo(k)fluoranthene	93.6		0.200	0.500
92-52-4	Biphenyl	75.6		0.193	10.0
111-91-1	Bis(2-Chloroethoxy)methane	77.7		0.195	10.0

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203033106

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: LCS91134

Contract:

Lab File ID: 2030402/A6140

Lab Sample ID: 91134

Date Collected: Time:

Date Received:

Date Extracted: 04/01/03

Date Analyzed: 04/02/03 Time: 1539

Dilution Factor: 1 Analyst: RLW

Prep Method: 3510

Analytical Method: SW-846 8270

Instrument ID: MSSV1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	PQL
111-44-4	Bis(2-Chloroethyl)ether	70.1		0.155	4.00
108-60-1	bis(2-Chloroisopropyl)ether	72.2		0.270	10.0
117-81-7	bis(2-ethylhexyl)phthalate	69.0		0.565	5.00
101-55-3	4-Bromophenyl-phenylether	88.0		0.229	10.0
85-68-7	Butylbenzylphthalate	74.0		0.200	10.0
105-60-2	Caprolactam	22.1		0.309	10.0
86-74-8	Carbazole	74.6		0.106	4.00
218-01-9	Chrysene	89.8		0.170	5.00
84-74-2	Di-n-butylphthalate	77.9		0.894	10.0
117-84-0	Di-n-octylphthalate	68.3		0.192	10.0
53-70-3	Dibenz(a,h)anthracene	93.7		0.273	0.400
132-64-9	Dibenzofuran	77.7		0.170	10.0
84-66-2	Diethylphthalate	75.2		0.130	10.0
131-11-3	Dimethyl-phthalate	77.8		0.195	10.0
206-44-0	Fluoranthene	84.8		0.110	10.0
86-73-7	Fluorene	81.4		0.150	10.0
118-74-1	Hexachlorobenzene	86.1		0.283	1.00
87-68-3	Hexachlorobutadiene	44.5		0.105	0.500
77-47-4	Hexachlorocyclopentadiene	48.7		0.360	10.0
67-72-1	Hexachloroethane	40.8		0.109	2.00
193-39-5	Indeno(1,2,3-cd)pyrene	44.2		0.171	0.400
78-59-1	Isophorone	78.3		0.467	10.0
91-20-3	Naphthalene	66.8		0.299	10.0
100-01-6	4-Nitroaniline	53.9		0.134	50.0
98-95-3	Nitrobenzene	77.4		0.189	4.00
100-02-7	4-Nitrophenol	25.8	J	0.397	50.0
87-86-5	Pentachlorophenol	75.2		0.926	50.0
85-01-8	Phenanthrene	89.9		0.119	10.0
108-95-2	Phenol	27.4		0.287	10.0
129-00-0	Pyrene	88.2		0.132	10.0
1319-77-3M	m,p-Cresol	54.0		0.104	10.0

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203033106

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: LCS91134

Contract:

Lab File ID: 2030402/A6140

Lab Sample ID: 91134

Date Collected: Time:

Date Received:

Date Extracted: 04/01/03

Date Analyzed: 04/02/03 Time: 1539

Dilution Factor: 1 Analyst: RLW

Prep Method: 3510

Analytical Method: SW-846 8270

Instrument ID: MSSV1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	PQL
621-64-7	N-Nitroso-di-n-propylamine	76.8		0.317	4.00
86-30-6	N-Nitrosodiphenylamine	86.1		0.117	7.00
95-48-7	o-Cresol	60.9		0.490	10.0
106-46-7	1,4-Dichlorobenzene	46.4		0.915	10.0

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203033106

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: LCSD91135

Contract:

Lab File ID: 2030402/A6141

Lab Sample ID: 91135

Date Collected: Time:

Date Received:

Date Extracted: 04/01/03

Date Analyzed: 04/02/03 Time: 1600

Dilution Factor: 1 Analyst: RLW

Prep Method: 3510

Analytical Method: SW-846 8270

Instrument ID: MSSV1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	PQL
95-95-4	2,4,5-Trichlorophenol	77.7		0.117	4.00
88-06-2	2,4,6-Trichlorophenol	75.3		0.234	3.00
120-83-2	2,4-Dichlorophenol	74.3		0.201	0.500
51-28-5	2,4-Dinitrophenol	84.4		0.559	50.0
121-14-2	2,4-Dinitrotoluene	77.8		0.158	0.400
606-20-2	2,6-Dinitrotoluene	74.5		0.302	0.400
91-58-7	2-Chloronaphthalene	63.5		0.281	10.0
95-57-8	2-Chlorophenol	67.8		0.109	10.0
91-57-6	2-Methylnaphthalene	57.5		0.241	10.0
88-74-4	2-Nitroaniline	78.5		0.201	50.0
88-75-5	2-Nitrophenol	73.3		0.186	10.0
91-94-1	3,3'-Dichlorobenzidine	76.4		0.151	20.0
99-09-2	3-Nitroaniline	63.8		0.112	50.0
534-52-1	2-Methyl-4,6-dinitrophenol	83.3		0.573	50.0
59-50-7	4-Chloro-3-methylphenol	65.1		0.171	10.0
106-47-8	4-Chloroaniline	69.5		0.162	10.0
7005-72-3	4-Chlorophenyl-phenylether	68.8		0.172	10.0
83-32-9	Acenaphthene	68.7		0.185	10.0
208-96-8	Acenaphthylene	69.2		0.226	10.0
98-86-2	Acetophenone	78.1		0.216	10.0
120-12-7	Anthracene	81.6		0.273	10.0
1912-24-9	Atrazine (Aatrex)	160		0.195	20.0
100-52-7	Benzaldehyde	71.4		0.110	20.0
56-55-3	Benzo(a)anthracene	76.8		0.175	0.400
50-32-8	Benzo(a)pyrene	88.2		0.198	0.400
205-99-2	Benzo(b)fluoranthene	84.7		0.161	0.400
191-24-2	Benzo(g,h,i)perylene	82.4		0.131	10.0
207-08-9	Benzo(k)fluoranthene	83.6		0.200	0.500
92-52-4	Biphenyl	66.6		0.193	10.0
111-91-1	Bis(2-Chloroethoxy)methane	67.6		0.195	10.0

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203033106

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: LCSD91135

Contract:

Lab File ID: 2030402/A6141

Lab Sample ID: 91135

Date Collected: Time:

Date Received:

Date Extracted: 04/01/03

Date Analyzed: 04/02/03 Time: 1600

Dilution Factor: 1 Analyst: RLW

Prep Method: 3510

Analytical Method: SW-846 8270

Instrument ID: MSSV1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	PQL
111-44-4	Bis(2-Chloroethyl)ether	63.5		0.155	4.00
108-60-1	bis(2-Chloroisopropyl)ether	65.0		0.270	10.0
117-81-7	bis(2-ethylhexyl)phthalate	64.4		0.565	5.00
101-55-3	4-Bromophenyl-phenylether	77.1		0.229	10.0
85-68-7	Butylbenzylphthalate	68.9		0.200	10.0
105-60-2	Caprolactam	20.4		0.309	10.0
86-74-8	Carbazole	67.2		0.106	4.00
218-01-9	Chrysene	78.3		0.170	5.00
84-74-2	Di-n-butylphthalate	67.7		0.894	10.0
117-84-0	Di-n-octylphthalate	59.7		0.192	10.0
53-70-3	Dibenz(a,h)anthracene	83.6		0.273	0.400
132-64-9	Dibenzofuran	68.2		0.170	10.0
84-66-2	Diethylphthalate	66.9		0.130	10.0
131-11-3	Dimethyl-phthalate	68.2		0.195	10.0
206-44-0	Fluoranthene	77.0		0.110	10.0
86-73-7	Fluorene	70.9		0.150	10.0
118-74-1	Hexachlorobenzene	74.8		0.283	1.00
87-68-3	Hexachlorobutadiene	41.6		0.105	0.500
77-47-4	Hexachlorocyclopentadiene	43.6		0.360	10.0
67-72-1	Hexachloroethane	38.8		0.109	2.00
193-39-5	Indeno(1,2,3-cd)pyrene	88.8		0.171	0.400
78-59-1	Isophorone	68.8		0.467	10.0
91-20-3	Naphthalene	58.1		0.299	10.0
100-01-6	4-Nitroaniline	50.3		0.134	50.0
98-95-3	Nitrobenzene	67.7		0.189	4.00
100-02-7	4-Nitrophenol	22.4	J	0.397	50.0
87-86-5	Pentachlorophenol	66.5		0.926	50.0
85-01-8	Phenanthrene	79.8		0.119	10.0
108-95-2	Phenol	23.2		0.287	10.0
129-00-0	Pyrene	84.1		0.132	10.0
1319-77-3M	m,p-Cresol	46.1		0.104	10.0

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203033106

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: LCSD91135

Contract:

Lab File ID: 2030402/A6141

Lab Sample ID: 91135

Date Collected: Time:

Date Received:

Date Extracted: 04/01/03

Date Analyzed: 04/02/03 Time: 1600

Dilution Factor: 1 Analyst: RLW

Prep Method: 3510

Analytical Method: SW-846 8270

Instrument ID: MSSV1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	PQL
621-64-7	N-Nitroso-di-n-propylamine	67.5		0.317	4.00
86-30-6	N-Nitrosodiphenylamine	77.6		0.117	7.00
95-48-7	o-Cresol	53.7		0.490	10.0
106-46-7	1,4-Dichlorobenzene	41.7		0.915	10.0

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203033106

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: LCS91788

Contract:

Lab File ID: 2030404/A6197

Lab Sample ID: 91788

Date Collected: Time:

Date Received:

Date Extracted: 04/04/03

Date Analyzed: 04/04/03 Time: 1945

Dilution Factor: 1 Analyst: RLW

Prep Method: 3510

Analytical Method: SW-846 8270

Instrument ID: MSSV1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	PQL
95-95-4	2,4,5-Trichlorophenol	87.6		0.117	4.00
88-06-2	2,4,6-Trichlorophenol	86.8		0.234	3.00
120-83-2	2,4-Dichlorophenol	88.4		0.201	0.500
51-28-5	2,4-Dinitrophenol	52.7		0.559	50.0
121-14-2	2,4-Dinitrotoluene	87.9		0.158	0.400
606-20-2	2,6-Dinitrotoluene	85.4		0.302	0.400
91-58-7	2-Chloronaphthalene	77.2		0.281	10.0
95-57-8	2-Chlorophenol	85.3		0.109	10.0
91-57-6	2-Methylnaphthalene	74.2		0.241	10.0
88-74-4	2-Nitroaniline	87.4		0.201	50.0
88-75-5	2-Nitrophenol	87.9		0.186	10.0
91-94-1	3,3'-Dichlorobenzidine	89.1		0.151	20.0
99-09-2	3-Nitroaniline	53.9		0.112	50.0
534-52-1	2-Methyl-4,6-dinitrophenol	70.7		0.573	50.0
59-50-7	4-Chloro-3-methylphenol	77.7		0.171	10.0
106-47-8	4-Chloroaniline	57.2		0.162	10.0
7005-72-3	4-Chlorophenyl-phenylether	78.2		0.172	10.0
83-32-9	Acenaphthene	81.5		0.185	10.0
208-96-8	Acenaphthylene	81.4		0.226	10.0
98-86-2	Acetophenone	96.6		0.216	10.0
120-12-7	Anthracene	95.1		0.273	10.0
1912-24-9	Atrazine (Aatrex)	190		0.195	20.0
100-52-7	Benzaldehyde	87.7		0.110	20.0
56-55-3	Benzo(a)anthracene	90.0		0.175	0.400
50-32-8	Benzo(a)pyrene	101		0.198	0.400
205-99-2	Benzo(b)fluoranthene	93.9		0.161	0.400
191-24-2	Benzo(g,h,i)perylene	94.2		0.131	10.0
207-08-9	Benzo(k)fluoranthene	97.2		0.200	0.500
92-52-4	Biphenyl	75.1		0.193	10.0
111-91-1	Bis(2-Chloroethoxy)methane	84.5		0.195	10.0

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203033106

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: LCS91788

Contract:

Lab File ID: 2030404/A6197

Lab Sample ID: 91788

Date Collected: Time:

Date Received:

Date Extracted: 04/04/03

Date Analyzed: 04/04/03 Time: 1945

Dilution Factor: 1 Analyst: RLW

Prep Method: 3510

Analytical Method: SW-846 8270

Instrument ID: MSSV1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	PQL
111-44-4	Bis(2-Chloroethyl)ether	75.2		0.155	4.00
108-60-1	bis(2-Chloroisopropyl)ether	83.1		0.270	10.0
117-81-7	bis(2-ethylhexyl)phthalate	100		0.565	5.00
101-55-3	4-Bromophenyl-phenylether	92.5		0.229	10.0
85-68-7	Butylbenzylphthalate	97.5		0.200	10.0
105-60-2	Caprolactam	21.4		0.309	10.0
86-74-8	Carbazole	75.7		0.106	4.00
218-01-9	Chrysene	93.3		0.170	5.00
84-74-2	Di-n-butylphthalate	92.1		0.894	10.0
117-84-0	Di-n-octylphthalate	96.8		0.192	10.0
53-70-3	Dibenz(a,h)anthracene	98.0		0.273	0.400
132-64-9	Dibenzofuran	77.8		0.170	10.0
84-66-2	Diethylphthalate	79.3		0.130	10.0
131-11-3	Dimethyl-phthalate	80.6		0.195	10.0
206-44-0	Fluoranthene	86.0		0.110	10.0
86-73-7	Fluorene	80.7		0.150	10.0
118-74-1	Hexachlorobenzene	89.1		0.283	1.00
87-68-3	Hexachlorobutadiene	65.5		0.105	0.500
77-47-4	Hexachlorocyclopentadiene	59.4		0.360	10.0
67-72-1	Hexachloroethane	62.3		0.109	2.00
193-39-5	Indeno(1,2,3-cd)pyrene	102		0.171	0.400
78-59-1	Isophorone	83.9		0.467	10.0
91-20-3	Naphthalene	78.5		0.299	10.0
100-01-6	4-Nitroaniline	50.5		0.134	50.0
98-95-3	Nitrobenzene	82.5		0.189	4.00
100-02-7	4-Nitrophenol	36.5	J	0.397	50.0
87-86-5	Pentachlorophenol	72.5		0.926	50.0
85-01-8	Phenanthrene	91.9		0.119	10.0
108-95-2	Phenol	43.3		0.287	10.0
129-00-0	Pyrene	103		0.132	10.0
1319-77-3M	m,p-Cresol	72.5		0.104	10.0

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203033106

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: LCS91788

Contract:

Lab File ID: 2030404/A6197

Lab Sample ID: 91788

Date Collected: Time:

Date Received:

Date Extracted: 04/04/03

Date Analyzed: 04/04/03 Time: 1945

Dilution Factor: 1 Analyst: RLW

Prep Method: 3510

Analytical Method: SW-846 8270

Instrument ID: MSSV1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	PQL
621-64-7	N-Nitroso-di-n-propylamine	83.8		0.317	4.00
86-30-6	N-Nitrosodiphenylamine	88.2		0.117	7.00
95-48-7	o-Cresol	77.7		0.490	10.0
106-46-7	1,4-Dichlorobenzene	65.7		0.915	10.0

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203033106

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: LCSD91789

Contract:

Lab File ID: 2030404/A6198

Lab Sample ID: 91789

Date Collected: Time:

Date Received:

Date Extracted: 04/04/03

Date Analyzed: 04/04/03 Time: 2006

Dilution Factor: 1 Analyst: RLW

Prep Method: 3510

Analytical Method: SW-846 8270

Instrument ID: MSSV1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	PQL
95-95-4	2,4,5-Trichlorophenol	97.6		0.117	4.00
88-06-2	2,4,6-Trichlorophenol	98.6		0.234	3.00
120-83-2	2,4-Dichlorophenol	98.1		0.201	0.500
51-28-5	2,4-Dinitrophenol	60.8		0.559	50.0
121-14-2	2,4-Dinitrotoluene	96.1		0.158	0.400
606-20-2	2,6-Dinitrotoluene	94.9		0.302	0.400
91-58-7	2-Chloronaphthalene	85.2		0.281	10.0
95-57-8	2-Chlorophenol	94.7		0.109	10.0
91-57-6	2-Methylnaphthalene	81.6		0.241	10.0
88-74-4	2-Nitroaniline	99.7		0.201	50.0
88-75-5	2-Nitrophenol	98.0		0.186	10.0
91-94-1	3,3'-Dichlorobenzidine	108		0.151	20.0
99-09-2	3-Nitroaniline	62.5		0.112	50.0
534-52-1	2-Methyl-4,6-dinitrophenol	83.3		0.573	50.0
59-50-7	4-Chloro-3-methylphenol	89.6		0.171	10.0
106-47-8	4-Chloroaniline	70.3		0.162	10.0
7005-72-3	4-Chlorophenyl-phenylether	88.6		0.172	10.0
83-32-9	Acenaphthene	91.0		0.185	10.0
208-96-8	Acenaphthylene	92.3		0.226	10.0
98-86-2	Acetophenone	106		0.216	10.0
120-12-7	Anthracene	104		0.273	10.0
1912-24-9	Atrazine (Aatrex)	204		0.195	20.0
100-52-7	Benzaldehyde	94.9		0.110	20.0
56-55-3	Benzo(a)anthracene	99.7		0.175	0.400
50-32-8	Benzo(a)pyrene	112		0.198	0.400
205-99-2	Benzo(b)fluoranthene	105		0.161	0.400
191-24-2	Benzo(g,h,i)perylene	107		0.131	10.0
207-08-9	Benzo(k)fluoranthene	101		0.200	0.500
92-52-4	Biphenyl	86.3		0.193	10.0
111-91-1	Bis(2-Chloroethoxy)methane	92.8		0.195	10.0

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203033106

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: LCSD91789

Contract:

Lab File ID: 2030404/A6198

Lab Sample ID: 91789

Date Collected: Time:

Date Received:

Date Extracted: 04/04/03

Date Analyzed: 04/04/03 Time: 2006

Dilution Factor: 1 Analyst: RLW

Prep Method: 3510

Analytical Method: SW-846 8270

Instrument ID: MSSV1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	PQL
111-44-4	Bis(2-Chloroethyl)ether	87.3		0.155	4.00
108-60-1	bis(2-Chloroisopropyl)ether	92.4		0.270	10.0
117-81-7	bis(2-ethylhexyl)phthalate	106		0.565	5.00
101-55-3	4-Bromophenyl-phenylether	102		0.229	10.0
85-68-7	Butylbenzylphthalate	103		0.200	10.0
105-60-2	Caprolactam	25.9		0.309	10.0
86-74-8	Carbazole	81.5		0.106	4.00
218-01-9	Chrysene	101		0.170	5.00
84-74-2	Di-n-butylphthalate	94.5		0.894	10.0
117-84-0	Di-n-octylphthalate	106		0.192	10.0
53-70-3	Dibenz(a,h)anthracene	111		0.273	0.400
132-64-9	Dibenzofuran	87.1		0.170	10.0
84-66-2	Diethylphthalate	85.3		0.130	10.0
131-11-3	Dimethyl-phthalate	90.0		0.195	10.0
206-44-0	Fluoranthene	94.0		0.110	10.0
86-73-7	Fluorene	90.9		0.150	10.0
118-74-1	Hexachlorobenzene	96.8		0.283	1.00
87-68-3	Hexachlorobutadiene	76.3		0.105	0.500
77-47-4	Hexachlorocyclopentadiene	73.3		0.360	10.0
67-72-1	Hexachloroethane	74.8		0.109	2.00
193-39-5	Indeno(1,2,3-cd)pyrene	116		0.171	0.400
78-59-1	Isophorone	93.0		0.467	10.0
91-20-3	Naphthalene	89.4		0.299	10.0
100-01-6	4-Nitroaniline	54.3		0.134	50.0
98-95-3	Nitrobenzene	92.6		0.189	4.00
100-02-7	4-Nitrophenol	43.4	J	0.397	50.0
87-86-5	Pentachlorophenol	84.4		0.926	50.0
85-01-8	Phenanthrene	101		0.119	10.0
108-95-2	Phenol	45.5		0.287	10.0
129-00-0	Pyrene	109		0.132	10.0
1319-77-3M	m,p-Cresol	79.5		0.104	10.0

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203033106

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: LCSD91789

Contract:

Lab File ID: 2030404/A6198

Lab Sample ID: 91789

Date Collected: Time:

Date Received:

Date Extracted: 04/04/03

Date Analyzed: 04/04/03 Time: 2006

Dilution Factor: 1 Analyst: RLW

Prep Method: 3510

Analytical Method: SW-846 8270

Instrument ID: MSSV1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	PQL
621-64-7	N-Nitroso-di-n-propylamine	90.3		0.317	4.00
86-30-6	N-Nitrosodiphenylamine	99.8		0.117	7.00
95-48-7	o-Cresol	84.0		0.490	10.0
106-46-7	1,4-Dichlorobenzene	78.9		0.915	10.0

2C

WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 2 Case No.: SAS No.: SDG No.: 203033106

Method: SW-846 8270 Level: (low/med) LOW

	EPA SAMPLE NO.	SMC1	#	SMC2	#	SMC3	#	SMC4	#	SMC5	#	SMC6	#	TOT OUT
1 .	021-WC1-L-0328-03	76	D	79	D	89	D	27	D	43	D	77	D	0
2 .	021-WC3-L-0328-03 (WATER)	129	*	123		111		70		99	*	110		2
3 .	LCS91134	80		78		78		26		42		77		0
4 .	LCSD91135	69		66		77		21		35		68		0
5 .	MB91133	80		72		110		25		41		69		0
6 .	LCS91788	81		73		89		41		61		75		0
7 .	LCSD91789	93		79		90		45		68		80		0
8 .	MB91787	87		79		98		44		65		72		0

CONTROL LIMITS

SMC 1	Nitrobenzene-d5	43	110
SMC 2	2-Fluorobiphenyl	16	128
SMC 3	Terphenyl-d14	47	121
SMC 4	Phenol-d5	10	76
SMC 5	2-Fluorophenol	24	96
SMC 6	2,4,6-Tribromophenol	19	133

Column to be used to flag recovery limits

* Value outside of contract required limits

D Surrogate diluted out

3C

WATER SEMIVOLATILE LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203033106

Contract: Method: SW-846 8270

Spike HSN : 91134

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS % REC	LCS % REC FLAG	QC. LIMITS
1,4-Dichlorobenzene	ug/L	100	0	46.4	46		46 - 93
2,4,5-Trichlorophenol	ug/L	100	0	91	91		45 - 135
2,4,6-Trichlorophenol	ug/L	100	0	87.5	88		45 - 135
2,4-Dichlorophenol	ug/L	100	0	85.5	86		30 - 150
2,4-Dinitrophenol	ug/L	100	0	95.1	95		30 - 150
2,4-Dinitrotoluene	ug/L	100	0	88	88		67 - 123
2,6-Dinitrotoluene	ug/L	100	0	82.7	83		60 - 120
2-Chloronaphthalene	ug/L	100	0	74.8	75		45 - 135
2-Chlorophenol	ug/L	100	0	76	76		38 - 90
2-Methyl-4,6-dinitrophenol	ug/L	100	0	89.7	90		60 - 120
2-Methylnaphthalene	ug/L	100	0	66.7	67		60 - 120
2-Nitroaniline	ug/L	100	0	90.2	90		30 - 150
2-Nitrophenol	ug/L	100	0	85.1	85		65 - 100
3,3'-Dichlorobenzidine	ug/L	100	0	90.9	91		60 - 120
3-Nitroaniline	ug/L	100	0	67.7	68		30 - 150
4-Bromophenyl-phenylether	ug/L	100	0	88	88		60 - 120
4-Chloro-3-methylphenol	ug/L	100	0	74.5	75		45 - 98
4-Chloroaniline	ug/L	100	0	74.5	75		30 - 150
4-Chlorophenyl-phenylether	ug/L	100	0	77.6	78		45 - 135
4-Nitroaniline	ug/L	101	0	53.9	53		30 - 150
4-Nitrophenol	ug/L	100	0	25.8	26		8 - 62
Acenaphthene	ug/L	100	0	80.3	80		58 - 98
Acenaphthylene	ug/L	100	0	80.3	80		60 - 120
Acetophenone	ug/L	100	0	89	89		60 - 120
Anthracene	ug/L	100	0	91.3	91		60 - 120
Atrazine (Aatrex)	ug/L	100	0	176	176	*	60 - 120
Benzaldehyde	ug/L	100	0	80.8	81		60 - 120
Benzo(a)anthracene	ug/L	100	0	84.7	85		60 - 120
Benzo(a)pyrene	ug/L	100	0	97.2	97		60 - 120
Benzo(b)fluoranthene	ug/L	100	0	90.8	91		60 - 120
Benzo(g,h,i)perylene	ug/L	100	0	93.1	93		60 - 120
Benzo(k)fluoranthene	ug/L	100	0	93.6	94		60 - 120
Biphenyl	ug/L	100	0	75.6	76		60 - 120
Bis(2-Chloroethoxy)methane	ug/L	100	0	77.7	78		60 - 120
Bis(2-Chloroethyl)ether	ug/L	100	0	70.1	70		45 - 135
Butylbenzylphthalate	ug/L	100	0	74	74		60 - 120
Caprolactam	ug/L	100	0	22.1	22		10 - 120

RPD : 1 out of 65 outside limits

Spike Recovery: 10 out of 130 outside limits

3C

WATER SEMIVOLATILE LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203033106

Contract: Method: SW-846 8270

Carbazole	ug/L	100	0	74.6	75		60 - 120
Chrysene	ug/L	98	0	89.8	92		60 - 120
Di-n-butylphthalate	ug/L	100	0	77.9	78		60 - 120
Di-n-octylphthalate	ug/L	100	0	68.3	68		60 - 120
Dibenz(a,h)anthracene	ug/L	100	0	93.7	94		60 - 120
Dibenzofuran	ug/L	100	0	77.7	78		45 - 135
Diethylphthalate	ug/L	100	0	75.2	75		60 - 120
Dimethyl-phthalate	ug/L	100	0	77.8	78		60 - 120
Fluoranthene	ug/L	100	0	84.8	85		60 - 120
Fluorene	ug/L	100	0	81.4	81		60 - 120
Hexachlorobenzene	ug/L	100	0	86.1	86		60 - 120
Hexachlorobutadiene	ug/L	100	0	44.5	45	*	60 - 120
Hexachlorocyclopentadiene	ug/L	100	0	48.7	49		45 - 135
Hexachloroethane	ug/L	100	0	40.8	41	*	45 - 135
Indeno(1,2,3-cd)pyrene	ug/L	100	0	44.2	44	*	60 - 120
Isophorone	ug/L	100	0	78.3	78		45 - 135
N-Nitroso-di-n-propylamine	ug/L	100	0	76.8	77		55 - 102
N-Nitrosodiphenylamine	ug/L	98	0	86.1	88		60 - 120
Naphthalene	ug/L	100	0	66.8	67		45 - 135
Nitrobenzene	ug/L	100	0	77.4	77		60 - 120
Pentachlorophenol	ug/L	100	0	75.2	75		32 - 132
Phenanthrene	ug/L	100	0	89.9	90		60 - 120
Phenol	ug/L	100	0	27.4	27		8 - 53
Pyrene	ug/L	100	0	88.2	88		44 - 114
bis(2-Chloroisopropyl)ether	ug/L	100	0	72.2	72		45 - 135
bis(2-ethylhexyl)phthalate	ug/L	100	0	69	69		60 - 120
m,p-Cresol	ug/L	100	0	54	54		30 - 150
o-Cresol	ug/L	100	0	60.9	61		30 - 150

RPD : 1 out of 65 outside limits

Spike Recovery: 10 out of 130 outside limits

3C

WATER SEMIVOLATILE LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203033106

Contract: Method: SW-846 8270

Spike Dupe HSN : 91135

COMPOUND	UNITS	SPIKE ADDED	LCSD CONC.	LCSD % REC	REC FLAG	% RPD	RPD FLAG	QC. LIMITS REC	QC. LIMITS RPD
1,4-Dichlorobenzene	ug/L	100	41.7	42	*	9		46 - 93	0 - 30
2,4,5-Trichlorophenol	ug/L	100	77.7	78		15		45 - 135	0 - 50
2,4,6-Trichlorophenol	ug/L	100	75.3	75		16		45 - 135	0 - 50
2,4-Dichlorophenol	ug/L	100	74.3	74		15		30 - 150	0 - 50
2,4-Dinitrophenol	ug/L	100	84.4	84		12		30 - 150	0 - 50
2,4-Dinitrotoluene	ug/L	100	77.8	78		12		67 - 123	0 - 33
2,6-Dinitrotoluene	ug/L	100	74.5	75		10		60 - 120	0 - 50
2-Chloronaphthalene	ug/L	100	63.5	64		16		45 - 135	0 - 50
2-Chlorophenol	ug/L	100	67.8	68		11		38 - 90	0 - 24
2-Methyl-4,6-dinitrophenol	ug/L	100	83.3	83		8		60 - 120	0 - 50
2-Methylnaphthalene	ug/L	100	57.5	58	*	14		60 - 120	0 - 50
2-Nitroaniline	ug/L	100	78.5	79		13		30 - 150	0 - 50
2-Nitrophenol	ug/L	100	73.3	73		15		65 - 100	0 - 50
3,3'-Dichlorobenzidine	ug/L	100	76.4	76		18		60 - 120	0 - 50
3-Nitroaniline	ug/L	100	63.8	64		6		30 - 150	0 - 50
4-Bromophenyl-phenylether	ug/L	100	77.1	77		13		60 - 120	0 - 50
4-Chloro-3-methylphenol	ug/L	100	65.1	65		14		45 - 98	0 - 26
4-Chloroaniline	ug/L	100	69.5	70		7		30 - 150	0 - 50
4-Chlorophenyl-phenylether	ug/L	100	68.8	69		12		45 - 135	0 - 50
4-Nitroaniline	ug/L	101	50.3	50		6		30 - 150	0 - 50
4-Nitrophenol	ug/L	100	22.4	22		17		8 - 62	0 - 31
Acenaphthene	ug/L	100	68.7	69		15		58 - 98	0 - 32
Acenaphthylene	ug/L	100	69.2	69		15		60 - 120	0 - 50
Acetophenone	ug/L	100	78.1	78		13		60 - 120	0 - 50
Anthracene	ug/L	100	81.6	82		10		60 - 120	0 - 50
Atrazine (Aatrex)	ug/L	100	160	160	*	10		60 - 120	0 - 50
Benzaldehyde	ug/L	100	71.4	71		13		60 - 120	0 - 50
Benzo(a)anthracene	ug/L	100	76.8	77		10		60 - 120	0 - 50
Benzo(a)pyrene	ug/L	100	88.2	88		10		60 - 120	0 - 50
Benzo(b)fluoranthene	ug/L	100	84.7	85		7		60 - 120	0 - 50
Benzo(g,h,i)perylene	ug/L	100	82.4	82		13		60 - 120	0 - 50
Benzo(k)fluoranthene	ug/L	100	83.6	84		11		60 - 120	0 - 50
Biphenyl	ug/L	100	66.6	67		13		60 - 120	0 - 50
Bis(2-Chloroethoxy)methane	ug/L	100	67.6	68		14		60 - 120	0 - 50
Bis(2-Chloroethyl)ether	ug/L	100	63.5	64		9		45 - 135	0 - 50
Butylbenzylphthalate	ug/L	100	68.9	69		7		60 - 120	0 - 50
Caprolactam	ug/L	100	20.4	20		10		10 - 120	0 - 50

RPD : 1 out of 65 outside limits

Spike Recovery: 10 out of 130 outside limits

3C

WATER SEMIVOLATILE LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203033106

Contract: Method: SW-846 8270

Carbazole	ug/L	100	67.2	67		11		60 - 120	0 - 50
Chrysene	ug/L	98	78.3	80		14		60 - 120	0 - 50
Di-n-butylphthalate	ug/L	100	67.7	68		14		60 - 120	0 - 50
Di-n-octylphthalate	ug/L	100	59.7	60		13		60 - 120	0 - 50
Dibenz(a,h)anthracene	ug/L	100	83.6	84		11		60 - 120	0 - 50
Dibenzofuran	ug/L	100	68.2	68		14		45 - 135	0 - 50
Diethylphthalate	ug/L	100	66.9	67		11		60 - 120	0 - 50
Dimethyl-phthalate	ug/L	100	68.2	68		14		60 - 120	0 - 50
Fluoranthene	ug/L	100	77	77		10		60 - 120	0 - 50
Fluorene	ug/L	100	70.9	71		13		60 - 120	0 - 50
Hexachlorobenzene	ug/L	100	74.8	75		14		60 - 120	0 - 50
Hexachlorobutadiene	ug/L	100	41.6	42	*	7		60 - 120	0 - 50
Hexachlorocyclopentadiene	ug/L	100	43.6	44	*	11		45 - 135	0 - 50
Hexachloroethane	ug/L	100	38.8	39	*	5		45 - 135	0 - 50
Indeno(1,2,3-cd)pyrene	ug/L	100	88.8	89		68	*	60 - 120	0 - 50
Isophorone	ug/L	100	68.8	69		12		45 - 135	0 - 50
N-Nitroso-di-n-propylamine	ug/L	100	67.5	68		12		55 - 102	0 - 32
N-Nitrosodiphenylamine	ug/L	98	77.6	79		11		60 - 120	0 - 50
Naphthalene	ug/L	100	58.1	58		14		45 - 135	0 - 50
Nitrobenzene	ug/L	100	67.7	68		12		60 - 120	0 - 50
Pentachlorophenol	ug/L	100	66.5	67		11		32 - 132	0 - 32
Phenanthrene	ug/L	100	79.8	80		12		60 - 120	0 - 50
Phenol	ug/L	100	23.2	23		16		8 - 53	0 - 25
Pyrene	ug/L	100	84.1	84		5		44 - 114	0 - 30
bis(2-Chloroisopropyl)ether	ug/L	100	65	65		10		45 - 135	0 - 50
bis(2-ethylhexyl)phthalate	ug/L	100	64.4	64		8		60 - 120	0 - 50
m,p-Cresol	ug/L	100	46.1	46		16		30 - 150	0 - 50
o-Cresol	ug/L	100	53.7	54		12		30 - 150	0 - 50

RPD : 1 out of 65 outside limits

Spike Recovery: 10 out of 130 outside limits

3C

WATER SEMIVOLATILE LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203033106

Contract: Method: SW-846 8270

Spike HSN : 91788

COMPOUND	*UNITS*	*SPIKE ADDED*	*SAMPLE CONCENTRATION*	*LCS CONCENTRATION*	*LCS % REC*	*LCS % REC FLAG*	*QC. LIMITS*
1,4-Dichlorobenzene	ug/L	100	0	65.7	66		46 - 93
2,4,5-Trichlorophenol	ug/L	100	0	87.6	88		45 - 135
2,4,6-Trichlorophenol	ug/L	100	0	86.8	87		45 - 135
2,4-Dichlorophenol	ug/L	100	0	88.4	88		30 - 150
2,4-Dinitrophenol	ug/L	100	0	52.7	53		30 - 150
2,4-Dinitrotoluene	ug/L	100	0	87.9	88		67 - 123
2,6-Dinitrotoluene	ug/L	100	0	85.4	85		60 - 120
2-Chloronaphthalene	ug/L	100	0	77.2	77		45 - 135
2-Chlorophenol	ug/L	100	0	85.3	85		38 - 90
2-Methyl-4,6-dinitrophenol	ug/L	100	0	70.7	71		60 - 120
2-Methylnaphthalene	ug/L	100	0	74.2	74		60 - 120
2-Nitroaniline	ug/L	100	0	87.4	87		30 - 150
2-Nitrophenol	ug/L	100	0	87.9	88		65 - 100
3,3'-Dichlorobenzidine	ug/L	100	0	89.1	89		60 - 120
3-Nitroaniline	ug/L	100	0	53.9	54		30 - 150
4-Bromophenyl-phenylether	ug/L	100	0	92.5	93		60 - 120
4-Chloro-3-methylphenol	ug/L	100	0	77.7	78		45 - 98
4-Chloroaniline	ug/L	100	0	57.2	57		30 - 150
4-Chlorophenyl-phenylether	ug/L	100	0	78.2	78		45 - 135
4-Nitroaniline	ug/L	101	0	50.5	50		30 - 150
4-Nitrophenol	ug/L	100	0	36.5	37		8 - 62
Acenaphthene	ug/L	100	0	81.5	82		58 - 98
Acenaphthylene	ug/L	100	0	81.4	81		60 - 120
Acetophenone	ug/L	100	0	96.6	97		60 - 120
Anthracene	ug/L	100	0	95.1	95		60 - 120
Atrazine (Aatrex)	ug/L	100	0	190	190	*	60 - 120
Benzaldehyde	ug/L	100	0	87.7	88		60 - 120
Benzo(a)anthracene	ug/L	100	0	90	90		60 - 120
Benzo(a)pyrene	ug/L	100	0	101	101		60 - 120
Benzo(b)fluoranthene	ug/L	100	0	93.9	94		60 - 120
Benzo(g,h,i)perylene	ug/L	100	0	94.2	94		60 - 120
Benzo(k)fluoranthene	ug/L	100	0	97.2	97		60 - 120
Biphenyl	ug/L	100	0	75.1	75		60 - 120
Bis(2-Chloroethoxy)methane	ug/L	100	0	84.5	85		60 - 120
Bis(2-Chloroethyl)ether	ug/L	100	0	75.2	75		45 - 135
Butylbenzylphthalate	ug/L	100	0	97.5	98		60 - 120
Caprolactam	ug/L	100	0	21.4	21		10 - 120

RPD : 0 out of 65 outside limits

Spike Recovery: 3 out of 130 outside limits

3C

WATER SEMIVOLATILE LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203033106

Contract: Method: SW-846 8270

Carbazole	ug/L	100	0	75.7	76		60 - 120
Chrysene	ug/L	98	0	93.3	95		60 - 120
Di-n-butylphthalate	ug/L	100	0	92.1	92		60 - 120
Di-n-octylphthalate	ug/L	100	0	96.8	97		60 - 120
Dibenz(a,h)anthracene	ug/L	100	0	98	98		60 - 120
Dibenzofuran	ug/L	100	0	77.8	78		45 - 135
Diethylphthalate	ug/L	100	0	79.3	79		60 - 120
Dimethyl-phthalate	ug/L	100	0	80.6	81		60 - 120
Fluoranthene	ug/L	100	0	86	86		60 - 120
Fluorene	ug/L	100	0	80.7	81		60 - 120
Hexachlorobenzene	ug/L	100	0	89.1	89		60 - 120
Hexachlorobutadiene	ug/L	100	0	65.5	66		60 - 120
Hexachlorocyclopentadiene	ug/L	100	0	59.4	59		45 - 135
Hexachloroethane	ug/L	100	0	62.3	62		45 - 135
Indeno(1,2,3-cd)pyrene	ug/L	100	0	102	102		60 - 120
Isophorone	ug/L	100	0	83.9	84		45 - 135
N-Nitroso-di-n-propylamine	ug/L	100	0	83.8	84		55 - 102
N-Nitrosodiphenylamine	ug/L	98	0	88.2	90		60 - 120
Naphthalene	ug/L	100	0	78.5	79		45 - 135
Nitrobenzene	ug/L	100	0	82.5	83		60 - 120
Pentachlorophenol	ug/L	100	0	72.5	73		32 - 132
Phenanthrene	ug/L	100	0	91.9	92		60 - 120
Phenol	ug/L	100	0	43.3	43		8 - 53
Pyrene	ug/L	100	0	103	103		44 - 114
bis(2-Chloroisopropyl)ether	ug/L	100	0	83.1	83		45 - 135
bis(2-ethylhexyl)phthalate	ug/L	100	0	100	100		60 - 120
m,p-Cresol	ug/L	100	0	72.5	73		30 - 150
o-Cresol	ug/L	100	0	77.7	78		30 - 150

RPD : 0 out of 65 outside limits

Spike Recovery: 3 out of 130 outside limits

3C

WATER SEMIVOLATILE LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203033106

Contract: Method: SW-846 8270

Spike Dupe HSN : 91789

COMPOUND	UNITS	SPIKE ADDED	LCSD CONC.	LCSD % REC	REC FLAG	% RPD	RPD FLAG	QC. LIMITS REC	QC. LIMITS RPD
1,4-Dichlorobenzene	ug/L	100	78.9	79		18		46 - 93	0 - 30
2,4,5-Trichlorophenol	ug/L	100	97.6	98		11		45 - 135	0 - 50
2,4,6-Trichlorophenol	ug/L	100	98.6	99		13		45 - 135	0 - 50
2,4-Dichlorophenol	ug/L	100	98.1	98		11		30 - 150	0 - 50
2,4-Dinitrophenol	ug/L	100	60.8	61		14		30 - 150	0 - 50
2,4-Dinitrotoluene	ug/L	100	96.1	96		9		67 - 123	0 - 33
2,6-Dinitrotoluene	ug/L	100	94.9	95		11		60 - 120	0 - 50
2-Chloronaphthalene	ug/L	100	85.2	85		10		45 - 135	0 - 50
2-Chlorophenol	ug/L	100	94.7	95	*	11		38 - 90	0 - 24
2-Methyl-4,6-dinitrophenol	ug/L	100	83.3	83		16		60 - 120	0 - 50
2-Methylnaphthalene	ug/L	100	81.6	82		10		60 - 120	0 - 50
2-Nitroaniline	ug/L	100	99.7	100		14		30 - 150	0 - 50
2-Nitrophenol	ug/L	100	98	98		11		65 - 100	0 - 50
3,3'-Dichlorobenzidine	ug/L	100	108	108		19		60 - 120	0 - 50
3-Nitroaniline	ug/L	100	62.5	63		15		30 - 150	0 - 50
4-Bromophenyl-phenylether	ug/L	100	102	102		9		60 - 120	0 - 50
4-Chloro-3-methylphenol	ug/L	100	89.6	90		14		45 - 98	0 - 26
4-Chloroaniline	ug/L	100	70.3	70		20		30 - 150	0 - 50
4-Chlorophenyl-phenylether	ug/L	100	88.6	89		13		45 - 135	0 - 50
4-Nitroaniline	ug/L	101	54.3	54		8		30 - 150	0 - 50
4-Nitrophenol	ug/L	100	43.4	43		15		8 - 62	0 - 31
Acenaphthene	ug/L	100	91	91		10		58 - 98	0 - 32
Acenaphthylene	ug/L	100	92.3	92		13		60 - 120	0 - 50
Acetophenone	ug/L	100	106	106		9		60 - 120	0 - 50
Anthracene	ug/L	100	104	104		9		60 - 120	0 - 50
Atrazine (Aatrex)	ug/L	100	204	204	*	7		60 - 120	0 - 50
Benzaldehyde	ug/L	100	94.9	95		8		60 - 120	0 - 50
Benzo(a)anthracene	ug/L	100	99.7	100		11		60 - 120	0 - 50
Benzo(a)pyrene	ug/L	100	112	112		10		60 - 120	0 - 50
Benzo(b)fluoranthene	ug/L	100	105	105		11		60 - 120	0 - 50
Benzo(g,h,i)perylene	ug/L	100	107	107		13		60 - 120	0 - 50
Benzo(k)fluoranthene	ug/L	100	101	101		4		60 - 120	0 - 50
Biphenyl	ug/L	100	86.3	86		14		60 - 120	0 - 50
Bis(2-Chloroethoxy)methane	ug/L	100	92.8	93		9		60 - 120	0 - 50
Bis(2-Chloroethyl)ether	ug/L	100	87.3	87		15		45 - 135	0 - 50
Butylbenzylphthalate	ug/L	100	103	103		5		60 - 120	0 - 50
Caprolactam	ug/L	100	25.9	26		21		10 - 120	0 - 50

RPD : 0 out of 65 outside limits

Spike Recovery: 3 out of 130 outside limits

3C

WATER SEMIVOLATILE LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203033106

