SDMS DOCID# 1109907

ENSR INTERNATIONAL

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October 12, 2001
Project No. 01123-016
Work Order No. 29.1, Document No. 5

Mr. Alex Carlos
California Regional Water Quality Control Board
Los Angeles Region
320 West 4th Street, Suite 200
Los Angeles, California 90013

Re: Soil Vapor Survey Laboratory Data, Former Plant B-6 - Building 360 Complex, Burbank, California

Dear Mr. Carlos:

On behalf of the Burbank-Glendale-Pasadena Airport Authority (BGPAA), ENSR is pleased to present the laboratory reports for the previous soil vapor sampling conducted by Fugro/ENSR on the Lockheed B-6 site. As we discussed, I have included the laboratory packets for soil vapor sampling conducted in Parcels F and G, associated with the Former Building 360 Complex.

These laboratory reports are presented in support of our report entitled ***"Environmental Monitoring Report, Former Plant B-6 – Building 360 Complex, Burbank, California"***, dated October 3, 2001. That report provided shallow soil vapor data from previous surveys conducted by Tetra Tech and Fugro/ENSR in 1996 and 1997. The data was provided in support of a "no further action" (NFA) status for the property. The attached laboratory reports present documentation for the Fugro/ENSR sampled points, designated by the prefix "FSV" and "GSV". The Tetra Tech sampled points are prefixed with "ASG" and "A2SG". The laboratory reports for the Tetra Tech data is not readily available.

The laboratory data for the shallow soil vapor samples is included in a series of 5 laboratory packets. The samples were analyzed and reported in the order they were sampled, therefore, Table A, *Soil Vapor Results Cross-Referenced to Laboratory Packet*, provides the necessary cross-reference to find the laboratory results for each soil vapor point. This table should be used in concert with the October 3, 2001 report and the data packets to find the actual reported EPA 8260 results.

I hope this information will assist you in developing a NFA letter for this portion of the former B-6 property. If you have any questions or require further clarification regarding the report or the data presented, please contact L. David Parker in our Glendale office at 818-546-2090.

Sincerely,

L. David Parker
Project Manager

Table A
Soil Vapor Results Cross-Referenced to Laboratory Packet

Probe No.	Analysis	Data Package #
PARCEL F		
FSV-001	VOC	SDG 1D013
FSV-002	VOC	SDG 1D013
FSV-003	VOC	SDG 1D013
FSV-004	VOC	SDG 1D013
FSV-005	VOC	SDG 1D013
FSV-006	VOC	SDG 1D013
FSV-007	VOC	SDG 1D013
FSV-008	VOC	SDG 1D013
FSV-009	VOC	SGD 1D011
FSV-010	VOC	SGD 1D011
FSV-011	VOC	SGD 1D011
FSV-012	VOC	SGD 1D011
FSV-013	VOC	SDG 1D013
FSV-014	VOC	SDG 1D013
PARCEL G		
GSV-001	VOC	SGD 1D010
GSV-002	VOC	SGD 1D010
GSV-003	VOC	SGD 1D010
GSV-004	VOC	SGD 1D010
GSV-005	VOC	SDG 1D013
GSV-007	VOC	SGD 1D018
GSV-008	VOC	SGD 1D018
GSV-009	VOC	SGD 1D010
GSV-010	VOC	SGD 1D010
GSV-011	VOC	SGD 1D010
GSV-012	VOC	SGD 1D010
GSV-013	VOC	SGD 1D010
GSV-016	VOC	SGD 1D018
GSV-017	VOC	SGD 1D018
GSV-018	VOC	SDG 1D013
GSV-019	VOC	SDG 1D013
GSV-021	VOC	SDG 1D001
GSV-025	VOC	SGD 1D018
GSV-026	VOC	SGD 1D018
GSV-027	VOC	SGD 1D011
GSV-028	VOC	SDG 1D013
GSV-029	VOC	SDG 1D013
GSV-030	VOC	SDG 1D001
GSV-031	VOC	SDG 1D001
GSV-032	VOC	SDG 1D001
GSV-033	VOC	SDG 1D001
GSV-035	VOC	SGD 1D018
GSV-036	VOC	SGD 1D018
GSV-037	VOC	SDG 1D013
GSV-038	VOC	SGD 1D011

Table A
Soil Vapor Results Cross-Referenced to Laboratory Packet

GSV-039	VOC	SDG 1D013
GSV-040	VOC	SDG 1D001
GSV-041	VOC	SDG 1D001
GSV-042	VOC	SDG 1D001
GSV-043	VOC	SDG 1D001
GSV-044	VOC	SGD 1D018
GSV-045	VOC	SGD 1D011
GSV-046	VOC	SGD 1D011
GSV-047	VOC	SGD 1D011