Contract: Method: SW-846 8270

Carbazole	ug/L	100	81.5	82		8		60 - 120	0 - 50
Chrysene	ug/L	98	101	103		8		60 - 120	0 - 50
Di-n-butylphthalate	ug/L	100	94.5	95		3		60 - 120	0 - 50
Di-n-octylphthalate	ug/L	100	106	106		9		60 - 120	0 - 50
Dibenz(a,h)anthracene	ug/L	100	111	111		12		60 - 120	0 - 50
Dibenzofuran	ug/L	100	87.1	87		11		45 - 135	0 - 50
Diethylphthalate	ug/L	100	85.3	85		7		60 - 120	0 - 50
Dimethyl-phthalate	ug/L	100	90	90		11		60 - 120	0 - 50
Fluoranthene	ug/L	100	94	94		9		60 - 120	0 - 50
Fluorene	ug/L	100	90.9	91		12		60 - 120	0 - 50
Hexachlorobenzene	ug/L	100	96.8	97		9		60 - 120	0 - 50
Hexachlorobutadiene	ug/L	100	76.3	76		14		60 - 120	0 - 50
Hexachlorocyclopentadiene	ug/L	100	73.3	73		21		45 - 135	0 - 50
Hexachloroethane	ug/L	100	74.8	75		19		45 - 135	0 - 50
Indeno(1,2,3-cd)pyrene	ug/L	100	116	116		13		60 - 120	0 - 50
Isophorone	ug/L	100	93	93		10		45 - 135	0 - 50
N-Nitroso-di-n-propylamine	ug/L	100	90.3	90		7		55 - 102	0 - 32
N-Nitrosodiphenylamine	ug/L	98	99.8	102		13		60 - 120	0 - 50
Naphthalene	ug/L	100	89.4	89		12		45 - 135	0 - 50
Nitrobenzene	ug/L	100	92.6	93		11		60 - 120	0 - 50
Pentachlorophenol	ug/L	100	84.4	84		14		32 - 132	0 - 32
Phenanthrene	ug/L	100	101	101		9		60 - 120	0 - 50
Phenol	ug/L	100	45.5	46		7		8 - 53	0 - 25
Pyrene	ug/L	100	109	109		6		44 - 114	0 - 30
bis(2-Chloroisopropyl)ether	ug/L	100	92.4	92		10		45 - 135	0 - 50
bis(2-ethylhexyl)phthalate	ug/L	100	106	106		6		60 - 120	0 - 50
m,p-Cresol	ug/L	100	79.5	80		9		30 - 150	0 - 50
o-Cresol	ug/L	100	84	84		7		30 - 150	0 - 50

RPD : 0 out of 65 outside limits

Spike Recovery: 3 out of 130 outside limits

4B

SEMIVOLATILE METHOD BLANK SUMMARY

Lab Name: GCAL

Lab Code: LA024 Case No.:

Lab File ID: 2030402/A6139

GC Column: DB-5MS-30M ID: .25 (mm)

Instrument ID: MSSV1 Matrix: Water

Level: LOW

Sample ID: MB91133

Contract:

SAS No.: SDG No.: 203033106

Lab Sample ID: 91133 Date Extracted: 04/01/03

Date Analyzed: 04/02/03 Time: 1518

Method: SW-846 8270

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1.	LCS91134	91134	2030402/A6140	04/02/03	1539
2.	LCSD91135	91135	2030402/A6141	04/02/03	1600
3.	021-WC1-L-0328-03	20303310601	2030403/A6165	04/03/03	1222

4B

SEMIVOLATILE METHOD BLANK SUMMARY

Lab Name: GCAL

Sample ID: MB91787

Lab Code: LA024 Case No.:

Contract:

Lab File ID: 2030404/A6196

SAS No.: SDG No.: 203033106

GC Column: DB-5MS-30M ID: .25 (mm)

Lab Sample ID: 91787 Date Extracted: 04/04/03

Instrument ID: MSSV1 Matrix: Water

Date Analyzed: 04/04/03 Time: 1924

Level: LOW

Method: SW-846 8270

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1.	LCS91788	91788	2030404/A6197	04/04/03	1945
2.	LCSD91789	91789	2030404/A6198	04/04/03	2006
3.	021-WC3-L-0328-03 (WATER)	20303310604	2030404/A6199	04/04/03	2027

5B

SEMIVOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203033106

Lab File ID: 2030321/A5980

DFTPP Injection Date 03/21/03 Time: 0945

GC Column: ID: (mm)

Instrument ID: MSSV1

m / e	*ION ABUNDANCE CRITERIA*	*% Relative Abundance*
51	30.0-60.0% of mass 198	35.33 ( ) ( )
68	Less thab 2% of mass 69	0 (0) (1)
69	Mass 69 relative abundance	64.41 ( ) ( )
70	Less than 2.0% of mass 69	.09 (.15) (1)
127	40.0-60.0% of mass 198	47.98 ( ) ( )
197	Less than 1.0% of mass 198	0 ( ) ( )
198	Base Peak, 100% relative abundance	100 ( ) ( )
199	5.0-9.0% of mass 198	7.18 ( ) ( )
275	10.0-30.0% of mass 198	29.52 ( ) ( )
365	Greater than 1.0% of mass 198	3.12 ( ) ( )
441	Present, but less than mass 443	9.09 ( ) ( )
442	40.0-100.0% of mass 198	75.83 ( ) ( )
443	17.0-23.0% of mass 442	15.32 (20.21) (2)

(1)-Value is % mass 69 (2)-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	SAMPLE NO.	*LAB SAMPLE ID*	*LAB FILE ID*	*DATE ANALYZED*	*TIME ANALYZED*
1.	SSTD050	1202	2030321/A5981	03/21/03	1010
2.	SSTD010	1201	2030321/A5982	03/21/03	1035
3.	SSTD080	1203	2030321/A5983	03/21/03	1059
4.	SSTD120	1204	2030321/A5984	03/21/03	1124
5.	SSTD160	1205	2030321/A5985	03/21/03	1148
6.	SSTD200	1206	2030321/A5986	03/21/03	1213
7.	SSTD001	1207	2030321/A5987	03/21/03	1238
8.	SSTD00.2	1208	2030321/A5988	03/21/03	1303

5B

SEMIVOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 203033106
Lab File ID: 2030402/A6135
DFTPP Injection Date 04/02/03 Time: 1341
GC Column: ID: (mm)
Instrument ID: MSSV1

m / e	*ION ABUNDANCE CRITERIA*	*% Relative Abundance*
51	30.0-60.0% of mass 198	31.88 ( ) ( )
68	Less thab 2% of mass 69	0 (0) (1)
69	Mass 69 relative abundance	59.81 ( ) ( )
70	Less than 2.0% of mass 69	.53 (.9) (1)
127	40.0-60.0% of mass 198	47.09 ( ) ( )
197	Less than 1.0% of mass 198	0 ( ) ( )
198	Base Peak, 100% relative abundance	100 ( ) ( )
199	5.0-9.0% of mass 198	7.65 ( ) ( )
441	Present, but less than mass 443	6.81 ( ) ( )
442	40.0-100.0% of mass 198	85.3 ( ) ( )
443	17.0-23.0% of mass 442	16.55 (19.41) (2)
275	10.0-30.0% of mass 198	29.84 ( ) ( )
365	Greater than 1.0% of mass 198	3.93 ( ) ( )

(1)-Value is % mass 69 (2)-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	SAMPLE NO.	*LAB SAMPLE ID*	*LAB FILE ID*	*DATE ANALYZED*	*TIME ANALYZED*
1.	SSTD050	1400	2030402/A6136	04/02/03	1415
2.	MB91133	91133	2030402/A6139	04/02/03	1518
3.	LCS91134	91134	2030402/A6140	04/02/03	1539
4.	LCSD91135	91135	2030402/A6141	04/02/03	1600

5B

SEMIVOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203033106

Lab File ID: 2030403/A6161 DFTPP Injection Date 04/03/03 Time: 1059

GC Column: ID: (mm)

Instrument ID: MSSV1

m / e	*ION ABUNDANCE CRITERIA*	*% Relative Abundance*
51	30.0-60.0% of mass 198	36.43 ( ) ( )
68	Less thab 2% of mass 69	0 (0) (1)
69	Mass 69 relative abundance	65.33 ( ) ( )
70	Less than 2.0% of mass 69	.74 (1.14) (1)
127	40.0-60.0% of mass 198	48.34 ( ) ( )
197	Less than 1.0% of mass 198	0 ( ) ( )
198	Base Peak, 100% relative abundance	100 ( ) ( )
199	5.0-9.0% of mass 198	6.87 ( ) ( )
441	Present, but less than mass 443	12.19 ( ) ( )
442	40.0-100.0% of mass 198	69.47 ( ) ( )
443	17.0-23.0% of mass 442	15.2 (21.88) (2)
275	10.0-30.0% of mass 198	28.91 ( ) ( )
365	Greater than 1.0% of mass 198	3.19 ( ) ( )

(1)-Value is % mass 69 (2)-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	SAMPLE NO.	*LAB SAMPLE ID*	*LAB FILE ID*	*DATE ANALYZED*	*TIME ANALYZED*
1.	SSTD050	1400	2030403/A6162	04/03/03	1119
2.	021-WC1-L-0328-03	20303310601	2030403/A6165	04/03/03	1222

5B

SEMIVOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203033106

Lab File ID: 2030404/A6183 DFTPP Injection Date 04/04/03 Time: 1437

GC Column: ID: (mm)

Instrument ID: MSSV1

m / e	*ION ABUNDANCE CRITERIA*	*% Relative Abundance*
51	30.0-60.0% of mass 198	38.8 ( ) ( )
68	Less thab 2% of mass 69	0 (0) (1)
69	Mass 69 relative abundance	68.37 ( ) ( )
70	Less than 2.0% of mass 69	0 (0) (1)
127	40.0-60.0% of mass 198	50.54 ( ) ( )
197	Less than 1.0% of mass 198	0 ( ) ( )
198	Base Peak, 100% relative abundance	100 ( ) ( )
199	5.0-9.0% of mass 198	6.39 ( ) ( )
441	Present, but less than mass 443	9.41 ( ) ( )
442	40.0-100.0% of mass 198	62.55 ( ) ( )
443	17.0-23.0% of mass 442	12.67 (20.26) (2)
275	10.0-30.0% of mass 198	27.52 ( ) ( )
365	Greater than 1.0% of mass 198	3.06 ( ) ( )

(1)-Value is % mass 69 (2)-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	SAMPLE NO.	*LAB SAMPLE ID*	*LAB FILE ID*	*DATE ANALYZED*	*TIME ANALYZED*
1.	SSTD050	1400	2030404/A6184	04/04/03	1457
2.	MB91787	91787	2030404/A6196	04/04/03	1924
3.	LCS91788	91788	2030404/A6197	04/04/03	1945
4.	LCSD91789	91789	2030404/A6198	04/04/03	2006
5.	021-WC3-L-0328-03 (WATER)	20303310604	2030404/A6199	04/04/03	2027

6B

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203033106

Instrument ID: MSSV1

Calibration Date 1: 01/23/03 Time 1: 1406

GC Column: DB-5MS-30M ID: .25 (mm)

Calibration Date 2: 03/21/03 Time 2: 1303

Method: SW-846 8270

Lab File ID: Level 1: 1201 Level 2: 1202 Level 3: 1203

Level 4: 1204 Level 5: 1205 Level 6: 1206

Level 7: 1207 Level 8: 1208 Level 9:

COMPOUND	RF 1	RF 2	RF 3	RF 4	RF 5	RF 6	RF 7	RF 8	RF 9	Avg RRF	% RSD	#	Type
Acenaphthylene	1.961	1.894	1.944	1.963	1.953	1.954				1.945	1.332		A
Anthracene	1.026	1.022	1.034	1.041	1.038	1.059				1.037	1.265		A
Benzo(a)anthracene	1.238	1.217	1.236	1.237	1.232	1.264	1.258	1.755		1.305	13.98		A
Benzidine		0.049	0.039	0.043	0.025	0.022				0.035	32.40		A
Benzo(b)fluoranthene	1.337	1.367	1.413	1.486	1.435	1.455	1.235	1.294		1.378	6.220		A
Benzo(k)fluoranthene	1.605	1.471	1.484	1.459	1.408	1.437	1.241	1.151		1.407	10.26		A
Benzo(g,h,i)perylene	1.778	1.809	1.858	1.844	1.885	1.952				1.854	3.278		A
Benzo(a)pyrene	1.298	1.328	1.380	1.375	1.368	1.398	1.132	1.015		1.287	10.79		A
Benzoic acid		0.194	0.163	0.222	0.173	0.166				0.184	13.50		A
Butylbenzylphthalate	0.403	0.468	0.469	0.489	0.461	0.464				0.459	6.309		A
Bis(2-Chloroethoxy)methane	0.515	0.502	0.515	0.509	0.506	0.513				0.510	1.088		A
Bis(2-Chloroethyl)ether	1.021	0.980	0.998	0.966	0.946	0.984	1.081			0.996	4.413		A
bis(2-Chloroisopropyl)ether	1.157	1.113	1.159	1.162	1.118	1.149				1.143	1.903		A
bis(2-ethylhexyl)phthalate	0.548	0.631	0.633	0.660	0.621	0.628	0.402			0.589	15.18		A
4-Bromophenyl-phenylether	0.224	0.221	0.227	0.225	0.228	0.233				0.226	1.765		A
Carbazole	1.128	1.103	1.140	1.172	1.136	1.137	1.120			1.134	1.875		A
4-Chlorophenyl-phenylether	0.773	0.753	0.770	0.766	0.743	0.750				0.759	1.593		A
Chrysene	1.214	1.163	1.180	1.187	1.166	1.200	1.297			1.201	3.816		A
Dibenz(a,h)anthracene	1.662	1.774	1.798	1.821	1.835	1.893	1.673	1.511		1.746	7.062		A
Dibenzofuran	1.795	1.718	1.755	1.763	1.742	1.768				1.757	1.469		A
1,2-Dichlorobenzene	1.419	1.356	1.379	1.373	1.377	1.418				1.387	1.852		A
1,3-Dichlorobenzene	1.489	1.416	1.429	1.444	1.433	1.507				1.453	2.518		A
3,3'-Dichlorobenzidine	0.437	0.444	0.437	0.415	0.403	0.409				0.424	4.110		A
2,4-Dichlorophenol	0.319	0.296	0.314	0.316	0.311	0.321	0.268	0.224		0.296	11.44		A
Diethylphthalate	1.204	1.190	1.217	1.266	1.207	1.201				1.214	2.199		A
2,4-Dimethylphenol	0.444	0.442	0.462	0.458	0.457	0.464				0.454	2.044		A
Dimethyl-phthalate	1.379	1.308	1.336	1.377	1.354	1.345				1.350	1.979		A
Di-n-octylphthalate	0.840	1.091	1.095	1.108	1.114	1.130				1.063	10.35		A
2,4-Dinitrophenol		0.111	0.154	0.202	0.218	0.228				0.183	26.89		A
2,6-Dinitrotoluene	0.298	0.293	0.319	0.319	0.312	0.313	0.206	0.257		0.290	13.59		A
Fluoranthene	1.196	1.197	1.231	1.269	1.233	1.212				1.223	2.259		A
Fluorene	1.385	1.367	1.419	1.437	1.407	1.406				1.404	1.771		A
Hexachlorobenzene	0.287	0.268	0.271	0.270	0.276	0.280	0.330			0.283	7.641		A
Hexachlorobutadiene	0.294	0.283	0.289	0.283	0.284	0.294	0.312	0.283		0.290	3.443		A

Column used to indicate that the required RRF or %RSD values is outside of QC limits

* Indicates that the compound is outside of the required minimum RRF and maximum %RSD values.

FORM VI SV-1

6B

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203033106

Instrument ID: MSSV1

Calibration Date 1: 01/23/03 Time 1: 1406

GC Column: DB-5MS-30M ID: .25 (mm)

Calibration Date 2: 03/21/03 Time 2: 1303

Method: SW-846 8270

Lab File ID: Level 1: 1201 Level 2: 1202 Level 3: 1203

Level 4: 1204 Level 5: 1205 Level 6: 1206

Level 7: 1207 Level 8: 1208 Level 9:

COMPOUND	RF 1	RF 2	RF 3	RF 4	RF 5	RF 6	RF 7	RF 8	RF 9	Avg RRF	% RSD	#	Type
Hexachlorocyclopentadiene	0.237	0.385	0.409	0.436	0.447	0.481				0.399	21.51		A
Hexachloroethane	0.622	0.587	0.596	0.585	0.582	0.602	0.585			0.594	2.350		A
Isophorone	0.951	0.926	0.956	0.931	0.898	0.899				0.927	2.670		A
Indeno(1,2,3-cd)pyrene	1.966	2.059	2.100	2.121	2.154	2.222	1.838	0.925		1.923	21.85		A
2-Methylnaphthalene	0.744	0.720	0.758	0.767	0.759	0.767				0.752	2.406		A
o-Cresol	1.292	1.186	1.252	1.216	1.180	1.213				1.223	3.460		A
Naphthalene	1.098	1.051	1.079	1.092	1.086	1.115				1.087	1.961		A
Nitrobenzene	0.535	0.519	0.525	0.513	0.495	0.513	0.530			0.518	2.590		A
2-Nitrophenol	0.188	0.195	0.203	0.208	0.203	0.209				0.201	3.991		A
N-Nitrosodimethylamine	0.312	0.259	0.296	0.296	0.297	0.326				0.298	7.556		A
N-Nitrosodiphenylamine	0.557	0.511	0.524	0.516	0.538	0.536	0.485			0.524	4.385		A
Phenanthrene	1.068	1.035	1.042	1.051	1.064	1.067				1.055	1.346		A
2,4,5-Trichlorophenol	0.445	0.446	0.472	0.471	0.467	0.481	0.356			0.448	9.546		A
2,4,6-Trichlorophenol	0.421	0.418	0.442	0.447	0.445	0.456	0.390			0.431	5.320		A
Benzyl alcohol	0.888	0.859	0.915	0.902	0.870	0.894				0.888	2.323		A
Pentachloroethane	0.580	0.594	0.585	0.582	0.621					0.592	2.853		A
o-Toluidine	2.405	2.397	2.389	2.545	2.596					2.466	3.919		A
Aniline	1.870	1.749	1.862	1.817	1.740	1.768				1.801	3.161		A
Pentachlorobenzene	0.528	0.530	0.557	0.558	0.577					0.550	3.723		A
Pyridine	1.128	1.056	0.968	1.075	1.174	1.190				1.099	7.532		A
Caprolactam	0.093	0.106	0.118	0.118	0.114	0.096				0.107	10.18		A
Acetophenone	0.985	1.957	2.027	1.999	1.916	1.951				1.806	22.36		A
2-Acetylaminofluorene	0.617	0.635	0.641	0.702	0.732					0.665	7.352		A
4-Aminobiphenyl	0.809	0.788	0.791	0.730	0.733					0.770	4.727		A
Aramite	0.072	0.077	0.074	0.076	0.077					0.075	3.016		A
Chlorobenzilate	0.396	0.423	0.395	0.419	0.426					0.412	3.651		A
Diallate (Avadex)	0.491	0.478	0.464	0.414	0.431					0.456	7.135		A
p-Dimethylaminoazobenzene	0.465	0.506	0.474	0.470	0.480					0.479	3.363		A
7,12-Dimethylbenz(a)anthrace	0.587	0.637	0.677	0.694	0.689					0.657	6.891		A
3,3'-Dimethylbenzidine	0.748	0.755	0.713	0.649	0.642					0.701	7.592		A
Acrylamide	0.108	0.196	0.225	0.228	0.232					0.198	26.31		A
3-Nitroaniline	0.326	0.325	0.335	0.344	0.328	0.323				0.330	2.391		A
4-Nitroaniline	0.399	0.393	0.415	0.419	0.414	0.417				0.409	2.625		A
a,a-Dimethylphenethylamine	0.725	0.764	0.822	0.748	0.796					0.771	4.966		A

Column used to indicate that the required RRF or %RSD values is outside of QC limits

* Indicates that the compound is outside of the required minimum RRF and maximum %RSD values.

FORM VI SV-1

6B

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203033106

Instrument ID: MSSV1

Calibration Date 1: 01/23/03 Time 1: 1406

GC Column: DB-5MS-30M ID: .25 (mm)

Calibration Date 2: 03/21/03 Time 2: 1303

Method: SW-846 8270

Lab File ID: Level 1: 1201 Level 2: 1202 Level 3: 1203

Level 4: 1204 Level 5: 1205 Level 6: 1206

Level 7: 1207 Level 8: 1208 Level 9:

COMPOUND	RF 1	RF 2	RF 3	RF 4	RF 5	RF 6	RF 7	RF 8	RF 9	Avg RRF	% RSD	#	Type
Dimethoate	0.421	0.437	0.439	0.379	0.382					0.412	7.123		A
Disulfoton	0.658	0.624	0.633	0.593	0.598					0.621	4.297		A
1,3-Dinitrobenzene	0.196	0.201	0.212	0.207	0.209					0.205	3.220		A
1,4-Dinitrobenzene	0.354	0.400	0.401	0.389	0.413					0.391	5.808		A
Famphur	0.510	0.440	0.315	0.215	0.210					0.338	39.73		A
Ethyl methanesulfonate	1.451	1.465	1.465	1.474	1.512					1.473	1.548		A
Hexachloropropene	0.301	0.313	0.334	0.339	0.364					0.330	7.487		A
Isodrin	0.148	0.144	0.145	0.134	0.139					0.142	3.794		A
Isosafrole	0.273	0.259	0.280	0.267	0.283					0.272	3.695		A
Kepone	0.044	0.066	0.075	0.085	0.103					0.075	29.57		A
Methyl parathion	0.319	0.332	0.343	0.298	0.293					0.317	6.757		A
Methapyriline	0.551	0.542	0.517	0.420	0.395					0.485	14.93		A
Phorate	0.931	0.909	0.912	0.830	0.896					0.896	4.331		A
3-Methylcholanthrene	0.791	0.799	0.858	0.915	0.938					0.860	7.710		A
Methylmethanesulfonate	1.139	1.316	1.347	1.348	1.421					1.314	8.005		A
Phthalic Acid	0.189	0.159	0.156	0.135	0.151					0.158	12.41		A
1,4-Naphthoquinone	0.415	0.411	0.415	0.399	0.396					0.407	2.243		A
Phthalic anhydride	0.189	0.159	0.156	0.135	0.151					0.158	12.41		A
Tris(2,3-dibromopropyl)	0.116	0.140	0.154	0.167	0.188					0.153	17.79		A
1-Naphthylamine	1.083	1.072	1.033	0.934	0.908					1.006	7.990		A
4,4'-Methylenebis(2-cloroanili	0.217	0.244	0.246	0.255	0.264					0.245	7.277		A
2-Naphthylamine	0.944	0.892	0.881	0.797	0.793					0.862	7.538		A
4-Nitroquinoline-1-oxide	0.043	0.033	0.038	0.028	0.028					0.034	19.45		A
N-Nitrosodibutylamine	0.360	0.361	0.380	0.365	0.371					0.367	2.244		A
N-Nitrosodiethylamine	0.731	0.783	0.779	0.761	0.806					0.772	3.643		A
N-Nitrosomethylethylamine	0.269	0.423	0.443	0.481	0.508					0.425	21.94		A
n-Nitroso morpholine	0.773	0.792	0.819	0.828	0.865					0.815	4.335		A
N-Nitrosopiperidine	0.181	0.191	0.198	0.189	0.199					0.192	3.640		A
N-Nitrosopyrrolidine	0.496	0.475	0.457	0.446	0.441					0.463	4.888		A
1,2,4,5-Tetrachlorobenzene	0.336	0.336	0.358	0.373	0.395					0.360	7.044		A
5-Nitro-o-toluidine	0.314	0.341	0.327	0.308	0.310					0.320	4.357		A
Parathion	0.200	0.220	0.243	0.212	0.218					0.218	7.245		A
Pentachloronitrobenzene(PCN	0.132	0.136	0.138	0.133	0.140					0.136	2.284		A
Phenacetin	0.487	0.536	0.578	0.526	0.529					0.531	6.107		A

Column used to indicate that the required RRF or %RSD values is outside of QC limits

* Indicates that the compound is outside of the required minimum RRF and maximum %RSD values.

6B

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203033106

Instrument ID: MSSV1

Calibration Date 1: 01/23/03 Time 1: 1406

GC Column: DB-5MS-30M ID: .25 (mm)

Calibration Date 2: 03/21/03 Time 2: 1303

Method: SW-846 8270

Lab File ID: Level 1: 1201 Level 2: 1202 Level 3: 1203

Level 4: 1204 Level 5: 1205 Level 6: 1206

Level 7: 1207 Level 8: 1208 Level 9:

COMPOUND	RF 1	RF 2	RF 3	RF 4	RF 5	RF 6	RF 7	RF 8	RF 9	Avg RRF	% RSD	#	Type
p-Phenylenediamine	0.274	0.268	0.273	0.241	0.232					0.257	7.716		A
2-Picoline	1.555	1.842	1.975	1.988	2.096					1.891	11.01		A
Di-n-butylphthalate	1.039	1.107	1.143	1.168	1.154	1.133				1.124	4.119		A
Pronamide	0.366	0.379	0.386	0.368	0.368					0.373	2.390		A
1,2 Diphenylhydrazine	1.111	1.021	1.031	0.991	1.016	1.019				1.032	4.000		A
Safrole	0.451	0.448	0.458	0.433	0.447					0.447	2.009		A
Sulfotep	0.189	0.218	0.248	0.278	0.282					0.243	16.30		A
Thionazine	0.279	0.278	0.292	0.287	0.280					0.283	2.158		A
2-Nitroaniline	0.326	0.325	0.335	0.344	0.328	0.323				0.330	2.391		A
0,0,0-Triethylphosphorothioate	0.180	0.186	0.187	0.191	0.200					0.189	3.766		A
2-Chloronaphthalene	1.257	1.184	1.184	1.195	1.191	1.232				1.207	2.505		A
4-Chloroaniline	0.445	0.417	0.441	0.447	0.426	0.431				0.435	2.635		A
1,3,5-Trinitrobenzene	0.058	0.072	0.078	0.074	0.078					0.072	11.24		A
2,3,4,6-Tetrachlorophenol	0.232	0.257	0.289	0.287	0.299					0.273	10.07		A
2,6-Dichlorophenol	0.219	0.260	0.226	0.214	0.220					0.228	8.077		A
Dinoseb	0.144	0.151	0.178	0.181	0.189					0.169	11.70		A
Atrazine (Aatrex)	0.127	0.077	0.097	0.102	0.097	0.104				0.101	16.00		A
Benzaldehyde	1.920	1.878	1.917	1.889	1.815	1.833				1.875	2.316		A
Biphenyl	0.619	0.575	0.633	0.640	0.618	0.618				0.617	3.629		A
Cresols	2.565	2.425	2.574	2.525	2.442	2.504				2.506	2.473		A
m,p-Cresol	1.273	1.238	1.323	1.309	1.262	1.291				1.283	2.424		A
2-Methyl-4,6-dinitrophenol	0.062	0.164	0.184	0.188	0.190	0.184				0.162	30.69		A
1-Methylnaphthalene	0.659	0.641	0.675	0.677	0.665	0.686				0.667	2.379		A
Phenol	2.047	1.908	1.940	1.923	1.812	1.929				1.926	3.904		A
2-Chlorophenol	1.252	1.183	1.231	1.209	1.184	1.212				1.212	2.226		A
1,4-Dichlorobenzene	1.533	1.434	1.457	1.480	1.453	1.512				1.478	2.555		A
N-Nitroso-di-n-propylamine	1.271	1.162	1.258	1.240	1.186	1.207	1.161			1.212	3.716		A
1,2,4-Trichlorobenzene	0.416	0.400	0.402	0.410	0.406	0.415				0.408	1.608		A
4-Chloro-3-methylphenol	0.365	0.348	0.384	0.374	0.368	0.362				0.367	3.294		A
Acenaphthene	1.199	1.144	1.175	1.190	1.172	1.187				1.178	1.655		A
4-Nitrophenol	0.206	0.208	0.210	0.219	0.201	0.199				0.207	3.445		A
2,4-Dinitrotoluene	0.373	0.417	0.424	0.453	0.429	0.429	0.272	0.175		0.371	26.29		A
Pentachlorophenol	0.151	0.203	0.201	0.198	0.189	0.186				0.188	10.19		A
Pyrene	1.135	1.122	1.153	1.186	1.102	1.130				1.138	2.522		A

Column used to indicate that the required RRF or %RSD values is outside of QC limits

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6B

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203033106

Instrument ID: MSSV1

Calibration Date 1: 01/23/03 Time 1: 1406

GC Column: DB-5MS-30M ID: .25 (mm)

Calibration Date 2: 03/21/03 Time 2: 1303

Method: SW-846 8270

Lab File ID: Level 1: 1201 Level 2: 1202 Level 3: 1203

Level 4: 1204 Level 5: 1205 Level 6: 1206

Level 7: 1207 Level 8: 1208 Level 9:

COMPOUND	RF 1	RF 2	RF 3	RF 4	RF 5	RF 6	RF 7	RF 8	RF 9	Avg RRF	% RSD	#	Type
Nitrobenzene-d5	0.556	0.539	0.544	0.537	0.534	0.539				0.541	1.450		A
2-Fluorobiphenyl	1.524	1.470	1.479	1.515	1.512	1.547				1.508	1.886		A
Terphenyl-d14	0.910	0.899	0.913	0.943	0.869	0.882				0.903	2.899		A
Phenol-d5	1.895	1.781	1.850	1.828	1.795	1.833				1.830	2.224		A
2-Fluorophenol	1.353	1.336	1.325	1.303	1.279	1.309				1.317	1.993		A
2,4,6-Tribromophenol	0.256	0.234	0.245	0.250	0.237	0.236				0.243	3.629		A

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FORM VI SV-1

Gulf Coast Analytical Laboratories, Inc.

RECOVERY REPORT

Client Name: 3-40-2
Client SDG: 2030321.s
Sample Matrix: LIQUID
Fraction: SV
Lab Smp Id: ICV050
Client Smp ID: ICV050
Level: LOW
Operator: rlw
Data Type: MS DATA
SampleType: LCS
SpikeList File: ICV.spk
Quant Type: ISTD
Sublist File: 8270C.sub
Method File: /var/chem/MSSV1.i/2030321.s.b/8270CE_01.m
Misc Info: ICV050*3-40-2

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1 n-Nitrosodimethyla	50.0	44.7	89.44	70-130
2 Pyridine	50.0	41.1	82.24	70-130
6 Phenol +	50.0	47.3	94.68	70-130
5 Aniline	50.0	48.1	96.25	70-130
7 bis(-2-Chloroethyl	50.0	46.6	93.28	70-130
8 2-Chlorophenol	50.0	49.5	99.05	70-130
9 1,3-Dichlorobenzen	50.0	48.1	96.18	70-130
11 1,4-Dichlorobenzen	50.0	48.7	97.30	70-130
13 1,2-Dichlorobenzen	50.0	48.5	97.09	70-130
12 Benzyl alcohol	50.0	46.5	92.90	70-130
15 2-Methylphenol	50.0	47.3	94.54	70-130
14 Bis(2-chloroisopro	50.0	47.5	95.03	70-130
17 3- & 4-Methylpheno	50.0	46.4	92.73	70-130
16 N-Nitroso-di-n-pro	50.0	47.1	94.24	70-130
18 Hexachloroethane	50.0	50.1	100.15	70-130
20 Nitrobenzene	50.0	49.1	98.10	70-130
21 Isophorone	50.0	47.2	94.48	70-130
22 2-Nitrophenol +	50.0	48.3	96.61	70-130
23 2,4-Dimethyphenol	50.0	46.7	93.45	70-130
25 Benzoic Acid	50.0	46.4	92.82	70-130
24 bis(-2-Chloroethox	50.0	47.5	95.10	70-130
26 2,4-Dichlorophenol	50.0	49.6	99.19	70-130
27 1,2,4-Trichloroben	50.0	49.0	97.94	70-130
29 Naphthalene	50.0	47.9	95.84	70-130
30 4-Chloroaniline	50.0	46.6	93.24	70-130
31 Hexachlorobutadien	50.0	49.6	99.21	70-130
32 4-Chloro-3-Methylp	50.0	45.4	90.87	70-130
33 2-Methylnaphthalen	50.0	46.5	92.98	70-130
34 Hexachlorocyclopen	50.0	48.3	96.68	70-130
35 2,4,6-Trichlorophe	50.0	48.6	97.26	70-130
36 2,4,5-Trichlorphen	50.0	48.9	97.82	70-130
38 2-Chloronaphthalen	50.0	48.7	97.43	70-130
39 2-Nitroaniline	50.0	47.4	94.74	70-130

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
40 Dimethylphthalate	50.0	48.4	96.71	70-130
41 2,6-Dinitrotoluene	50.0	52.6	105.28	70-130
42 Acenaphthylene	50.0	48.2	96.31	70-130
43 3-Nitroaniline	50.0	47.4	94.74	70-130
45 Acenaphthene +	50.0	48.5	97.07	70-130
46 2,4-Dinitrophenol	50.0	39.4	78.89	70-130
49 4-Nitrophenol ++	50.0	44.3	88.51	70-130
48 2,4-Dinitrotoluene	50.0	55.6	111.20	70-130
47 Dibenzofuran	50.0	48.4	96.82	70-130
50 Diethylphthalate	50.0	48.8	97.51	70-130
51 Fluorene	50.0	47.8	95.54	70-130
52 4-Chlorophenyl-phe	50.0	49.8	99.60	70-130
55 N-nitrosodiphenyla	50.0	48.9	97.76	70-130
53 4-Nitroaniline	50.0	38.2	76.40	70-130
54 4,6-Dinitro-o-cres	50.0	53.5	107.07	70-130
56 Azobenzene	50.0	49.7	99.36	70-130
58 4-Bromophenyl-phen	50.0	48.6	97.23	70-130
59 Hexachlorobenzene	50.0	47.7	95.48	70-130
60 Pentachlorophenol	50.0	49.5	99.01	70-130
62 Phenanthrene	50.0	48.7	97.35	70-130
63 Anthracene	50.0	48.8	97.62	70-130
65 Di-n-butylphthalat	50.0	48.0	95.92	70-130
67 Fluoranthene +	50.0	49.4	98.77	70-130
69 Pyrene	50.0	48.7	97.39	70-130
71 Butylbenzylphthala	50.0	48.4	96.78	70-130
73 3,3'-Dichlorobenzi	50.0	49.1	98.12	70-130
72 Benzo(a)anthracene	50.0	46.6	93.18	70-130
75 Chrysene	50.0	48.5	96.97	70-130
76 bis(2-Ethylhexyl)p	50.0	51.1	102.17	70-130
77 Di-n-octylphthalat	50.0	47.8	95.59	70-130
78 Benzo(b)fluoranthe	50.0	49.6	99.25	70-130
79 Benzo(k)fluoranthe	50.0	52.0	103.92	70-130
80 Benzo(a)pyrene +	50.0	52.3	104.50	70-130
82 Indeno(1,2,3-cd)py	50.0	54.5	109.09	70-130
83 Dibenzo(a,h)anthra	50.0	51.7	103.39	70-130
84 Benzo(g,h,i)peryle	50.0	50.8	101.58	70-130

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 3 2-Fluorophenol	100	48.8	48.81	24-96
$ 4 Phenol-d5	100	47.8	47.80	10-76
$ 19 Nitrobenzene-d5	50.0	49.3	98.61	43-110
$ 37 2-Fluorobiphenyl	50.0	49.4	98.83	16-128

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 57 2,4,6-Tribromophen	100	47.5	47.51	19-133
$ 70 Terphenyl-d14	50.0	49.1	98.28	47-121

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203033106

Instrument ID: MSSV1

Calibration Date: 04/02/03 Time: 1415

Lab File ID: 2030402/A6136

Init. Calib. Date 1: 01/23/03 Time 1: 1406

GC Column: DB-5MS-30M ID: .25 (mm)

Init. Calib. Date 2: 03/21/03 Time 2: 1303

Method: SW-846 8270

COMPOUND	Avg RF	RRF	Min RRF		% D	Max D	
Acenaphthylene	1.945	1.928	.01		-0.88	50	
Anthracene	1.037	1.121	.01		8.108	50	
Benzo(a)anthracene	1.305	1.340	.01		2.694	50	
Benzidine	0.035	0.012	.01		-66.1	50	
Benzo(b)fluoranthene	1.378	1.506	.01		9.303	50	
Benzo(k)fluoranthene	1.407	1.565	.01		11.2	50	
Benzo(g,h,i)perylene	1.854	1.952	.01		5.260	50	
Benzo(a)pyrene	1.287	1.499	.01		16.5	20	
Benzoic acid	0.184	0.166	.01		-9.62	50	
Butylbenzylphthalate	0.459	0.473	.01		2.939	50	
Bis(2-Chloroethoxy)methane	0.510	0.511	.01		0.198	50	
Bis(2-Chloroethyl)ether	0.996	1.146	.01		15.0	50	
bis(2-Chloroisopropyl)ether	1.143	1.197	.01		4.763	50	
bis(2-ethylhexyl)phthalate	0.589	0.567	.01		-3.72	50	
4-Bromophenyl-phenylether	0.226	0.255	.01		12.8	50	
Carbazole	1.134	1.115	.01		-1.63	50	
4-Chlorophenyl-phenylether	0.759	0.728	.01		-4.04	50	
Chrysene	1.201	1.254	.01		4.446	50	
Dibenz(a,h)anthracene	1.746	1.867	.01		6.939	50	
Dibenzofuran	1.757	1.682	.01		-4.25	50	
1,2-Dichlorobenzene	1.387	1.450	.01		4.537	50	
1,3-Dichlorobenzene	1.453	1.536	.01		5.714	50	
3,3'-Dichlorobenzidine	0.424	0.415	.01		-2.23	50	
2,4-Dichlorophenol	0.296	0.310	.01		4.804	20	
Diethylphthalate	1.214	1.058	.01		-12.8	50	
2,4-Dimethylphenol	0.454	0.461	.01		1.373	50	
Dimethyl-phthalate	1.350	1.227	.01		-9.10	50	
Di-n-octylphthalate	1.063	0.919	.01		-13.5	20	
2,4-Dinitrophenol	0.183	0.167	.05		-8.58	50	
2,6-Dinitrotoluene	0.290	0.291	.01		0.459	50	
Fluoranthene	1.223	1.163	.01		-4.94	20	
Fluorene	1.404	1.302	.01		-7.20	50	
Hexachlorobenzene	0.283	0.303	.01		7.106	50	
Hexachlorobutadiene	0.290	0.302	.01		3.990	20	
Hexachlorocyclopentadiene	0.399	0.454	.05		13.9	50	
Hexachloroethane	0.594	0.636	.01		7.051	50	
Isophorone	0.927	0.930	.01		0.357	50	
Indeno(1,2,3-cd)pyrene	1.923	2.175	.01		13.1	50	
2-Methylnaphthalene	0.752	0.735	.01		-2.36	50	

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203033106

Instrument ID: MSSV1

Calibration Date: 04/02/03 Time: 1415

Lab File ID: 2030402/A6136

Init. Calib. Date 1: 01/23/03 Time 1: 1406

GC Column: DB-5MS-30M ID: .25 (mm)

Init. Calib. Date 2: 03/21/03 Time 2: 1303

Method: SW-846 8270

COMPOUND	Avg RF	RRF	Min RRF		% D	Max D	
o-Cresol	1.223	1.270	.01		3.828	50	
Naphthalene	1.087	1.105	.01		1.694	50	
Nitrobenzene	0.518	0.536	.01		3.294	50	
2-Nitrophenol	0.201	0.212	.01		5.369	20	
N-Nitrosodimethylamine	0.298	0.262	.01		-12.1	50	
N-Nitrosodiphenylamine	0.524	0.565	.01		7.914	20	
Phenanthrene	1.055	1.117	.01		5.923	50	
2,4,5-Trichlorophenol	0.448	0.464	.01		3.596	50	
2,4,6-Trichlorophenol	0.431	0.446	.01		3.445	20	
Benzyl alcohol	0.888	0.905	.01		1.892	50	
Aniline	1.801	2.225	.01		23.5	50	
Pyridine	1.099	1.064	.01		-3.10	50	
Caprolactam	0.107	0.093	.01		-13.0	50	
Acetophenone	1.806	2.003	.01		10.9	50	
3-Nitroaniline	0.330	0.265	.01		-19.8	50	
4-Nitroaniline	0.409	0.238	.01		-41.9	50	
Di-n-butylphthalate	1.124	1.052	.01		-6.43	50	
1,2 Diphenylhydrazine	1.032	1.165	.01		12.9	50	
2-Nitroaniline	0.330	0.369	.01		11.7	50	
2-Chloronaphthalene	1.207	1.241	.01		2.809	50	
4-Chloroaniline	0.435	0.419	.01		-3.54	50	
Atrazine (Aatrex)	0.101	0.184	.01		82.5	50	*
Benzaldehyde	1.875	1.856	.01		-1.01	50	
Biphenyl	0.617	0.565	.01		-8.38	50	
Cresols	2.506	2.563	.01		2.297	50	
m,p-Cresol	1.283	1.293	.01		0.837	50	
2-Methyl-4,6-dinitrophenol	0.162	0.168	.01		3.407	50	
1-Methylnaphthalene	0.667	0.650	.01		-2.64	50	
Phenol	1.926	1.981	.01		2.854	20	
2-Chlorophenol	1.212	1.298	.01		7.080	50	
1,4-Dichlorobenzene	1.478	1.562	.01		5.667	20	
N-Nitroso-di-n-propylamine	1.212	1.206	.05		-0.46	50	
1,2,4-Trichlorobenzene	0.408	0.428	.01		4.696	50	
4-Chloro-3-methylphenol	0.367	0.338	.01		-7.80	20	
Acenaphthene	1.178	1.157	.01		-1.72	20	
4-Nitrophenol	0.207	0.159	.05		-23.1	50	
2,4-Dinitrotoluene	0.371	0.364	.01		-1.94	50	
Pentachlorophenol	0.188	0.171	.01		-9.00	20	
Pyrene	1.138	1.360	.01		19.6	50	

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203033106

Instrument ID: MSSV1

Calibration Date: 04/02/03 Time: 1415

Lab File ID: 2030402/A6136

Init. Calib. Date 1: 01/23/03 Time 1: 1406

GC Column: DB-5MS-30M ID: .25 (mm)

Init. Calib. Date 2: 03/21/03 Time 2: 1303

Method: SW-846 8270

COMPOUND	Avg RF	RRF	Min RRF		% D	Max D	
Nitrobenzene-d5	0.541	0.557	.01		2.792	50	
2-Fluorobiphenyl	1.508	1.574	.01		4.385	50	
Terphenyl-d14	0.903	1.037	.01		14.9	50	
Phenol-d5	1.830	1.912	.01		4.479	50	
2-Fluorophenol	1.317	1.427	.01		8.362	50	
2,4,6-Tribromophenol	0.243	0.212	.01		-12.7	50	

FORM V II VOA

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203033106

Instrument ID: MSSV1

Calibration Date: 04/03/03 Time: 1119

Lab File ID: 2030403/A6162

Init. Calib. Date 1: 01/23/03 Time 1: 1406

GC Column: DB-5MS-30M ID: .25 (mm)

Init. Calib. Date 2: 03/21/03 Time 2: 1303

Method: SW-846 8270

COMPOUND	Avg RF	RRF	Min RRF		% D	Max D	
Acenaphthylene	1.945	1.915	.01		-1.51	50	
Anthracene	1.037	1.121	.01		8.082	50	
Benzo(a)anthracene	1.305	1.322	.01		1.316	50	
Benzidine	0.035	0.092	.01		160.6	50	*
Benzo(b)fluoranthene	1.378	1.525	.01		10.7	50	
Benzo(k)fluoranthene	1.407	1.590	.01		13.0	50	
Benzo(g,h,i)perylene	1.854	1.733	.01		-6.55	50	
Benzo(a)pyrene	1.287	1.498	.01		16.5	20	
Benzoic acid	0.184	0.223	.01		21.7	50	
Butylbenzylphthalate	0.459	0.518	.01		12.8	50	
Bis(2-Chloroethoxy)methane	0.510	0.534	.01		4.757	50	
Bis(2-Chloroethyl)ether	0.996	1.074	.01		7.754	50	
bis(2-Chloroisopropyl)ether	1.143	1.225	.01		7.191	50	
bis(2-ethylhexyl)phthalate	0.589	0.721	.01		22.5	50	
4-Bromophenyl-phenylether	0.226	0.234	.01		3.508	50	
Carbazole	1.134	1.204	.01		6.216	50	
4-Chlorophenyl-phenylether	0.759	0.764	.01		0.585	50	
Chrysene	1.201	1.257	.01		4.700	50	
Dibenz(a,h)anthracene	1.746	1.728	.01		-1.03	50	
Dibenzofuran	1.757	1.727	.01		-1.71	50	
1,2-Dichlorobenzene	1.387	1.464	.01		5.588	50	
1,3-Dichlorobenzene	1.453	1.542	.01		6.120	50	
3,3'-Dichlorobenzidine	0.424	0.435	.01		2.489	50	
2,4-Dichlorophenol	0.296	0.314	.01		6.156	20	
Diethylphthalate	1.214	1.236	.01		1.783	50	
2,4-Dimethylphenol	0.454	0.479	.01		5.430	50	
Dimethyl-phthalate	1.350	1.340	.01		-0.72	50	
Di-n-octylphthalate	1.063	1.232	.01		15.9	20	
2,4-Dinitrophenol	0.183	0.210	.05		15.0	50	
2,6-Dinitrotoluene	0.290	0.303	.01		4.435	50	
Fluoranthene	1.223	1.328	.01		8.593	20	
Fluorene	1.404	1.379	.01		-1.72	50	
Hexachlorobenzene	0.283	0.286	.01		1.221	50	
Hexachlorobutadiene	0.290	0.296	.01		2.041	20	
Hexachlorocyclopentadiene	0.399	0.405	.05		1.400	50	
Hexachloroethane	0.594	0.641	.01		7.863	50	
Isophorone	0.927	0.971	.01		4.804	50	
Indeno(1,2,3-cd)pyrene	1.923	2.033	.01		5.726	50	
2-Methylnaphthalene	0.752	0.766	.01		1.821	50	

FORM V II VOA

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203033106

Instrument ID: MSSV1

Calibration Date: 04/03/03 Time: 1119

Lab File ID: 2030403/A6162

Init. Calib. Date 1: 01/23/03 Time 1: 1406

GC Column: DB-5MS-30M ID: .25 (mm)

Init. Calib. Date 2: 03/21/03 Time 2: 1303

Method: SW-846 8270

COMPOUND	Avg RF	RRF	Min RRF		% D	Max D	
o-Cresol	1.223	1.278	.01		4.457	50	
Naphthalene	1.087	1.110	.01		2.117	50	
Nitrobenzene	0.518	0.536	.01		3.351	50	
2-Nitrophenol	0.201	0.212	.01		5.419	20	
N-Nitrosodimethylamine	0.298	0.250	.01		-15.8	50	
N-Nitrosodiphenylamine	0.524	0.557	.01		6.419	20	
Phenanthrene	1.055	1.110	.01		5.264	50	
2,4,5-Trichlorophenol	0.448	0.459	.01		2.473	50	
2,4,6-Trichlorophenol	0.431	0.433	.01		0.494	20	
Benzyl alcohol	0.888	0.916	.01		3.141	50	
Aniline	1.801	2.331	.01		29.4	50	
Pyridine	1.099	1.093	.01		-0.49	50	
Caprolactam	0.107	0.116	.01		7.770	50	
Acetophenone	1.806	2.062	.01		14.2	50	
3-Nitroaniline	0.330	0.318	.01		-3.68	50	
4-Nitroaniline	0.409	0.321	.01		-21.5	50	
Di-n-butylphthalate	1.124	1.274	.01		13.4	50	
1,2 Diphenylhydrazine	1.032	1.102	.01		6.807	50	
2-Nitroaniline	0.330	0.395	.01		19.5	50	
2-Chloronaphthalene	1.207	1.176	.01		-2.57	50	
4-Chloroaniline	0.435	0.450	.01		3.475	50	
Atrazine (Aatrex)	0.101	0.199	.01		97.5	50	*
Benzaldehyde	1.875	1.941	.01		3.516	50	
Biphenyl	0.617	0.620	.01		0.416	50	
Cresols	2.506	2.619	.01		4.508	50	
m,p-Cresol	1.283	1.341	.01		4.557	50	
2-Methyl-4,6-dinitrophenol	0.162	0.173	.01		6.684	50	
1-Methylnaphthalene	0.667	0.673	.01		0.908	50	
Phenol	1.926	2.045	.01		6.174	20	
2-Chlorophenol	1.212	1.315	.01		8.499	50	
1,4-Dichlorobenzene	1.478	1.568	.01		6.078	20	
N-Nitroso-di-n-propylamine	1.212	1.267	.05		4.496	50	
1,2,4-Trichlorobenzene	0.408	0.421	.01		3.105	50	
4-Chloro-3-methylphenol	0.367	0.372	.01		1.357	20	
Acenaphthene	1.178	1.147	.01		-2.64	20	
4-Nitrophenol	0.207	0.208	.05		0.246	50	
2,4-Dinitrotoluene	0.371	0.413	.01		11.2	50	
Pentachlorophenol	0.188	0.180	.01		-4.10	20	
Pyrene	1.138	1.201	.01		5.547	50	

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203033106

Instrument ID: MSSV1

Calibration Date: 04/03/03 Time: 1119

Lab File ID: 2030403/A6162

Init. Calib. Date 1: 01/23/03 Time 1: 1406

GC Column: DB-5MS-30M ID: .25 (mm)

Init. Calib. Date 2: 03/21/03 Time 2: 1303

Method: SW-846 8270

COMPOUND	Avg RF	RRF	Min RRF		% D	Max D	
Nitrobenzene-d5	0.541	0.571	.01		5.384	50	
2-Fluorobiphenyl	1.508	1.491	.01		-1.11	50	
Terphenyl-d14	0.903	0.967	.01		7.163	50	
Phenol-d5	1.830	1.932	.01		5.543	50	
2-Fluorophenol	1.317	1.435	.01		8.954	50	
2,4,6-Tribromophenol	0.243	0.235	.01		-3.51	50	

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203033106

Instrument ID: MSSV1

Calibration Date: 04/04/03 Time: 1457

Lab File ID: 2030404/A6184

Init. Calib. Date 1: 01/23/03 Time 1: 1406

GC Column: DB-5MS-30M ID: .25 (mm)

Init. Calib. Date 2: 03/21/03 Time 2: 1303

Method: SW-846 8270

COMPOUND	Avg RF	RRF	Min RRF		% D	Max D	
Acenaphthylene	1.945	1.929	.01		-0.83	50	
Anthracene	1.037	1.138	.01		9.775	50	
Benzo(a)anthracene	1.305	1.325	.01		1.578	50	
Benzidine	0.035	0.180	.01		408.4	50	*
Benzo(b)fluoranthene	1.378	1.488	.01		7.981	50	
Benzo(k)fluoranthene	1.407	1.542	.01		9.587	50	
Benzo(g,h,i)perylene	1.854	2.026	.01		9.248	50	
Benzo(a)pyrene	1.287	1.478	.01		14.9	20	
Benzoic acid	0.184	0.070	.01		-61.6	50	
Butylbenzylphthalate	0.459	0.481	.01		4.788	50	
Bis(2-Chloroethoxy)methane	0.510	0.511	.01		0.173	50	
Bis(2-Chloroethyl)ether	0.996	1.073	.01		7.673	50	
bis(2-Chloroisopropyl)ether	1.143	1.185	.01		3.669	50	
bis(2-ethylhexyl)phthalate	0.589	0.636	.01		7.922	50	
4-Bromophenyl-phenylether	0.226	0.249	.01		10.2	50	
Carbazole	1.134	1.187	.01		4.716	50	
4-Chlorophenyl-phenylether	0.759	0.744	.01		-2.00	50	
Chrysene	1.201	1.246	.01		3.795	50	
Dibenz(a,h)anthracene	1.746	2.018	.01		15.6	50	
Dibenzofuran	1.757	1.693	.01		-3.64	50	
1,2-Dichlorobenzene	1.387	1.482	.01		6.853	50	
1,3-Dichlorobenzene	1.453	1.565	.01		7.738	50	
3,3'-Dichlorobenzidine	0.424	0.486	.01		14.5	50	
2,4-Dichlorophenol	0.296	0.307	.01		3.665	20	
Diethylphthalate	1.214	1.153	.01		-4.99	50	
2,4-Dimethylphenol	0.454	0.461	.01		1.508	50	
Dimethyl-phthalate	1.350	1.288	.01		-4.56	50	
Di-n-octylphthalate	1.063	1.143	.01		7.531	20	
2,4-Dinitrophenol	0.183	0.088	.05		-51.9	50	
2,6-Dinitrotoluene	0.290	0.302	.01		4.204	50	
Fluoranthene	1.223	1.291	.01		5.566	20	
Fluorene	1.404	1.348	.01		-3.97	50	
Hexachlorobenzene	0.283	0.304	.01		7.509	50	
Hexachlorobutadiene	0.290	0.302	.01		3.862	20	
Hexachlorocyclopentadiene	0.399	0.362	.05		-9.25	50	
Hexachloroethane	0.594	0.643	.01		8.239	50	
Isophorone	0.927	0.945	.01		1.941	50	
Indeno(1,2,3-cd)pyrene	1.923	2.342	.01		21.8	50	
2-Methylnaphthalene	0.752	0.749	.01		-0.42	50	

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203033106

Instrument ID: MSSV1

Calibration Date: 04/04/03 Time: 1457

Lab File ID: 2030404/A6184

Init. Calib. Date 1: 01/23/03 Time 1: 1406

GC Column: DB-5MS-30M ID: .25 (mm)

Init. Calib. Date 2: 03/21/03 Time 2: 1303

Method: SW-846 8270

COMPOUND	Avg RF	RRF	Min RRF		% D	Max D	
o-Cresol	1.223	1.276	.01		4.295	50	
Naphthalene	1.087	1.105	.01		1.633	50	
Nitrobenzene	0.518	0.534	.01		2.906	50	
2-Nitrophenol	0.201	0.201	.01		-0.09	20	
N-Nitrosodimethylamine	0.298	0.249	.01		-16.2	50	
N-Nitrosodiphenylamine	0.524	0.568	.01		8.353	20	
Phenanthrene	1.055	1.120	.01		6.225	50	
2,4,5-Trichlorophenol	0.448	0.442	.01		-1.44	50	
2,4,6-Trichlorophenol	0.431	0.429	.01		-0.57	20	
Benzyl alcohol	0.888	0.897	.01		1.073	50	
Aniline	1.801	2.351	.01		30.6	50	
Pyridine	1.099	1.142	.01		3.989	50	
Caprolactam	0.107	0.103	.01		-3.93	50	
Acetophenone	1.806	2.025	.01		12.2	50	
3-Nitroaniline	0.330	0.319	.01		-3.42	50	
4-Nitroaniline	0.409	0.299	.01		-27.0	50	
Di-n-butylphthalate	1.124	1.170	.01		4.091	50	
1,2 Diphenylhydrazine	1.032	1.150	.01		11.4	50	
2-Nitroaniline	0.330	0.395	.01		19.5	50	
2-Chloronaphthalene	1.207	1.202	.01		-0.39	50	
4-Chloroaniline	0.435	0.451	.01		3.891	50	
Atrazine (Aatrex)	0.101	0.194	.01		92.4	50	*
Benzaldehyde	1.875	1.931	.01		2.998	50	
Biphenyl	0.617	0.598	.01		-3.14	50	
Cresols	2.506	2.590	.01		3.358	50	
m,p-Cresol	1.283	1.314	.01		2.464	50	
2-Methyl-4,6-dinitrophenol	0.162	0.131	.01		-19.1	50	
1-Methylnaphthalene	0.667	0.659	.01		-1.24	50	
Phenol	1.926	2.015	.01		4.590	20	
2-Chlorophenol	1.212	1.310	.01		8.082	50	
1,4-Dichlorobenzene	1.478	1.552	.01		4.997	20	
N-Nitroso-di-n-propylamine	1.212	1.222	.05		0.785	50	
1,2,4-Trichlorobenzene	0.408	0.424	.01		3.950	50	
4-Chloro-3-methylphenol	0.367	0.356	.01		-2.93	20	
Acenaphthene	1.178	1.159	.01		-1.57	20	
4-Nitrophenol	0.207	0.190	.05		-8.42	50	
2,4-Dinitrotoluene	0.371	0.394	.01		6.191	50	
Pentachlorophenol	0.188	0.174	.01		-7.76	20	
Pyrene	1.138	1.243	.01		9.257	50	

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203033106

Instrument ID: MSSV1

Calibration Date: 04/04/03 Time: 1457

Lab File ID: 2030404/A6184

Init. Calib. Date 1: 01/23/03 Time 1: 1406

GC Column: DB-5MS-30M ID: .25 (mm)

Init. Calib. Date 2: 03/21/03 Time 2: 1303

Method: SW-846 8270

COMPOUND	Avg RF	RRF	Min RRF		% D	Max D	
Nitrobenzene-d5	0.541	0.559	.01		3.076	50	
2-Fluorobiphenyl	1.508	1.509	.01		0.052	50	
Terphenyl-d14	0.903	0.983	.01		8.841	50	
Phenol-d5	1.830	1.905	.01		4.082	50	
2-Fluorophenol	1.317	1.431	.01		8.616	50	
2,4,6-Tribromophenol	0.243	0.219	.01		-9.70	50	

FORM V II VOA

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203033106

Lab File ID (Standard): 2030402/A6136

Date Analyzed: 04/02/03 Time: 1415

Instrument ID: MSSV1

GC Column: DB-5MS-30M ID: .25 (mm)

Method: SW-846 8270

	IS 1 (ACE)			IS 2 (DCB)			IS 3(NPT)		
	Area	#	RT	Area	#	RT	Area	#	RT	#
12 HOUR STD	413267		5.992	230453		4.042	755597		4.89	
UPPER LIMIT	826534		6.492	460906		4.542	1511194		5.39	
LOWER LIMIT	206633.5		5.492	115226.5		3.542	377798.5		4.39	

EPA Sample No.

1 .	MB91133	466827		5.99		257223		4.04		845971		4.89		
2 .	LCS91134	381788		5.99		213378		4.04		692773		4.89		
3 .	LCSD91135	379995		5.99		208461		4.04		684258		4.89		

IS 1 ID : Acenaphthene-d10

IS 2 ID : 1,4-Dichlorobenzene-d4

IS 3 ID : Naphthalene-d8

AREA UPPER LIMIT = +100% of internal standard area

AREALOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard values with an asterisk.

* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: _____ Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID (Standard): 2030402/A6136 Date Analyzed: 04/02/03 Time: 1415

Instrument ID: MSSV1 GC Column: DB-5MS-30M ID: .25 (mm)

Method: SW-846 8270

	IS 4(PHN)			IS 5(CRY)			IS 6(PRY)		
	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
12 HOUR STD	602478		6.917		522697		8.787		477107		9.937	
UPPER LIMIT	1204956		7.417		1045394		9.287		954214		10.43	
LOWER LIMIT	301239		6.417		261348.5		8.287		238553.5		9.437	
1. MB91133	703367		6.91		500946		8.77		377329		9.93	
2. LCS91134	611073		6.91		646269		8.78		664644		9.94	
3. LCSD91135	607933		6.91		624633		8.78		604611		9.93	

IS 4 ID : Phenanthrene-d10
IS 5 ID : Chrysene-d12
IS 6 ID : Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREALOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard values with an asterisk.
* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203033106

Lab File ID (Standard): 2030403/A6162

Date Analyzed: 04/03/03 Time: 1119

Instrument ID: MSSV1

GC Column: DB-5MS-30M ID: .25 (mm)

Method: SW-846 8270

	IS 1 (ACE)			IS 2 (DCB)			IS 3(NPT)		
	Area	#	RT	Area	#	RT	Area	#	RT	#
12 HOUR STD	359398		5.969	180345		4.025	593269		4.873	
UPPER LIMIT	718796		6.469	360690		4.525	1186538		5.373	
LOWER LIMIT	179699		5.469	90172.5		3.525	296634.5		4.373	

EPA Sample No.

1 .	021-WC1-L-0328-03	391246		5.97		197794		4.03		655913		4.87		

IS 1 ID : Acenaphthene-d10

IS 2 ID : 1,4-Dichlorobenzene-d4

IS 3 ID : Naphthalene-d8

AREA UPPER LIMIT = +100% of internal standard area

AREALOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard values with an asterisk.

* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: _____ Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID (Standard): 2030403/A6162 Date Analyzed: 04/03/03 Time: 1119

Instrument ID: MSSV1 GC Column: DB-5MS-30M ID: .25 (mm)

Method: SW-846 8270

	IS 4(PHN)			IS 5(CRY)			IS 6(PRY)		
	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
12 HOUR STD	622558		6.886		711183		8.739		632296		9.88	
UPPER LIMIT	1245116		7.386		1422366		9.239		1264592		10.38	
LOWER LIMIT	311279		6.386		355591.5		8.239		316148		9.38	
1. 021-WC1-L-0328-03	678367		6.89		828370		8.74		825195		9.89	

IS 4 ID : Phenanthrene-d10
IS 5 ID : Chrysene-d12
IS 6 ID : Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREALOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard values with an asterisk.
* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203033106

Lab File ID (Standard): 2030404/A6184

Date Analyzed: 04/04/03 Time: 1457

Instrument ID: MSSV1

GC Column: DB-5MS-30M ID: .25 (mm)

Method: SW-846 8270

	IS 1 (ACE)		IS 2 (DCB)		IS 3(NPT)	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	387547	5.974	202611	4.033	670852	4.879
UPPER LIMIT	775094	6.474	405222	4.533	1341704	5.379
LOWER LIMIT	193773.5	5.474	101305.5	3.533	335426	4.379

EPA Sample No.

1 .	MB91787	588935		5.97		291748		4.03		1022690		4.88	
2 .	LCS91788	419834		5.97		233627		4.03		771604		4.88	
3 .	LCSD91789	451235		5.97		252372		4.03		816076		4.88	
4 .	021-WC3-L-0328-03 (WATER)	454842		5.97		267467		4.03		845618		4.88	

IS 1 ID : Acenaphthene-d10
IS 2 ID : 1,4-Dichlorobenzene-d4
IS 3 ID : Naphthalene-d8

AREA UPPER LIMIT = +100% of internal standard area
AREALOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard values with an asterisk.
* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: _____ Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID (Standard): 2030404/A6184 Date Analyzed: 04/04/03 Time: 1457

Instrument ID: MSSV1 GC Column: DB-5MS-30M ID: .25 (mm)

Method: SW-846 8270

	IS 4(PHN)			IS 5(CRY)			IS 6(PRY)		
	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
12 HOUR STD	612165		6.891		652329		8.742		633992		9.885	
UPPER LIMIT	1224330		7.391		1304658		9.242		1267984		10.38	
LOWER LIMIT	306082.5		6.391		326164.5		8.242		316996		9.385	
1. MB91787	901872		6.89		747770		8.74		617991		9.88	
2. LCS91788	645701		6.89		590155		8.74		563668		9.88	
3. LCSD91789	685325		6.89		639011		8.74		652357		9.88	
4. 021-WC3-L-0328-03 (WATER)	687504		6.89		823009		8.74		918467		9.89	

IS 4 ID : Phenanthrene-d10
IS 5 ID : Chrysene-d12
IS 6 ID : Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREALOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard values with an asterisk.
* Values outside of QC limits.

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 870 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: ID: (mm)

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Injection Volume: (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: 021-WC1-L-0328-03

Contract:

SAS No.: SDG No.: 203033106

Lab Sample ID: 20303310601

Date Collected: 03/28/03 Time: 1348

Date Received: 03/29/03

Date Extracted: 04/01/03

Date Analyzed: 04/04/03 Time: 1346

Dilution Factor: 1 Analyst: TLS

Prep Method: 8081W Prep

Analytical Method: SW-846 8081

Sulfur Cleanup: (Y/N) N Instrument ID: GCS8B

Lab File ID: 2030403/SV8047

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	0.115	U	0.065	0.115
72-55-9	4,4'-DDE	0.115	U	0.024	0.115
50-29-3	4,4'-DDT	0.115	U	0.035	0.115
309-00-2	Aldrin	0.057	U	0.011	0.057
60-57-1	Dieldrin	0.115	U	0.030	0.115
959-98-8	Endosulfan I	0.057	U	0.019	0.057
33213-65-9	Endosulfan II	0.115	U	0.025	0.115
1031-07-8	Endosulfan sulfate	0.115	U	0.029	0.115
72-20-8	Endrin	0.115	U	0.037	0.115
7421-93-4	Endrin aldehyde	0.115	U	0.067	0.115
53494-70-5	Endrin ketone	0.115	U	0.034	0.115
76-44-8	Heptachlor	0.057	U	0.022	0.057
1024-57-3	Heptachlor epoxide	0.057	U	0.013	0.057
72-43-5	Methoxychlor	0.575	U	0.074	0.575
8001-35-2	Toxaphene	5.75	U	0.057	5.75
319-84-6	alpha-BHC	0.057	U	0.014	0.057
5103-71-9	alpha-Chlordane	0.057	U	0.019	0.057
319-85-7	beta-BHC	0.057	U	0.044	0.057
319-86-8	delta-BHC	0.057	U	0.015	0.057
58-89-9	gamma-BHC (Lindane)	0.057	U	0.018	0.057
5103-74-2	gamma-Chlordane	0.057	U	0.018	0.057

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: ID: (mm)

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Injection Volume: (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: 021-WC3-L-0328-03 (WATER)

Contract:

SAS No.: SDG No.: 203033106

Lab Sample ID: 20303310604

Date Collected: 04/02/03 Time: 1300

Date Received: 04/03/03

Date Extracted: 04/04/03

Date Analyzed: 04/05/03 Time: 1355

Dilution Factor: 1 Analyst: DLB

Prep Method: 8081W Prep

Analytical Method: SW-846 8081

Sulfur Cleanup: (Y/N) N Instrument ID: GCS8B

Lab File ID: 2030405/SV8010

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	0.100	U	0.057	0.100
72-55-9	4,4'-DDE	0.100	U	0.021	0.100
50-29-3	4,4'-DDT	0.100	U	0.030	0.100
309-00-2	Aldrin	0.050	U	0.010	0.050
60-57-1	Dieldrin	0.100	U	0.026	0.100
959-98-8	Endosulfan I	0.050	U	0.017	0.050
33213-65-9	Endosulfan II	0.100	U	0.022	0.100
1031-07-8	Endosulfan sulfate	0.100	U	0.025	0.100
72-20-8	Endrin	0.100	U	0.032	0.100
7421-93-4	Endrin aldehyde	0.100	U	0.058	0.100
53494-70-5	Endrin ketone	0.100	U	0.030	0.100
76-44-8	Heptachlor	0.050	U	0.020	0.050
1024-57-3	Heptachlor epoxide	0.050	U	0.011	0.050
72-43-5	Methoxychlor	0.500	U	0.065	0.500
8001-35-2	Toxaphene	5.00	U	0.050	5.00
319-84-6	alpha-BHC	0.050	U	0.013	0.050
5103-71-9	alpha-Chlordane	0.050	U	0.017	0.050
319-85-7	beta-BHC	0.050	U	0.038	0.050
319-86-8	delta-BHC	0.050	U	0.013	0.050
58-89-9	gamma-BHC (Lindane)	0.050	U	0.016	0.050
5103-74-2	gamma-Chlordane	0.050	U	0.015	0.050

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: ID: (mm)

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Injection Volume: (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: MB91138

Contract:

SAS No.: SDG No.: 203033106

Lab Sample ID: 91138

Date Collected: Time:

Date Received:

Date Extracted: 04/01/03

Date Analyzed: 04/04/03 Time: 1117

Dilution Factor: 1 Analyst: TLS

Prep Method: 8081W Prep

Analytical Method: SW-846 8081

Sulfur Cleanup: (Y/N) N Instrument ID: GCS8B

Lab File ID: 2030403/SV8042

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	0.100	U	0.057	0.100
72-55-9	4,4'-DDE	0.100	U	0.021	0.100
50-29-3	4,4'-DDT	0.100	U	0.030	0.100
309-00-2	Aldrin	0.050	U	0.010	0.050
60-57-1	Dieldrin	0.100	U	0.026	0.100
959-98-8	Endosulfan I	0.050	U	0.017	0.050
33213-65-9	Endosulfan II	0.100	U	0.022	0.100
1031-07-8	Endosulfan sulfate	0.100	U	0.025	0.100
72-20-8	Endrin	0.100	U	0.032	0.100
7421-93-4	Endrin aldehyde	0.100	U	0.058	0.100
53494-70-5	Endrin ketone	0.100	U	0.030	0.100
76-44-8	Heptachlor	0.050	U	0.020	0.050
1024-57-3	Heptachlor epoxide	0.050	U	0.011	0.050
72-43-5	Methoxychlor	0.500	U	0.065	0.500
8001-35-2	Toxaphene	5.00	U	0.050	5.00
319-84-6	alpha-BHC	0.050	U	0.013	0.050
5103-71-9	alpha-Chlordane	0.050	U	0.017	0.050
319-85-7	beta-BHC	0.050	U	0.038	0.050
319-86-8	delta-BHC	0.050	U	0.013	0.050
58-89-9	gamma-BHC (Lindane)	0.050	U	0.016	0.050
5103-74-2	gamma-Chlordane	0.050	U	0.015	0.050

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: ID: (mm)

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Injection Volume: (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: MB91781

Contract:

SAS No.: SDG No.: 203033106

Lab Sample ID: 91781

Date Collected: Time:

Date Received:

Date Extracted: 04/04/03

Date Analyzed: 04/05/03 Time: 1125

Dilution Factor: 1 Analyst: DLB

Prep Method: 8081W Prep

Analytical Method: SW-846 8081

Sulfur Cleanup: (Y/N) N Instrument ID: GCS8B

Lab File ID: 2030405/SV8005

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	0.100	U	0.057	0.100
72-55-9	4,4'-DDE	0.100	U	0.021	0.100
50-29-3	4,4'-DDT	0.100	U	0.030	0.100
309-00-2	Aldrin	0.050	U	0.010	0.050
60-57-1	Dieldrin	0.100	U	0.026	0.100
959-98-8	Endosulfan I	0.050	U	0.017	0.050
33213-65-9	Endosulfan II	0.100	U	0.022	0.100
1031-07-8	Endosulfan sulfate	0.100	U	0.025	0.100
72-20-8	Endrin	0.100	U	0.032	0.100
7421-93-4	Endrin aldehyde	0.100	U	0.058	0.100
53494-70-5	Endrin ketone	0.100	U	0.030	0.100
76-44-8	Heptachlor	0.050	U	0.020	0.050
1024-57-3	Heptachlor epoxide	0.050	U	0.011	0.050
72-43-5	Methoxychlor	0.500	U	0.065	0.500
8001-35-2	Toxaphene	5.00	U	0.050	5.00
319-84-6	alpha-BHC	0.050	U	0.013	0.050
5103-71-9	alpha-Chlordane	0.050	U	0.017	0.050
319-85-7	beta-BHC	0.050	U	0.038	0.050
319-86-8	delta-BHC	0.050	U	0.013	0.050
58-89-9	gamma-BHC (Lindane)	0.050	U	0.016	0.050
5103-74-2	gamma-Chlordane	0.050	U	0.015	0.050

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: ID: (mm)

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Injection Volume: (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: LCS91139

Contract:

SAS No.: SDG No.: 203033106

Lab Sample ID: 91139

Date Collected: Time:

Date Received:

Date Extracted: 04/01/03

Date Analyzed: 04/04/03 Time: 1146

Dilution Factor: 1 Analyst: TLS

Prep Method: 8081W Prep

Analytical Method: SW-846 8081

Sulfur Cleanup: (Y/N) N Instrument ID: GCS8B

Lab File ID: 2030403/SV8043

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	0.444		0.057	0.100
72-55-9	4,4'-DDE	0.464		0.021	0.100
50-29-3	4,4'-DDT	0.373		0.030	0.100
309-00-2	Aldrin	0.491		0.010	0.050
60-57-1	Dieldrin	0.462		0.026	0.100
959-98-8	Endosulfan I	0.473		0.017	0.050
33213-65-9	Endosulfan II	0.467		0.022	0.100
1031-07-8	Endosulfan sulfate	0.476		0.025	0.100
72-20-8	Endrin	0.469		0.032	0.100
7421-93-4	Endrin aldehyde	0.616		0.058	0.100
53494-70-5	Endrin ketone	0.485		0.030	0.100
76-44-8	Heptachlor	0.553		0.020	0.050
1024-57-3	Heptachlor epoxide	0.545		0.011	0.050
72-43-5	Methoxychlor	0.447	J	0.065	0.500
8001-35-2	Toxaphene	5.00	U	0.050	5.00
319-84-6	alpha-BHC	0.516		0.013	0.050
5103-71-9	alpha-Chlordane	0.553		0.017	0.050
319-85-7	beta-BHC	0.562		0.038	0.050
319-86-8	delta-BHC	0.465		0.013	0.050
58-89-9	gamma-BHC (Lindane)	0.559		0.016	0.050
5103-74-2	gamma-Chlordane	0.561		0.015	0.050

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: ID: (mm)

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Injection Volume: (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: LCS91782

Contract:

SAS No.: SDG No.: 203033106

Lab Sample ID: 91782

Date Collected: Time:

Date Received:

Date Extracted: 04/04/03

Date Analyzed: 04/05/03 Time: 1155

Dilution Factor: 1 Analyst: DLB

Prep Method: 8081W Prep

Analytical Method: SW-846 8081

Sulfur Cleanup: (Y/N) N Instrument ID: GCS8B

Lab File ID: 2030405/SV8006

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	0.319		0.057	0.100
72-55-9	4,4'-DDE	0.352		0.021	0.100
50-29-3	4,4'-DDT	0.287		0.030	0.100
309-00-2	Aldrin	0.353		0.010	0.050
60-57-1	Dieldrin	0.339		0.026	0.100
959-98-8	Endosulfan I	0.334		0.017	0.050
33213-65-9	Endosulfan II	0.346		0.022	0.100
1031-07-8	Endosulfan sulfate	0.348		0.025	0.100
72-20-8	Endrin	0.370		0.032	0.100
7421-93-4	Endrin aldehyde	0.474		0.058	0.100
53494-70-5	Endrin ketone	0.358		0.030	0.100
76-44-8	Heptachlor	0.443		0.020	0.050
1024-57-3	Heptachlor epoxide	0.396		0.011	0.050
72-43-5	Methoxychlor	0.343	J	0.065	0.500
8001-35-2	Toxaphene	5.00	U	0.050	5.00
319-84-6	alpha-BHC	0.351		0.013	0.050
5103-71-9	alpha-Chlordane	0.401		0.017	0.050
319-85-7	beta-BHC	0.414		0.038	0.050
319-86-8	delta-BHC	0.511		0.013	0.050
58-89-9	gamma-BHC (Lindane)	0.361		0.016	0.050
5103-74-2	gamma-Chlordane	0.407		0.015	0.050

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: ID: (mm)

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Injection Volume: (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: LCSD91140

Contract:

SAS No.: SDG No.: 203033106

Lab Sample ID: 91140

Date Collected: Time:

Date Received:

Date Extracted: 04/01/03

Date Analyzed: 04/04/03 Time: 1216

Dilution Factor: 1 Analyst: TLS

Prep Method: 8081W Prep

Analytical Method: SW-846 8081

Sulfur Cleanup: (Y/N) N Instrument ID: GCS8B

Lab File ID: 2030403/SV8044

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	0.395		0.057	0.100
72-55-9	4,4'-DDE	0.417		0.021	0.100
50-29-3	4,4'-DDT	0.338		0.030	0.100
309-00-2	Aldrin	0.428		0.010	0.050
60-57-1	Dieldrin	0.415		0.026	0.100
959-98-8	Endosulfan I	0.425		0.017	0.050
33213-65-9	Endosulfan II	0.436		0.022	0.100
1031-07-8	Endosulfan sulfate	0.444		0.025	0.100
72-20-8	Endrin	0.428		0.032	0.100
7421-93-4	Endrin aldehyde	0.549		0.058	0.100
53494-70-5	Endrin ketone	0.455		0.030	0.100
76-44-8	Heptachlor	0.492		0.020	0.050
1024-57-3	Heptachlor epoxide	0.490		0.011	0.050
72-43-5	Methoxychlor	0.397	J	0.065	0.500
8001-35-2	Toxaphene	5.00	U	0.050	5.00
319-84-6	alpha-BHC	0.455		0.013	0.050
5103-71-9	alpha-Chlordane	0.499		0.017	0.050
319-85-7	beta-BHC	0.503		0.038	0.050
319-86-8	delta-BHC	0.412		0.013	0.050
58-89-9	gamma-BHC (Lindane)	0.494		0.016	0.050
5103-74-2	gamma-Chlordane	0.507		0.015	0.050

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: ID: (mm)

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Injection Volume: (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: LCSD91783

Contract:

SAS No.: SDG No.: 203033106

Lab Sample ID: 91783

Date Collected: Time:

Date Received:

Date Extracted: 04/04/03

Date Analyzed: 04/05/03 Time: 1225

Dilution Factor: 1 Analyst: DLB

Prep Method: 8081W Prep

Analytical Method: SW-846 8081

Sulfur Cleanup: (Y/N) N Instrument ID: GCS8B

Lab File ID: 2030405/SV8007

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	0.420		0.057	0.100
72-55-9	4,4'-DDE	0.454		0.021	0.100
50-29-3	4,4'-DDT	0.416		0.030	0.100
309-00-2	Aldrin	0.472		0.010	0.050
60-57-1	Dieldrin	0.441		0.026	0.100
959-98-8	Endosulfan I	0.441		0.017	0.050
33213-65-9	Endosulfan II	0.461		0.022	0.100
1031-07-8	Endosulfan sulfate	0.488		0.025	0.100
72-20-8	Endrin	0.497		0.032	0.100
7421-93-4	Endrin aldehyde	0.587		0.058	0.100
53494-70-5	Endrin ketone	0.469		0.030	0.100
76-44-8	Heptachlor	0.529		0.020	0.050
1024-57-3	Heptachlor epoxide	0.524		0.011	0.050
72-43-5	Methoxychlor	0.504		0.065	0.500
8001-35-2	Toxaphene	5.00	U	0.050	5.00
319-84-6	alpha-BHC	0.480		0.013	0.050
5103-71-9	alpha-Chlordane	0.519		0.017	0.050
319-85-7	beta-BHC	0.541		0.038	0.050
319-86-8	delta-BHC	0.436		0.013	0.050
58-89-9	gamma-BHC (Lindane)	0.505		0.016	0.050
5103-74-2	gamma-Chlordane	0.528		0.015	0.050

2E

WATER PESTICIDE SURROGATE RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203033106

GC Column (1): ID: (mm) GC Cloumn (2): ID: (mm)

Method: SW-846 8081

	EPA SAMPLE NO.	SMC1 1-(1)	Lo	Hi	F	SMC1 1-(2)	Lo	Hi	F	SMC2 2-(1)	Lo	Hi	F	SMC2 2-(2)	Lo	Hi	F	TOT OUT
1.	021-WC1-L-0328-03	140	60	150						69	60	150						0
2.	021-WC3-L-0328-03 (WATER)	140	60	150						78	60	150						0
3.	MB91138	75	60	150						76	60	150						0
4.	MB91781	89	60	150						70	60	150						0
5.	LCS91782	72	60	150						74	60	150						0
6.	LCSD91783	88	60	150						89	60	150						0

SMC 1 : Tetrachloro-m-xylene SMC 2 : Decachlorobiphenyl

3E

WATER PESTICIDE LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203033106

Contract: Method: SW-846 8081

SAMPLE NO : 91139

COMPOUND	*UNITS*	*SPIKE ADDED*	*SAMPLE CONCENTRATION*	*LCS CONCENTRATION*	*LCS % REC*	*LCS % REC FLAG*	*QC. LIMITS*
4,4'-DDD	ug/L	.5	0	.444	89		31 - 141
4,4'-DDE	ug/L	.5	0	.464	93		30 - 145
4,4'-DDT	ug/L	.5	0	.373	75		25 - 160
Aldrin	ug/L	.5	0	.491	98		42 - 122
Dieldrin	ug/L	.5	0	.462	92		36 - 146
Endosulfan I	ug/L	.5	0	.473	95		45 - 153
Endosulfan II	ug/L	.5	0	.467	93		0 - 202
Endosulfan sulfate	ug/L	.5	0	.476	95		26 - 144
Endrin	ug/L	.5	0	.469	94		30 - 147
Endrin aldehyde	ug/L	.5	0	.616	123		0 - 202
Endrin ketone	ug/L	.5	0	.485	97		26 - 144
Heptachlor	ug/L	.5	0	.553	111		34 - 111
Heptachlor epoxide	ug/L	.5	0	.545	109		37 - 142
Methoxychlor	ug/L	.5	0	.447	89		26 - 144
alpha-BHC	ug/L	.5	0	.516	103		37 - 134
alpha-Chlordane	ug/L	.5	0	.553	111		45 - 119
beta-BHC	ug/L	.5	0	.562	112		17 - 147
delta-BHC	ug/L	.5	0	.465	93		19 - 140
gamma-BHC (Lindane)	ug/L	.5	0	.559	112		32 - 127
gamma-Chlordane	ug/L	.5	0	.561	112		45 - 119

RPD : 0 out of 20 outside limits

Spike Recovery: 0 out of 40 outside limits

3E

WATER PESTICIDE LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203033106

Contract: Method: SW-846 8081

SAMPLE NO : ***91140***

COMPOUND	*UNITS*	*SPIKE ADDED*	*LCSD CONC.*	*LCSD % REC*	*REC FLAG*	*% RPD*	*RPD FLAG*	*QC. LIMITS REC*	*QC. LIMITS RPD*
4,4'-DDD	ug/L	.5	.395	79		12		31 - 141	0 - 40
4,4'-DDE	ug/L	.5	.417	83		11		30 - 145	0 - 40
4,4'-DDT	ug/L	.5	.338	68		10		25 - 160	0 - 40
Aldrin	ug/L	.5	.428	86		13		42 - 122	0 - 40
Dieldrin	ug/L	.5	.415	83		10		36 - 146	0 - 40
Endosulfan I	ug/L	.5	.425	85		11		45 - 153	0 - 40
Endosulfan II	ug/L	.5	.436	87		7		0 - 202	0 - 40
Endosulfan sulfate	ug/L	.5	.444	89		7		26 - 144	0 - 40
Endrin	ug/L	.5	.428	86		9		30 - 147	0 - 40
Endrin aldehyde	ug/L	.5	.549	110		11		0 - 202	0 - 40
Endrin ketone	ug/L	.5	.455	91		6		26 - 144	0 - 40
Heptachlor	ug/L	.5	.492	98		12		34 - 111	0 - 40
Heptachlor epoxide	ug/L	.5	.49	98		11		37 - 142	0 - 40
Methoxychlor	ug/L	.5	.397	79		12		26 - 144	0 - 40
alpha-BHC	ug/L	.5	.455	91		12		37 - 134	0 - 40
alpha-Chlordane	ug/L	.5	.499	100		10		45 - 119	0 - 40
beta-BHC	ug/L	.5	.503	101		10		17 - 147	0 - 40
delta-BHC	ug/L	.5	.412	82		13		19 - 140	0 - 40
gamma-BHC (Lindane)	ug/L	.5	.494	99		12		32 - 127	0 - 40
gamma-Chlordane	ug/L	.5	.507	101		10		45 - 119	0 - 40

RPD : 0 out of 20 outside limits

Spike Recovery: 0 out of 40 outside limits

3E

WATER PESTICIDE LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203033106

Contract: Method: SW-846 8081

SAMPLE NO : 91782

COMPOUND	*UNITS*	*SPIKE ADDED*	*SAMPLE CONCENTRATION*	*LCS CONCENTRATION*	*LCS % REC*	*LCS % REC FLAG*	*QC. LIMITS*
4,4'-DDD	ug/L	.5	0	.319	64		31 - 141
4,4'-DDE	ug/L	.5	0	.352	70		30 - 145
4,4'-DDT	ug/L	.5	0	.287	57		25 - 160
Aldrin	ug/L	.5	0	.353	71		42 - 122
Dieldrin	ug/L	.5	0	.339	68		36 - 146
Endosulfan I	ug/L	.5	0	.334	67		45 - 153
Endosulfan II	ug/L	.5	0	.346	69		0 - 202
Endosulfan sulfate	ug/L	.5	0	.348	70		26 - 144
Endrin	ug/L	.5	0	.37	74		30 - 147
Endrin aldehyde	ug/L	.5	0	.474	95		0 - 202
Endrin ketone	ug/L	.5	0	.358	72		26 - 144
Heptachlor	ug/L	.5	0	.443	89		34 - 111
Heptachlor epoxide	ug/L	.5	0	.396	79		37 - 142
Methoxychlor	ug/L	.5	0	.343	69		26 - 144
alpha-BHC	ug/L	.5	0	.351	70		37 - 134
alpha-Chlordane	ug/L	.5	0	.401	80		45 - 119
beta-BHC	ug/L	.5	0	.414	83		17 - 147
delta-BHC	ug/L	.5	0	.511	102		19 - 140
gamma-BHC (Lindane)	ug/L	.5	0	.361	72		32 - 127
gamma-Chlordane	ug/L	.5	0	.407	81		45 - 119

RPD : 0 out of 20 outside limits

Spike Recovery: 0 out of 40 outside limits

3E

WATER PESTICIDE LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203033106

Contract: Method: SW-846 8081

SAMPLE NO : ***91783***

COMPOUND	*UNITS*	*SPIKE ADDED*	*LCSD CONC.*	*LCSD % REC*	*REC FLAG*	*% RPD*	*RPD FLAG*	*QC. LIMITS REC*	*QC. LIMITS RPD*
4,4'-DDD	ug/L	.5	.42	84		27		31 - 141	0 - 40
4,4'-DDE	ug/L	.5	.454	91		26		30 - 145	0 - 40
4,4'-DDT	ug/L	.5	.416	83		37		25 - 160	0 - 40
Aldrin	ug/L	.5	.472	94		28		42 - 122	0 - 40
Dieldrin	ug/L	.5	.441	88		26		36 - 146	0 - 40
Endosulfan I	ug/L	.5	.441	88		27		45 - 153	0 - 40
Endosulfan II	ug/L	.5	.461	92		29		0 - 202	0 - 40
Endosulfan sulfate	ug/L	.5	.488	98		33		26 - 144	0 - 40
Endrin	ug/L	.5	.497	99		29		30 - 147	0 - 40
Endrin aldehyde	ug/L	.5	.587	117		21		0 - 202	0 - 40
Endrin ketone	ug/L	.5	.469	94		27		26 - 144	0 - 40
Heptachlor	ug/L	.5	.529	106		17		34 - 111	0 - 40
Heptachlor epoxide	ug/L	.5	.524	105		28		37 - 142	0 - 40
Methoxychlor	ug/L	.5	.504	101		38		26 - 144	0 - 40
alpha-BHC	ug/L	.5	.48	96		31		37 - 134	0 - 40
alpha-Chlordane	ug/L	.5	.519	104		26		45 - 119	0 - 40
beta-BHC	ug/L	.5	.541	108		26		17 - 147	0 - 40
delta-BHC	ug/L	.5	.436	87		16		19 - 140	0 - 40
gamma-BHC (Lindane)	ug/L	.5	.505	101		34		32 - 127	0 - 40
gamma-Chlordane	ug/L	.5	.528	106		27		45 - 119	0 - 40

RPD : 0 out of 20 outside limits

Spike Recovery: 0 out of 40 outside limits

4C

PESTICIDE METHOD BLANK SUMMARY

Lab Name: GCAL

Sample ID: MB91138

Lab Code: LA024 Case No.:

Contract:

Lab Sample ID: 91138

SAS No.: SDG No.: 203033106

Matrix: Water Sulfur Cleanup: (Y/N) N

Date Extracted: 04/01/03

Date Analyzed (1): 04/04/03 Time (1): 1117

Date Analyzed (2): Time (2):

Instrument ID (1): GCS8B

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

Method: SW-846 8081

Lab File ID: 2030403/SV8042

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATE ANALYZED	TIME ANALYZED
1.	LCS91139	91139	04/04/03	1146		
2.	LCSD91140	91140	04/04/03	1216		
3.	021-WC1-L-0328-03	20303310601	04/04/03	1346		

4C

PESTICIDE METHOD BLANK SUMMARY

Lab Name: GCAL

Sample ID: MB91781

Lab Code: LA024 Case No.:

Contract:

Lab Sample ID: 91781

SAS No.: SDG No.: 203033106

Matrix: Water Sulfur Cleanup: (Y/N) N

Date Extracted: 04/04/03

Date Analyzed (1): 04/05/03 Time (1): 1125

Date Analyzed (2): Time (2):

Instrument ID (1): GCS8B

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

Method: SW-846 8081

Lab File ID: 2030405/SV8005

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATE ANALYZED	TIME ANALYZED
1.	LCS91782	91782	04/05/03	1155		
2.	LCSD91783	91783	04/05/03	1225		
3.	021-WC3-L-0328-03 (WATER)	20303310604	04/05/03	1355		

6E

PESTICIDE ORGANICS INITIAL CALIBRATION DATA

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203033106

Instrument ID: GCS8B

Calibration Date 1: 04/03/03 Time 1: 1439

GC Column: ID: (mm)

Calibration Date 2: 04/04/03 Time 2: 0126

Method: SW-846 8081

COMPOUND	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	$\overline{RF}$	RSD
4,4'-DDD	53813.800	51276.750	65158.125	63213.794	55745.165				57841.527	10.44
4,4'-DDE	52295.300	65224.925	67330.806	74579.042	86678.810				69221.777	18.26
4,4'-DDT	36341.800	38687.825	52310.725	52769.638	47709.455				45563.888	16.8
Aldrin	45318.400	56264.600	61271.075	65305.967	81252.580				61882.524	21.27
Aroclor-1016	15082.693	15673.222	15903.532	16913.585	17954.340				16305.475	6.956
Aroclor-1221	6036.985								6036.985	0
Aroclor-1232	7954.028								7954.028	0
Aroclor-1242	11013.682								11013.682	0
Aroclor-1248	16238.985								16238.985	0
Aroclor-1254	13906.482								13906.482	0
Aroclor-1260	22908.438	23054.352	23272.544	24900.435	25165.400				23860.234	4.536
Chlordane	24616.922								24616.922	0
Decachlorobiphenyl	89098.900	89460.775	105628.425	01260.131	90127.780				95115.202	8.166
Dieldrin	64944.600	53960.800	80933.700	81292.125	72576.290				70741.503	16.32
Endosulfan I	41867.800	77240.600	66831.950	66542.375	60636.470				62623.839	20.84
Endosulfan II	47386.100	59291.675	62955.925	75492.190	76766.542				64378.486	18.92
Endosulfan sulfate	45909.400	54988.888	58987.825	61449.850	67062.475				57679.688	13.69
Endrin	38680.800	50102.075	68434.875	68125.012	62236.790				57515.91	22.39
Endrin aldehyde	46493.600	52994.950	53363.558	54985.012	58696.295				53306.683	8.304
Endrin ketone	51990.700	61004.712	63385.475	68671.883	76571.505				64324.855	14.18
Heptachlor	63863.800	60250.350	79922.650	80939.525	71319.750				71259.215	13.02
Heptachlor epoxide	60412.000	60437.600	60599.400	66469.967	78273.080				65238.409	11.85
Methoxychlor	28018.740	32155.115	37855.965	36453.105	33207.416				33538.068	11.51
Tetrachloro-m-xylene	56022.600	57704.200	77271.300	76453.375	67054.930				66901.281	14.98
Toxaphene	9414.922								9414.922	0
alpha-BHC	37139.200	43071.050	76584.617	79220.275	71417.230				61486.474	32.25
alpha-Chlordane	63378.200	69246.650	74294.950	77065.283	87400.370				74277.091	12.11
beta-BHC	35888.662	36634.600	37731.300	40204.150	45338.130				39159.368	9.756
delta-BHC	45073.050	50995.500	55684.850	60956.000	68529.040				56247.688	16.04
gamma-BHC (Lindane)	37466.000	43718.750	73703.250	75123.125	67423.000				59486.825	29.63
gamma-Chlordane	64503.800	64777.350	69576.500	72018.083	82042.050				70583.557	10.14

FORM VI PEST-2

Data File: /var/chem/gcsv8.i/2030403.b/SV8025.d
Report Date: 10-Apr-2003 16:57

Gulf Coast Analytical Services

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: IND A III ICV
Level: LOW
Data Type: GC MULTI COMP
SpikeList File: IAICV.spk
Sublist File: AICV.sub
Method File: /var/chem/gcsv8.i/2030403.b/pest608.m
Misc Info:

Client SDG: 2030403
Fraction: SV
Client Smp ID: 58*22*4
Operator: tls
SampleType: LCS
Quant Type: ESTD

SPIKE COMPOUND	CONC ADDED UG/L	CONC RECOVERED UG/L	% RECOVERED	LIMITS
2 alpha-BHC	60.0000	53.4542	89.09	70-130
3 gamma-BHC (Lindane	60.0000	56.6572	94.43	70-130
4 Heptachlor	60.0000	57.4995	95.83	70-130
9 Endosulfan I	60.0000	52.0494	86.75	70-130
13 Dieldrin	120.0000	110.6017	92.17	70-130
14 Endrin	120.0000	111.7458	93.12	70-130
15 4,4'-DDD	120.0000	111.6728	93.06	70-130
17 4,4'-DDT	120.0000	99.4022	82.84	70-130
19 Methoxychlor	600.0000	519.8031	86.63	70-130

Data File: /var/chem/gcsv8.i/2030403.b/SV8026.d
Report Date: 10-Apr-2003 16:59

Gulf Coast Analytical Services

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: IND B III ICV
Level: LOW
Data Type: GC MULTI COMP
SpikeList File: IBICV.spk
Sublist File: BICV.sub
Method File: /var/chem/gcsv8.i/2030403.b/pest608.m
Misc Info:

Client SDG: 2030403
Fraction: SV
Client Smp ID: 58*14*7
Operator: tls
SampleType: LCS
Quant Type: ESTD

SPIKE COMPOUND	CONC ADDED UG/L	CONC RECOVERED UG/L	% RECOVERED	LIMITS
5 Aldrin	60.0000	64.5739	107.62	70-130
6 beta-BHC	60.0000	63.3046	105.51	70-130
7 delta-BHC	60.0000	56.9834	94.97	70-130
8 Heptachlor epoxide	60.0000	62.2417	103.74	70-130
10 gamma-Chlordane	60.0000	61.7567	102.93	70-130
11 alpha-Chlordane	60.0000	61.8909	103.15	70-130
12 4,4'-DDE	120.0000	127.9756	106.65	70-130
16 Endosulfan II	120.0000	140.9761	117.48	70-130
18 Endrin aldehyde	120.0000	130.5899	108.82	70-130
20 Endosulfan sulfate	120.0000	128.8003	107.33	70-130
21 Endrin ketone	120.0000	124.1738	103.48	70-130

Data File: /var/chem/gcsv8.i/2030403.b/SV8039.d
Report Date: 17-Apr-2003 14:43

Gulf Coast Analytical Services

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv8.i
Lab File ID: SV8039.d
Analysis Type: WATER
Lab Sample ID: 1400
Method: /var/chem/gcsv8.i/2030403.b/pest608.m

Injection Date: 04-APR-2003 08:54
Init. Cal. Date(s): 03-APR-2003 04-APR-2003
Init. Cal. Times: 14:39 01:26
Quant Type: ESTD

COMPOUND	RRF / AMOUNT	RF60	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
$ 1 Tetrachloro-m-xylene	66901	77384	0.010	-15.66896	15.00000	Averaged	<-
2 alpha-BHC	61486	72528	0.010	-17.95730	15.00000	Averaged	<-
3 gamma-BHC (Lindane)	59487	70141	0.010	-17.91011	15.00000	Averaged	<-
4 Heptachlor	71259	82044	0.010	-15.13400	15.00000	Averaged	<-
9 Endosulfan I	62624	67437	0.010	-7.68575	15.00000	Averaged	
13 Dieldrin	70742	79509	0.010	-12.39409	15.00000	Averaged	
14 Endrin	57516	66747	0.010	-16.04883	15.00000	Averaged	<-
15 4,4'-DDD	57842	65875	0.010	-13.88917	15.00000	Averaged	
17 4,4'-DDT	45564	43394	0.010	4.76314	15.00000	Averaged	
19 Methoxychlor	33538	33307	0.010	0.68969	15.00000	Averaged	
$ 22 Decachlorobiphenyl	95115	102305	0.010	-7.55930	15.00000	Averaged	

Average %D / Drift Results.

Calculated Average %D/Drift = 11.79094
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Data File: /var/chem/gcsv8.i/2030403.b/SV8040.d
Report Date: 17-Apr-2003 14:43

Gulf Coast Analytical Services

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv8.i
Lab File ID: SV8040.d
Analysis Type: WATER
Lab Sample ID: 1400
Method: /var/chem/gcsv8.i/2030403.b/pest608.m

Injection Date: 04-APR-2003 09:25
Init. Cal. Date(s): 03-APR-2003 04-APR-2003
Init. Cal. Times: 14:39 01:26
Quant Type: ESTD

COMPOUND	RRF / AMOUNT	RF60	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
5 Aldrin	61883	63540	0.010	-2.67893	15.00000	Averaged
6 beta-BHC	39159	38372	0.010	2.01098	15.00000	Averaged
7 delta-BHC	56248	51366	0.010	8.67918	15.00000	Averaged
8 Heptachlor epoxide	65238	65626	0.010	-0.59337	15.00000	Averaged
10 gamma-Chlordane	70584	71395	0.010	-1.14972	15.00000	Averaged
11 alpha-Chlordane	74277	76590	0.010	-3.11344	15.00000	Averaged
12 4,4'-DDE	69222	70657	0.010	-2.07276	15.00000	Averaged
16 Endosulfan II	64378	65603	0.010	-1.90136	15.00000	Averaged
18 Endrin aldehyde	53307	58040	0.010	-8.87916	15.00000	Averaged
20 Endosulfan sulfate	57680	58846	0.010	-2.02231	15.00000	Averaged
21 Endrin ketone	64325	62027	0.010	3.57249	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 3.33397
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Data File: /var/chem/gcsv8.i/2030403.b/SV8049.d
Report Date: 10-Apr-2003 17:03

Gulf Coast Analytical Services

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv8.i
Lab File ID: SV8049.d
Analysis Type: WATER
Lab Sample ID: 1400
Method: /var/chem/gcsv8.i/2030403.b/pest608.m

Injection Date: 04-APR-2003 14:46
Init. Cal. Date(s): 03-APR-2003 04-APR-2003
Init. Cal. Times: 14:39 01:26
Quant Type: ESTD

COMPOUND	RRF / AMOUNT	RF60	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 Tetrachloro-m-xylene	66901	67002	0.010	-0.15037	15.00000	Averaged
2 alpha-BHC	61486	68836	0.010	-11.95316	15.00000	Averaged
3 gamma-BHC (Lindane)	59487	67824	0.010	-14.01483	15.00000	Averaged
4 Heptachlor	71259	74659	0.010	-4.77162	15.00000	Averaged
9 Endosulfan I	62624	56637	0.010	9.56040	15.00000	Averaged
13 Dieldrin	70742	78240	0.010	-10.59960	15.00000	Averaged
14 Endrin	57516	57453	0.010	0.10874	15.00000	Averaged
15 4,4'-DDD	57842	52978	0.010	8.40878	15.00000	Averaged
17 4,4'-DDT	45564	47430	0.010	-4.09503	15.00000	Averaged
19 Methoxychlor	33538	35464	0.010	-5.74326	15.00000	Averaged
$ 22 Decachlorobiphenyl	95115	91432	0.010	3.87211	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 6.66163
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Data File: /var/chem/gcsv8.i/2030403.b/SV8050.d
Report Date: 10-Apr-2003 17:03

Gulf Coast Analytical Services

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv8.i
Lab File ID: SV8050.d
Analysis Type: WATER
Lab Sample ID: 1400
Method: /var/chem/gcsv8.i/2030403.b/pest608.m

Injection Date: 04-APR-2003 15:18
Init. Cal. Date(s): 03-APR-2003 04-APR-2003
Init. Cal. Times: 14:39 01:26
Quant Type: ESTD

COMPOUND	RRF / AMOUNT	RF60	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
5 Aldrin	61883	69116	0.010	-11.68972	15.00000	Averaged	
6 beta-BHC	39159	43308	0.010	-10.59371	15.00000	Averaged	
7 delta-BHC	56248	56573	0.010	-0.57812	15.00000	Averaged	
8 Heptachlor epoxide	65238	71082	0.010	-8.95718	15.00000	Averaged	
10 gamma-Chlordane	70584	75096	0.010	-6.39270	15.00000	Averaged	
11 alpha-Chlordane	74277	81800	0.010	-10.12803	15.00000	Averaged	
12 4,4'-DDE	69222	78130	0.010	-12.86930	15.00000	Averaged	
16 Endosulfan II	64378	72299	0.010	-12.30328	15.00000	Averaged	
18 Endrin aldehyde	53307	71621	0.010	-34.35576	15.00000	Averaged	<-
20 Endosulfan sulfate	57680	62282	0.010	-7.97861	15.00000	Averaged	
21 Endrin ketone	64325	71271	0.010	-10.79920	15.00000	Averaged	

Average %D / Drift Results.

Calculated Average %D/Drift = 11.51324
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Data File: /var/chem/gcsv8.i/2030405.b/SV8002.d
Report Date: 17-Apr-2003 12:01

Gulf Coast Analytical Services

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv8.i
Lab File ID: SV8002.d
Analysis Type: WATER
Lab Sample ID: 1400
Method: /var/chem/gcsv8.i/2030405.b/pest608.m

Injection Date: 05-APR-2003 09:32
Init. Cal. Date(s): 03-APR-2003 04-APR-2003
Init. Cal. Times: 14:39 01:26
Quant Type: ESTD

COMPOUND	RRF / AMOUNT	RF60	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 Tetrachloro-m-xylene	66901	76165	0.010	-13.84647	15.00000	Averaged
2 alpha-BHC	61486	70477	0.010	-14.62141	15.00000	Averaged
3 gamma-BHC (Lindane)	59487	68249	0.010	-14.72963	15.00000	Averaged
4 Heptachlor	71259	80564	0.010	-13.05773	15.00000	Averaged
9 Endosulfan I	62624	67496	0.010	-7.77927	15.00000	Averaged
13 Dieldrin	70742	78490	0.010	-10.95321	15.00000	Averaged
14 Endrin	57516	65762	0.010	-14.33625	15.00000	Averaged
15 4,4'-DDD	57842	64096	0.010	-10.81246	15.00000	Averaged
17 4,4'-DDT	45564	42589	0.010	6.52859	15.00000	Averaged
19 Methoxychlor	33538	32229	0.010	3.90414	15.00000	Averaged
$ 22 Decachlorobiphenyl	95115	102735	0.010	-8.01140	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 10.78005
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Data File: /var/chem/gcsv8.i/2030405.b/SV8003.d
Report Date: 17-Apr-2003 12:01

Gulf Coast Analytical Services

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv8.i
Lab File ID: SV8003.d
Analysis Type: WATER
Lab Sample ID: 1400
Method: /var/chem/gcsv8.i/2030405.b/pest608.m

Injection Date: 05-APR-2003 10:24
Init. Cal. Date(s): 03-APR-2003 04-APR-2003
Init. Cal. Times: 14:39 01:26
Quant Type: ESTD

COMPOUND	RRF / AMOUNT	RF60	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
5 Aldrin	61883	70754	0.010	-14.33591	15.00000	Averaged
6 beta-BHC	39159	42745	0.010	-9.15672	15.00000	Averaged
7 delta-BHC	56248	57513	0.010	-2.25040	15.00000	Averaged
8 Heptachlor epoxide	65238	73784	0.010	-13.09909	15.00000	Averaged
10 gamma-Chlordane	70584	79357	0.010	-12.42970	15.00000	Averaged
11 alpha-Chlordane	74277	85381	0.010	-14.94892	15.00000	Averaged
12 4,4'-DDE	69222	78578	0.010	-13.51616	15.00000	Averaged
16 Endosulfan II	64378	71786	0.010	-11.50594	15.00000	Averaged
18 Endrin aldehyde	53307	53197	0.010	0.20523	15.00000	Averaged
20 Endosulfan sulfate	57680	62279	0.010	-7.97400	15.00000	Averaged
21 Endrin ketone	64325	70610	0.010	-9.77153	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 9.92669
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Data File: /var/chem/gcsv8.i/2030405.b/SV8015.d
Report Date: 17-Apr-2003 12:01

Gulf Coast Analytical Services

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv8.i
Lab File ID: SV8015.d
Analysis Type: WATER
Lab Sample ID: 1400
Method: /var/chem/gcsv8.i/2030405.b/pest608.m

Injection Date: 05-APR-2003 16:29
Init. Cal. Date(s): 03-APR-2003 04-APR-2003
Init. Cal. Times: 14:39 01:26
Quant Type: ESTD

COMPOUND	RRF / AMOUNT	RF60	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 Tetrachloro-m-xylene	66901	75529	0.010	-12.89627	15.00000	Averaged
2 alpha-BHC	61486	68355	0.010	-11.17095	15.00000	Averaged
3 gamma-BHC (Lindane)	59487	66789	0.010	-12.27607	15.00000	Averaged
4 Heptachlor	71259	77252	0.010	-8.40914	15.00000	Averaged
9 Endosulfan I	62624	65931	0.010	-5.28177	15.00000	Averaged
13 Dieldrin	70742	77472	0.010	-9.51368	15.00000	Averaged
14 Endrin	57516	65143	0.010	-13.26128	15.00000	Averaged
15 4,4'-DDD	57842	61613	0.010	-6.51956	15.00000	Averaged
17 4,4'-DDT	45564	48439	0.010	-6.31061	15.00000	Averaged
19 Methoxychlor	33538	34195	0.010	-1.95947	15.00000	Averaged
$ 22 Decachlorobiphenyl	95115	101886	0.010	-7.11827	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 8.61064
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Data File: /var/chem/gcsv8.i/2030405.b/SV8016.d
Report Date: 17-Apr-2003 12:02

Gulf Coast Analytical Services

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv8.i
Lab File ID: SV8016.d
Analysis Type: WATER
Lab Sample ID: 1400
Method: /var/chem/gcsv8.i/2030405.b/pest608.m

Injection Date: 05-APR-2003 16:59
Init. Cal. Date(s): 03-APR-2003 04-APR-2003
Init. Cal. Times: 14:39 01:26
Quant Type: ESTD

COMPOUND	RRF / AMOUNT	RF60	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
5 Aldrin	61883	75881	0.010	-22.62048	15.00000	Averaged	<-
6 beta-BHC	39159	44611	0.010	-13.92255	15.00000	Averaged	
7 delta-BHC	56248	62107	0.010	-10.41710	15.00000	Averaged	
8 Heptachlor epoxide	65238	78895	0.010	-20.93377	15.00000	Averaged	<-
10 gamma-Chlordane	70584	83563	0.010	-18.38857	15.00000	Averaged	<-
11 alpha-Chlordane	74277	90093	0.010	-21.29260	15.00000	Averaged	<-
12 4,4'-DDE	69222	83927	0.010	-21.24388	15.00000	Averaged	<-
16 Endosulfan II	64378	76916	0.010	-19.47546	15.00000	Averaged	<-
18 Endrin aldehyde	53307	74123	0.010	-39.04968	15.00000	Averaged	<-
20 Endosulfan sulfate	57680	75335	0.010	-30.60921	15.00000	Averaged	<-
21 Endrin ketone	64325	74528	0.010	-15.86153	15.00000	Averaged	<-

Average %D / Drift Results.

Calculated Average %D/Drift = 21.25589
Maximun Average %D/Drift = 15.00000
* Failed Average %D/Drift Test.

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 870 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: ID: (mm)

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Injection Volume: (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: 021-WC1-L-0328-03

Contract:

SAS No.: SDG No.: 203033106

Lab Sample ID: 20303310601

Date Collected: 03/28/03 Time: 1348

Date Received: 03/29/03

Date Extracted: 04/01/03

Date Analyzed: 04/04/03 Time: 1346

Dilution Factor: 1 Analyst: TLS

Prep Method: SW-846 3510

Analytical Method: SW-846 8082

Sulfur Cleanup: (Y/N) N Instrument ID: GCS8B

Lab File ID: 2030403/SV8047

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
12674-11-2	Aroclor-1016	1.15	U	0.092	1.15
11104-28-2	Aroclor-1221	1.15	U	0.264	1.15
11141-16-5	Aroclor-1232	1.15	U	0.230	1.15
53469-21-9	Aroclor-1242	1.15	U	0.287	1.15
12672-29-6	Aroclor-1248	1.15	U	0.149	1.15
11097-69-1	Aroclor-1254	1.15	U	0.241	1.15
11096-82-5	Aroclor-1260	1.15	U	0.115	1.15

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: ID: (mm)

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Injection Volume: (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: 021-WC4-L-0328-03

Contract:

SAS No.: SDG No.: 203033106

Lab Sample ID: 20303310602

Date Collected: 03/28/03 Time: 1430

Date Received: 03/29/03

Date Extracted: 04/02/03

Date Analyzed: 04/07/03 Time: 0027

Dilution Factor: 1 Analyst: DLB

Prep Method: SW-846 3550

Analytical Method: SW-846 8082

Sulfur Cleanup: (Y/N) N Instrument ID: GCS8B

Lab File ID: 2030405/SV8037

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
12674-11-2	Aroclor-1016	81.0	U	27.2	81.0
11104-28-2	Aroclor-1221	81.0	U	18.6	81.0
11141-16-5	Aroclor-1232	81.0	U	20.4	81.0
53469-21-9	Aroclor-1242	81.0	U	23.8	81.0
12672-29-6	Aroclor-1248	81.0	U	15.8	81.0
11097-69-1	Aroclor-1254	81.0	U	13.1	81.0
11096-82-5	Aroclor-1260	81.0	U	19.0	81.0

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: ID: (mm)

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Injection Volume: (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: 021-WC3-L-0328-03 (WATER)

Contract:

SAS No.: SDG No.: 203033106

Lab Sample ID: 20303310604

Date Collected: 04/02/03 Time: 1300

Date Received: 04/03/03

Date Extracted: 04/04/03

Date Analyzed: 04/05/03 Time: 1355

Dilution Factor: 1 Analyst: DLB

Prep Method: SW-846 3510

Analytical Method: SW-846 8082

Sulfur Cleanup: (Y/N) N Instrument ID: GCS8B

Lab File ID: 2030405/SV8010

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
12674-11-2	Aroclor-1016	1.00	U	0.080	1.00
11104-28-2	Aroclor-1221	1.00	U	0.230	1.00
11141-16-5	Aroclor-1232	1.00	U	0.200	1.00
53469-21-9	Aroclor-1242	1.00	U	0.250	1.00
12672-29-6	Aroclor-1248	1.00	U	0.130	1.00
11097-69-1	Aroclor-1254	1.00	U	0.210	1.00
11096-82-5	Aroclor-1260	1.00	U	0.100	1.00

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Soil

Sample wt/vol: 1 Units: g

Level: (low/med) LOW

% Moisture: 3. decanted: (Y/N)

GC Column: ID: (mm)

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Injection Volume: (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: 021-WC5-S-0402-03 (OIL)

Contract:

SAS No.: SDG No.: 203033106

Lab Sample ID: 20303310605

Date Collected: 04/02/03 Time: 1300

Date Received: 04/03/03

Date Extracted: 04/07/03

Date Analyzed: 04/07/03 Time: 1638

Dilution Factor: 1 Analyst: TLS

Prep Method: SW-846 3550

Analytical Method: SW-846 8082

Sulfur Cleanup: (Y/N) N Instrument ID: GCS8B

Lab File ID: 2030407/SV8013

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
12674-11-2	Aroclor-1016	1250	U	418	1250
11104-28-2	Aroclor-1221	1250	U	286	1250
11141-16-5	Aroclor-1232	1250	U	313	1250
53469-21-9	Aroclor-1242	1250	U	366	1250
12672-29-6	Aroclor-1248	1250	U	244	1250
11097-69-1	Aroclor-1254	1250	U	202	1250
11096-82-5	Aroclor-1260	1250	U	293	1250

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: ID: (mm)

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Injection Volume: (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: MB91149

Contract:

SAS No.: SDG No.: 203033106

Lab Sample ID: 91149

Date Collected: Time:

Date Received:

Date Extracted: 04/01/03

Date Analyzed: 04/04/03 Time: 1117

Dilution Factor: 1 Analyst: TLS

Prep Method: SW-846 3510

Analytical Method: SW-846 8082

Sulfur Cleanup: (Y/N) N Instrument ID: GCS8B

Lab File ID: 2030403/SV8042

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
12674-11-2	Aroclor-1016	1.00	U	0.080	1.00
11104-28-2	Aroclor-1221	1.00	U	0.230	1.00
11141-16-5	Aroclor-1232	1.00	U	0.200	1.00
53469-21-9	Aroclor-1242	1.00	U	0.250	1.00
12672-29-6	Aroclor-1248	1.00	U	0.130	1.00
11097-69-1	Aroclor-1254	1.00	U	0.210	1.00
11096-82-5	Aroclor-1260	1.00	U	0.100	1.00

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: ID: (mm)

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Injection Volume: (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: MB91172

Contract:

SAS No.: SDG No.: 203033106

Lab Sample ID: 91172

Date Collected: Time:

Date Received:

Date Extracted: 04/02/03

Date Analyzed: 04/06/03 Time: 2257

Dilution Factor: 1 Analyst: DLB

Prep Method: SW-846 3550

Analytical Method: SW-846 8082

Sulfur Cleanup: (Y/N) N Instrument ID: GCS8B

Lab File ID: 2030405/SV8034

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
12674-11-2	Aroclor-1016	40.0	U	13.4	40.0
11104-28-2	Aroclor-1221	40.0	U	9.17	40.0
11141-16-5	Aroclor-1232	40.0	U	10.1	40.0
53469-21-9	Aroclor-1242	40.0	U	11.7	40.0
12672-29-6	Aroclor-1248	40.0	U	7.81	40.0
11097-69-1	Aroclor-1254	40.0	U	6.49	40.0
11096-82-5	Aroclor-1260	40.0	U	9.40	40.0

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: ID: (mm)

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Injection Volume: (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: MB91777

Contract:

SAS No.: SDG No.: 203033106

Lab Sample ID: 91777

Date Collected: Time:

Date Received:

Date Extracted: 04/04/03

Date Analyzed: 04/05/03 Time: 1125

Dilution Factor: 1 Analyst: DLB

Prep Method: SW-846 3510

Analytical Method: SW-846 8082

Sulfur Cleanup: (Y/N) N Instrument ID: GCS8B

Lab File ID: 2030405/SV8005

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
12674-11-2	Aroclor-1016	1.00	U	0.080	1.00
11104-28-2	Aroclor-1221	1.00	U	0.230	1.00
11141-16-5	Aroclor-1232	1.00	U	0.200	1.00
53469-21-9	Aroclor-1242	1.00	U	0.250	1.00
12672-29-6	Aroclor-1248	1.00	U	0.130	1.00
11097-69-1	Aroclor-1254	1.00	U	0.210	1.00
11096-82-5	Aroclor-1260	1.00	U	0.100	1.00

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Soil

Sample wt/vol: 1 Units: g

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: ID: (mm)

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Injection Volume: (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: MB91921

Contract:

SAS No.: SDG No.: 203033106

Lab Sample ID: 91921

Date Collected: Time:

Date Received:

Date Extracted: 04/07/03

Date Analyzed: 04/07/03 Time: 1538

Dilution Factor: 1 Analyst: TLS

Prep Method: SW-846 3550

Analytical Method: SW-846 8082

Sulfur Cleanup: (Y/N) N Instrument ID: GCS8B

Lab File ID: 2030407/SV8011

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
12674-11-2	Aroclor-1016	1200	U	402	1200
11104-28-2	Aroclor-1221	1200	U	275	1200
11141-16-5	Aroclor-1232	1200	U	302	1200
53469-21-9	Aroclor-1242	1200	U	352	1200
12672-29-6	Aroclor-1248	1200	U	234	1200
11097-69-1	Aroclor-1254	1200	U	195	1200
11096-82-5	Aroclor-1260	1200	U	282	1200

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: ID: (mm)

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Injection Volume: (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: LCS91150

Contract:

SAS No.: SDG No.: 203033106

Lab Sample ID: 91150

Date Collected: Time:

Date Received:

Date Extracted: 04/01/03

Date Analyzed: 04/04/03 Time: 1246

Dilution Factor: 1 Analyst: TLS

Prep Method: SW-846 3510

Analytical Method: SW-846 8082

Sulfur Cleanup: (Y/N) N Instrument ID: GCS8B

Lab File ID: 2030403/SV8045

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
12674-11-2	Aroclor-1016	3.40		0.080	1.00
11104-28-2	Aroclor-1221	1.00	U	0.230	1.00
11141-16-5	Aroclor-1232	1.00	U	0.200	1.00
53469-21-9	Aroclor-1242	1.00	U	0.250	1.00
12672-29-6	Aroclor-1248	1.00	U	0.130	1.00
11097-69-1	Aroclor-1254	1.00	U	0.210	1.00
11096-82-5	Aroclor-1260	3.50		0.100	1.00

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: ID: (mm)

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Injection Volume: (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: LCS91173

Contract:

SAS No.: SDG No.: 203033106

Lab Sample ID: 91173

Date Collected: Time:

Date Received:

Date Extracted: 04/02/03

Date Analyzed: 04/06/03 Time: 2327

Dilution Factor: 1 Analyst: DLB

Prep Method: SW-846 3550

Analytical Method: SW-846 8082

Sulfur Cleanup: (Y/N) N Instrument ID: GCS8B

Lab File ID: 2030405/SV8035

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
12674-11-2	Aroclor-1016	121		13.4	40.0
11104-28-2	Aroclor-1221	40.0	U	9.17	40.0
11141-16-5	Aroclor-1232	40.0	U	10.1	40.0
53469-21-9	Aroclor-1242	40.0	U	11.7	40.0
12672-29-6	Aroclor-1248	40.0	U	7.81	40.0
11097-69-1	Aroclor-1254	40.0	U	6.49	40.0
11096-82-5	Aroclor-1260	122		9.40	40.0

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: ID: (mm)

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Injection Volume: (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: LCS91778

Contract:

SAS No.: SDG No.: 203033106

Lab Sample ID: 91778

Date Collected: Time:

Date Received:

Date Extracted: 04/04/03

Date Analyzed: 04/05/03 Time: 1255

Dilution Factor: 1 Analyst: DLB

Prep Method: SW-846 3510

Analytical Method: SW-846 8082

Sulfur Cleanup: (Y/N) N Instrument ID: GCS8B

Lab File ID: 2030405/SV8008

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
12674-11-2	Aroclor-1016	3.68		0.080	1.00
11104-28-2	Aroclor-1221	1.00	U	0.230	1.00
11141-16-5	Aroclor-1232	1.00	U	0.200	1.00
53469-21-9	Aroclor-1242	1.00	U	0.250	1.00
12672-29-6	Aroclor-1248	1.00	U	0.130	1.00
11097-69-1	Aroclor-1254	1.00	U	0.210	1.00
11096-82-5	Aroclor-1260	3.72		0.100	1.00

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Soil

Sample wt/vol: 1 Units: g

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: ID: (mm)

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Injection Volume: (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: LCS91922

Contract:

SAS No.: SDG No.: 203033106

Lab Sample ID: 91922

Date Collected: Time:

Date Received:

Date Extracted: 04/07/03

Date Analyzed: 04/07/03 Time: 1608

Dilution Factor: 1 Analyst: TLS

Prep Method: SW-846 3550

Analytical Method: SW-846 8082

Sulfur Cleanup: (Y/N) N Instrument ID: GCS8B

Lab File ID: 2030407/SV8012

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
12674-11-2	Aroclor-1016	4370		402	1200
11104-28-2	Aroclor-1221	1200	U	275	1200
11141-16-5	Aroclor-1232	1200	U	302	1200
53469-21-9	Aroclor-1242	1200	U	352	1200
12672-29-6	Aroclor-1248	1200	U	234	1200
11097-69-1	Aroclor-1254	1200	U	195	1200
11096-82-5	Aroclor-1260	4280		282	1200

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: ID: (mm)

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Injection Volume: (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: LCSD91151

Contract:

SAS No.: SDG No.: 203033106

Lab Sample ID: 91151

Date Collected: Time:

Date Received:

Date Extracted: 04/01/03

Date Analyzed: 04/04/03 Time: 1316

Dilution Factor: 1 Analyst: TLS

Prep Method: SW-846 3510

Analytical Method: SW-846 8082

Sulfur Cleanup: (Y/N) N Instrument ID: GCS8B

Lab File ID: 2030403/SV8046

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
12674-11-2	Aroclor-1016	3.45		0.080	1.00
11104-28-2	Aroclor-1221	1.00	U	0.230	1.00
11141-16-5	Aroclor-1232	1.00	U	0.200	1.00
53469-21-9	Aroclor-1242	1.00	U	0.250	1.00
12672-29-6	Aroclor-1248	1.00	U	0.130	1.00
11097-69-1	Aroclor-1254	1.00	U	0.210	1.00
11096-82-5	Aroclor-1260	3.46		0.100	1.00

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: ID: (mm)

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Injection Volume: (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: LCSD91779

Contract:

SAS No.: SDG No.: 203033106

Lab Sample ID: 91779

Date Collected: Time:

Date Received:

Date Extracted: 04/04/03

Date Analyzed: 04/05/03 Time: 1325

Dilution Factor: 1 Analyst: DLB

Prep Method: SW-846 3510

Analytical Method: SW-846 8082

Sulfur Cleanup: (Y/N) N Instrument ID: GCS8B

Lab File ID: 2030405/SV8009

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
12674-11-2	Aroclor-1016	3.39		0.080	1.00
11104-28-2	Aroclor-1221	1.00	U	0.230	1.00
11141-16-5	Aroclor-1232	1.00	U	0.200	1.00
53469-21-9	Aroclor-1242	1.00	U	0.250	1.00
12672-29-6	Aroclor-1248	1.00	U	0.130	1.00
11097-69-1	Aroclor-1254	1.00	U	0.210	1.00
11096-82-5	Aroclor-1260	3.60		0.100	1.00

2E

WATER PESTICIDE SURROGATE RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203033106

GC Column (1): ID: (mm) GC Cloumn (2): ID: (mm)

Method: SW-846 8082

	EPA SAMPLE NO.	SMC1 1-(1)	Lo	Hi	F	SMC1 1-(2)	Lo	Hi	F	SMC2 2-(1)	Lo	Hi	F	SMC2 2-(2)	Lo	Hi	F	TOT OUT
1.	021-WC1-L-0328-03	69	60	150														0
2.	021-WC3-L-0328-03 (WATER)	78	60	150														0
3.	MB91149	76	60	150														0
4.	LCS91150	50	60	150	*													1
5.	LCSD91151	68	60	150														0
6.	MB91777	70	60	150														0
7.	LCS91778	77	60	150														0
8.	LCSD91779	77	60	150														0

SMC 1 : Decachlorobiphenyl SMC 2 :

2F

SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203033106

GC Column (1) : ID: (mm) GC Cloumn (2) : ID: (mm)

Method: SW-846 8082

	EPA SAMPLE NO.	SMC1 1-(1)	Lo	Hi	F	SMC1 1-(2)	Lo	Hi	F	SMC2 2-(1)	Lo	Hi	F	SMC2 2-(2)	Lo	Hi	F	TOT OUT
1 .	021-WC4-L-0328-03	3160	60	150	D													0
2 .	021-WC5-S-0402-03 (OIL)	131	60	150														0
3 .	MB91172	113	60	150														0
4 .	LCS91173	97	60	150														0
5 .	021-WC4-L-0328-03MS	0	60	150	D													0
6 .	MB91921	99	60	150														0
7 .	LCS91922	115	60	150														0
8 .	021-WC5-S-0402-03 ...MS	118	60	150														0
9 .	021-WC5-S-0402-03...MSD	133	60	150														0
10 .	021-WC4-L-0328-03MSD	0	60	150	D													0

SMC 1 : Decachlorobiphenyl SMC 2 :

3E

WATER PESTICIDE LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203033106

Contract: Method: SW-846 8082

SAMPLE NO : 91150

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS % REC	LCS % REC FLAG	QC. LIMITS
Aroclor-1016	ug/L	4	0	3.4	85		55 - 131
Aroclor-1260	ug/L	4	0	3.5	88		51 - 138

SAMPLE NO : 91151

COMPOUND	UNITS	SPIKE ADDED	LCSD CONC.	LCSD % REC	REC FLAG	% RPD	RPD FLAG	QC. LIMITS REC	QC. LIMITS RPD
Aroclor-1016	ug/L	4	3.45	86		1		55 - 131	0 - 35
Aroclor-1260	ug/L	4	3.46	87		1		51 - 138	0 - 34

RPD : 0 out of 2 outside limits

Spike Recovery: 0 out of 4 outside limits

3E

WATER PESTICIDE LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203033106

Contract: Method: SW-846 8082

SAMPLE NO : 91778

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS % REC	LCS % REC FLAG	QC. LIMITS
Aroclor-1016	ug/L	4	0	3.68	92		55 - 131
Aroclor-1260	ug/L	4	0	3.72	93		51 - 138

SAMPLE NO : 91779

COMPOUND	UNITS	SPIKE ADDED	LCSD CONC.	LCSD % REC	REC FLAG	% RPD	RPD FLAG	QC. LIMITS REC	QC. LIMITS RPD
Aroclor-1016	ug/L	4	3.39	85		8		55 - 131	0 - 35
Aroclor-1260	ug/L	4	3.6	90		3		51 - 138	0 - 34

RPD : 0 out of 2 outside limits

Spike Recovery: 0 out of 4 outside limits

3F

SOIL PESTICIDE LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203033106

Contract: Method: SW-846 8082

Spike HSN : 91173

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS % REC	LCS % REC FLAG	QC. LIMITS
Aroclor-1016	ug/kg	133	0	121	91		62 - 124
Aroclor-1260	ug/kg	133	0	122	92		62 - 129

RPD : 0 out of 0 outside limits

Spike Recovery: 0 out of 2 outside limits

3F

SOIL PESTICIDE LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203033106

Contract: Method: SW-846 8082

Spike HSN : 91922

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS % REC	LCS % REC FLAG	QC. LIMITS
Aroclor-1016	ug/kg	4000	0	4370	109		62 - 124
Aroclor-1260	ug/kg	4000	0	4280	107		62 - 129

RPD : 0 out of 0 outside limits

Spike Recovery: 0 out of 2 outside limits

4C

PESTICIDE METHOD BLANK SUMMARY

Lab Name: GCAL

Sample ID: MB91149

Lab Code: LA024 Case No.:

Contract:

Lab Sample ID: 91149

SAS No.: SDG No.: 203033106

Matrix: Water Sulfur Cleanup: (Y/N) N

Date Extracted: 04/01/03

Date Analyzed (1): 04/04/03 Time (1): 1117

Date Analyzed (2): Time (2):

Instrument ID (1): GCS8B

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

Method: SW-846 8082

Lab File ID: 2030403/SV8042

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATE ANALYZED	TIME ANALYZED
1.	LCS91150	91150	04/04/03	1246		
2.	LCSD91151	91151	04/04/03	1316		
3.	021-WC1-L-0328-03	20303310601	04/04/03	1346		

4C

PESTICIDE METHOD BLANK SUMMARY

Lab Name: GCAL

Sample ID: MB91777

Lab Code: LA024 Case No.:

Contract:

Lab Sample ID: 91777

SAS No.: SDG No.: 203033106

Matrix: Water Sulfur Cleanup: (Y/N) N

Date Extracted: 04/04/03

Date Analyzed (1): 04/05/03 Time (1): 1125

Date Analyzed (2): Time (2):

Instrument ID (1): GCS8B

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

Method: SW-846 8082

Lab File ID: 2030405/SV8005

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATE ANALYZED	TIME ANALYZED
1.	LCS91778	91778	04/05/03	1255		
2.	LCSD91779	91779	04/05/03	1325		
3.	021-WC3-L-0328-03 (WATER)	20303310604	04/05/03	1355		

4C

PESTICIDE METHOD BLANK SUMMARY

Lab Name: GCAL

Sample ID: MB91172

Lab Code: LA024 Case No.:

Contract:

Lab Sample ID: 91172

SAS No.: SDG No.: 203033106

Matrix: Soil Sulfur Cleanup: (Y/N) N

Date Extracted: 04/02/03

Date Analyzed (1): 04/06/03 Time (1): 2257

Date Analyzed (2): Time (2):

Instrument ID (1): GCS8B

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

Method: SW-846 8082

Lab File ID: 2030405/SV8034

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATE ANALYZED	TIME ANALYZED
1.	LCS91173	91173	04/06/03	2327		
2.	021-WC4-L-0328-03	20303310602	04/07/03	0027		
3.	021-WC4-L-0328-03MS	91174	04/07/03	0057		
4.	021-WC4-L-0328-03MSD	91175	04/07/03	0127		

4C

PESTICIDE METHOD BLANK SUMMARY

Lab Name: GCAL

Sample ID: MB91921

Lab Code: LA024 Case No.:

Contract:

Lab Sample ID: 91921

SAS No.: SDG No.: 203033106

Matrix: Soil Sulfur Cleanup: (Y/N) N

Date Extracted: 04/07/03

Date Analyzed (1): 04/07/03 Time (1): 1538

Date Analyzed (2): Time (2):

Instrument ID (1): GCS8B

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

Method: SW-846 8082

Lab File ID: 2030407/SV8011

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATE ANALYZED	TIME ANALYZED
1.	LCS91922	91922	04/07/03	1608		
2.	021-WC5-S-0402-03 (OIL)	20303310605	04/07/03	1638		
3.	021-WC5-S-0402-03 ...MS	91923	04/07/03	1708		
4.	021-WC5-S-0402-03...MSD	91924	04/07/03	1738		

6E

PESTICIDE ORGANICS INITIAL CALIBRATION DATA

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203033106

Instrument ID: GCS8B

Calibration Date 1: 04/03/03 Time 1: 1439

GC Column: ID: (mm)

Calibration Date 2: 04/04/03 Time 2: 0126

Method: SW-846 8082

COMPOUND	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	$\overline{RF}$	RSD
4,4'-DDD	53813.800	51276.750	65158.125	63213.794	55745.165				57841.527	10.44
4,4'-DDE	52295.300	65224.925	67330.806	74579.042	86678.810				69221.777	18.26
4,4'-DDT	36341.800	38687.825	52310.725	52769.638	47709.455				45563.888	16.8
Aldrin	45318.400	56264.600	61271.075	65305.967	81252.580				61882.524	21.27
Aroclor-1016	15082.693	15673.222	15903.532	16913.585	17954.340				16305.475	6.956
Aroclor-1221	6036.985								6036.985	0
Aroclor-1232	7954.028								7954.028	0
Aroclor-1242	11013.682								11013.682	0
Aroclor-1248	16238.985								16238.985	0
Aroclor-1254	13906.482								13906.482	0
Aroclor-1260	22908.438	23054.352	23272.544	24900.435	25165.400				23860.234	4.536
Chlordane	24616.922								24616.922	0
Decachlorobiphenyl	89098.900	89460.775	105628.425	01260.131	90127.780				95115.202	8.166
Dieldrin	64944.600	53960.800	80933.700	81292.125	72576.290				70741.503	16.32
Endosulfan I	41867.800	77240.600	66831.950	66542.375	60636.470				62623.839	20.84
Endosulfan II	47386.100	59291.675	62955.925	75492.190	76766.542				64378.486	18.92
Endosulfan sulfate	45909.400	54988.888	58987.825	61449.850	67062.475				57679.688	13.69
Endrin	38680.800	50102.075	68434.875	68125.012	62236.790				57515.91	22.39
Endrin aldehyde	46493.600	52994.950	53363.558	54985.012	58696.295				53306.683	8.304
Endrin ketone	51990.700	61004.712	63385.475	68671.883	76571.505				64324.855	14.18
Heptachlor	63863.800	60250.350	79922.650	80939.525	71319.750				71259.215	13.02
Heptachlor epoxide	60412.000	60437.600	60599.400	66469.967	78273.080				65238.409	11.85
Methoxychlor	28018.740	32155.115	37855.965	36453.105	33207.416				33538.068	11.51
Tetrachloro-m-xylene	56022.600	57704.200	77271.300	76453.375	67054.930				66901.281	14.98
Toxaphene	9414.922								9414.922	0
alpha-BHC	37139.200	43071.050	76584.617	79220.275	71417.230				61486.474	32.25
alpha-Chlordane	63378.200	69246.650	74294.950	77065.283	87400.370				74277.091	12.11
beta-BHC	35888.662	36634.600	37731.300	40204.150	45338.130				39159.368	9.756
delta-BHC	45073.050	50995.500	55684.850	60956.000	68529.040				56247.688	16.04
gamma-BHC (Lindane)	37466.000	43718.750	73703.250	75123.125	67423.000				59486.825	29.63
gamma-Chlordane	64503.800	64777.350	69576.500	72018.083	82042.050				70583.557	10.14

Data File: /var/chem/gcsv8.i/2030403.b/SV8041.d
Report Date: 10-Apr-2003 17:02

Gulf Coast Analytical Services

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv8.i
Lab File ID: SV8041.d
Analysis Type: WATER
Lab Sample ID: 1400
Method: /var/chem/gcsv8.i/2030403.b/pest608.m

Injection Date: 04-APR-2003 10:29
Init. Cal. Date(s): 03-APR-2003 04-APR-2003
Init. Cal. Times: 14:39 01:26
Quant Type: ESTD

	COMPOUND	RRF / AMOUNT	RF60	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
M	23 AR 1016-AVG	16305	16498	0.010	-1.18188	15.00000	Averaged
	24 AR 1016-PEAK1	2395	2060	0.010	14.01832	15.00000	Averaged
	25 AR 1016-PEAK2	3699	3800	0.010	-2.72211	15.00000	Averaged
	26 AR 1016-PEAK3	7168	7431	0.010	-3.66370	15.00000	Averaged
	27 AR 1016-PEAK4	3043	3208	0.010	-5.42939	15.00000	Averaged
M	28 AR 1260-AVG	23860	24691	0.010	-3.48345	15.00000	Averaged
	29 AR 1260-PEAK1	3068	3232	0.010	-5.34806	15.00000	Averaged
	30 AR 1260-PEAK2	4613	4878	0.010	-5.75836	15.00000	Averaged
	31 AR 1260-PEAK3	5578	5819	0.010	-4.33381	15.00000	Averaged
	32 AR 1260-PEAK4	10602	10762	0.010	-1.50679	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 4.74459
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Data File: /var/chem/gcsv8.i/2030403.b/SV8051.d
Report Date: 10-Apr-2003 17:03

Gulf Coast Analytical Services

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv8.i
Lab File ID: SV8051.d
Analysis Type: WATER
Lab Sample ID: 1400
Method: /var/chem/gcsv8.i/2030403.b/pest608.m

Injection Date: 04-APR-2003 15:49
Init. Cal. Date(s): 03-APR-2003 04-APR-2003
Init. Cal. Times: 14:39 01:26
Quant Type: ESTD

COMPOUND	RRF / AMOUNT	RF60	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
M 23 AR 1016-AVG	16305	16004	0.010	1.84646	15.00000	Averaged	
24 AR 1016-PEAK1	2395	1938	0.010	19.07786	15.00000	Averaged	<-
25 AR 1016-PEAK2	3699	3691	0.010	0.21727	15.00000	Averaged	
26 AR 1016-PEAK3	7168	7280	0.010	-1.55640	15.00000	Averaged	
27 AR 1016-PEAK4	3043	3095	0.010	-1.72228	15.00000	Averaged	
M 28 AR 1260-AVG	23860	23114	0.010	3.12917	15.00000	Averaged	
29 AR 1260-PEAK1	3068	2848	0.010	7.14891	15.00000	Averaged	
30 AR 1260-PEAK2	4613	4402	0.010	4.57977	15.00000	Averaged	
31 AR 1260-PEAK3	5578	5372	0.010	3.69401	15.00000	Averaged	
32 AR 1260-PEAK4	10602	10492	0.010	1.03777	15.00000	Averaged	

Average %D / Drift Results.

Calculated Average %D/Drift = 4.40099
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Data File: /var/chem/gcsv8.i/2030405.b/SV8004.d
Report Date: 17-Apr-2003 12:01

Gulf Coast Analytical Services

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv8.i
Lab File ID: SV8004.d
Analysis Type: WATER
Lab Sample ID: 1400
Method: /var/chem/gcsv8.i/2030405.b/pest608.m

Injection Date: 05-APR-2003 10:54
Init. Cal. Date(s): 03-APR-2003 04-APR-2003
Init. Cal. Times: 14:39 01:26
Quant Type: ESTD

COMPOUND	RRF / AMOUNT	RF60	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
M 23 AR 1016-AVG	16305	17302	0.010	-6.11246	15.00000	Averaged
24 AR 1016-PEAK1	2395	2099	0.010	12.37000	15.00000	Averaged
25 AR 1016-PEAK2	3699	4046	0.010	-9.36199	15.00000	Averaged
26 AR 1016-PEAK3	7168	7762	0.010	-8.28475	15.00000	Averaged
27 AR 1016-PEAK4	3043	3396	0.010	-11.59509	15.00000	Averaged
M 28 AR 1260-AVG	23860	26271	0.010	-10.10303	15.00000	Averaged
29 AR 1260-PEAK1	3068	3431	0.010	-11.83471	15.00000	Averaged
30 AR 1260-PEAK2	4613	5201	0.010	-12.74090	15.00000	Averaged
31 AR 1260-PEAK3	5578	6145	0.010	-10.17796	15.00000	Averaged
32 AR 1260-PEAK4	10602	11494	0.010	-8.41485	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 10.09957
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Data File: /var/chem/gcsv8.i/2030405.b/SV8017.d
Report Date: 17-Apr-2003 12:02

Gulf Coast Analytical Services

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv8.i
Lab File ID: SV8017.d
Analysis Type: WATER
Lab Sample ID: 1400
Method: /var/chem/gcsv8.i/2030405.b/pest608.m

Injection Date: 05-APR-2003 17:29
Init. Cal. Date(s): 03-APR-2003 04-APR-2003
Init. Cal. Times: 14:39 01:26
Quant Type: ESTD

	COMPOUND	RRF / AMOUNT	RF60	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
M	23 AR 1016-AVG	16305	17152	0.010	-5.19176	15.00000	Averaged
	24 AR 1016-PEAK1	2395	2067	0.010	13.69312	15.00000	Averaged
	25 AR 1016-PEAK2	3699	3973	0.010	-7.40098	15.00000	Averaged
	26 AR 1016-PEAK3	7168	7728	0.010	-7.81554	15.00000	Averaged
	27 AR 1016-PEAK4	3043	3383	0.010	-11.19233	15.00000	Averaged
M	28 AR 1260-AVG	23860	26070	0.010	-9.26066	15.00000	Averaged
	29 AR 1260-PEAK1	3068	3388	0.010	-10.43881	15.00000	Averaged
	30 AR 1260-PEAK2	4613	5132	0.010	-11.24930	15.00000	Averaged
	31 AR 1260-PEAK3	5578	6035	0.010	-8.19393	15.00000	Averaged
	32 AR 1260-PEAK4	10602	11516	0.010	-8.61573	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 9.30522
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Data File: /var/chem/gcsv8.i/2030405.b/SV8033.d
Report Date: 07-Apr-2003 09:22

Gulf Coast Analytical Services

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv8.i
Lab File ID: SV8033.d
Analysis Type: WATER
Lab Sample ID: 1400
Method: /var/chem/gcsv8.i/2030405.b/pest608.m

Injection Date: 06-APR-2003 22:27
Init. Cal. Date(s): 03-APR-2003 04-APR-2003
Init. Cal. Times: 14:39 01:26
Quant Type: ESTD

COMPOUND	RRF / AMOUNT	RF60	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
M 23 AR 1016-AVG	16305	17734	0.010	-8.75862	15.00000	Averaged	
24 AR 1016-PEAK1	2395	2179	0.010	9.03276	15.00000	Averaged	
25 AR 1016-PEAK2	3699	4122	0.010	-11.41952	15.00000	Averaged	
26 AR 1016-PEAK3	7168	7905	0.010	-10.27692	15.00000	Averaged	
27 AR 1016-PEAK4	3043	3528	0.010	-15.95340	15.00000	Averaged	<-
M 28 AR 1260-AVG	23860	26522	0.010	-11.15422	15.00000	Averaged	
29 AR 1260-PEAK1	3068	3520	0.010	-14.73223	15.00000	Averaged	
30 AR 1260-PEAK2	4613	5326	0.010	-15.45601	15.00000	Averaged	<-
31 AR 1260-PEAK3	5578	6265	0.010	-12.33232	15.00000	Averaged	
32 AR 1260-PEAK4	10602	11411	0.010	-7.62752	15.00000	Averaged	

Average %D / Drift Results.

Calculated Average %D/Drift = 11.67435
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Data File: /var/chem/gcsv8.i/2030405.b/SV8040.d
Report Date: 07-Apr-2003 09:22

Gulf Coast Analytical Services

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv8.i
Lab File ID: SV8040.d
Analysis Type: WATER
Lab Sample ID: 1400
Method: /var/chem/gcsv8.i/2030405.b/pest608.m

Injection Date: 07-APR-2003 01:56
Init. Cal. Date(s): 03-APR-2003 04-APR-2003
Init. Cal. Times: 14:39 01:26
Quant Type: ESTD

	COMPOUND	RRF / AMOUNT	RF60	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
M	23 AR 1016-AVG	16305	16420	0.010	-0.70245	15.00000	Averaged
	24 AR 1016-PEAK1	2395	2094	0.010	12.59878	15.00000	Averaged
	25 AR 1016-PEAK2	3699	3826	0.010	-3.43508	15.00000	Averaged
	26 AR 1016-PEAK3	7168	7400	0.010	-3.23604	15.00000	Averaged
	27 AR 1016-PEAK4	3043	3100	0.010	-1.88339	15.00000	Averaged
M	28 AR 1260-AVG	23860	25904	0.010	-8.56568	15.00000	Averaged
	29 AR 1260-PEAK1	3068	3331	0.010	-8.57703	15.00000	Averaged
	30 AR 1260-PEAK2	4613	5074	0.010	-9.98882	15.00000	Averaged
	31 AR 1260-PEAK3	5578	6044	0.010	-8.35969	15.00000	Averaged
	32 AR 1260-PEAK4	10602	11456	0.010	-8.05158	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 6.53985
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Data File: /var/chem/gcsv8.i/2030407.b/SV8004.d
Report Date: 17-Apr-2003 14:47

Gulf Coast Analytical Services

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv8.i
Lab File ID: SV8004.d
Analysis Type: WATER
Lab Sample ID: 1400
Method: /var/chem/gcsv8.i/2030407.b/pest608.m

Injection Date: 07-APR-2003 10:42
Init. Cal. Date(s): 03-APR-2003 04-APR-2003
Init. Cal. Times: 14:39 01:26
Quant Type: ESTD

COMPOUND	RRF / AMOUNT	RF60	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
M 23 AR 1016-AVG	16305	16751	0.010	-2.72976	15.00000	Averaged
24 AR 1016-PEAK1	2395	2090	0.010	12.73120	15.00000	Averaged
25 AR 1016-PEAK2	3699	3926	0.010	-6.12545	15.00000	Averaged
26 AR 1016-PEAK3	7168	7454	0.010	-3.98712	15.00000	Averaged
27 AR 1016-PEAK4	3043	3280	0.010	-7.81132	15.00000	Averaged
M 28 AR 1260-AVG	23860	24869	0.010	-4.22856	15.00000	Averaged
29 AR 1260-PEAK1	3068	3284	0.010	-7.03824	15.00000	Averaged
30 AR 1260-PEAK2	4613	5000	0.010	-8.38446	15.00000	Averaged
31 AR 1260-PEAK3	5578	5868	0.010	-5.21399	15.00000	Averaged
32 AR 1260-PEAK4	10602	10718	0.010	-1.08899	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 5.93391
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Data File: /var/chem/gcsv8.i/2030407.b/SV8016.d
Report Date: 10-Apr-2003 11:15

Gulf Coast Analytical Services

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv8.i
Lab File ID: SV8016.d
Analysis Type: WATER
Lab Sample ID: 1400
Method: /var/chem/gcsv8.i/2030407.b/pest608.m

Injection Date: 07-APR-2003 19:12
Init. Cal. Date(s): 03-APR-2003 04-APR-2003
Init. Cal. Times: 14:39 01:26
Quant Type: ESTD

COMPOUND	RRF / AMOUNT	RF60	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
M 23 AR 1016-AVG	16305	16900	0.010	-3.64315	15.00000	Averaged
24 AR 1016-PEAK1	2395	2074	0.010	13.41635	15.00000	Averaged
25 AR 1016-PEAK2	3699	3937	0.010	-6.43031	15.00000	Averaged
26 AR 1016-PEAK3	7168	7627	0.010	-6.39983	15.00000	Averaged
27 AR 1016-PEAK4	3043	3262	0.010	-7.19100	15.00000	Averaged
M 28 AR 1260-AVG	23860	23380	0.010	2.01326	15.00000	Averaged
29 AR 1260-PEAK1	3068	2888	0.010	5.86791	15.00000	Averaged
30 AR 1260-PEAK2	4613	4701	0.010	-1.91164	15.00000	Averaged
31 AR 1260-PEAK3	5578	5966	0.010	-6.96113	15.00000	Averaged
32 AR 1260-PEAK4	10602	9825	0.010	7.32681	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 22.85337
Maximun Average %D/Drift = 15.00000
* Failed Average %D/Drift Test.

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 940 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: ID: (mm)

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Injection Volume: (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: 021-WC1-L-0328-03

Contract:

SAS No.: SDG No.: 203033106

Lab Sample ID: 20303310601

Date Collected: 03/28/03 Time: 1348

Date Received: 03/29/03

Date Extracted:

Date Analyzed: 04/03/03 Time: 1443

Dilution Factor: 50 Analyst: TLS

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS2A

Lab File ID: 2030402/SV2AD0

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	66300		2160	5320

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 920 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-1-30M ID: .53 (mm)

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Injection Volume: (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: 021-WC3-L-0328-03 (WATER)

Contract:

SAS No.: SDG No.: 203033106

Lab Sample ID: 20303310604

Date Collected: 04/02/03 Time: 1300

Date Received: 04/03/03

Date Extracted:

Date Analyzed: 04/09/03 Time: 1657

Dilution Factor: 50 Analyst: TLS

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS2A

Lab File ID: 2030409/SV2009

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	55100		2210	5430

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 850 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: ID: (mm)

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Injection Volume: (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: 021-WC3-L-0328-03R

Contract:

SAS No.: SDG No.: 203033106

Lab Sample ID: 20303310606

Date Collected: 04/02/03 Time: 1300

Date Received: 04/03/03

Date Extracted:

Date Analyzed: 04/10/03 Time: 2145

Dilution Factor: 50 Analyst: TLS

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS2A

Lab File ID: 2030410/SV2AD0

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	974000		4790	11800

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: ID: (mm)

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Injection Volume: (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: MB91819

Contract:

SAS No.: SDG No.: 203033106

Lab Sample ID: 91819

Date Collected: Time:

Date Received:

Date Extracted:

Date Analyzed: 04/02/03 Time: 1536

Dilution Factor: 1 Analyst: DLB

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS2A

Lab File ID: 2030402/SV2AD0

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	100	U	40.7	100

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: ID: (mm)

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Injection Volume: (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: MB91997

Contract:

SAS No.: SDG No.: 203033106

Lab Sample ID: 91997

Date Collected: Time:

Date Received:

Date Extracted:

Date Analyzed: 04/10/03 Time: 1808

Dilution Factor: 1 Analyst: TLS

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS2A

Lab File ID: 2030410/SV2AD0

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	66.9	J	40.7	100

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-1-30M ID: .53 (mm)

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Injection Volume: (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: MB93023

Contract:

SAS No.: SDG No.: 203033106

Lab Sample ID: 93023

Date Collected: Time:

Date Received:

Date Extracted:

Date Analyzed: 04/09/03 Time: 1130

Dilution Factor: 1 Analyst: TLS

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS2A

Lab File ID: 2030409/SV2003

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	100	U	40.7	100

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: ID: (mm)

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Injection Volume: (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: LCS91820

Contract:

SAS No.: SDG No.: 203033106

Lab Sample ID: 91820

Date Collected: Time:

Date Received:

Date Extracted:

Date Analyzed: 04/02/03 Time: 1634

Dilution Factor: 1 Analyst: DLB

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS2A

Lab File ID: 2030402/SV2AD0

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	1530		40.7	100

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: ID: (mm)

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Injection Volume: (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: LCS91998

Contract:

SAS No.: SDG No.: 203033106

Lab Sample ID: 91998

Date Collected: Time:

Date Received:

Date Extracted:

Date Analyzed: 04/10/03 Time: 1903

Dilution Factor: 1 Analyst: TLS

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS2A

Lab File ID: 2030410/SV2AD0

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	1550		40.7	100

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: ID: (mm)

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Injection Volume: (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: LCSD91999

Contract:

SAS No.: SDG No.: 203033106

Lab Sample ID: 91999

Date Collected: Time:

Date Received:

Date Extracted:

Date Analyzed: 04/10/03 Time: 1957

Dilution Factor: 1 Analyst: TLS

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS2A

Lab File ID: 2030410/SV2AD0

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	1420		40.7	100

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-1-30M ID: .53 (mm)

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Injection Volume: (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: LCS93024

Contract:

SAS No.: SDG No.: 203033106

Lab Sample ID: 93024

Date Collected: Time:

Date Received:

Date Extracted:

Date Analyzed: 04/09/03 Time: 1224

Dilution Factor: 1 Analyst: TLS

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS2A

Lab File ID: 2030409/SV2004

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	1730		40.7	100

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-1-30M ID: .53 (mm)

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Injection Volume: (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: LCSD93025

Contract:

SAS No.: SDG No.: 203033106

Lab Sample ID: 93025

Date Collected: Time:

Date Received:

Date Extracted:

Date Analyzed: 04/09/03 Time: 1319

Dilution Factor: 1 Analyst: TLS

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS2A

Lab File ID: 2030409/SV2005

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	100	U	40.7	100

2E

WATER PESTICIDE SURROGATE RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203033106

GC Column (1): ID: (mm) GC Cloumn (2): ID: (mm)

Method: FLORIDA PRO

	EPA SAMPLE NO.	SMC1 1-(1)	Lo	Hi	F	SMC1 1-(2)	Lo	Hi	F	SMC2 2-(1)	Lo	Hi	F	SMC2 2-(2)	Lo	Hi	F	TOT OUT
1 .	021-WC1-L-0328-03	0	81	142	D					0	42	193	D					0
2 .	021-WC3-L-0328-03 (WATER)	0	81	142	D					0	42	193	D					0
3 .	021-WC3-L-0328-03R	0	81	142	D					0	42	193	D					0
4 .	MB91819	106	81	142						127	42	193						0
5 .	LCS91820	82	81	142						121	42	193						0
6 .	MB91997	91	81	142						82	42	193						0
7 .	LCS91998	94	81	142						127	42	193						0
8 .	LCSD91999	74	81	142	*					96	42	193						1
9 .	MB93023	97	81	142						83	42	193						0
10 .	LCS93024	92	81	142						80	42	193						0
11 .	LCSD93025	97	81	142						78	42	193						0

SMC 1 : O-Terphenyl SMC 2 : Nonatriacontane

3E

WATER PESTICIDE LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203033106

Contract: Method: FLORIDA PRO

SAMPLE NO : 91820

COMPOUND	*UNITS*	*SPIKE ADDED*	*SAMPLE CONCENTRATION*	*LCS CONCENTRATION*	*LCS % REC*	*LCS % REC FLAG*	*QC. LIMITS*
Petroleum Hydrocarbons	ug/L	1700	0	1530	90		55 - 118

RPD : 0 out of 0 outside limits

Spike Recovery: 0 out of 1 outside limits

3E

WATER PESTICIDE LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203033106

Contract: Method: FLORIDA PRO

SAMPLE NO : 91998

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS % REC	LCS % REC FLAG	QC. LIMITS
Petroleum Hydrocarbons	ug/L	1700	0	1550	91		55 - 118

SAMPLE NO : 91999

COMPOUND	UNITS	SPIKE ADDED	LCSD CONC.	LCSD % REC	REC FLAG	% RPD	RPD FLAG	QC. LIMITS REC	QC. LIMITS RPD
Petroleum Hydrocarbons	ug/L	1700	1420	84		8		55 - 118	0 - 20

RPD : 0 out of 1 outside limits

Spike Recovery: 0 out of 2 outside limits

3E

WATER PESTICIDE LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203033106

Contract: Method: FLORIDA PRO

SAMPLE NO : 93024

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS % REC	LCS % REC FLAG	QC. LIMITS
Petroleum Hydrocarbons	ug/L	1700	0	1730	102		55 - 118

SAMPLE NO : 93025

COMPOUND	UNITS	SPIKE ADDED	LCSD CONC.	LCSD % REC	REC FLAG	% RPD	RPD FLAG	QC. LIMITS REC	QC. LIMITS RPD
Petroleum Hydrocarbons	ug/L	1700	0	0	*	200	*	55 - 118	0 - 20

RPD : 1 out of 1 outside limits

Spike Recovery: 1 out of 2 outside limits

4C

PESTICIDE METHOD BLANK SUMMARY

Lab Name: GCAL

Sample ID: MB91819

Lab Code: LA024 Case No.:

Contract:

Lab Sample ID: 91819

SAS No.: SDG No.: 203033106

Matrix: Water Sulfur Cleanup: (Y/N) N

Date Extracted:

Date Analyzed (1): 04/02/03 Time (1): 1536

Date Analyzed (2): Time (2):

Instrument ID (1): GCS2A

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

Method: FLORIDA PRO

Lab File ID: 2030402/SV2AD0

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATE ANALYZED	TIME ANALYZED
1.	LCS91820	91820	04/02/03	1634		
2.	021-WC1-L-0328-03	20303310601	04/03/03	1443		

4C

PESTICIDE METHOD BLANK SUMMARY

Lab Name: GCAL

Sample ID: MB93023

Lab Code: LA024 Case No.:

Contract:

Lab Sample ID: 93023

SAS No.: SDG No.: 203033106

Matrix: Water Sulfur Cleanup: (Y/N) N

Date Extracted:

Date Analyzed (1): 04/09/03 Time (1): 1130

Date Analyzed (2): Time (2):

Instrument ID (1): GCS2A

Instrument ID (2):

GC Column (1): DB-1-30M ID: .53 (mm)

GC Column (2): ID: (mm)

Method: FLORIDA PRO

Lab File ID: 2030409/SV2003

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATE ANALYZED	TIME ANALYZED
1.	LCS93024	93024	04/09/03	1224		
2.	LCSD93025	93025	04/09/03	1319		
3.	021-WC3-L-0328-03 (WATER)	20303310604	04/09/03	1657		

4C

PESTICIDE METHOD BLANK SUMMARY

Lab Name: GCAL

Sample ID: MB91997

Lab Code: LA024 Case No.:

Contract:

Lab Sample ID: 91997

SAS No.: SDG No.: 203033106

Matrix: Water Sulfur Cleanup: (Y/N) N

Date Extracted:

Date Analyzed (1): 04/10/03 Time (1): 1808

Date Analyzed (2): Time (2):

Instrument ID (1): GCS2A

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

Method: FLORIDA PRO

Lab File ID: 2030410/SV2AD0

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATE ANALYZED	TIME ANALYZED
1.	LCS91998	91998	04/10/03	1903		
2.	LCSD91999	91999	04/10/03	1957		
3.	021-WC3-L-0328-03R	20303310606	04/10/03	2145		

6B

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: GCAL Contract:

Lab Code: Case No.: 203033106 SAS No.: SDG No.: 203033106

Instrument ID: GCSV2AD Calibration Date(s): 03/29/03 03/29/03

Calibration Time(s): 1508 1937

LAB FILE ID: RRF5 =SV2AD002S RRF50 =SV2AD003S
RRF150=SV2AD004S RRF250=SV2AD005S RRF350=SV2AD006S

COMPOUND	RRF5	RRF50	RRF150	RRF250	RRF350	$\overline{RRF}$	% RSD
TOTAL PRO	172611	259089	240193	237108	229558		
O-TERPHENYL	535787	550599	529781	522715	502395		
Nonatriacontane	3415.8	2708.8	3081.2	2909.5	3302.5		

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: GCAL Contract:

Lab Code: Case No.: 203033106 SAS No.: SDG No.: 203033106

Instrument ID: GCSV2AD Calibration Date(s): 03/29/03 03/29/03

Calibration Time(s): 1508 1937

LAB FILE ID: RRF500=SV2AD007S

COMPOUND	RRF500					$\overline{RRF}$	% RSD
TOTAL PRO	222144					226784	12.9
O-TERPHENYL	484480					520960	4.6
Nonatriacontane	3517.1					3155.8	9.9

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

Gulf Coast Analytical Services

RECOVERY REPORT

Client Name:
Client SDG: 2030329
Sample Matrix: SOLID
Fraction: SV
Lab Smp Id: 50 PPM ICV
Level: LOW
Operator: tls
Data Type: GC MULTI COMP
SampleType: LCS
SpikeList File: totpro.spk
Quant Type: ESTD
Sublist File: PRO.sub
Method File: /var/chem/gcsv2ad.i/2030329.b/flpro.m
Misc Info:

SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
20 Total PRO	85000.0000	88987.6419	104.69	70-130

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL Contract:

Lab Code: Case No.: 203033106 SAS No.: SDG No.: 203033106

Instrument ID: GCSV2AD Calibration Date: 04/09/03 Time: 1027

Lab File ID: SV2AD002S Init. Calib. Date(s): 03/29/03 03/29/03

Init. Calib. Times: 1508 1937

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Total PRO	226784	238754		5.3	
O-TERPHENYL	520960	450943		13.4	
Nonatriacontane	3155.8	4120.8		-30.6	

All other compounds must meet a minimum RRF of 0.010.

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL Contract:

Lab Code: Case No.: 203033106 SAS No.: SDG No.: 203033106

Instrument ID: GCSV2AD Calibration Date: 04/09/03 Time: 1751

Lab File ID: SV2AD010S Init. Calib. Date(s): 03/29/03 03/29/03

Init. Calib. Times: 1508 1937

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Total PRO	226784	252608		-11.4	
O-TERPHENYL	520960	468104		10.1	
Nonatriacontane	3155.8	3341.6		-5.9	

All other compounds must meet a minimum RRF of 0.010.

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL Contract:

Lab Code: Case No.: 203033106 SAS No.: SDG No.: 203033106

Instrument ID: GCSV2AD Calibration Date: 04/11/03 Time: 0217

Lab File ID: SV2AD012S Init. Calib. Date(s): 03/28/03 03/29/03

Init. Calib. Times: 1408 1937

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Total PRO	226784	265908		-17.3	
O-TERPHENYL	520960	513018		1.5	
Nonatriacontane	3155.8	4739.3		-50.2	

All other compounds must meet a minimum RRF of 0.010.

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL Contract:

Lab Code: Case No.: 203033106 SAS No.: SDG No.: 203033106

Instrument ID: GCSV2AD Calibration Date: 04/10/03 Time: 1411

Lab File ID: SV2AD001S Init. Calib. Date(s): 03/29/03 03/29/03

Init. Calib. Times: 1508 1937

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Total PRO	226784	238408		-5.1	
O-TERPHENYL	520960	485199		6.9	
Nonatriacontane	3155.8	4991.1		-58.2	

All other compounds must meet a minimum RRF of 0.010.

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-608-30M ID: .53 (mm)

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Injection Volume: (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: 021-WC1-L-0328-03

Contract:

SAS No.: SDG No.: 203033106

Lab Sample ID: 20303310601

Date Collected: 03/28/03 Time: 1348

Date Received: 03/29/03

Date Extracted: 04/01/03

Date Analyzed: 04/02/03 Time: 2117

Dilution Factor: 1 Analyst: TLS

Prep Method: SW-846 3510

Analytical Method: SW-846 8151A

Sulfur Cleanup: (Y/N) N Instrument ID: GCS6A

Lab File ID: 2030402/SV6011

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
94-75-7	2,4'-D	10.0	U	0.270	10.0
93-76-5	2,4,5-T	2.00	U	0.270	2.00
93-72-1	2,4,5-TP (SILVEX)	2.00	U	0.320	2.00

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-608-30M ID: .53 (mm)

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Injection Volume: (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: 021-WC3-L-0328-03 (WATER)

Contract:

SAS No.: SDG No.: 203033106

Lab Sample ID: 20303310604

Date Collected: 04/02/03 Time: 1300

Date Received: 04/03/03

Date Extracted: 04/04/03

Date Analyzed: 04/09/03 Time: 1239

Dilution Factor: 1 Analyst: DLB

Prep Method: SW-846 3510

Analytical Method: SW-846 8151A

Sulfur Cleanup: (Y/N) N Instrument ID: GCS6A

Lab File ID: 2030409/SV6012

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
94-75-7	2,4'-D	10.0	U	0.270	10.0
93-76-5	2,4,5-T	2.00	U	0.270	2.00
93-72-1	2,4,5-TP (SILVEX)	2.00	U	0.320	2.00

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-608-30M ID: .53 (mm)

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Injection Volume: (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: MB91169

Contract:

SAS No.: SDG No.: 203033106

Lab Sample ID: 91169

Date Collected: Time:

Date Received:

Date Extracted: 04/01/03

Date Analyzed: 04/02/03 Time: 1955

Dilution Factor: 1 Analyst: TLS

Prep Method: SW-846 3510

Analytical Method: SW-846 8151A

Sulfur Cleanup: (Y/N) N Instrument ID: GCS6A

Lab File ID: 2030402/SV6008

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
94-75-7	2,4'-D	10.0	U	0.270	10.0
93-76-5	2,4,5-T	2.00	U	0.270	2.00
93-72-1	2,4,5-TP (SILVEX)	2.00	U	0.320	2.00

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-608-30M ID: .53 (mm)

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Injection Volume: (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: MB91792

Contract:

SAS No.: SDG No.: 203033106

Lab Sample ID: 91792

Date Collected: Time:

Date Received:

Date Extracted: 04/04/03

Date Analyzed: 04/09/03 Time: 1122

Dilution Factor: 1 Analyst: DLB

Prep Method: SW-846 3510

Analytical Method: SW-846 8151A

Sulfur Cleanup: (Y/N) N Instrument ID: GCS6A

Lab File ID: 2030409/SV6009

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
94-75-7	2,4'-D	10.0	U	0.270	10.0
93-76-5	2,4,5-T	2.00	U	0.270	2.00
93-72-1	2,4,5-TP (SILVEX)	2.00	U	0.320	2.00

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-608-30M ID: .53 (mm)

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Injection Volume: (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: LCS91170

Contract:

SAS No.: SDG No.: 203033106

Lab Sample ID: 91170

Date Collected: Time:

Date Received:

Date Extracted: 04/01/03

Date Analyzed: 04/02/03 Time: 2022

Dilution Factor: 1 Analyst: TLS

Prep Method: SW-846 3510

Analytical Method: SW-846 8151A

Sulfur Cleanup: (Y/N) N Instrument ID: GCS6A

Lab File ID: 2030402/SV6009

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
94-75-7	2,4'-D	2.31	J	0.270	10.0
93-76-5	2,4,5-T	2.00		0.270	2.00
93-72-1	2,4,5-TP (SILVEX)	2.10		0.320	2.00

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-608-30M ID: .53 (mm)

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Injection Volume: (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: LCS91793

Contract:

SAS No.: SDG No.: 203033106

Lab Sample ID: 91793

Date Collected: Time:

Date Received:

Date Extracted: 04/04/03

Date Analyzed: 04/09/03 Time: 1148

Dilution Factor: 1 Analyst: DLB

Prep Method: SW-846 3510

Analytical Method: SW-846 8151A

Sulfur Cleanup: (Y/N) N Instrument ID: GCS6A

Lab File ID: 2030409/SV6010

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
94-75-7	2,4'-D	4.27	J	0.270	10.0
93-76-5	2,4,5-T	3.87		0.270	2.00
93-72-1	2,4,5-TP (SILVEX)	3.57		0.320	2.00

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-608-30M ID: .53 (mm)

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Injection Volume: (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: LCSD91171

Contract:

SAS No.: SDG No.: 203033106

Lab Sample ID: 91171

Date Collected: Time:

Date Received:

Date Extracted: 04/01/03

Date Analyzed: 04/02/03 Time: 2049

Dilution Factor: 1 Analyst: TLS

Prep Method: SW-846 3510

Analytical Method: SW-846 8151A

Sulfur Cleanup: (Y/N) N Instrument ID: GCS6A

Lab File ID: 2030402/SV6010

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
94-75-7	2,4'-D	2.41	J	0.270	10.0
93-76-5	2,4,5-T	2.22		0.270	2.00
93-72-1	2,4,5-TP (SILVEX)	2.28		0.320	2.00

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-608-30M ID: .53 (mm)

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Injection Volume: (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: LCSD91794

Contract:

SAS No.: SDG No.: 203033106

Lab Sample ID: 91794

Date Collected: Time:

Date Received:

Date Extracted: 04/04/03

Date Analyzed: 04/09/03 Time: 1213

Dilution Factor: 1 Analyst: DLB

Prep Method: SW-846 3510

Analytical Method: SW-846 8151A

Sulfur Cleanup: (Y/N) N Instrument ID: GCS6A

Lab File ID: 2030409/SV6011

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
94-75-7	2,4'-D	2.12	J	0.270	10.0
93-76-5	2,4,5-T	2.37		0.270	2.00
93-72-1	2,4,5-TP (SILVEX)	2.07		0.320	2.00

2E

WATER PESTICIDE SURROGATE RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203033106

GC Column (1): DB-608-30M ID: .53 (mm) GC Cloumn (2): ID: (mm)

Method: SW-846 8151A

	EPA SAMPLE NO.	SMC1 1-(1)	Lo	Hi	F	SMC1 1-(2)	Lo	Hi	F	SMC2 2-(1)	Lo	Hi	F	SMC2 2-(2)	Lo	Hi	F	TOT OUT
1 .	021-WC1-L-0328-03	46	37	140														0
2 .	021-WC3-L-0328-03 (WATER)	77	37	140														0
3 .	MB91169	87	37	140														0
4 .	LCS91170	96	37	140														0
5 .	LCSD91171	94	37	140														0
6 .	MB91792	86	37	140														0
7 .	LCS91793	71	37	140														0
8 .	LCSD91794	65	37	140														0

SMC 1 : DCAA SMC 2 :

3E

WATER PESTICIDE LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203033106

Contract: Method: SW-846 8151A

SAMPLE NO : 91170

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS % REC	LCS % REC FLAG	QC. LIMITS
2,4'-D	ug/L	2.02	0	2.31	114		10 - 126
2,4,5-T	ug/L	2	0	2	100		32 - 130
2,4,5-TP (SILVEX)	ug/L	2.02	0	2.1	104		34 - 124

SAMPLE NO : 91171

COMPOUND	UNITS	SPIKE ADDED	LCSD CONC.	LCSD % REC	REC FLAG	% RPD	RPD FLAG	QC. LIMITS REC	QC. LIMITS RPD
2,4'-D	ug/L	2.02	2.41	119		4		10 - 126	0 - 40
2,4,5-T	ug/L	2	2.22	111		10		32 - 130	0 - 40
2,4,5-TP (SILVEX)	ug/L	2.02	2.28	113		8		34 - 124	0 - 40

RPD : 0 out of 3 outside limits

Spike Recovery: 0 out of 6 outside limits

3E

WATER PESTICIDE LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203033106

Contract: Method: SW-846 8151A

SAMPLE NO : 91793

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS % REC	LCS % REC FLAG	QC. LIMITS
2,4'-D	ug/L	4	0	4.27	107		10 - 126
2,4,5-T	ug/L	4	0	3.87	97		32 - 130
2,4,5-TP (SILVEX)	ug/L	4	0	3.57	89		34 - 124

SAMPLE NO : 91794

COMPOUND	UNITS	SPIKE ADDED	LCSD CONC.	LCSD % REC	REC FLAG	% RPD	RPD FLAG	QC. LIMITS REC	QC. LIMITS RPD
2,4'-D	ug/L	2	2.12	106		.9		10 - 126	0 - 40
2,4,5-T	ug/L	2	2.37	119		20		32 - 130	0 - 40
2,4,5-TP (SILVEX)	ug/L	2	2.07	104		16		34 - 124	0 - 40

RPD : 0 out of 3 outside limits

Spike Recovery: 0 out of 6 outside limits

4C

PESTICIDE METHOD BLANK SUMMARY

Lab Name: GCAL

Sample ID: MB91169

Lab Code: LA024 Case No.:

Contract:

Lab Sample ID: 91169

SAS No.: SDG No.: 203033106

Matrix: Water Sulfur Cleanup: (Y/N) N

Date Extracted: 04/01/03

Date Analyzed (1): 04/02/03 Time (1): 1955

Date Analyzed (2): Time (2):

Instrument ID (1): GCS6A

Instrument ID (2):

GC Column (1): DB-608-30M ID: .53 (mm)

GC Column (2): ID: (mm)

Method: SW-846 8151A

Lab File ID: 2030402/SV6008

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATE ANALYZED	TIME ANALYZED
1.	LCS91170	91170	04/02/03	2022		
2.	LCSD91171	91171	04/02/03	2049		
3.	021-WC1-L-0328-03	20303310601	04/02/03	2117		

4C

PESTICIDE METHOD BLANK SUMMARY

Lab Name: GCAL

Sample ID: MB91792

Lab Code: LA024 Case No.:

Contract:

Lab Sample ID: 91792

SAS No.: SDG No.: 203033106

Matrix: Water Sulfur Cleanup: (Y/N) N

Date Extracted: 04/04/03

Date Analyzed (1): 04/09/03 Time (1): 1122

Date Analyzed (2): Time (2):

Instrument ID (1): GCS6A

Instrument ID (2):

GC Column (1): DB-608-30M ID: .53 (mm)

GC Column (2): ID: (mm)

Method: SW-846 8151A

Lab File ID: 2030409/SV6009

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATE ANALYZED	TIME ANALYZED
1.	LCS91793	91793	04/09/03	1148		
2.	LCSD91794	91794	04/09/03	1213		
3.	021-WC3-L-0328-03 (WATER)	20303310604	04/09/03	1239		

Report Date : 17-Apr-2003 14:34

Gulf Coast Analytical Services

INITIAL CALIBRATION DATA

Start Cal Date : 02-APR-2003 17:11
End Cal Date : 02-APR-2003 19:00
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv6.i/2030402.b/M8151.m
Cal Date : 14-Apr-2003 15:11 tls
Curve Type : Average

Calibration File Names:
Level 2: /var/chem/gcsv6.i/2030402.b/SV6003.d
Level 3: /var/chem/gcsv6.i/2030402.b/SV6004.d
Level 4: /var/chem/gcsv6.i/2030402.b/SV6005.d
Level 5: /var/chem/gcsv6.i/2030402.b/SV6006.d
Level 7: /var/chem/gcsv6.i/2030402.b/SV6002.d

Compound	50.000 Level 2	100.000 Level 3	200.000 Level 4	400.000 Level 5	12.500 Level 7	___ RRF	% RSD
7 2,4-D	157637	154740	147573	138601	147802	149271	4.955
8 2,4,5-TP	495301	524990	491607	468356	469740	489999	4.714
9 2,4,5-T	482576	475333	460737	452093	416608	457469	5.636
$ 2 DCAA	169074	167274	147368	132771	172322	157762	10.808

Report Date : 17-Apr-2003 14:34

Gulf Coast Analytical Services

INITIAL CALIBRATION DATA

Start Cal Date	: 02-APR-2003 17:11
End Cal Date	: 02-APR-2003 19:00
Quant Method	: ESTD
Origin	: Disabled
Target Version	: 3.50
Integrator	: Falcon
Method file	: /var/chem/gcsv6.i/2030402.b/M8151.m
Cal Date	: 14-Apr-2003 15:11 tls
Curve Type	: Average

```
|Average %RSD Results.                                |
|=====================================================|
|Calculated Average %RSD = 6.52809429                 |
|Maximun Average %RSD    =         20                 |
|* Passed Average %RSD Test.                          |
|_____________________________________________________|
```

Data File: /var/chem/gcsv6.i/2030402.b/SV6007.d
Report Date: 17-Apr-2003 17:09

Gulf Coast Analytical Services

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 200 PPB HERB icv
Level: LOW
Data Type: GC MULTI COMP
SpikeList File: H8151ICV.spk
Sublist File: ICV.sub
Method File: /var/chem/gcsv6.i/2030402.b/M8151.m
Misc Info:

Client SDG: 2030402
Fraction: SV

Operator: dlb
SampleType: LCS
Quant Type: ESTD

SPIKE COMPOUND	CONC ADDED UG/L	CONC RECOVERED UG/L	% RECOVERED	LIMITS
7 2,4-D	2.00	1.95	97.47	70-130
8 2,4,5-TP	2.00	2.01	100.34	70-130
9 2,4,5-T	2.00	2.00	100.19	70-130

Data File: /var/chem/gcsv6.i/2030402.b/SV6013.d
Report Date: 10-Apr-2003 17:09

Gulf Coast Analytical Services

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv6.i
Lab File ID: SV6013.d
Analysis Type: WATER
Lab Sample ID: 1400
Method: /var/chem/gcsv6.i/2030402.b/M8151.m

Injection Date: 02-APR-2003 22:11
Init. Cal. Date(s): 02-APR-2003 02-APR-2003
Init. Cal. Times: 17:11 19:00
Quant Type: ESTD

COMPOUND	RRF / AMOUNT	RF100	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 2 DCAA	157762	158961	0.010	-0.76032	15.00000	Averaged
7 2,4-D	149271	144345	0.010	3.29956	15.00000	Averaged
8 2,4,5-TP	489999	525931	0.010	-7.33310	15.00000	Averaged
9 2,4,5-T	457469	476586	0.010	-4.17886	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 3.89296
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Report Date : 17-Apr-2003 14:34

Gulf Coast Analytical Services

INITIAL CALIBRATION DATA

Start Cal Date : 09-APR-2003 08:18
End Cal Date : 09-APR-2003 10:25
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv6.i/2030409.b/M8151.m
Cal Date : 14-Apr-2003 15:06 tls
Curve Type : Average

Calibration File Names:
Level 1: /var/chem/gcsv6.i/2030409.b/SV6003.d
Level 2: /var/chem/gcsv6.i/2030409.b/SV6004.d
Level 3: /var/chem/gcsv6.i/2030409.b/SV6005.d
Level 4: /var/chem/gcsv6.i/2030409.b/SV6006.d
Level 5: /var/chem/gcsv6.i/2030409.b/SV6007.d
Level 7: /var/chem/gcsv6.i/2030409.b/SV6002.d

Compound	25.000 Level 1	50.000 Level 2	100.000 Level 3	200.000 Level 4	400.000 Level 5	12.500 Level 7	___ RRF	% RSD
7 2,4-D	48141	55125	63388	57353	57079	58598	56614	8.818
8 2,4,5-TP	179122	195961	220082	205897	193333	198763	198860	6.852
9 2,4,5-T	125254	134231	163762	170296	168964	114784	146215	16.686
$ 2 DCAA	86102	83186	86353	74178	67798	89330	81158	10.302

Report Date : 17-Apr-2003 14:34

Gulf Coast Analytical Services

INITIAL CALIBRATION DATA

Start Cal Date	: 09-APR-2003 08:18
End Cal Date	: 09-APR-2003 10:25
Quant Method	: ESTD
Origin	: Disabled
Target Version	: 3.50
Integrator	: Falcon
Method file	: /var/chem/gcsv6.i/2030409.b/M8151.m
Cal Date	: 14-Apr-2003 15:06 tls
Curve Type	: Average

```
|Average %RSD Results.                                |
|=====================================================|
|Calculated Average %RSD = 10.6645040                 |
|Maximun Average %RSD    =         20                 |
|* Passed Average %RSD Test.                          |
|_____________________________________________________|
```

Data File: /var/chem/gcsv6.i/2030409.b/SV6008.d
Report Date: 17-Apr-2003 17:10

Gulf Coast Analytical Services

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 100 PPB HERB icv
Level: LOW
Data Type: GC MULTI COMP
SpikeList File: H8151ICV.spk
Sublist File: ICV.sub
Method File: /var/chem/gcsv6.i/2030409.b/M8151.m
Misc Info:

Client SDG: 2030409
Fraction: SV

Operator: dlb
SampleType: LCS
Quant Type: ESTD

SPIKE COMPOUND	CONC ADDED UG/L	CONC RECOVERED UG/L	% RECOVERED	LIMITS
7 2,4-D	2.00	2.34	116.90	70-130
8 2,4,5-TP	2.00	2.25	112.44	70-130
9 2,4,5-T	2.00	2.58	128.86	70-130

Data File: /var/chem/gcsv6.i/2030409.b/SV6013.d
Report Date: 09-Apr-2003 15:00

Gulf Coast Analytical Services

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv6.i
Lab File ID: SV6013.d
Analysis Type: WATER
Lab Sample ID: 1400
Method: /var/chem/gcsv6.i/2030409.b/M8151.m

Injection Date: 09-APR-2003 13:04
Init. Cal. Date(s): 09-APR-2003 09-APR-2003
Init. Cal. Times: 08:18 10:25
Quant Type: ESTD

COMPOUND	RRF / AMOUNT	RF100	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 2 DCAA	81158	75780	0.010	6.62648	15.00000	Averaged
7 2,4-D	56614	54921	0.010	2.98967	15.00000	Averaged
8 2,4,5-TP	198860	191022	0.010	3.94106	15.00000	Averaged
9 2,4,5-T	146215	163305	0.010	-11.68776	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 6.31124
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL

Sample ID: 021-WC1-L-0328-03

Lab Code: LA024 Case No.:

Contract:

Matrix: (soil / water) Water

SAS No.: SDG No.: 203033106

Level: (low / med) % Solids:

Lab Sample ID: 20303310601

Date Received: 03/29/03 Time: 1050

Date Collected: 03/28/03 Time: 1348

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum	0.23	mg/L		0.016	0.20	SW-846 6010B	P
Antimony	0.0060	mg/L	U	0.0046	0.0060	SW-846 6010B	P
Arsenic	0.010	mg/L	U	0.0015	0.010	SW-846 6010B	P
Barium	0.031	mg/L	B	0.00050	0.20	SW-846 6010B	P
Beryllium	0.0040	mg/L	U	0.00020	0.0040	SW-846 6010B	P
Cadmium	0.00089	mg/L	B	0.00020	0.0050	SW-846 6010B	P
Calcium	70.9	mg/L		0.032	5.00	SW-846 6010B	P
Chromium	0.010	mg/L		0.00050	0.0050	SW-846 6010B	P
Cobalt	0.0014	mg/L	B	0.00070	0.050	SW-846 6010B	P
Copper	0.042	mg/L		0.0026	0.025	SW-846 6010B	P
Iron	3.18	mg/L		0.011	0.10	SW-846 6010B	P
Lead	0.15	mg/L		0.0016	0.0030	SW-846 6010B	P
Magnesium	5.78	mg/L		0.025	5.00	SW-846 6010B	P
Manganese	0.25	mg/L		0.00020	0.015	SW-846 6010B	P
Mercury	0.00004	mg/L	B	0.00003	0.00020	SW-846 7470A	AV
Nickel	0.0084	mg/L	B	0.0025	0.040	SW-846 6010B	P
Potassium	23.0	mg/L		0.049	5.00	SW-846 6010B	P
Selenium	0.0050	mg/L	U	0.0047	0.0050	SW-846 6010B	P
Silver	0.0050	mg/L	U	0.00040	0.0050	SW-846 6010B	P
Sodium	220	mg/L		0.17	5.00	SW-846 6010B	P
Thallium	0.0020	mg/L	U	0.0012	0.0020	SW-846 6010B	P
Vanadium	0.050	mg/L	U	0.0011	0.050	SW-846 6010B	P
Zinc	0.81	mg/L		0.0052	0.020	SW-846 6010B	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL

Sample ID: 021-WC3-L-0328-03 (WATER)

Lab Code: LA024 Case No.:

Contract:

Matrix: (soil / water) Water

SAS No.: SDG No.: 203033106

Level: (low / med) % Solids:

Lab Sample ID: 20303310603

Date Received: 03/29/03 Time: 1050

Date Collected: 03/28/03 Time: 1410

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum	1.88	mg/L	B	0.16	2.00	SW-846 6010B	P
Antimony	0.060	mg/L	U	0.046	0.060	SW-846 6010B	P
Arsenic	0.10	mg/L	U	0.015	0.10	SW-846 6010B	P
Barium	0.21	mg/L	B	0.0050	2.00	SW-846 6010B	P
Beryllium	0.040	mg/L	U	0.0020	0.040	SW-846 6010B	P
Cadmium	0.014	mg/L	B	0.0020	0.050	SW-846 6010B	P
Calcium	117	mg/L		0.32	50.0	SW-846 6010B	P
Chromium	0.030	mg/L	B	0.0050	0.050	SW-846 6010B	P
Cobalt	0.50	mg/L	U	0.0070	0.50	SW-846 6010B	P
Copper	0.21	mg/L	B	0.026	0.25	SW-846 6010B	P
Iron	41.5	mg/L		0.11	1.00	SW-846 6010B	P
Lead	0.42	mg/L		0.016	0.030	SW-846 6010B	P
Magnesium	7.82	mg/L	B	0.25	50.0	SW-846 6010B	P
Manganese	0.33	mg/L		0.0020	0.15	SW-846 6010B	P
Mercury	0.00047	mg/L	B	0.00030	0.00200	SW-846 7470A	AV
Nickel	0.40	mg/L	U	0.025	0.40	SW-846 6010B	P
Potassium	25.4	mg/L	B	0.49	50.0	SW-846 6010B	P
Selenium	0.050	mg/L	U	0.047	0.050	SW-846 6010B	P
Silver	0.050	mg/L	U	0.0040	0.050	SW-846 6010B	P
Sodium	44.3	mg/L	B	1.74	50.0	SW-846 6010B	P
Thallium	0.020	mg/L	U	0.012	0.020	SW-846 6010B	P
Vanadium	0.50	mg/L	U	0.011	0.50	SW-846 6010B	P
Zinc	0.45	mg/L		0.052	0.20	SW-846 6010B	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL
Sample ID: 021-WC5-S-0402-03 (OIL)
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Soil
SAS No.:
SDG No.: 203033106
Level: (low / med)
% Solids: 96.18
Lab Sample ID: 20303310605
Date Received: 04/03/03
Time: 0900
Date Collected: 04/02/03
Time: 1300

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum	28.0	mg/kg		0.65	8.32	SW-846 6010B	P
Antimony	2.50	mg/kg	U	0.19	2.50	SW-846 6010B	P
Arsenic	1.66	mg/kg	U	0.060	1.66	SW-846 6010B	P
Barium	13.3	mg/kg		0.022	0.42	SW-846 6010B	P
Beryllium	0.21	mg/kg	U	0.0052	0.21	SW-846 6010B	P
Cadmium	0.86	mg/kg		0.0083	0.21	SW-846 6010B	P
Calcium	304	mg/kg		1.31	2.08	SW-846 6010B	P
Chromium	2.52	mg/kg		0.019	0.42	SW-846 6010B	P
Cobalt	0.42	mg/kg	U	0.025	0.42	SW-846 6010B	P
Copper	8.64	mg/kg		0.11	0.42	SW-846 6010B	P
Iron	310	mg/kg		0.48	2.08	SW-846 6010B	P
Lead	12.6	mg/kg		0.065	0.62	SW-846 6010B	P
Magnesium	3.10	mg/kg		1.02	2.08	SW-846 6010B	P
Manganese	1.37	mg/kg		0.0052	0.62	SW-846 6010B	P
Mercury	0.0065	mg/kg	B	0.0034	0.031	SW-846 7471A	AV
Nickel	0.20	mg/kg	B	0.10	1.66	SW-846 6010B	P
Potassium	4.69	mg/kg	B	2.02	8.32	SW-846 6010B	P
Selenium	1.19	mg/kg	B	0.19	1.66	SW-846 6010B	P
Silver	0.42	mg/kg	U	0.019	0.42	SW-846 6010B	P
Sodium	12.6	mg/kg	B	7.23	41.6	SW-846 6010B	P
Thallium	0.26	mg/kg	B	0.051	0.83	SW-846 6010B	P
Vanadium	0.32	mg/kg	B	0.048	0.83	SW-846 6010B	P
Zinc	9.61	mg/kg		0.22	0.83	SW-846 6010B	P

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 203033106
Calibration Source: 106-4-8 CPI/EXAXOL
Instrument ID: ICP5 ICAL ID: 3
Date Analyzed: 04/03/03 Time: 1237

INITIAL CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Antimony	1.00	0.980	98	mg/L	SW-846 6010B	P
Arsenic	1.00	1.00	100	mg/L	SW-846 6010B	P
Beryllium	1.00	0.980	98	mg/L	SW-846 6010B	P
Cadmium	1.00	0.990	99	mg/L	SW-846 6010B	P
Calcium	1.00	1.06	106	mg/L	SW-846 6010B	P
Chromium	1.00	1.00	100	mg/L	SW-846 6010B	P
Cobalt	1.00	1.01	101	mg/L	SW-846 6010B	P
Copper	1.00	0.950	95	mg/L	SW-846 6010B	P
Iron	1.00	1.10	110	mg/L	SW-846 6010B	P
Lead	1.00	1.00	100	mg/L	SW-846 6010B	P
Magnesium	1.00	0.980	98	mg/L	SW-846 6010B	P
Manganese	1.00	0.990	99	mg/L	SW-846 6010B	P
Molybdenum	1.00	1.01	101	mg/L	SW-846 6010B	P
Nickel	1.00	1.01	101	mg/L	SW-846 6010B	P
Selenium	1.00	0.970	97	mg/L	SW-846 6010B	P
Silver	1.00	1.01	101	mg/L	SW-846 6010B	P
Strontium	1.00	0.930	93	mg/L	SW-846 6010B	P
Thallium	1.00	0.970	97	mg/L	SW-846 6010B	P
Titanium	1.00	0.970	97	mg/L	SW-846 6010B	P
Vanadium	1.00	0.990	99	mg/L	SW-846 6010B	P
Zinc	1.00	0.980	98	mg/L	SW-846 6010B	P

ICV CONTROL LIMITS EPA 6010B = 90-100 EPA 200.7 = 95-105

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 203033106
Calibration Source: 106-4-3
Instrument ID: ICP5 ICAL ID: 3
Date Analyzed: 04/03/03 Time: 1244

INITIAL CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	10.0	10.2	102	mg/L	SW-846 6010B	P
Barium	1.00	1.02	102	mg/L	SW-846 6010B	P
Boron	5.00	4.67	93	mg/L	SW-846 6010B	P
Potassium	10.0	10.4	104	mg/L	SW-846 6010B	P
Sodium	10.0	10.4	104	mg/L	SW-846 6010B	P
Tin	1.00	0.860	86	mg/L	SW-846 6010B	P
Zirconium	1.00	0.940	94	mg/L	SW-846 6010B	P

ICV CONTROL LIMITS EPA 6010B = 90-100 EPA 200.7 = 95-105

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 203033106
Calibration Source: 106-4-4 INORGANIC VENTURES
Instrument ID: ICP5 ICAL ID: 3
Date Analyzed: 04/03/03 Time: 1311

CONTINUING CALIBRATION VERIFICATION

Analyte	True	Found	CAL %R	Units	Method	Type
Aluminum	5.00	5.17	103	mg/L	SW-846 6010B	P
Arsenic	0.500	0.520	105	mg/L	SW-846 6010B	P
Barium	0.500	0.520	104	mg/L	SW-846 6010B	P
Beryllium	0.500	0.520	104	mg/L	SW-846 6010B	P
Cadmium	0.500	0.520	104	mg/L	SW-846 6010B	P
Calcium	5.00	5.13	103	mg/L	SW-846 6010B	P
Chromium	0.500	0.520	104	mg/L	SW-846 6010B	P
Cobalt	0.500	0.520	104	mg/L	SW-846 6010B	P
Copper	0.500	0.510	103	mg/L	SW-846 6010B	P
Iron	5.00	5.20	104	mg/L	SW-846 6010B	P
Lead	0.500	0.510	101	mg/L	SW-846 6010B	P
Magnesium	5.00	5.14	103	mg/L	SW-846 6010B	P
Manganese	0.500	0.520	103	mg/L	SW-846 6010B	P
Nickel	0.500	0.520	104	mg/L	SW-846 6010B	P
Potassium	10.0	10.3	103	mg/L	SW-846 6010B	P
Selenium	0.500	0.510	102	mg/L	SW-846 6010B	P
Silver	0.500	0.510	103	mg/L	SW-846 6010B	P
Sodium	20.0	20.6	103	mg/L	SW-846 6010B	P
Strontium	0.500	0.510	102	mg/L	SW-846 6010B	P
Thallium	0.500	0.500	100	mg/L	SW-846 6010B	P
Vanadium	0.500	0.520	103	mg/L	SW-846 6010B	P
Zinc	0.500	0.520	104	mg/L	SW-846 6010B	P
Zirconium	0.500	0.500	100	mg/L	SW-846 6010B	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-100 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 203033106
Calibration Source: 106-4-5
Instrument ID: ICP5 ICAL ID: 3
Date Analyzed: 04/03/03 Time: 1318

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Antimony	0.500	0.510	101	mg/L	SW-846 6010B	P
Boron	2.50	2.55	102	mg/L	SW-846 6010B	P
Molybdenum	0.500	0.520	104	mg/L	SW-846 6010B	P
Tin	0.500	0.510	102	mg/L	SW-846 6010B	P
Titanium	0.500	0.510	101	mg/L	SW-846 6010B	P
Zirconium	0.500	0.560	113	mg/L	SW-846 6010B	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-100 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 203033106
Calibration Source: 106-4-4 INORGANIC VENTURES
Instrument ID: ICP5 ICAL ID: 3
Date Analyzed: 04/03/03 Time: 1517

CONTINUING CALIBRATION VERIFICATION

Analyte	True	Found	CAL %R	Units	Method	Type
Aluminum	5.00	5.32	106	mg/L	SW-846 6010B	P
Arsenic	0.500	0.520	104	mg/L	SW-846 6010B	P
Barium	0.500	0.520	104	mg/L	SW-846 6010B	P
Beryllium	0.500	0.520	104	mg/L	SW-846 6010B	P
Cadmium	0.500	0.520	104	mg/L	SW-846 6010B	P
Calcium	5.00	5.30	106	mg/L	SW-846 6010B	P
Chromium	0.500	0.520	104	mg/L	SW-846 6010B	P
Cobalt	0.500	0.520	104	mg/L	SW-846 6010B	P
Copper	0.500	0.510	103	mg/L	SW-846 6010B	P
Iron	5.00	5.41	108	mg/L	SW-846 6010B	P
Lead	0.500	0.500	100	mg/L	SW-846 6010B	P
Magnesium	5.00	5.07	101	mg/L	SW-846 6010B	P
Manganese	0.500	0.520	104	mg/L	SW-846 6010B	P
Nickel	0.500	0.520	105	mg/L	SW-846 6010B	P
Potassium	10.0	10.7	107	mg/L	SW-846 6010B	P
Selenium	0.500	0.510	101	mg/L	SW-846 6010B	P
Silver	0.500	0.520	103	mg/L	SW-846 6010B	P
Sodium	20.0	21.7	109	mg/L	SW-846 6010B	P
Strontium	0.500	0.500	101	mg/L	SW-846 6010B	P
Thallium	0.500	0.500	100	mg/L	SW-846 6010B	P
Vanadium	0.500	0.520	104	mg/L	SW-846 6010B	P
Zinc	0.500	0.520	104	mg/L	SW-846 6010B	P
Zirconium	0.500	0.500	100	mg/L	SW-846 6010B	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-100 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 203033106
Calibration Source: 106-4-5
Instrument ID: ICP5 ICAL ID: 3
Date Analyzed: 04/03/03 Time: 1524

CONTINUING CALIBRATION VERIFICATION

Analyte	True	Found	CAL %R	Units	Method	Type
Antimony	0.500	0.520	103	mg/L	SW-846 6010B	P
Boron	2.50	2.57	103	mg/L	SW-846 6010B	P
Molybdenum	0.500	0.520	104	mg/L	SW-846 6010B	P
Tin	0.500	0.520	104	mg/L	SW-846 6010B	P
Titanium	0.500	0.520	103	mg/L	SW-846 6010B	P
Zirconium	0.500	0.560	112	mg/L	SW-846 6010B	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-100 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 203033106
Calibration Source: 106-6-3 CPI/EXAXOL
Instrument ID: ICP5 ICAL ID: 4
Date Analyzed: 04/10/03 Time: 1130

INITIAL CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Antimony	1.00	1.01	101	mg/L	SW-846 6010B	P
Arsenic	1.00	1.00	100	mg/L	SW-846 6010B	P
Beryllium	1.00	0.970	97	mg/L	SW-846 6010B	P
Cadmium	1.00	0.960	96	mg/L	SW-846 6010B	P
Calcium	1.00	1.09	109	mg/L	SW-846 6010B	P
Chromium	1.00	0.980	98	mg/L	SW-846 6010B	P
Cobalt	1.00	0.990	99	mg/L	SW-846 6010B	P
Copper	1.00	0.950	95	mg/L	SW-846 6010B	P
Iron	1.00	1.04	104	mg/L	SW-846 6010B	P
Lead	1.00	1.02	102	mg/L	SW-846 6010B	P
Lithium	1.00	1.09	109	mg/L	SW-846 6010B	P
Magnesium	1.00	0.980	98	mg/L	SW-846 6010B	P
Manganese	1.00	0.990	99	mg/L	SW-846 6010B	P
Molybdenum	1.00	1.05	105	mg/L	SW-846 6010B	P
Nickel	1.00	0.990	99	mg/L	SW-846 6010B	P
Selenium	1.00	0.970	97	mg/L	SW-846 6010B	P
Silver	1.00	1.00	100	mg/L	SW-846 6010B	P
Strontium	1.00	0.970	97	mg/L	SW-846 6010B	P
Thallium	1.00	0.960	96	mg/L	SW-846 6010B	P
Titanium	1.00	1.01	101	mg/L	SW-846 6010B	P
Vanadium	1.00	0.970	97	mg/L	SW-846 6010B	P
Zinc	1.00	0.960	96	mg/L	SW-846 6010B	P

ICV CONTROL LIMITS EPA 6010B = 90-100 EPA 200.7 = 95-105

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203033106

Calibration Source: 106-6-1 Instrument ID: ICP5 ICAL ID: 4

Date Analyzed: 04/10/03 Time: 1138

INITIAL CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	10.0	10.0	100	mg/L	SW-846 6010B	P
Barium	1.00	0.980	98	mg/L	SW-846 6010B	P
Boron	5.00	4.96	99	mg/L	SW-846 6010B	P
Potassium	10.0	10.1	101	mg/L	SW-846 6010B	P
Sodium	10.0	10.2	102	mg/L	SW-846 6010B	P
Tin	1.00	0.970	97	mg/L	SW-846 6010B	P
Zirconium	1.00	0.940	94	mg/L	SW-846 6010B	P

ICV CONTROL LIMITS EPA 6010B = 90-100 EPA 200.7 = 95-105

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 203033106
Calibration Source: 106-6-2 INORGANIC VENTURES
Instrument ID: ICP5 ICAL ID: 4
Date Analyzed: 04/10/03 Time: 1223

CONTINUING CALIBRATION VERIFICATION

Analyte	True	Found	CAL %R	Units	Method	Type
Aluminum	5.00	5.12	102	mg/L	SW-846 6010B	P
Arsenic	0.500	0.520	104	mg/L	SW-846 6010B	P
Barium	0.500	0.490	98	mg/L	SW-846 6010B	P
Beryllium	0.500	0.500	99	mg/L	SW-846 6010B	P
Cadmium	0.500	0.500	99	mg/L	SW-846 6010B	P
Calcium	5.00	5.08	102	mg/L	SW-846 6010B	P
Chromium	0.500	0.500	99	mg/L	SW-846 6010B	P
Cobalt	0.500	0.490	99	mg/L	SW-846 6010B	P
Copper	0.500	0.490	97	mg/L	SW-846 6010B	P
Iron	5.00	5.10	102	mg/L	SW-846 6010B	P
Lead	0.500	0.500	101	mg/L	SW-846 6010B	P
Lithium	0.500	0.510	102	mg/L	SW-846 6010B	P
Magnesium	5.00	4.91	98	mg/L	SW-846 6010B	P
Manganese	0.500	0.490	99	mg/L	SW-846 6010B	P
Nickel	0.500	0.500	100	mg/L	SW-846 6010B	P
Potassium	10.0	10.2	102	mg/L	SW-846 6010B	P
Selenium	0.500	0.490	99	mg/L	SW-846 6010B	P
Silver	0.500	0.490	98	mg/L	SW-846 6010B	P
Sodium	20.0	20.5	102	mg/L	SW-846 6010B	P
Strontium	0.500	0.490	98	mg/L	SW-846 6010B	P
Thallium	0.500	0.480	95	mg/L	SW-846 6010B	P
Vanadium	0.500	0.490	97	mg/L	SW-846 6010B	P
Zinc	0.500	0.500	100	mg/L	SW-846 6010B	P
Zirconium	0.500	0.490	97	mg/L	SW-846 6010B	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-100 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 203033106
Calibration Source: 106-4-5
Instrument ID: ICP5 ICAL ID: 4
Date Analyzed: 04/10/03 Time: 1230

CONTINUING CALIBRATION VERIFICATION

Analyte	True	Found	CAL %R	Units	Method	Type
Antimony	0.500	0.520	105	mg/L	SW-846 6010B	P
Boron	2.50	2.60	104	mg/L	SW-846 6010B	P
Molybdenum	0.500	0.520	104	mg/L	SW-846 6010B	P
Tin	0.500	0.520	104	mg/L	SW-846 6010B	P
Titanium	0.500	0.510	102	mg/L	SW-846 6010B	P
Zirconium	0.500	0.530	105	mg/L	SW-846 6010B	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-100 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 203033106
Calibration Source: 106-6-2 INORGANIC VENTURES
Instrument ID: ICP5 ICAL ID: 4
Date Analyzed: 04/10/03 Time: 1843

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	5.00	4.99	100	mg/L	SW-846 6010B	P
Arsenic	0.500	0.480	97	mg/L	SW-846 6010B	P
Barium	0.500	0.480	95	mg/L	SW-846 6010B	P
Beryllium	0.500	0.480	96	mg/L	SW-846 6010B	P
Cadmium	0.500	0.470	95	mg/L	SW-846 6010B	P
Calcium	5.00	4.89	98	mg/L	SW-846 6010B	P
Chromium	0.500	0.480	96	mg/L	SW-846 6010B	P
Cobalt	0.500	0.480	96	mg/L	SW-846 6010B	P
Copper	0.500	0.470	94	mg/L	SW-846 6010B	P
Iron	5.00	5.02	100	mg/L	SW-846 6010B	P
Lead	0.500	0.490	98	mg/L	SW-846 6010B	P
Magnesium	5.00	4.75	95	mg/L	SW-846 6010B	P
Manganese	0.500	0.480	96	mg/L	SW-846 6010B	P
Nickel	0.500	0.480	97	mg/L	SW-846 6010B	P
Potassium	10.0	10.2	102	mg/L	SW-846 6010B	P
Selenium	0.500	0.490	98	mg/L	SW-846 6010B	P
Silver	0.500	0.480	96	mg/L	SW-846 6010B	P
Sodium	20.0	20.2	101	mg/L	SW-846 6010B	P
Strontium	0.500	0.470	95	mg/L	SW-846 6010B	P
Thallium	0.500	0.500	100	mg/L	SW-846 6010B	P
Vanadium	0.500	0.470	95	mg/L	SW-846 6010B	P
Zinc	0.500	0.480	95	mg/L	SW-846 6010B	P
Zirconium	0.500	0.460	93	mg/L	SW-846 6010B	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-100 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 203033106
Calibration Source: 106-4-5
Instrument ID: ICP5 ICAL ID: 4
Date Analyzed: 04/10/03 Time: 1851

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Antimony	0.500	0.500	100	mg/L	SW-846 6010B	P
Boron	2.50	2.53	101	mg/L	SW-846 6010B	P
Molybdenum	0.500	0.510	101	mg/L	SW-846 6010B	P
Tin	0.500	0.500	101	mg/L	SW-846 6010B	P
Titanium	0.500	0.490	99	mg/L	SW-846 6010B	P
Zirconium	0.500	0.510	103	mg/L	SW-846 6010B	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-100 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 203033106
Calibration Source: 106-6-2 INORGANIC VENTURES
Instrument ID: ICP5 ICAL ID: 4
Date Analyzed: 04/10/03 Time: 2018

CONTINUING CALIBRATION VERIFICATION

Analyte	True	Found	CAL %R	Units	Method	Type
Aluminum	5.00	4.98	100	mg/L	SW-846 6010B	P
Arsenic	0.500	0.480	95	mg/L	SW-846 6010B	P
Barium	0.500	0.470	94	mg/L	SW-846 6010B	P
Beryllium	0.500	0.470	95	mg/L	SW-846 6010B	P
Cadmium	0.500	0.470	93	mg/L	SW-846 6010B	P
Calcium	5.00	4.83	97	mg/L	SW-846 6010B	P
Chromium	0.500	0.470	94	mg/L	SW-846 6010B	P
Cobalt	0.500	0.470	95	mg/L	SW-846 6010B	P
Copper	0.500	0.480	95	mg/L	SW-846 6010B	P
Iron	5.00	5.08	102	mg/L	SW-846 6010B	P
Lead	0.500	0.480	96	mg/L	SW-846 6010B	P
Magnesium	5.00	4.55	91	mg/L	SW-846 6010B	P
Manganese	0.500	0.480	95	mg/L	SW-846 6010B	P
Nickel	0.500	0.480	95	mg/L	SW-846 6010B	P
Potassium	10.0	10.1	101	mg/L	SW-846 6010B	P
Selenium	0.500	0.480	96	mg/L	SW-846 6010B	P
Silver	0.500	0.490	98	mg/L	SW-846 6010B	P
Sodium	20.0	20.0	100	mg/L	SW-846 6010B	P
Strontium	0.500	0.450	89	mg/L	SW-846 6010B	P
Thallium	0.500	0.480	97	mg/L	SW-846 6010B	P
Vanadium	0.500	0.460	93	mg/L	SW-846 6010B	P
Zinc	0.500	0.470	95	mg/L	SW-846 6010B	P
Zirconium	0.500	0.450	90	mg/L	SW-846 6010B	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-100 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 203033106
Calibration Source: 106-4-5
Instrument ID: ICP5 ICAL ID: 4
Date Analyzed: 04/10/03 Time: 2025

CONTINUING CALIBRATION VERIFICATION

Analyte	True	Found	CAL %R	Units	Method	Type
Antimony	0.500	0.500	99	mg/L	SW-846 6010B	P
Boron	2.50	2.58	103	mg/L	SW-846 6010B	P
Molybdenum	0.500	0.500	101	mg/L	SW-846 6010B	P
Tin	0.500	0.500	99	mg/L	SW-846 6010B	P
Titanium	0.500	0.490	98	mg/L	SW-846 6010B	P
Zirconium	0.500	0.510	102	mg/L	SW-846 6010B	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-100 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 203033106
Calibration Source: 106-6-2 INORGANIC VENTURES
Instrument ID: ICP5 ICAL ID: 4
Date Analyzed: 04/10/03 Time: 2151

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	5.00	4.90	98	mg/L	SW-846 6010B	P
Arsenic	0.500	0.490	99	mg/L	SW-846 6010B	P
Barium	0.500	0.480	96	mg/L	SW-846 6010B	P
Beryllium	0.500	0.480	96	mg/L	SW-846 6010B	P
Cadmium	0.500	0.480	96	mg/L	SW-846 6010B	P
Calcium	5.00	4.80	96	mg/L	SW-846 6010B	P
Chromium	0.500	0.480	96	mg/L	SW-846 6010B	P
Cobalt	0.500	0.490	97	mg/L	SW-846 6010B	P
Copper	0.500	0.470	93	mg/L	SW-846 6010B	P
Iron	5.00	5.01	100	mg/L	SW-846 6010B	P
Lead	0.500	0.490	98	mg/L	SW-846 6010B	P
Magnesium	5.00	4.73	95	mg/L	SW-846 6010B	P
Manganese	0.500	0.480	96	mg/L	SW-846 6010B	P
Nickel	0.500	0.490	97	mg/L	SW-846 6010B	P
Potassium	10.0	10.2	102	mg/L	SW-846 6010B	P
Selenium	0.500	0.490	99	mg/L	SW-846 6010B	P
Silver	0.500	0.480	96	mg/L	SW-846 6010B	P
Sodium	20.0	20.4	102	mg/L	SW-846 6010B	P
Strontium	0.500	0.470	95	mg/L	SW-846 6010B	P
Thallium	0.500	0.490	98	mg/L	SW-846 6010B	P
Vanadium	0.500	0.480	95	mg/L	SW-846 6010B	P
Zinc	0.500	0.480	96	mg/L	SW-846 6010B	P
Zirconium	0.500	0.460	93	mg/L	SW-846 6010B	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-100 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203033106

Calibration Source: 106-4-5 Instrument ID: ICP5 ICAL ID: 4

Date Analyzed: 04/10/03 Time: 2158

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Antimony	0.500	0.500	100	mg/L	SW-846 6010B	P
Boron	2.50	2.65	106	mg/L	SW-846 6010B	P
Molybdenum	0.500	0.510	102	mg/L	SW-846 6010B	P
Tin	0.500	0.500	100	mg/L	SW-846 6010B	P
Titanium	0.500	0.490	99	mg/L	SW-846 6010B	P
Zirconium	0.500	0.520	104	mg/L	SW-846 6010B	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-100 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 203033106
Calibration Source: 106-1-2 CPI
Instrument ID: FIMS1 ICAL ID: 1
Date Analyzed: 04/02/03 Time: 1029

INITIAL CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Mercury	0.00500	0.00490	98	mg/L	SW-846 7470A	AV

ICV CONTROL LIMITS EPA 6010B = 90-100 EPA 200.7 = 95-105

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 203033106
Calibration Source: 106-1-3 EXAXOL
Instrument ID: FIMS1 ICAL ID: 1
Date Analyzed: 04/02/03 Time: 1033

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Mercury	0.00500	0.00520	104	mg/L	SW-846 7470A	AV

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-100 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 203033106
Calibration Source: 106-1-3 EXAXOL
Instrument ID: FIMS1 ICAL ID: 1
Date Analyzed: 04/02/03 Time: 1053

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Mercury	0.00500	0.00514	103	mg/L	SW-846 7470A	AV

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-100 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 203033106
Calibration Source: 106-1-3 EXAXOL
Instrument ID: FIMS1 ICAL ID: 1
Date Analyzed: 04/02/03 Time: 1114

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Mercury	0.00500	0.00511	102	mg/L	SW-846 7470A	AV

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-100 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 203033106
Calibration Source: 106-1-2 CPI
Instrument ID: FIMS1 ICAL ID: 2
Date Analyzed: 04/11/03 Time: 1138

INITIAL CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Mercury	0.00500	0.00478	96	mg/L	SW-846 7471A	AV

ICV CONTROL LIMITS EPA 6010B = 90-100 EPA 200.7 = 95-105

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 203033106
Calibration Source: 106-1-3 EXAXOL
Instrument ID: FIMS1 ICAL ID: 2
Date Analyzed: 04/11/03 Time: 1141

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Mercury	0.00500	0.00489	98	mg/L	SW-846 7471A	AV

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-100 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 203033106
Calibration Source: 106-1-3 EXAXOL
Instrument ID: FIMS1 ICAL ID: 2
Date Analyzed: 04/11/03 Time: 1202

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Mercury	0.00500	0.00490	98	mg/L	SW-846 7471A	AV

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-100 EPA 7470/7471 AND 7XXX = 80-120

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203033106

Lab Sample ID: ICB

ICAL ID: 3

Lab Sample DESC: ICB FOR HBN 255442 [ICP/1867]

Preparation Blank Matrix: (soil / water)

Instrument ID: ICP5

Date Analyzed: 04/03/03 Time: 1252

INITIAL CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Aluminum	0.20	U	mg/L	0.016	0.20	SW-846 6010B	P
Antimony	0.060	U	mg/L	0.0046	0.060	SW-846 6010B	P
Arsenic	0.0044	B	mg/L	0.0015	0.040	SW-846 6010B	P
Barium	0.010	U	mg/L	0.00050	0.010	SW-846 6010B	P
Beryllium	0.0050	U	mg/L	0.00020	0.0050	SW-846 6010B	P
Cadmium	0.00063	B	mg/L	0.00020	0.0050	SW-846 6010B	P
Calcium	0.050	U	mg/L	0.032	0.050	SW-846 6010B	P
Chromium	0.010	U	mg/L	0.00050	0.010	SW-846 6010B	P
Cobalt	0.010	U	mg/L	0.00070	0.010	SW-846 6010B	P
Copper	0.0084	B	mg/L	0.0026	0.010	SW-846 6010B	P
Iron	0.050	U	mg/L	0.011	0.050	SW-846 6010B	P
Lead	0.0024	B	mg/L	0.0016	0.015	SW-846 6010B	P
Magnesium	0.050	U	mg/L	0.025	0.050	SW-846 6010B	P
Manganese	0.015	U	mg/L	0.00020	0.015	SW-846 6010B	P
Nickel	0.040	U	mg/L	0.0025	0.040	SW-846 6010B	P
Potassium	0.059	B	mg/L	0.049	0.20	SW-846 6010B	P
Selenium	0.040	U	mg/L	0.0047	0.040	SW-846 6010B	P
Silver	0.010	U	mg/L	0.00040	0.010	SW-846 6010B	P
Sodium	1.00	U	mg/L	0.17	1.00	SW-846 6010B	P
Thallium	0.020	U	mg/L	0.0012	0.020	SW-846 6010B	P
Vanadium	0.020	U	mg/L	0.0011	0.020	SW-846 6010B	P
Zinc	0.020	U	mg/L	0.0052	0.020	SW-846 6010B	P

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203033106

Lab Sample ID: CCB

ICAL ID: 3

Lab Sample DESC: CCB FOR HBN 255442 [ICP/1867]

Preparation Blank Matrix: (soil / water)

Instrument ID: ICP5

Date Analyzed: 04/03/03 Time: 1326

CONTINUING CALIBRATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Aluminum	0.20	U	mg/L	0.016	0.20	SW-846 6010B	P
Antimony	0.060	U	mg/L	0.0046	0.060	SW-846 6010B	P
Arsenic	0.0049	B	mg/L	0.0015	0.040	SW-846 6010B	P
Barium	0.010	U	mg/L	0.00050	0.010	SW-846 6010B	P
Beryllium	0.0050	U	mg/L	0.00020	0.0050	SW-846 6010B	P
Cadmium	0.00094	B	mg/L	0.00020	0.0050	SW-846 6010B	P
Calcium	0.050	U	mg/L	0.032	0.050	SW-846 6010B	P
Chromium	0.010	U	mg/L	0.00050	0.010	SW-846 6010B	P
Cobalt	0.010	U	mg/L	0.00070	0.010	SW-846 6010B	P
Copper	0.0064	B	mg/L	0.0026	0.010	SW-846 6010B	P
Iron	0.050	U	mg/L	0.011	0.050	SW-846 6010B	P
Lead	0.0022	B	mg/L	0.0016	0.015	SW-846 6010B	P
Magnesium	0.050	U	mg/L	0.025	0.050	SW-846 6010B	P
Manganese	0.015	U	mg/L	0.00020	0.015	SW-846 6010B	P
Nickel	0.040	U	mg/L	0.0025	0.040	SW-846 6010B	P
Potassium	0.20	U	mg/L	0.049	0.20	SW-846 6010B	P
Selenium	0.040	U	mg/L	0.0047	0.040	SW-846 6010B	P
Silver	0.010	U	mg/L	0.00040	0.010	SW-846 6010B	P
Sodium	1.00	U	mg/L	0.17	1.00	SW-846 6010B	P
Thallium	0.020	U	mg/L	0.0012	0.020	SW-846 6010B	P
Vanadium	0.020	U	mg/L	0.0011	0.020	SW-846 6010B	P
Zinc	0.020	U	mg/L	0.0052	0.020	SW-846 6010B	P

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203033106

Lab Sample ID: 91321

ICAL ID: 3

Lab Sample DESC: MB91321

Preparation Blank Matrix: (soil / water) Water

Instrument ID: ICP5

Date Analyzed: 04/03/03 Time: 1333

PREPARATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Aluminum	0.20	U	mg/L	0.016	0.20	SW-846 6010B	P
Antimony	0.0060	U	mg/L	0.0046	0.0060	SW-846 6010B	P
Arsenic	0.0032	B	mg/L	0.0015	0.010	SW-846 6010B	P
Barium	0.20	U	mg/L	0.00050	0.20	SW-846 6010B	P
Beryllium	0.0040	U	mg/L	0.00020	0.0040	SW-846 6010B	P
Cadmium	0.00024	B	mg/L	0.00020	0.0050	SW-846 6010B	P
Calcium	5.00	U	mg/L	0.032	5.00	SW-846 6010B	P
Chromium	0.0050	U	mg/L	0.00050	0.0050	SW-846 6010B	P
Cobalt	0.050	U	mg/L	0.00070	0.050	SW-846 6010B	P
Copper	0.0054	B	mg/L	0.0026	0.025	SW-846 6010B	P
Iron	0.10	U	mg/L	0.011	0.10	SW-846 6010B	P
Lead	0.0030	U	mg/L	0.0016	0.0030	SW-846 6010B	P
Magnesium	5.00	U	mg/L	0.025	5.00	SW-846 6010B	P
Manganese	0.015	U	mg/L	0.00020	0.015	SW-846 6010B	P
Nickel	0.040	U	mg/L	0.0025	0.040	SW-846 6010B	P
Potassium	5.00	U	mg/L	0.049	5.00	SW-846 6010B	P
Selenium	0.0050	U	mg/L	0.0047	0.0050	SW-846 6010B	P
Silver	0.0050	U	mg/L	0.00040	0.0050	SW-846 6010B	P
Sodium	5.00	U	mg/L	0.17	5.00	SW-846 6010B	P
Thallium	0.0020	U	mg/L	0.0012	0.0020	SW-846 6010B	P
Vanadium	0.050	U	mg/L	0.0011	0.050	SW-846 6010B	P
Zinc	0.020	U	mg/L	0.0052	0.020	SW-846 6010B	P

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203033106

Lab Sample ID: CCB

ICAL ID: 3

Lab Sample DESC: CCB FOR HBN 255442 [ICP/1867]

Preparation Blank Matrix: (soil / water)

Instrument ID: ICP5

Date Analyzed: 04/03/03 Time: 1531

CONTINUING CALIBRATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Aluminum	0.20	U	mg/L	0.016	0.20	SW-846 6010B	P
Antimony	0.060	U	mg/L	0.0046	0.060	SW-846 6010B	P
Arsenic	0.0019	B	mg/L	0.0015	0.040	SW-846 6010B	P
Barium	0.010	U	mg/L	0.00050	0.010	SW-846 6010B	P
Beryllium	0.0050	U	mg/L	0.00020	0.0050	SW-846 6010B	P
Cadmium	0.0050	U	mg/L	0.00020	0.0050	SW-846 6010B	P
Calcium	0.050	U	mg/L	0.032	0.050	SW-846 6010B	P
Chromium	0.010	U	mg/L	0.00050	0.010	SW-846 6010B	P
Cobalt	0.010	U	mg/L	0.00070	0.010	SW-846 6010B	P
Copper	0.0033	B	mg/L	0.0026	0.010	SW-846 6010B	P
Iron	0.050	U	mg/L	0.011	0.050	SW-846 6010B	P
Lead	0.015	U	mg/L	0.0016	0.015	SW-846 6010B	P
Magnesium	0.050	U	mg/L	0.025	0.050	SW-846 6010B	P
Manganese	0.015	U	mg/L	0.00020	0.015	SW-846 6010B	P
Nickel	0.040	U	mg/L	0.0025	0.040	SW-846 6010B	P
Potassium	0.20	U	mg/L	0.049	0.20	SW-846 6010B	P
Selenium	0.040	U	mg/L	0.0047	0.040	SW-846 6010B	P
Silver	0.010	U	mg/L	0.00040	0.010	SW-846 6010B	P
Sodium	1.00	U	mg/L	0.17	1.00	SW-846 6010B	P
Thallium	0.020	U	mg/L	0.0012	0.020	SW-846 6010B	P
Vanadium	0.020	U	mg/L	0.0011	0.020	SW-846 6010B	P
Zinc	0.020	U	mg/L	0.0052	0.020	SW-846 6010B	P

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203033106

Lab Sample ID: ICB

ICAL ID: 4

Lab Sample DESC: ICB FOR HBN 255702 [ICP/1879]

Preparation Blank Matrix: (soil / water)

Instrument ID: ICP5

Date Analyzed: 04/10/03 Time: 1203

INITIAL CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Aluminum	0.20	U	mg/L	0.016	0.20	SW-846 6010B	P
Antimony	0.060	U	mg/L	0.0046	0.060	SW-846 6010B	P
Arsenic	0.040	U	mg/L	0.0015	0.040	SW-846 6010B	P
Barium	0.010	U	mg/L	0.00050	0.010	SW-846 6010B	P
Beryllium	0.0050	U	mg/L	0.00020	0.0050	SW-846 6010B	P
Cadmium	0.0050	U	mg/L	0.00020	0.0050	SW-846 6010B	P
Calcium	0.050	U	mg/L	0.032	0.050	SW-846 6010B	P
Chromium	0.010	U	mg/L	0.00050	0.010	SW-846 6010B	P
Cobalt	0.010	U	mg/L	0.00070	0.010	SW-846 6010B	P
Copper	0.0030	B	mg/L	0.0026	0.010	SW-846 6010B	P
Iron	0.050	U	mg/L	0.011	0.050	SW-846 6010B	P
Lead	0.015	U	mg/L	0.0016	0.015	SW-846 6010B	P
Magnesium	0.050	U	mg/L	0.025	0.050	SW-846 6010B	P
Manganese	0.015	U	mg/L	0.00020	0.015	SW-846 6010B	P
Nickel	0.040	U	mg/L	0.0025	0.040	SW-846 6010B	P
Potassium	0.20	U	mg/L	0.049	0.20	SW-846 6010B	P
Selenium	0.040	U	mg/L	0.0047	0.040	SW-846 6010B	P
Silver	0.010	U	mg/L	0.00040	0.010	SW-846 6010B	P
Sodium	1.00	U	mg/L	0.17	1.00	SW-846 6010B	P
Thallium	0.020	U	mg/L	0.0012	0.020	SW-846 6010B	P
Vanadium	0.020	U	mg/L	0.0011	0.020	SW-846 6010B	P
Zinc	0.020	U	mg/L	0.0052	0.020	SW-846 6010B	P

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203033106

Lab Sample ID: CCB

ICAL ID: 4

Lab Sample DESC: CCB FOR HBN 255702 [ICP/1879]

Preparation Blank Matrix: (soil / water)

Instrument ID: ICP5

Date Analyzed: 04/10/03 Time: 1245

CONTINUING CALIBRATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Aluminum	0.20	U	mg/L	0.016	0.20	SW-846 6010B	P
Antimony	0.060	U	mg/L	0.0046	0.060	SW-846 6010B	P
Arsenic	0.040	U	mg/L	0.0015	0.040	SW-846 6010B	P
Barium	0.010	U	mg/L	0.00050	0.010	SW-846 6010B	P
Beryllium	0.0050	U	mg/L	0.00020	0.0050	SW-846 6010B	P
Cadmium	0.0050	U	mg/L	0.00020	0.0050	SW-846 6010B	P
Calcium	0.050	U	mg/L	0.032	0.050	SW-846 6010B	P
Chromium	0.010	U	mg/L	0.00050	0.010	SW-846 6010B	P
Cobalt	0.010	U	mg/L	0.00070	0.010	SW-846 6010B	P
Copper	0.010	U	mg/L	0.0026	0.010	SW-846 6010B	P
Iron	0.050	U	mg/L	0.011	0.050	SW-846 6010B	P
Lead	0.015	U	mg/L	0.0016	0.015	SW-846 6010B	P
Magnesium	0.050	U	mg/L	0.025	0.050	SW-846 6010B	P
Manganese	0.015	U	mg/L	0.00020	0.015	SW-846 6010B	P
Nickel	0.040	U	mg/L	0.0025	0.040	SW-846 6010B	P
Potassium	0.20	U	mg/L	0.049	0.20	SW-846 6010B	P
Selenium	0.040	U	mg/L	0.0047	0.040	SW-846 6010B	P
Silver	0.00058	B	mg/L	0.00040	0.010	SW-846 6010B	P
Sodium	1.00	U	mg/L	0.17	1.00	SW-846 6010B	P
Thallium	0.020	U	mg/L	0.0012	0.020	SW-846 6010B	P
Vanadium	0.020	U	mg/L	0.0011	0.020	SW-846 6010B	P
Zinc	0.020	U	mg/L	0.0052	0.020	SW-846 6010B	P

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203033106

Lab Sample ID: CCB

ICAL ID: 4

Lab Sample DESC: CCB FOR HBN 255702 [ICP/1879]

Preparation Blank Matrix: (soil / water)

Instrument ID: ICP5

Date Analyzed: 04/10/03 Time: 1858

CONTINUING CALIBRATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Aluminum	0.20	U	mg/L	0.016	0.20	SW-846 6010B	P
Antimony	0.060	U	mg/L	0.0046	0.060	SW-846 6010B	P
Arsenic	0.040	U	mg/L	0.0015	0.040	SW-846 6010B	P
Barium	0.010	U	mg/L	0.00050	0.010	SW-846 6010B	P
Beryllium	0.0050	U	mg/L	0.00020	0.0050	SW-846 6010B	P
Cadmium	0.0050	U	mg/L	0.00020	0.0050	SW-846 6010B	P
Calcium	0.050	U	mg/L	0.032	0.050	SW-846 6010B	P
Chromium	0.010	U	mg/L	0.00050	0.010	SW-846 6010B	P
Cobalt	0.010	U	mg/L	0.00070	0.010	SW-846 6010B	P
Copper	0.010	U	mg/L	0.0026	0.010	SW-846 6010B	P
Iron	0.050	U	mg/L	0.011	0.050	SW-846 6010B	P
Lead	0.015	U	mg/L	0.0016	0.015	SW-846 6010B	P
Magnesium	0.050	U	mg/L	0.025	0.050	SW-846 6010B	P
Manganese	0.015	U	mg/L	0.00020	0.015	SW-846 6010B	P
Nickel	0.040	U	mg/L	0.0025	0.040	SW-846 6010B	P
Potassium	0.20	U	mg/L	0.049	0.20	SW-846 6010B	P
Selenium	0.040	U	mg/L	0.0047	0.040	SW-846 6010B	P
Silver	0.010	U	mg/L	0.00040	0.010	SW-846 6010B	P
Sodium	1.00	U	mg/L	0.17	1.00	SW-846 6010B	P
Thallium	0.020	U	mg/L	0.0012	0.020	SW-846 6010B	P
Vanadium	0.020	U	mg/L	0.0011	0.020	SW-846 6010B	P
Zinc	0.020	U	mg/L	0.0052	0.020	SW-846 6010B	P

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203033106

Lab Sample ID: 91906

ICAL ID: 4

Lab Sample DESC: MB91906

Preparation Blank Matrix: (soil / water) Soil

Instrument ID: ICP5

Date Analyzed: 04/10/03 Time: 1934

PREPARATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Aluminum	8.00	U	mg/kg	0.62	8.00	SW-846 6010B	P
Antimony	2.40	U	mg/kg	0.19	2.40	SW-846 6010B	P
Arsenic	1.60	U	mg/kg	0.058	1.60	SW-846 6010B	P
Barium	0.40	U	mg/kg	0.021	0.40	SW-846 6010B	P
Beryllium	0.20	U	mg/kg	0.0050	0.20	SW-846 6010B	P
Cadmium	0.20	U	mg/kg	0.0080	0.20	SW-846 6010B	P
Calcium	2.00	U	mg/kg	1.26	2.00	SW-846 6010B	P
Chromium	0.40	U	mg/kg	0.018	0.40	SW-846 6010B	P
Cobalt	0.40	U	mg/kg	0.024	0.40	SW-846 6010B	P
Copper	0.40	U	mg/kg	0.11	0.40	SW-846 6010B	P
Iron	2.00	U	mg/kg	0.46	2.00	SW-846 6010B	P
Lead	0.60	U	mg/kg	0.063	0.60	SW-846 6010B	P
Magnesium	2.00	U	mg/kg	0.98	2.00	SW-846 6010B	P
Manganese	0.60	U	mg/kg	0.0050	0.60	SW-846 6010B	P
Nickel	1.60	U	mg/kg	0.099	1.60	SW-846 6010B	P
Potassium	8.00	U	mg/kg	1.94	8.00	SW-846 6010B	P
Selenium	1.60	U	mg/kg	0.19	1.60	SW-846 6010B	P
Silver	0.40	U	mg/kg	0.018	0.40	SW-846 6010B	P
Sodium	40.0	U	mg/kg	6.95	40.0	SW-846 6010B	P
Thallium	0.80	U	mg/kg	0.049	0.80	SW-846 6010B	P
Vanadium	0.80	U	mg/kg	0.046	0.80	SW-846 6010B	P
Zinc	0.80	U	mg/kg	0.21	0.80	SW-846 6010B	P

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203033106

Lab Sample ID: CCB

ICAL ID: 4

Lab Sample DESC: CCB FOR HBN 255702 [ICP/1879]

Preparation Blank Matrix: (soil / water)

Instrument ID: ICP5

Date Analyzed: 04/10/03 Time: 2032

CONTINUING CALIBRATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Aluminum	0.20	U	mg/L	0.016	0.20	SW-846 6010B	P
Antimony	0.060	U	mg/L	0.0046	0.060	SW-846 6010B	P
Arsenic	0.040	U	mg/L	0.0015	0.040	SW-846 6010B	P
Barium	0.010	U	mg/L	0.00050	0.010	SW-846 6010B	P
Beryllium	0.0050	U	mg/L	0.00020	0.0050	SW-846 6010B	P
Cadmium	0.0050	U	mg/L	0.00020	0.0050	SW-846 6010B	P
Calcium	0.050	U	mg/L	0.032	0.050	SW-846 6010B	P
Chromium	0.010	U	mg/L	0.00050	0.010	SW-846 6010B	P
Cobalt	0.010	U	mg/L	0.00070	0.010	SW-846 6010B	P
Copper	0.010	U	mg/L	0.0026	0.010	SW-846 6010B	P
Iron	0.050	U	mg/L	0.011	0.050	SW-846 6010B	P
Lead	0.015	U	mg/L	0.0016	0.015	SW-846 6010B	P
Magnesium	0.050	U	mg/L	0.025	0.050	SW-846 6010B	P
Manganese	0.015	U	mg/L	0.00020	0.015	SW-846 6010B	P
Nickel	0.040	U	mg/L	0.0025	0.040	SW-846 6010B	P
Potassium	0.20	U	mg/L	0.049	0.20	SW-846 6010B	P
Selenium	0.040	U	mg/L	0.0047	0.040	SW-846 6010B	P
Silver	0.0029	B	mg/L	0.00040	0.010	SW-846 6010B	P
Sodium	1.00	U	mg/L	0.17	1.00	SW-846 6010B	P
Thallium	0.020	U	mg/L	0.0012	0.020	SW-846 6010B	P
Vanadium	0.020	U	mg/L	0.0011	0.020	SW-846 6010B	P
Zinc	0.020	U	mg/L	0.0052	0.020	SW-846 6010B	P

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203033106

Lab Sample ID: CCB

ICAL ID: 4

Lab Sample DESC: CCB FOR HBN 255702 [ICP/1879]

Preparation Blank Matrix: (soil / water)

Instrument ID: ICP5

Date Analyzed: 04/10/03 Time: 2205

CONTINUING CALIBRATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Aluminum	0.20	U	mg/L	0.016	0.20	SW-846 6010B	P
Antimony	0.060	U	mg/L	0.0046	0.060	SW-846 6010B	P
Arsenic	0.040	U	mg/L	0.0015	0.040	SW-846 6010B	P
Barium	0.010	U	mg/L	0.00050	0.010	SW-846 6010B	P
Beryllium	0.0050	U	mg/L	0.00020	0.0050	SW-846 6010B	P
Cadmium	0.0050	U	mg/L	0.00020	0.0050	SW-846 6010B	P
Calcium	0.050	U	mg/L	0.032	0.050	SW-846 6010B	P
Chromium	0.010	U	mg/L	0.00050	0.010	SW-846 6010B	P
Cobalt	0.010	U	mg/L	0.00070	0.010	SW-846 6010B	P
Copper	0.0041	B	mg/L	0.0026	0.010	SW-846 6010B	P
Iron	0.050	U	mg/L	0.011	0.050	SW-846 6010B	P
Lead	0.015	U	mg/L	0.0016	0.015	SW-846 6010B	P
Magnesium	0.050	U	mg/L	0.025	0.050	SW-846 6010B	P
Manganese	0.015	U	mg/L	0.00020	0.015	SW-846 6010B	P
Nickel	0.040	U	mg/L	0.0025	0.040	SW-846 6010B	P
Potassium	0.20	U	mg/L	0.049	0.20	SW-846 6010B	P
Selenium	0.040	U	mg/L	0.0047	0.040	SW-846 6010B	P
Silver	0.0014	B	mg/L	0.00040	0.010	SW-846 6010B	P
Sodium	1.00	U	mg/L	0.17	1.00	SW-846 6010B	P
Thallium	0.020	U	mg/L	0.0012	0.020	SW-846 6010B	P
Vanadium	0.020	U	mg/L	0.0011	0.020	SW-846 6010B	P
Zinc	0.020	U	mg/L	0.0052	0.020	SW-846 6010B	P

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203033106

Lab Sample ID: ICB

ICAL ID: 1

Lab Sample DESC: ICB FOR HBN 255398 [HG/1502]

Preparation Blank Matrix: (soil / water)

Instrument ID: FIMS1

Date Analyzed: 04/02/03 Time: 1031

INITIAL CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Mercury	0.00020	U	mg/L	0.00003	0.00020	SW-846 7470A	AV

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203033106

Lab Sample ID: CCB

ICAL ID: 1

Lab Sample DESC: CCB FOR HBN 255398 [HG/1502]

Preparation Blank Matrix: (soil / water)

Instrument ID: FIMS1

Date Analyzed: 04/02/03 Time: 1034

CONTINUING CALIBRATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Mercury	0.00020	U	mg/L	0.00003	0.00020	SW-846 7470A	AV

FORM III - IN

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203033106

Lab Sample ID: 91326

ICAL ID: 1

Lab Sample DESC: MB91326

Preparation Blank Matrix: (soil / water) Water

Instrument ID: FIMS1

Date Analyzed: 04/02/03 Time: 1048

PREPARATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Mercury	0.00020	U	mg/L	0.00003	0.00020	SW-846 7470A	AV

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203033106

Lab Sample ID: CCB

ICAL ID: 1

Lab Sample DESC: CCB FOR HBN 255398 [HG/1502]

Preparation Blank Matrix: (soil / water)

Instrument ID: FIMS1

Date Analyzed: 04/02/03 Time: 1055

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Mercury	0.00020	U	mg/L	0.00003	0.00020	SW-846 7470A	AV

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203033106

Lab Sample ID: CCB

ICAL ID: 1

Lab Sample DESC: CCB FOR HBN 255398 [HG/1502]

Preparation Blank Matrix: (soil / water)

Instrument ID: FIMS1

Date Analyzed: 04/02/03 Time: 1116

CONTINUING CALIBRATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Mercury	0.00020	U	mg/L	0.00003	0.00020	SW-846 7470A	AV

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203033106

Lab Sample ID: ICB

ICAL ID: 2

Lab Sample DESC: ICB FOR HBN 255787 [HG/1509]

Preparation Blank Matrix: (soil / water)

Instrument ID: FIMS1

Date Analyzed: 04/11/03 Time: 1139

INITIAL CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Mercury	0.00020	U	mg/L	0.000030	0.00020	SW-846 7471A	AV

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203033106

Lab Sample ID: CCB

ICAL ID: 2

Lab Sample DESC: CCB FOR HBN 255787 [HG/1509]

Preparation Blank Matrix: (soil / water)

Instrument ID: FIMS1

Date Analyzed: 04/11/03 Time: 1143

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Mercury	0.00020	U	mg/L	0.000030	0.00020	SW-846 7471A	AV

FORM III - IN

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203033106

Lab Sample ID: 91911

ICAL ID: 2

Lab Sample DESC: MB91911

Preparation Blank Matrix: (soil / water) Soil

Instrument ID: FIMS1

Date Analyzed: 04/11/03 Time: 1145

PREPARATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Mercury	0.030	U	mg/kg	0.0033	0.030	SW-846 7471A	AV

FORM III - IN

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203033106

Lab Sample ID: CCB

ICAL ID: 2

Lab Sample DESC: CCB FOR HBN 255787 [HG/1509]

Preparation Blank Matrix: (soil / water)

Instrument ID: FIMS1

Date Analyzed: 04/11/03 Time: 1203

CONTINUING CALIBRATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Mercury	0.00020	U	mg/L	0.000030	0.00020	SW-846 7471A	AV

ICP INTERFERENCE CHECK SAMPLE

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203033106

ICP ID Number: ICP5 ICS Source: 106-5-1 SPEX~1

Concentration Units: mg/L

Analyte	True		Initial Found			Final Found		
	Sol. A	Sol. AB	Sol. A	Sol. AB	%R	Sol. A	Sol. AB	%R
Aluminum	200	200	216	216	108			
Antimony	0	1.00		0.99	99			
Arsenic	0	1.00		1.00	100			
Barium	0	0.50		0.50	100			
Beryllium	0	0.50		0.51	102			
Boron	0	1.00		0.96	96			
Cadmium	0	1.00		0.96	96			
Calcium	200	200	205	205	102			
Chromium	0	0.50		0.49	98			
Cobalt	0	0.50		0.48	96			
Copper	0	0.50		0.50	100			
Iron	80.0	80.0	84.5	82.1	103			
Lead	0	1.00		0.97	97			
Magnesium	200	200	205	202	101			
Manganese	0	0.50		0.50	100			
Molybdenum	0	1.00		1.01	101			
Nickel	0	1.00		0.92	92			
Selenium	0	1.00		1.02	102			
Silver	0	1.00		1.03	103			
Thallium	0	1.00		1.01	101			
Vanadium	0	0.50		0.48	96			
Zinc	0	1.00		0.97	97			

ICP INTERFERENCE CHECK SAMPLE

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203033106

ICP ID Number: ICP5 ICS Source: 106-5-1 SPEX~1

Concentration Units: mg/L

Analyte	True		Initial Found			Final Found		
	Sol. A	Sol. AB	Sol. A	Sol. AB	%R	Sol. A	Sol. AB	%R
Aluminum	200	200	205	206	103			
Antimony	0	1.00		0.98	98			
Arsenic	0	1.00		0.97	97			
Barium	0	0.50		0.48	96			
Beryllium	0	0.50		0.49	98			
Boron	0	1.00		0.98	98			
Cadmium	0	1.00		0.91	91			
Calcium	200	200	191	193	96			
Chromium	0	0.50		0.47	94			
Cobalt	0	0.50		0.46	92			
Copper	0	0.50		0.47	94			
Iron	80.0	80.0	78.3	76.4	96			
Lead	0	1.00		0.95	95			
Magnesium	200	200	191	191	96			
Manganese	0	0.50		0.48	96			
Molybdenum	0	1.00		1.00	100			
Nickel	0	1.00		0.88	88			
Selenium	0	1.00		0.98	98			
Silver	0	1.00		0.99	99			
Thallium	0	1.00		0.96	96			
Vanadium	0	0.50		0.46	92			
Zinc	0	1.00		0.93	93			

LABORATORY CONTROL SAMPLE

Lab Name: GCAL

Sample ID: LCS91322

Lab Code: LA024 Case No.:

Contract:

Matrix: (soil / water) Water

SAS No.: SDG No.: 203033106

Lab Sample ID: 91322

LCS Source: 334-13-17 INORGANIC VENTURES

Analyte	True	Found	% R	LL	UL	Units	Method	Type
Aluminum	10.0	10.6	106	80	120	mg/L	SW-846 6010B	P
Antimony	1.00	1.03	103	80	120	mg/L	SW-846 6010B	P
Arsenic	1.00	1.05	105	80	120	mg/L	SW-846 6010B	P
Barium	1.00	1.01	101	80	120	mg/L	SW-846 6010B	P
Beryllium	1.00	1.03	103	80	120	mg/L	SW-846 6010B	P
Cadmium	1.00	1.00	100	80	120	mg/L	SW-846 6010B	P
Calcium	10.0	10.5	105	80	120	mg/L	SW-846 6010B	P
Chromium	1.00	1.02	102	80	120	mg/L	SW-846 6010B	P
Cobalt	1.00	1.02	102	80	120	mg/L	SW-846 6010B	P
Copper	1.00	1.06	106	80	120	mg/L	SW-846 6010B	P
Iron	10.0	10.9	109	80	120	mg/L	SW-846 6010B	P
Lead	1.00	1.00	100	80	120	mg/L	SW-846 6010B	P
Magnesium	10.0	10.2	102	80	120	mg/L	SW-846 6010B	P
Manganese	1.00	1.01	101	80	120	mg/L	SW-846 6010B	P
Nickel	1.00	1.02	102	80	120	mg/L	SW-846 6010B	P
Potassium	20.0	21.2	106	80	120	mg/L	SW-846 6010B	P
Selenium	1.00	1.03	103	80	120	mg/L	SW-846 6010B	P
Silver	1.00	1.02	102	80	120	mg/L	SW-846 6010B	P
Sodium	40.0	42.3	106	80	120	mg/L	SW-846 6010B	P
Thallium	1.00	0.99	99	80	120	mg/L	SW-846 6010B	P
Vanadium	1.00	1.02	102	80	120	mg/L	SW-846 6010B	P
Zinc	1.00	0.99	99	80	120	mg/L	SW-846 6010B	P

LABORATORY CONTROL SAMPLE

Lab Name: GCAL

Sample ID: LCS91327

Lab Code: LA024 Case No.:

Contract:

Matrix: (soil / water) Water

SAS No.: SDG No.: 203033106

Lab Sample ID: 91327

LCS Source: 106-1-3 EXAXOL

Analyte	True	Found	% R	LL	UL	Units	Method	Type
Mercury	0.00500	0.00531	106	80	120	mg/L	SW-846 7470A	AV

FORM VII - IN

LABORATORY CONTROL SAMPLE

Lab Name: GCAL

Sample ID: LCS91907

Lab Code: LA024

Case No.:

Contract:

Matrix: (soil / water) Soil

SAS No.:

SDG No.: 203033106

Lab Sample ID: 91907

LCS Source: 334-13-17 INORGANIC VENTURES

Analyte	True	Found	% R	LL	UL	Units	Method	Type
Aluminum	400	389	97	80	120	mg/kg	SW-846 6010B	P
Antimony	40.0	38.4	96	80	120	mg/kg	SW-846 6010B	P
Arsenic	40.0	37.6	94	80	120	mg/kg	SW-846 6010B	P
Barium	40.0	37.7	94	80	120	mg/kg	SW-846 6010B	P
Beryllium	40.0	37.7	94	80	120	mg/kg	SW-846 6010B	P
Cadmium	40.0	36.5	91	80	120	mg/kg	SW-846 6010B	P
Calcium	400	387	97	80	120	mg/kg	SW-846 6010B	P
Chromium	40.0	37.8	94	80	120	mg/kg	SW-846 6010B	P
Cobalt	40.0	37.6	94	80	120	mg/kg	SW-846 6010B	P
Copper	40.0	38.5	96	80	120	mg/kg	SW-846 6010B	P
Iron	400	389	97	80	120	mg/kg	SW-846 6010B	P
Lead	40.0	36.8	92	80	120	mg/kg	SW-846 6010B	P
Magnesium	400	363	91	80	120	mg/kg	SW-846 6010B	P
Manganese	40.0	37.9	95	80	120	mg/kg	SW-846 6010B	P
Nickel	40.0	37.4	93	80	120	mg/kg	SW-846 6010B	P
Potassium	800	792	99	80	120	mg/kg	SW-846 6010B	P
Selenium	40.0	36.5	91	80	120	mg/kg	SW-846 6010B	P
Silver	40.0	37.5	94	80	120	mg/kg	SW-846 6010B	P
Sodium	1600	1580	99	80	120	mg/kg	SW-846 6010B	P
Thallium	40.0	37.1	93	80	120	mg/kg	SW-846 6010B	P
Vanadium	40.0	37.9	95	80	120	mg/kg	SW-846 6010B	P
Zinc	40.0	35.7	89	80	120	mg/kg	SW-846 6010B	P

LABORATORY CONTROL SAMPLE

Lab Name: GCAL

Sample ID: LCS91912

Lab Code: LA024

Case No.:

Contract:

Matrix: (soil / water) Soil

SAS No.:

SDG No.: 203033106

Lab Sample ID: 91912

LCS Source: 106-1-3 EXAXOL

Analyte	True	Found	% R	LL	UL	Units	Method	Type
Mercury	0.75	0.74	99	80	120	mg/kg	SW-846 7471A	AV

FORM VII - IN

CH2M Hill 4580/20 30 35104 / Dec 4-5-03

CH2M Hill Constructors, Inc.
115 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No (770) 604-9182 ; Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER
153141-003

PROJECT NAME:	PROJECT NUMBER:	LAB NAME AND CONTACT:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No. , and Fax No.):
Bldg 80 - Former NAS Cecil Field	153141	Gulf Coast Labs. Dana Merril	Paul Malewicki J.A. Jones Environmental Services	6219 Authority Ave. Building 1 Jacksonville, FL 32221 Ph:(904) 7774812 Fax: (904) 7774262
PROJECT PHASE/SITE/TASK:	CTO OR DO NUMBER:	LAB PO NUMBER:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No. , and Fax No.):
Bldg 80 - Waste Characteriztion	0021		Christelle Newsome / CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 Ph:(770)604-9182 Ext.561 Fax:604-9282
PROJECT CONTACT:	PROJECT TEL NO AND FAX NO:	LAB TEL NO AND FAX NO:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No. , and Fax No.):
Paul Malewicki J.A. Jones Environmental	Ph:(904)777-4812 Fax:(904) 777-4262	Ph:(225) 769-4900		

ANALYSES REQUIRED (Include Method Numbers)

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	TCL Volatiles by 8260 B	TCL Semi-volatiles by 8270C	TCL Pesticides by 8081A	TCL Herbicides by 8151A	TPH by FL-PRO	TAL Metals by 6010B/7470A	Ignigitability 1010	Corrosivity 9045C	PCB's 8082		SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	021-WC1-L-0328-03	Main service bay sumps	L	03/28/03	13:48	III/B	7 Day	3	1	1	1	1	1	1	1	1		Composite	Free Product In Samples	3/3L01
	021-TB3	Temp blank	W																	
5																				
6																				
7																				
8																				
9																				
10																				

SAMPLER(S) AND COMPANY: (please print)	COURIER AND SHIPPING NUMBER:	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
Garnet McCurdy / Paul Malawiki J.A. Jones Environmental Services	Federal Express Tracking # 7922.1820.7913	4°C Good

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature: P. Malewicki Paul Malewicki	3/28/2003	17:00	Printed Name and Signature: Federal Express	3/28/2003	17:00
Printed Name and Signature:			Printed Name and Signature: Don Ponill	3-29-03	1050
Printed Name and Signature: Don Ponill	3-29-03	1215	Printed Name and Signature: Cooler	3-29-03	1215
Cooler	3-29-03	1215	Judi Smith	3/30/03	0730

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Form CCI001, Rev 02/00

000252

CH2M/14380/20303106/Dice 4-3-03

CH2M Hill Constructors, Inc.
115 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No (770) 604-9182 ; Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER
153141-005

PROJECT NAME:	PROJECT NUMBER:	LAB NAME AND CONTACT:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No. , and Fax No.):
Bldg 80 - Former NAS Cecil Field	153141	Gulf Coast Labs. Dana Merril	Paul Malewicki J.A. Jones Environmental Services	6219 Authority Ave. Building 1 Jacksonville, FL 32221 Ph:(904) 7774812 Fax: (904) 7774262
PROJECT PHASE/SITE/TASK:	CTO OR DO NUMBER:	LAB PO NUMBER:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No. , and Fax No.):
Bldg 80 - Waste Characteriztion	0021		Christelle Newsome / CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 Ph:(770)604-9182 Ext.561 Fax:604-9282
PROJECT CONTACT:	PROJECT TEL NO AND FAX NO:	LAB TEL NO AND FAX NO:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No. , and Fax No.):
Paul Malewicki J.A. Jones Environmental	Ph:(904)777-4812 Fax:(904) 777-4262	Ph:(225) 769-4900		

ANALYSES REQUIRED (Include Method Numbers)

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	TCL Volatiles by 8260 B	TCL Semi-volatiles by 8270C	TCL Pesticides by 8081A	TCL Herbicides by 8151A	TPH by FL-PRO	TAL Metals by 6010B/7470A	Ignittability 1010	Corrosivity 9045C	PCB's 8082		SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	021-WC4-L-0328-03	Oil from Reservoirs	L	03/28/03	14:30	III/B	7 Day						1	1	1	1		Composit	Hydraulic Oil	3/31 .02
2	021-TB5	Temp blank	W																	
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				

SAMPLER(S) AND COMPANY: (please print)	COURIER AND SHIPPING NUMBER:	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
Garnet McCurdy / Paul Malewicki J.A. Jones Environmental Services	Federal Express Tracking # 7922 1820 7990	4°C Good

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature: P. Malewicki Paul Malewicki	3/28/2003	17:00	Printed Name and Signature: Federal Express	3/28/2003	17:00
Printed Name and Signature:			Printed Name and Signature: Don Powell	3-29-03	1050
Printed Name and Signature: Don Powell	3-29-03	1215	Printed Name and Signature: Cooler	3-29-03	1215

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Cooler 3-29-03 1215 Judi Smith 3/30/03 0730

000253

CH2M Hill / 4380 / 203033106 / Due 4-3-03

CH2M Hill Constructors, Inc.
115 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No (770) 604-9182 ; Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER
153141-005A

PROJECT NAME:	PROJECT NUMBER:	LAB NAME AND CONTACT:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No. , and Fax No.):
Bldg 80 - Former NAS Cecil Field	153141	Gulf Coast Labs. Dana Merril	Paul Malewicki J.A. Jones Environmental Services	6219 Authority Ave. Building 1 Jacksonville, FL 32221 Ph:(904) 7774812 Fax: (904) 7774262
PROJECT PHASE/SITE/TASK:	CTO OR DO NUMBER:	LAB PO NUMBER:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No. , and Fax No.):
Bldg 80 - Waste Characteriztion	0021		Christelle Newsome / CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 Ph:(770)604-9182 Ext.561 Fax:604-9282
PROJECT CONTACT:	PROJECT TEL NO AND FAX NO:	LAB TEL NO AND FAX NO:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No. , and Fax No.):
Paul Malewicki J.A. Jones Environmental	Ph:(904)777-4812 Fax:(904) 777-4262	Ph:(225) 769-4900		

ANALYSES REQUIRED (Include Method Numbers)

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	TCL Volatiles by 8260 B	TCL Semi-volatiles by 8270C	TCL Pesticides by 8081A	TCL Herbicides by 8151A	TPH by FL-PRO	TAL Metals by 6010B/7470A	Ignightability 1010	Corrosivity 9045C	PCB's 8082		SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	021-WC4-L-0328-03	Oil from Reservoirs	L	04/02/03	12:53	III/B	7 Day						1					Composit	Additional Sample as requested	3/31-02
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				

SAMPLER(S) AND COMPANY: (please print)	COURIER AND SHIPPING NUMBER:	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
Garnet McCurdy / Paul Malewicki J.A. Jones Environmental Services	Federal Express Tracking # 7913-4103-9090	5°C Good

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature:			Printed Name and Signature:		
P. Malewicki Paul Malewicki	4/2/2003	1:30	Federal Express	4/2/2003	2:00
Printed Name and Signature:			Printed Name and Signature:		
Fed. Ex. 7913 4103 9090	4-3-03	0900	Daria Haydel Daria Haydel	4-3-03	0900
Printed Name and Signature:			Printed Name and Signature:		

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000254

CH2M/4389 20 3033106 Due 4-5-03

CH2M Hill Constructors, Inc.
115 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No (770) 604-9182 ; Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER
153141-004

PROJECT NAME:	PROJECT NUMBER:	LAB NAME AND CONTACT:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No. , and Fax No.):
Bldg 80 - Former NAS Cecil Field	153141	Gulf Coast Labs. Dana Merril	Paul Malewicki J.A. Jones Environmental Services	6219 Authority Ave. Building 1 Jacksonville, FL 32221 Ph:(904) 7774812 Fax: (904) 7774262
PROJECT PHASE/SITE/TASK:	CTO OR DO NUMBER:	LAB PO NUMBER:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No. , and Fax No.):
Bldg 80 - Waste Characteriztion	0021		Christelle Newsome / CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 Ph:(770)604-9182 Ext.561 Fax:604-9282
PROJECT CONTACT:	PROJECT TEL NO AND FAX NO:	LAB TEL NO AND FAX NO:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No. , and Fax No.):
Paul Malewicki J.A. Jones Environmental	Ph:(904)777-4812 Fax:(904) 777-4262	Ph:(225) 769-4900		

ANALYSES REQUIRED (Include Method Numbers)

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	TCL Volatiles by 8260 B	TCL Semi-volatiles by 8270C	TCL Pesticides by 8081A	TCL Herbicides by 8151A	TPH by FL-PRO	TAL Metals by 6010B/7470A	Ignightability 1010	Corrosivity 9045C	PCB's 8082		SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	021-WC3-L-0328-03	North East service bay	L	03/28/03	14:10	III/B	7 Day	3	1	1	1	1	1	1	1	1		Grab	Waste liquids	3431-02
2	021-TB4	Temp blank	W																	
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				

SAMPLER(S) AND COMPANY: (please print)	COURIER AND SHIPPING NUMBER:	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
Garnet McCurdy / Paul Malawiki Randy Dumaop / Sean Smith J.A. Jones Environmental Services	Federal Express Tracking # 7922 1820 7854	4°C

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature:			Printed Name and Signature:		
P. Malawiki Paul Malawiki	3/28/2003	17:00	Federal Express	3/28/2003	17:00
Printed Name and Signature:			Printed Name and Signature:		
			Don Powell	3-29-03	1050
Printed Name and Signature:			Printed Name and Signature:		
Don Powell	3-29-03	1215	Cooler	3-29-03	1215
Cooler	3-29-03	1215	Judi Smith	3/30/03	0730

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002255

CH2M Hill / 4380 / 203033106 / Due 4-5-03

CH2M Hill Constructors, Inc.
115 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No (770) 604-9182 ; Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER
153141-004A

PROJECT NAME:	PROJECT NUMBER:	LAB NAME AND CONTACT:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No. , and Fax No.):
Bldg 80 - Former NAS Cecil Field	**153141**	**Gulf Coast Labs. Dana Merril**	**Paul Malewicki J.A. Jones Environmental Services**	**6219 Authority Ave. Building 1 Jacksonville, FL 32221 Ph:(904) 7774812 Fax: (904) 7774262**
PROJECT PHASE/SITE/TASK:	CTO OR DO NUMBER:	LAB PO NUMBER:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No. , and Fax No.):
Bldg 80 - Waste Characteriztion	**0021**		**Christelle Newsome / CH2M Hill Constuctors, Inc.**	**115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 Ph:(770)604-9182 Ext.561 Fax:604-9282**
PROJECT CONTACT:	PROJECT TEL NO AND FAX NO:	LAB TEL NO AND FAX NO:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No. , and Fax No.):
Paul Malewicki J.A. Jones Environmental	**Ph:(904)777-4812 Fax:(904) 777-4262**	**Ph:(225) 769-4900**		

ANALYSES REQUIRED (Include Method Numbers)

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	TCL Volatiles by 8260 B	TCL Semi-volatiles by 8270C	TCL Pesticides by 8081A	TCL Herbicides by 8151A		TAL Metals by 6010B/7470A	Ignightability 1010	Corrosivity 9045C	PCB's 8082	TPH by FL-PRO	SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	**021-WC3-L-0328-03**	**North East Sump**	**L**	**04/02/03**	**1:00**	**III/B**	**7 Day**				**4**						**1**	**Grab**	**Additional sample as requested 4- 1 liter**	4/31-04
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				

SAMPLER(S) AND COMPANY: (please print)	COURIER AND SHIPPING NUMBER:	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
Garnet McCurdy / Paul Malawiki J.A. Jones Environmental Services	**Federal Express Tracking # 7913-4103-9090**	5°C Good

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature:			Printed Name and Signature:		
P. Malewicki Paul Malewicki	**4/2/2003**	1300	**Federal Express**	**4/2/2003**	**2:00**
Printed Name and Signature:			Printed Name and Signature:		
Fed. Ex. 791341039090	4-3-03	0900	Daria Hayden Daria Hayden	4-3-03	0900
Printed Name and Signature:			Printed Name and Signature:		

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000256

CH2M Hill / 14380 / 203033106 / Due 4-5-03

CH2M Hill Constructors, Inc.
115 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No (770) 604-9182 ; Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER
153141-006

PROJECT NAME:	PROJECT NUMBER:	LAB NAME AND CONTACT:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No. , and Fax No.):
Bldg 80 - Former NAS Cecil Field	153141	Gulf Coast Labs. Dana Merril	Paul Malewicki J.A. Jones Environmental Services	6219 Authority Ave. Building 1 Jacksonville, FL 32221 Ph:(904) 7774812 Fax: (904) 7774262
PROJECT PHASE/SITE/TASK:	CTO OR DO NUMBER:	LAB PO NUMBER:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No. , and Fax No.):
Bldg 80 - Waste Characteriztion	0021		Christelle Newsome / CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 Ph:(770)604-9182 Ext.561 Fax:604-9282
PROJECT CONTACT:	PROJECT TEL NO AND FAX NO:	LAB TEL NO AND FAX NO:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No. , and Fax No.):
Paul Malewicki J.A. Jones Environmental	Ph:(904)777-4812 Fax:(904) 777-4262	Ph:(225) 769-4900		

ANALYSES REQUIRED (Include Method Numbers)

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	TCL Volatiles by 8260 B	TCL Semi-volatiles by 8270C	TCL Pesticides by 8081A	TCL Herbicides by 8151A	TPH by FL-PRO	TAL Metals by 6010B/7470A	Ignightability 1010	Corrosivity 9045C	PCB's 8082		SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	021-WC5-S-0402-03	Dirty Oil from Sump	S	04/02/03	1:00	III/B	7 Day						2					Grab	Dity Oil from N.E. Sump	3/31-05
2	021-TB5	Temp Blank	W			III/B	7 Day													
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				

SAMPLER(S) AND COMPANY: (please print)	COURIER AND SHIPPING NUMBER:	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
Garnet McCurdy / Paul Malewicki J.A. Jones Environmental Services	Federal Express Tracking # 7913-4103-9090	5°C Good

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature: P. Malewicki Paul Malewicki	4/2/2003	1:00	Printed Name and Signature: Federal Express	4/2/2003	2:00
Printed Name and Signature: Fed. Ex. 7913 4103 9090	4-3-03	0900	Printed Name and Signature: Dana Hayden Dana Hayden	4-3-03	0900
Printed Name and Signature:			Printed Name and Signature:		

Distribution: [ ] **Original** - Laboratory (To be returned with Analytical Report); [ ] **Copy 1** - Project File; [ ] **Copy 2** - PMO

Form CCI001, Rev 02/00

PRESERVATION CHECKLIST / COOLER RECEIPT

Gulf Coast Analytical Laboratories, Inc.

WO:	203033106	**Type:**	D
Desc:		**Report:**	REVIEW_RPT
Work ID:	N.A.S. Cecil Field	**Status:**	WP
Project Seq:	11708	**Created:**	3/31/03 9:33
Client:	4380 - CH2M HILL Constructors Inc.	**QA:**	
Profile:	53396 - CTO 0021 - N.A.S. Cecil Field	**PO:**	

WORKORDER SAMPLES

Container ID	Type	Preservative	pH PRESERVATIVE A	pH PRESERVATIVE U	pH PRESERVATIVE N\A	VOA HEADSPACE A	VOA HEADSPACE U	VOA HEADSPACE N\A	CONTAINER CONDITION
20303310601-1	40	HCL+SS	✓			✓			OK
20303310601-2	LA	NONE			X			X	OK
20303310601-3	OC	HNO3	✓					X	OK
20303310601-4	LA	NONE			X			X	OK
20303310601-5	LA	NONE			X			X	OK
20303310601-6	LA	NONE		✓	X			X	OK
20303310601-7	LA	H2SO4	✓					X	OK

Container ID	Type	Preservative	A	U	N\A	A	U	N\A	CONTAINER CONDITION
20303310602-1	OC	NONE			X			X	OK

Container ID	Type	Preservative	A	U	N\A	A	U	N\A	CONTAINER CONDITION
20303310603-1	40	HCL+SS	✓			✓			OK
20303310603-2	OC	HNO3	✓					X	OK

Container ID	Type	Preservative	A	U	N\A	A	U	N\A	CONTAINER CONDITION
20303310604-1	LA	NONE			X			X	OK
20303310604-2	LA	NONE			X			X	OK
20303310604-3	LA	NONE			X			X	OK
20303310604-4	LA	H2SO4	✓					X	OK

Container ID	Type	Preservative	A	U	N\A	A	U	N\A	CONTAINER CONDITION
20303310605-1	LA	NONE			X			X	OK
20303310605-2	LA	NONE			X			X	OK

A = ACCEPTABLE
U = UNACCEPTABLE
N\A = NOT APPLICABLE

COOLER (S) TEMPERATURE (A) U LIMIT = 4C + \ - 2C

MAXIMUM VOLATILE HEADSPACE BUBBLE 6MM

Custody Seal
used [✓] Yes [ ] No
in tact [✓] Yes [ ] No

CUSTODIAN DLH

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

021-WC1-L-0328-03

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203033106

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Lab Sample ID: 20303310601

Level: (low/med) LOW

Lab File ID: 2030402/S8149

% Moisture: not dec.

Date Collected: 03/28/03 Time: 1348

GC Column: DB-624-30M ID: .53 (mm

Date Received: 03/29/03

Instrument ID: MSV1

Date Analyzed: 04/02/03 Time: 1129

Soil Extract Volume: (µL

Dilution Factor: 1 Analyst: KRV

Soil Aliquot Volume: (µL

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT		MDL	RL	
71-55-6	1,1,1-Trichloroethane	5.00	U	0.204	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	0.200	U	0.200	0.200	
79-00-5	1,1,2-Trichloroethane	5.00	U	0.333	5.00	
75-34-3	1,1-Dichloroethane	5.00	U J	0.122	5.00	K
75-35-4	1,1-Dichloroethene	5.00	U J	0.357	5.00	K
120-82-1	1,2,4-Trichlorobenzene	5.00	U	0.405	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	0.200	U	0.200	0.200	
106-93-4	1,2-Dibromoethane	0.200	U	0.116	0.200	
95-50-1	1,2-Dichlorobenzene	5.00	U	0.221	5.00	
107-06-2	1,2-Dichloroethane	3.00	U	0.277	3.00	
78-87-5	1,2-Dichloropropane	5.00	U	0.341	5.00	
541-73-1	1,3-Dichlorobenzene	5.00	U	0.320	5.00	
106-46-7	1,4-Dichlorobenzene	5.00	U	0.295	5.00	
78-93-3	2-Butanone	10.0	U R	0.641	10.0	K
591-78-6	2-Hexanone	10.0	U R	0.443	10.0	K
108-10-1	4-Methyl-2-pentanone	10.0	U J	0.252	10.0	K
67-64-1	Acetone	10.0	U R	2.36	10.0	R,K
71-43-2	Benzene	1.00	U	0.100	1.00	
75-27-4	Bromodichloromethane	0.600	U	0.102	0.600	
75-25-2	Bromoform	4.00	U	0.140	4.00	
74-83-9	Bromomethane	5.00	U	0.330	5.00	
75-15-0	Carbon disulfide	5.00	U J	0.180	5.00	K
56-23-5	Carbon tetrachloride	3.00	U R	0.161	3.00	K
108-90-7	Chlorobenzene	5.00	U	0.157	5.00	
75-00-3	Chloroethane	5.00	U	0.237	5.00	
67-66-3	Chloroform	5.00	U J	0.140	5.00	K
74-87-3	Chloromethane	2.70	U	0.393	2.70	
110-82-7	Cyclohexane	5.00	U	0.169	5.00	
124-48-1	Dibromochloromethane	0.400	U	0.105	0.400	
75-71-8	Dichlorodifluoromethane	5.00	U J	0.228	5.00	K
10061-01-5	cis-1,3-Dichloropropene	5.00	U J	0.128	5.00	K
10061-02-6	trans-1,3-Dichloropropene	5.00	U	0.329	5.00	
100-41-4	Ethylbenzene	5.00	U	0.312	5.00	

C.K

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

021-WC1-L-0328-03

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203033106

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 20303310601

Level: (low/med) LOW Lab File ID: 2030402/S8149

% Moisture: not dec. Date Collected: 03/28/03 Time: 1348

GC Column: DB-624-30M ID: .53 (mm Date Received: 03/29/03

Instrument ID: MSV1 Date Analyzed: 04/02/03 Time: 1129

Soil Extract Volume: (µL Dilution Factor: 1 Analyst: KRV

Soil Aliquot Volume: (µL

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT		MDL	RL	
98-82-8	Isopropylbenzene (Cumene)	5.00	U	0.246	5.00	
79-20-9	Methyl Acetate	5.00	U J	5.00	5.00	C
108-87-2	Methylcyclohexane	5.00	U	5.00	5.00	
75-09-2	Methylene chloride	5.00	U	0.613	5.00	
100-42-5	Styrene	5.00	U	0.173	5.00	
127-18-4	Tetrachloroethene	3.00	U	0.269	3.00	
108-88-3	Toluene	5.00	U	0.152	5.00	
79-01-6	Trichloroethene	3.00	U J	0.323	3.00	K
75-69-4	Trichlorofluoromethane	5.00	U J	0.192	5.00	K
76-13-1	Trichlorotrifluoroethane	5.00	U R	0.193	5.00	K
75-01-4	Vinyl chloride	1.00	U	0.177	1.00	
1330-20-7	Xylene (total)	5.00	U	0.507	5.00	
156-59-2	cis-1,2-Dichloroethene	5.00	U	0.151	5.00	
1634-04-4	tert-Butyl methyl ether (MTBE)	5.00	U	0.122	5.00	
156-60-5	trans-1,2-Dichloroethene	5.00	U J	0.192	5.00	K

C.K

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

021-WC3-L-0328-03 (WATER)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203033106

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 20303310603

Level: (low/med) LOW Lab File ID: 2030402/S8150

% Moisture: not dec. Date Collected: 03/28/03 Time: 1410

GC Column: DB-624-30M ID: .53 (mm Date Received: 03/29/03

Instrument ID: MSV1 Date Analyzed: 04/02/03 Time: 1154

Soil Extract Volume: (µL Dilution Factor: 1 Analyst: KRV

Soil Aliquot Volume: (µL

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT		MDL	RL	
71-55-6	1,1,1-Trichloroethane	5.00	U	0.204	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	0.200	U	0.200	0.200	
79-00-5	1,1,2-Trichloroethane	5.00	U	0.333	5.00	
75-34-3	1,1-Dichloroethane	5.00	U J	0.122	5.00	K
75-35-4	1,1-Dichloroethene	5.00	U J	0.357	5.00	K
120-82-1	1,2,4-Trichlorobenzene	5.00	U	0.405	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	0.200	U	0.200	0.200	
106-93-4	1,2-Dibromoethane	0.200	U	0.116	0.200	
95-50-1	1,2-Dichlorobenzene	5.00	U	0.221	5.00	
107-06-2	1,2-Dichloroethane	3.00	U	0.277	3.00	
78-87-5	1,2-Dichloropropane	5.00	U	0.341	5.00	
541-73-1	1,3-Dichlorobenzene	5.00	U	0.320	5.00	
106-46-7	1,4-Dichlorobenzene	5.00	U	0.295	5.00	
78-93-3	2-Butanone	10.0	U R	0.641	10.0	K
591-78-6	2-Hexanone	10.0	U R	0.443	10.0	K
108-10-1	4-Methyl-2-pentanone	10.0	U J	0.252	10.0	K
67-64-1	Acetone	10.0	U R	2.36	10.0	R, K
71-43-2	Benzene	1.00	U	0.100	1.00	
75-27-4	Bromodichloromethane	0.600	U	0.102	0.600	
75-25-2	Bromoform	4.00	U	0.140	4.00	
74-83-9	Bromomethane	5.00	U	0.330	5.00	
75-15-0	Carbon disulfide	5.00	U J	0.180	5.00	K
56-23-5	Carbon tetrachloride	3.00	U R	0.161	3.00	K
108-90-7	Chlorobenzene	3.17	J	0.157	5.00	
75-00-3	Chloroethane	5.00	U	0.237	5.00	
67-66-3	Chloroform	5.00	U J	0.140	5.00	K
74-87-3	Chloromethane	2.70	U	0.393	2.70	
110-82-7	Cyclohexane	5.00	U	0.169	5.00	
124-48-1	Dibromochloromethane	0.400	U	0.105	0.400	
75-71-8	Dichlorodifluoromethane	5.00	U J	0.228	5.00	K
10061-01-5	cis-1,3-Dichloropropene	5.00	U J	0.128	5.00	K
10061-02-6	trans-1,3-Dichloropropene	5.00	U	0.329	5.00	
100-41-4	Ethylbenzene	5.00	U	0.312	5.00	

CL

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

021-WC3-L-0328-03 (WATER)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203033106

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 20303310603

Level: (low/med) LOW Lab File ID: 2030402/S8150

% Moisture: not dec. Date Collected: 03/28/03 Time: 1410

GC Column: DB-624-30M ID: .53 (mm Date Received: 03/29/03

Instrument ID: MSV1 Date Analyzed: 04/02/03 Time: 1154

Soil Extract Volume: (µL Dilution Factor: 1 Analyst: KRV

Soil Aliquot Volume: (µL

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT		MDL	RL	
98-82-8	Isopropylbenzene (Cumene)	5.00	U	0.246	5.00	
79-20-9	Methyl Acetate	5.00	U J	5.00	5.00	C
108-87-2	Methylcyclohexane	5.00	U	5.00	5.00	
75-09-2	Methylene chloride	5.00	U	0.613	5.00	
100-42-5	Styrene	5.00	U	0.173	5.00	
127-18-4	Tetrachloroethene	3.00	U	0.269	3.00	
108-88-3	Toluene	5.00	U	0.152	5.00	
79-01-6	Trichloroethene	3.00	U J	0.323	3.00	K
75-69-4	Trichlorofluoromethane	5.00	U J	0.192	5.00	K
76-13-1	Trichlorotrifluoroethane	5.00	U R	0.193	5.00	K
75-01-4	Vinyl chloride	1.00	U	0.177	1.00	
1330-20-7	Xylene (total)	5.00	U	0.507	5.00	
156-59-2	cis-1,2-Dichloroethene	5.00	U	0.151	5.00	
1634-04-4	tert-Butyl methyl ether (MTBE)	5.00	U	0.122	5.00	
156-60-5	trans-1,2-Dichloroethene	5.00	U J	0.192	5.00	K

C.R

FORM I VOA

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203033106

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: 021-WC1-L-0328-03

Contract:

Lab File ID: 2030403/A6165

Lab Sample ID: 20303310601

Date Collected: 03/28/03 Time: 1348

Date Received: 03/29/03

Date Extracted: 04/01/03

Date Analyzed: 04/03/03 Time: 1222

Dilution Factor: 10 Analyst: RLW

Prep Method: 3510

Analytical Method: SW-846 8270

Instrument ID: MSSV1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	PQL
95-95-4	2,4,5-Trichlorophenol	40.0	U	1.17	40.0
88-06-2	2,4,6-Trichlorophenol	30.0	U	2.34	30.0
120-83-2	2,4-Dichlorophenol	5.00	U	2.01	5.00
51-28-5	2,4-Dinitrophenol	500	U	5.59	500
121-14-2	2,4-Dinitrotoluene	4.00	U	1.58	4.00
606-20-2	2,6-Dinitrotoluene	4.00	U	3.02	4.00
91-58-7	2-Chloronaphthalene	100	U	2.81	100
95-57-8	2-Chlorophenol	100	U	1.09	100
91-57-6	2-Methylnaphthalene	100	U R	2.41	100 L
88-74-4	2-Nitroaniline	500	U	2.01	500
88-75-5	2-Nitrophenol	100	U	1.86	100
91-94-1	3,3'-Dichlorobenzidine	200	U	1.51	200
99-09-2	3-Nitroaniline	500	U	1.12	500
534-52-1	2-Methyl-4,6-dinitrophenol	500	U	5.73	500
59-50-7	4-Chloro-3-methylphenol	100	U	1.71	100
106-47-8	4-Chloroaniline	100	U	1.62	100
7005-72-3	4-Chlorophenyl-phenylether	100	U	1.72	100
83-32-9	Acenaphthene	100	U	1.85	100
208-96-8	Acenaphthylene	100	U	2.26	100
98-86-2	Acetophenone	100	U	2.16	100
120-12-7	Anthracene	100	U	2.73	100
1912-24-9	Atrazine (Aatrex)	200	U R	1.95	200 C
100-52-7	Benzaldehyde	200	U	1.10	200
56-55-3	Benzo(a)anthracene	4.00	U	1.75	4.00
50-32-8	Benzo(a)pyrene	4.00	U	1.98	4.00
205-99-2	Benzo(b)fluoranthene	4.00	U	1.61	4.00
191-24-2	Benzo(g,h,i)perylene	100	U	1.31	100
207-08-9	Benzo(k)fluoranthene	5.00	U	2.00	5.00
92-52-4	Biphenyl	100	U	1.93	100
111-91-1	Bis(2-Chloroethoxy)methane	100	U	1.95	100

C.R

FORM I SV-1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203033106

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: 021-WC1-L-0328-03

Contract:

Lab File ID: 2030403/A6165

Lab Sample ID: 20303310601

Date Collected: 03/28/03 Time: 1348

Date Received: 03/29/03

Date Extracted: 04/01/03

Date Analyzed: 04/03/03 Time: 1222

Dilution Factor: 10 Analyst: RLW

Prep Method: 3510

Analytical Method: SW-846 8270

Instrument ID: MSSV1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	PQL	
111-44-4	Bis(2-Chloroethyl)ether	40.0	U	1.55	40.0	
108-60-1	bis(2-Chloroisopropyl)ether	100	U	2.70	100	
117-81-7	bis(2-ethylhexyl)phthalate	50.0	U	5.65	50.0	
101-55-3	4-Bromophenyl-phenylether	100	U	2.29	100	
85-68-7	Butylbenzylphthalate	100	U	2.00	100	
105-60-2	Caprolactam	100	U	3.09	100	
86-74-8	Carbazole	40.0	U	1.06	40.0	
218-01-9	Chrysene	50.0	U	1.70	50.0	
84-74-2	Di-n-butylphthalate	100	U	8.94	100	
117-84-0	Di-n-octylphthalate	100	U	1.92	100	
53-70-3	Dibenz(a,h)anthracene	4.00	U	2.73	4.00	
132-64-9	Dibenzofuran	100	U	1.70	100	
84-66-2	Diethylphthalate	100	U	1.30	100	
131-11-3	Dimethyl-phthalate	100	U	1.95	100	
206-44-0	Fluoranthene	100	U	1.10	100	
86-73-7	Fluorene	100	U	1.50	100	
118-74-1	Hexachlorobenzene	10.0	U	2.83	10.0	
87-68-3	Hexachlorobutadiene	5.00	U R	1.05	5.00	L
77-47-4	Hexachlorocyclopentadiene	100	U R	3.60	100	L
67-72-1	Hexachloroethane	20.0	U R	1.09	20.0	L
193-39-5	Indeno(1,2,3-cd)pyrene	4.00	U R	1.71	4.00	L
78-59-1	Isophorone	100	U	4.67	100	
91-20-3	Naphthalene	100	U	2.99	100	
100-01-6	4-Nitroaniline	500	U	1.34	500	
98-95-3	Nitrobenzene	40.0	U	1.89	40.0	
100-02-7	4-Nitrophenol	500	U	3.97	500	
87-86-5	Pentachlorophenol	500	U	9.26	500	
85-01-8	Phenanthrene	100	U	1.19	100	
108-95-2	Phenol	100	U	2.87	100	
129-00-0	Pyrene	100	U	1.32	100	
1319-77-3M	m,p-Cresol	100	U	1.04	100	

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203033106

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: 021-WC1-L-0328-03

Contract:

Lab File ID: 2030403/A6165

Lab Sample ID: 20303310601

Date Collected: 03/28/03 Time: 1348

Date Received: 03/29/03

Date Extracted: 04/01/03

Date Analyzed: 04/03/03 Time: 1222

Dilution Factor: 10 Analyst: RLW

Prep Method: 3510

Analytical Method: SW-846 8270

Instrument ID: MSSV1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	PQL
621-64-7	N-Nitroso-di-n-propylamine	40.0	U	3.17	40.0
86-30-6	N-Nitrosodiphenylamine	70.0	U	1.17	70.0
95-48-7	o-Cresol	100	U	4.90	100

C.R

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203033106

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: 021-WC3-L-0328-03 (WATER)

Contract:

Lab File ID: 2030404/A6199

Lab Sample ID: 20303310604

Date Collected: 04/02/03 Time: 1300

Date Received: 04/03/03

Date Extracted: 04/04/03

Date Analyzed: 04/04/03 Time: 2027

Dilution Factor: 10 Analyst: RLW

Prep Method: 3510

Analytical Method: SW-846 8270

Instrument ID: MSSV1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	PQL
95-95-4	2,4,5-Trichlorophenol	40.0	U	1.17	40.0
88-06-2	2,4,6-Trichlorophenol	30.0	U	2.34	30.0
120-83-2	2,4-Dichlorophenol	5.00	U	2.01	5.00
51-28-5	2,4-Dinitrophenol	500	U R	5.59	500 C
121-14-2	2,4-Dinitrotoluene	4.00	U	1.58	4.00
606-20-2	2,6-Dinitrotoluene	4.00	U	3.02	4.00
91-58-7	2-Chloronaphthalene	100	U	2.81	100
95-57-8	2-Chlorophenol	100	U	1.09	100
91-57-6	2-Methylnaphthalene	100	U	2.41	100
88-74-4	2-Nitroaniline	500	U	2.01	500
88-75-5	2-Nitrophenol	100	U	1.86	100
91-94-1	3,3'-Dichlorobenzidine	200	U	1.51	200
99-09-2	3-Nitroaniline	500	U	1.12	500
534-52-1	2-Methyl-4,6-dinitrophenol	500	U	5.73	500
59-50-7	4-Chloro-3-methylphenol	100	U	1.71	100
106-47-8	4-Chloroaniline	100	U	1.62	100
7005-72-3	4-Chlorophenyl-phenylether	100	U	1.72	100
83-32-9	Acenaphthene	100	U	1.85	100
208-96-8	Acenaphthylene	100	U	2.26	100
98-86-2	Acetophenone	100	U	2.16	100
120-12-7	Anthracene	100	U	2.73	100
1912-24-9	Atrazine (Aatrex)	200	U R	1.95	200 C
100-52-7	Benzaldehyde	200	U	1.10	200
56-55-3	Benzo(a)anthracene	4.00	U	1.75	4.00
50-32-8	Benzo(a)pyrene	4.00	U	1.98	4.00
205-99-2	Benzo(b)fluoranthene	4.00	U	1.61	4.00
191-24-2	Benzo(g,h,i)perylene	100	U	1.31	100
207-08-9	Benzo(k)fluoranthene	5.00	U	2.00	5.00
92-52-4	Biphenyl	100	U	1.93	100
111-91-1	Bis(2-Chloroethoxy)methane	100	U	1.95	100

C.R

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203033106

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: 021-WC3-L-0328-03 (WATER)

Contract:

Lab File ID: 2030404/A6199

Lab Sample ID: 20303310604

Date Collected: 04/02/03 Time: 1300

Date Received: 04/03/03

Date Extracted: 04/04/03

Date Analyzed: 04/04/03 Time: 2027

Dilution Factor: 10 Analyst: RLW

Prep Method: 3510

Analytical Method: SW-846 8270

Instrument ID: MSSV1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	PQL
111-44-4	Bis(2-Chloroethyl)ether	40.0	U	1.55	40.0
108-60-1	bis(2-Chloroisopropyl)ether	100	U	2.70	100
117-81-7	bis(2-ethylhexyl)phthalate	50.0	U	5.65	50.0
101-55-3	4-Bromophenyl-phenylether	100	U	2.29	100
85-68-7	Butylbenzylphthalate	100	U	2.00	100
105-60-2	Caprolactam	100	U	3.09	100
86-74-8	Carbazole	40.0	U	1.06	40.0
218-01-9	Chrysene	50.0	U	1.70	50.0
84-74-2	Di-n-butylphthalate	100	U	8.94	100
117-84-0	Di-n-octylphthalate	100	U	1.92	100
53-70-3	Dibenz(a,h)anthracene	4.00	U	2.73	4.00
132-64-9	Dibenzofuran	100	U	1.70	100
84-66-2	Diethylphthalate	100	U	1.30	100
131-11-3	Dimethyl-phthalate	100	U	1.95	100
206-44-0	Fluoranthene	100	U	1.10	100
86-73-7	Fluorene	100	U	1.50	100
118-74-1	Hexachlorobenzene	10.0	U	2.83	10.0
87-68-3	Hexachlorobutadiene	5.00	U	1.05	5.00
77-47-4	Hexachlorocyclopentadiene	100	U	3.60	100
67-72-1	Hexachloroethane	20.0	U	1.09	20.0
193-39-5	Indeno(1,2,3-cd)pyrene	4.00	U	1.71	4.00
78-59-1	Isophorone	100	U	4.67	100
91-20-3	Naphthalene	100	U	2.99	100
100-01-6	4-Nitroaniline	500	U J	1.34	500 C
98-95-3	Nitrobenzene	40.0	U	1.89	40.0
100-02-7	4-Nitrophenol	500	U	3.97	500
87-86-5	Pentachlorophenol	33.7	J	9.26	500
85-01-8	Phenanthrene	100	U	1.19	100
108-95-2	Phenol	100	U	2.87	100
129-00-0	Pyrene	100	U	1.32	100
1319-77-3M	m,p-Cresol	2.65	J	1.04	100

C.R

FORM I SV-1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203033106

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: 021-WC3-L-0328-03 (WATER)

Contract:

Lab File ID: 2030404/A6199

Lab Sample ID: 20303310604

Date Collected: 04/02/03 Time: 1300

Date Received: 04/03/03

Date Extracted: 04/04/03

Date Analyzed: 04/04/03 Time: 2027

Dilution Factor: 10 Analyst: RLW

Prep Method: 3510

Analytical Method: SW-846 8270

Instrument ID: MSSV1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	PQL
621-64-7	N-Nitroso-di-n-propylamine	40.0	U	3.17	40.0
86-30-6	N-Nitrosodiphenylamine	70.0	U	1.17	70.0
95-48-7	o-Cresol	8.35	J	4.90	100

C.R

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 870 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: ID: (mm)

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Injection Volume: (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: 021-WC1-L-0328-03

Contract:

SAS No.: SDG No.: 203033106

Lab Sample ID: 20303310601

Date Collected: 03/28/03 Time: 1348

Date Received: 03/29/03

Date Extracted: 04/01/03

Date Analyzed: 04/04/03 Time: 1346

Dilution Factor: 1 Analyst: TLS

Prep Method: 8081W Prep

Analytical Method: SW-846 8081

Sulfur Cleanup: (Y/N) N Instrument ID: GCS8B

Lab File ID: 2030403/SV8047

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
72-54-8	4,4'-DDD	0.115	U	0.065	0.115	
72-55-9	4,4'-DDE	0.115	U	0.024	0.115	
50-29-3	4,4'-DDT	0.115	U	0.035	0.115	
309-00-2	Aldrin	0.057	U J	0.011	0.057	C
60-57-1	Dieldrin	0.115	U	0.030	0.115	
959-98-8	Endosulfan I	0.057	U	0.019	0.057	
33213-65-9	Endosulfan II	0.115	U	0.025	0.115	
1031-07-8	Endosulfan sulfate	0.115	U	0.029	0.115	
72-20-8	Endrin	0.115	U J	0.037	0.115	C
7421-93-4	Endrin aldehyde	0.115	U	0.067	0.115	
53494-70-5	Endrin ketone	0.115	U	0.034	0.115	
76-44-8	Heptachlor	0.057	U	0.022	0.057	
1024-57-3	Heptachlor epoxide	0.057	U	0.013	0.057	
72-43-5	Methoxychlor	0.575	U	0.074	0.575	
8001-35-2	Toxaphene	5.75	U	0.057	5.75	
319-84-6	alpha-BHC	0.057	U J	0.014	0.057	C
5103-71-9	alpha-Chlordane	0.057	U	0.019	0.057	
319-85-7	beta-BHC	0.057	U	0.044	0.057	
319-86-8	delta-BHC	0.057	U	0.015	0.057	
58-89-9	gamma-BHC (Lindane)	0.057	U J	0.018	0.057	C
5103-74-2	gamma-Chlordane	0.057	U	0.018	0.057	

c.r

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: ID: (mm)

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Injection Volume: (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: 021-WC3-L-0328-03 (WATER)

Contract:

SAS No.: SDG No.: 203033106

Lab Sample ID: 20303310604

Date Collected: 04/02/03 Time: 1300

Date Received: 04/03/03

Date Extracted: 04/04/03

Date Analyzed: 04/05/03 Time: 1355

Dilution Factor: 1 Analyst: DLB

Prep Method: 8081W Prep

Analytical Method: SW-846 8081

Sulfur Cleanup: (Y/N) N Instrument ID: GCS8B

Lab File ID: 2030405/SV8010

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
72-54-8	4,4'-DDD	0.100	U	0.057	0.100	
72-55-9	4,4'-DDE	0.100	U	0.021	0.100	
50-29-3	4,4'-DDT	0.100	U	0.030	0.100	
309-00-2	Aldrin	0.050	U J	0.010	0.050	C
60-57-1	Dieldrin	0.100	U	0.026	0.100	
959-98-8	Endosulfan I	0.050	U	0.017	0.050	
33213-65-9	Endosulfan II	0.100	U	0.022	0.100	
1031-07-8	Endosulfan sulfate	0.100	U	0.025	0.100	
72-20-8	Endrin	0.100	U J	0.032	0.100	C
7421-93-4	Endrin aldehyde	0.100	U	0.058	0.100	
53494-70-5	Endrin ketone	0.100	U	0.030	0.100	
76-44-8	Heptachlor	0.050	U	0.020	0.050	
1024-57-3	Heptachlor epoxide	0.050	U	0.011	0.050	
72-43-5	Methoxychlor	0.500	U	0.065	0.500	
8001-35-2	Toxaphene	5.00	U	0.050	5.00	
319-84-6	alpha-BHC	0.050	U J	0.013	0.050	C
5103-71-9	alpha-Chlordane	0.050	U	0.017	0.050	
319-85-7	beta-BHC	0.050	U	0.038	0.050	
319-86-8	delta-BHC	0.050	U	0.013	0.050	
58-89-9	gamma-BHC (Lindane)	0.050	U J	0.016	0.050	C
5103-74-2	gamma-Chlordane	0.050	U	0.015	0.050	

C.R

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 940 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: ID: (mm)

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Injection Volume: (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: 021-WC1-L-0328-03

Contract:

SAS No.: SDG No.: 203033106

Lab Sample ID: 20303310601

Date Collected: 03/28/03 Time: 1348

Date Received: 03/29/03

Date Extracted:

Date Analyzed: 04/03/03 Time: 1443

Dilution Factor: 50 Analyst: TLS

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS2A

Lab File ID: 2030402/SV2AD0

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	66300		2160	5320

C.N

FORM I PEST-1

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 920 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-1-30M ID: .53 (mm)

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Injection Volume: (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: 021-WC3-L-0328-03 (WATER)

Contract:

SAS No.: SDG No.: 203033106

Lab Sample ID: 20303310604

Date Collected: 04/02/03 Time: 1300

Date Received: 04/03/03

Date Extracted:

Date Analyzed: 04/09/03 Time: 1657

Dilution Factor: 50 Analyst: TLS

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS2A

Lab File ID: 2030409/SV2009

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	55100		2210	5430

C.N

FORM I PEST-1

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 850 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: ID: (mm)

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Injection Volume: (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: 021-WC3-L-0328-03R

Contract:

SAS No.: SDG No.: 203033106

Lab Sample ID: 20303310606

Date Collected: 04/02/03 Time: 1300

Date Received: 04/03/03

Date Extracted:

Date Analyzed: 04/10/03 Time: 2145

Dilution Factor: 50 Analyst: TLS

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS2A

Lab File ID: 2030410/SV2AD0

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
FLPRO-01	Petroleum Hydrocarbons	974000	B	4790	11800	MB

C.e

FORM I PEST-1

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 870 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: ID: (mm)

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Injection Volume: (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: 021-WC1-L-0328-03

Contract:

SAS No.: SDG No.: 203033106

Lab Sample ID: 20303310601

Date Collected: 03/28/03 Time: 1348

Date Received: 03/29/03

Date Extracted: 04/01/03

Date Analyzed: 04/04/03 Time: 1346

Dilution Factor: 1 Analyst: TLS

Prep Method: SW-846 3510

Analytical Method: SW-846 8082

Sulfur Cleanup: (Y/N) N Instrument ID: GCS8B

Lab File ID: 2030403/SV8047

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
12674-11-2	Aroclor-1016	1.15	U	0.092	1.15
11104-28-2	Aroclor-1221	1.15	U	0.264	1.15
11141-16-5	Aroclor-1232	1.15	U	0.230	1.15
53469-21-9	Aroclor-1242	1.15	U	0.287	1.15
12672-29-6	Aroclor-1248	1.15	U	0.149	1.15
11097-69-1	Aroclor-1254	1.15	U	0.241	1.15
11096-82-5	Aroclor-1260	1.15	U	0.115	1.15

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: ID: (mm)

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Injection Volume: (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: 021-WC4-L-0328-03

Contract:

SAS No.: SDG No.: 203033106

Lab Sample ID: 20303310602

Date Collected: 03/28/03 Time: 1430

Date Received: 03/29/03

Date Extracted: 04/02/03

Date Analyzed: 04/07/03 Time: 0027

Dilution Factor: 1 Analyst: DLB

Prep Method: SW-846 3550

Analytical Method: SW-846 8082

Sulfur Cleanup: (Y/N) N Instrument ID: GCS8B

Lab File ID: 2030405/SV8037

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
12674-11-2	Aroclor-1016	81.0	U J	27.2	81.0	Q
11104-28-2	Aroclor-1221	81.0	U	18.6	81.0	
11141-16-5	Aroclor-1232	81.0	U	20.4	81.0	
53469-21-9	Aroclor-1242	81.0	U	23.8	81.0	
12672-29-6	Aroclor-1248	81.0	U	15.8	81.0	
11097-69-1	Aroclor-1254	81.0	U	13.1	81.0	
11096-82-5	Aroclor-1260	81.0	U J	19.0	81.0	Q

c.f

FORM I PEST-1

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: ID: (mm)

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Injection Volume: (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: 021-WC3-L-0328-03 (WATER)

Contract:

SAS No.: SDG No.: 203033106

Lab Sample ID: 20303310604

Date Collected: 04/02/03 Time: 1300

Date Received: 04/03/03

Date Extracted: 04/04/03

Date Analyzed: 04/05/03 Time: 1355

Dilution Factor: 1 Analyst: DLB

Prep Method: SW-846 3510

Analytical Method: SW-846 8082

Sulfur Cleanup: (Y/N) N Instrument ID: GCS8B

Lab File ID: 2030405/SV8010

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
12674-11-2	Aroclor-1016	1.00	U	0.080	1.00
11104-28-2	Aroclor-1221	1.00	U	0.230	1.00
11141-16-5	Aroclor-1232	1.00	U	0.200	1.00
53469-21-9	Aroclor-1242	1.00	U	0.250	1.00
12672-29-6	Aroclor-1248	1.00	U	0.130	1.00
11097-69-1	Aroclor-1254	1.00	U	0.210	1.00
11096-82-5	Aroclor-1260	1.00	U	0.100	1.00

c.t

FORM I PEST-1

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Soil

Sample wt/vol: 1 Units: g

Level: (low/med) LOW

% Moisture: 3. decanted: (Y/N)

GC Column: ID: (mm)

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Injection Volume: (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: 021-WC5-S-0402-03 (OIL)

Contract:

SAS No.: SDG No.: 203033106

Lab Sample ID: 20303310605

Date Collected: 04/02/03 Time: 1300

Date Received: 04/03/03

Date Extracted: 04/07/03

Date Analyzed: 04/07/03 Time: 1638

Dilution Factor: 1 Analyst: TLS

Prep Method: SW-846 3550

Analytical Method: SW-846 8082

Sulfur Cleanup: (Y/N) N Instrument ID: GCS8B

Lab File ID: 2030407/SV8013

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
12674-11-2	Aroclor-1016	1250	U	418	1250
11104-28-2	Aroclor-1221	1250	U	286	1250
11141-16-5	Aroclor-1232	1250	U	313	1250
53469-21-9	Aroclor-1242	1250	U	366	1250
12672-29-6	Aroclor-1248	1250	U	244	1250
11097-69-1	Aroclor-1254	1250	U	202	1250
11096-82-5	Aroclor-1260	1250	U	293	1250

c.L

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-608-30M ID: .53 (mm)

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Injection Volume: (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: 021-WC1-L-0328-03

Contract:

SAS No.: SDG No.: 203033106

Lab Sample ID: 20303310601

Date Collected: 03/28/03 Time: 1348

Date Received: 03/29/03

Date Extracted: 04/01/03

Date Analyzed: 04/02/03 Time: 2117

Dilution Factor: 1 Analyst: TLS

Prep Method: SW-846 3510

Analytical Method: SW-846 8151A

Sulfur Cleanup: (Y/N) N Instrument ID: GCS6A

Lab File ID: 2030402/SV6011

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
94-75-7	2,4'-D	10.0	U	0.270	10.0
93-76-5	2,4,5-T	2.00	U	0.270	2.00
93-72-1	2,4,5-TP (SILVEX)	2.00	U	0.320	2.00

C.R

FORM I PEST-1

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-608-30M ID: .53 (mm)

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Injection Volume: (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: 021-WC3-L-0328-03 (WATER)

Contract:

SAS No.: SDG No.: 203033106

Lab Sample ID: 20303310604

Date Collected: 04/02/03 Time: 1300

Date Received: 04/03/03

Date Extracted: 04/04/03

Date Analyzed: 04/09/03 Time: 1239

Dilution Factor: 1 Analyst: DLB

Prep Method: SW-846 3510

Analytical Method: SW-846 8151A

Sulfur Cleanup: (Y/N) N Instrument ID: GCS6A

Lab File ID: 2030409/SV6012

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
94-75-7	2,4'-D	10.0	U	0.270	10.0
93-76-5	2,4,5-T	2.00	U	0.270	2.00
93-72-1	2,4,5-TP (SILVEX)	2.00	U	0.320	2.00

C.N

FORM I PEST-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: (soil / water) Water

Level: (low / med) % Solids:

Date Received: 03/29/03 Time: 1050

Sample ID: 021-WC1-L-0328-03

Contract:

SAS No.: SDG No.: 203033106

Lab Sample ID: 20303310601

Date Collected: 03/28/03 Time: 1348

Analyte	Concentration	Units	C	MDL	PQL	Method	Type	
Aluminum	0.23	mg/L		0.016	0.20	SW-846 6010B	P	
Antimony	0.0060	mg/L	U	0.0046	0.0060	SW-846 6010B	P	
Arsenic	0.010	mg/L	U	0.0015	0.010	SW-846 6010B	P	
Barium	0.031	mg/L	~~B~~ J	0.00050	0.20	SW-846 6010B	P	
Beryllium	0.0040	mg/L	U	0.00020	0.0040	SW-846 6010B	P	
Cadmium	0.00089	mg/L	B	0.00020	0.0050	SW-846 6010B	P	MB
Calcium	70.9	mg/L		0.032	5.00	SW-846 6010B	P	
Chromium	0.010	mg/L		0.00050	0.0050	SW-846 6010B	P	
Cobalt	0.0014	mg/L	~~B~~ J	0.00070	0.050	SW-846 6010B	P	
Copper	0.042	mg/L	B	0.0026	0.025	SW-846 6010B	P	MB
Iron	3.18	mg/L		0.011	0.10	SW-846 6010B	P	
Lead	0.15	mg/L	B	0.0016	0.0030	SW-846 6010B	P	MB
Magnesium	5.78	mg/L		0.025	5.00	SW-846 6010B	P	
Manganese	0.25	mg/L		0.00020	0.015	SW-846 6010B	P	
Mercury	0.00004	mg/L	~~B~~ J	0.00003	0.00020	SW-846 7470A	AV	
Nickel	0.0084	mg/L	~~B~~ J	0.0025	0.040	SW-846 6010B	P	
Potassium	23.0	mg/L	B	0.049	5.00	SW-846 6010B	P	MB
Selenium	0.0050	mg/L	U	0.0047	0.0050	SW-846 6010B	P	
Silver	0.0050	mg/L	U	0.00040	0.0050	SW-846 6010B	P	
Sodium	220	mg/L		0.17	5.00	SW-846 6010B	P	
Thallium	0.0020	mg/L	U	0.0012	0.0020	SW-846 6010B	P	
Vanadium	0.050	mg/L	U	0.0011	0.050	SW-846 6010B	P	
Zinc	0.81	mg/L		0.0052	0.020	SW-846 6010B	P	

C.R

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: (soil / water) Soil

Level: (low / med) % Solids: 98.70

Date Received: 03/29/03 Time: 1050

Sample ID: 021-WC4-L-0328-03

Contract:

SAS No.: SDG No.: 203033106

Lab Sample ID: 20303310602

Date Collected: 03/28/03 Time: 1430

Analyte	Concentration	Units	C	MDL	PQL	Method	Type	
Aluminum	0.84	mg/kg	~~B~~ J	0.63	8.10	SW-846 6010B	P	E
Antimony	2.43	mg/kg	U	0.19	2.43	SW-846 6010B	P	
Arsenic	1.62	mg/kg	U	0.059	1.62	SW-846 6010B	P	
Barium	0.41	mg/kg	U	0.021	0.41	SW-846 6010B	P	
Beryllium	0.20	mg/kg	U	0.0051	0.20	SW-846 6010B	P	
Cadmium	0.20	mg/kg	U	0.0081	0.20	SW-846 6010B	P	
Calcium	59.9	mg/kg		1.28	2.03	SW-846 6010B	P	
Chromium	0.033	mg/kg	~~B~~ J	0.018	0.41	SW-846 6010B	P	E
Cobalt	0.41	mg/kg	U	0.024	0.41	SW-846 6010B	P	
Copper	0.12	mg/kg	B, J	0.11	0.41	SW-846 6010B	P	mB, E
Iron	31.7	mg/kg		0.46	2.03	SW-846 6010B	P	
Lead	0.16	mg/kg	~~B~~ J	0.064	0.61	SW-846 6010B	P	
Magnesium	2.03	mg/kg	U	0.99	2.03	SW-846 6010B	P	
Manganese	0.18	mg/kg	~~B~~ J	0.0051	0.61	SW-846 6010B	P	
Mercury	0.030	mg/kg	U	0.0033	0.030	SW-846 7471A	AV	
Nickel	1.62	mg/kg	U	0.10	1.62	SW-846 6010B	P	
Potassium	8.10	mg/kg	U	1.97	8.10	SW-846 6010B	P	
Selenium	0.89	mg/kg	~~B~~ J	0.19	1.62	SW-846 6010B	P	E
Silver	0.41	mg/kg	U J	0.018	0.41	SW-846 6010B	P	Q
Sodium	8.51	mg/kg	~~B~~ J	7.04	40.5	SW-846 6010B	P	
Thallium	0.20	mg/kg	~~B~~ J	0.050	0.81	SW-846 6010B	P	E
Vanadium	0.81	mg/kg	U	0.047	0.81	SW-846 6010B	P	
Zinc	280	mg/kg		0.21	0.81	SW-846 6010B	P	

C.R

REVISED
DATE 07/28/03

FORM I - IN

000201 A
ADDITION

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL

Sample ID: 021-WC3-L-0328-03 (WATER)

Lab Code: LA024 Case No.:

Contract:

Matrix: (soil / water) Water

SAS No.: SDG No.: 203033106

Level: (low / med) % Solids:

Lab Sample ID: 20303310603

Date Received: 03/29/03 Time: 1050

Date Collected: 03/28/03 Time: 1410

Analyte	Concentration	Units	C	MDL	PQL	Method	Type	
Aluminum	1.88	mg/L	~~B~~ J	0.16	2.00	SW-846 6010B	P	
Antimony	0.060	mg/L	U	0.046	0.060	SW-846 6010B	P	
Arsenic	0.10	mg/L	U	0.015	0.10	SW-846 6010B	P	
Barium	0.21	mg/L	~~B~~ J	0.0050	2.00	SW-846 6010B	P	
Beryllium	0.040	mg/L	U	0.0020	0.040	SW-846 6010B	P	
Cadmium	0.014	mg/L	B	0.0020	0.050	SW-846 6010B	P	mB
Calcium	117	mg/L		0.32	50.0	SW-846 6010B	P	
Chromium	0.030	mg/L	~~B~~ J	0.0050	0.050	SW-846 6010B	P	
Cobalt	0.50	mg/L	U	0.0070	0.50	SW-846 6010B	P	
Copper	0.21	mg/L	B	0.026	0.25	SW-846 6010B	P	mB
Iron	41.5	mg/L		0.11	1.00	SW-846 6010B	P	
Lead	0.42	mg/L	B	0.016	0.030	SW-846 6010B	P	mB
Magnesium	7.82	mg/L	~~B~~ J	0.25	50.0	SW-846 6010B	P	
Manganese	0.33	mg/L		0.0020	0.15	SW-846 6010B	P	
Mercury	0.00047	mg/L	~~B~~ J	0.00030	0.00200	SW-846 7470A	AV	
Nickel	0.40	mg/L	U	0.025	0.40	SW-846 6010B	P	
Potassium	25.4	mg/L	B	0.49	50.0	SW-846 6010B	P	mB
Selenium	0.050	mg/L	U	0.047	0.050	SW-846 6010B	P	
Silver	0.050	mg/L	U	0.0040	0.050	SW-846 6010B	P	
Sodium	44.3	mg/L	~~B~~ J	1.74	50.0	SW-846 6010B	P	
Thallium	0.020	mg/L	U	0.012	0.020	SW-846 6010B	P	
Vanadium	0.50	mg/L	U	0.011	0.50	SW-846 6010B	P	
Zinc	0.45	mg/L		0.052	0.20	SW-846 6010B	P	

C.L

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL

Sample ID: 021-WC5-S-0402-03 (OIL)

Lab Code: LA024 Case No.:

Contract:

Matrix: (soil / water) Soil

SAS No.: SDG No.: 203033106

Level: (low / med) % Solids: 96.18

Lab Sample ID: 20303310605

Date Received: 04/03/03 Time: 0900

Date Collected: 04/02/03 Time: 1300

Analyte	Concentration	Units	C	MDL	PQL	Method	Type	
Aluminum	28.0	mg/kg		0.65	8.32	SW-846 6010B	P	
Antimony	2.50	mg/kg	U	0.19	2.50	SW-846 6010B	P	
Arsenic	1.66	mg/kg	U	0.060	1.66	SW-846 6010B	P	
Barium	13.3	mg/kg		0.022	0.42	SW-846 6010B	P	
Beryllium	0.21	mg/kg	U	0.0052	0.21	SW-846 6010B	P	
Cadmium	0.86	mg/kg		0.0083	0.21	SW-846 6010B	P	
Calcium	304	mg/kg		1.31	2.08	SW-846 6010B	P	
Chromium	2.52	mg/kg		0.019	0.42	SW-846 6010B	P	
Cobalt	0.42	mg/kg	U	0.025	0.42	SW-846 6010B	P	
Copper	8.64	mg/kg	B	0.11	0.42	SW-846 6010B	P	mB
Iron	310	mg/kg		0.48	2.08	SW-846 6010B	P	
Lead	12.6	mg/kg		0.065	0.62	SW-846 6010B	P	
Magnesium	3.10	mg/kg		1.02	2.08	SW-846 6010B	P	
Manganese	1.37	mg/kg		0.0052	0.62	SW-846 6010B	P	
Mercury	0.0065	mg/kg	~~B~~ J	0.0034	0.031	SW-846 7471A	AV	
Nickel	0.20	mg/kg	~~B~~ J	0.10	1.66	SW-846 6010B	P	
Potassium	4.69	mg/kg	~~B~~ J	2.02	8.32	SW-846 6010B	P	
Selenium	1.19	mg/kg	~~B~~ J	0.19	1.66	SW-846 6010B	P	
Silver	0.42	mg/kg	U	0.019	0.42	SW-846 6010B	P	
Sodium	12.6	mg/kg	~~B~~ J	7.23	41.6	SW-846 6010B	P	
Thallium	0.26	mg/kg	~~B~~ J	0.051	0.83	SW-846 6010B	P	
Vanadium	0.32	mg/kg	~~B~~ J	0.048	0.83	SW-846 6010B	P	
Zinc	9.61	mg/kg		0.22	0.83	SW-846 6010B	P	

CR

FORM I - IN

GCAL ID	CLIENT ID	MATRIX	COLLECTED	RECEIVED	REPORTED
203033106 01	021-WC1-L-0328-03	Water	03/28/2003 13:48	03/29/2003 10:50	

4500 H+B Water - pH

PREP DATE	PREP BATCH	PREP METHOD	DILUTION	ANALYZED	BY	ANALYTICAL BATCH
			1	03/31/2003 10:00	OLT	255295

CAS #	PARAMETER	RESULT	PQL	MDL	UNITS
pH	pH	7.74	1.00	1.00	pH unit

RESULTS REPORTED ON A WET WEIGHT BASIS

C.R

REVISED
DATE 02/28/03

GCAL ID	CLIENT ID	MATRIX	COLLECTED	RECEIVED	REPORTED
20303310602	021-WC4-L-0328-03	Solid	03/28/2003 14:30	03/29/2003 10:50	

9045C Solid - pH

PREP DATE	PREP BATCH	PREP METHOD	DILUTION	ANALYZED	BY	ANALYTICAL BATCH
			1	04/01/2003 13:30	OLT	255366

CAS #	PARAMETER	RESULT	PQL	MDL	UNITS
pH	pH	7.12	1.00	1.00	pH unit

RESULTS REPORTED ON A DRY WEIGHT BASIS

C.R

REVISED
DATE 01/28/03

GCAL ID	CLIENT ID	MATRIX	COLLECTED	RECEIVED	REPORTED
20303310603	021-WC3-L-0328-03 (WATER)	Water	03/28/2003 14:10	03/29/2003 10:50	

4500 H+B Water - pH

PREP DATE	PREP BATCH	PREP METHOD	DILUTION	ANALYZED	BY	ANALYTICAL BATCH
			1	04/01/200315:45	OLT	255344

CAS #	PARAMETER	RESULT	PQL	MDL	UNITS
pH	pH	6.78	1.00	1.00	pH unit

RESULTS REPORTED ON A WET WEIGHT BASIS

C.N

REVISED
DATE 00/28/03

GCAL REPORT: 203033106

000251C
ADDITION

GCAL ID	CLIENT ID	MATRIX	COLLECTED	RECEIVED	REPORTED
20303310605	021-WC5-S-0402-03 (OIL)	Solid	04/02/2003 13:00	04/03/2003 09:00	

9045C Solid - pH

PREP DATE	PREP BATCH	PREP METHOD	DILUTION	ANALYZED	BY	ANALYTICAL BATCH
			1	04/04/2003 15:30	OLT	255517

CAS #	PARAMETER	RESULT	PQL	MDL	UNITS
pH	pH	6.81	1.00	1.00	pH unit

RESULTS REPORTED ON A DRY WEIGHT BASIS

C.R

REVISED
DATE 01/28/03

GCAL ID	CLIENT ID	MATRIX	COLLECTED	RECEIVED	REPORTED
20303310601	021-WC1-L-0328-03	Water	03/28/2003 13:48	03/29/2003 10:50	

1010 Flashpoint

PREP DATE	PREP BATCH	PREP METHOD	DILUTION	ANALYZED	BY	ANALYTICAL BATCH
			1	04/03/2003 11:20	HLO	255478

CAS #	PARAMETER	RESULT	PQL	MDL	UNITS
000000-01-3	FlashPoint	>212	50	50	Deg F

RESULTS REPORTED ON A WET WEIGHT BASIS

ok

REVISED
DATE 07/28/03

GCAL ID	CLIENT ID	MATRIX	COLLECTED	RECEIVED	REPORTED
20303310602	021-WC4-L-0328-03	Solid	03/28/2003 14:30	03/29/2003 10:50	

1010 Flashpoint

PREP DATE	PREP BATCH	PREP METHOD	DILUTION	ANALYZED	BY	ANALYTICAL BATCH
			1	04/03/2003 11:20	HLO	255477

CAS #	PARAMETER	RESULT	PQL	MDL	UNITS
000000-01-3	FlashPoint	126	50	50	Deg F

RESULTS REPORTED ON A DRY WEIGHT BASIS

C.R

REVISED
DATE 00/28/03

GCAL ID	CLIENT ID	MATRIX	COLLECTED	RECEIVED	REPORTED
20303310603	021-WC3-L-0328-03 (WATER)	Water	03/28/2003 14:10	03/29/2003 10:50	

1010 Flashpoint

PREP DATE	PREP BATCH	PREP METHOD	DILUTION	ANALYZED	BY	ANALYTICAL BATCH
			1	04/03/2003 11:20	HLO	255478

CAS #	PARAMETER	RESULT	PQL	MDL	UNITS
000000-01-3	FlashPoint	>212	50	50	Deg F

RESULTS REPORTED ON A WET WEIGHT BASIS

REVISED
DATE 09/28/03

GCAL ID	CLIENT ID	MATRIX	COLLECTED	RECEIVED	REPORTED
20303310605	021-WC5-S-0402-03 (OIL)	Solid	04/02/2003 13:00	04/03/2003 09:00	

1010 Flashpoint

PREP DATE	PREP BATCH	PREP METHOD	DILUTION	ANALYZED	BY	ANALYTICAL BATCH
			1	04/08/2003 08:45	HLO	255603

CAS #	PARAMETER	RESULT	PQL	MDL	UNITS
000000-01-3	FlashPoint	>212	50	50	Deg F

RESULTS REPORTED ON A DRY WEIGHT BASIS

c.N

REVISED
DATE 07/28/03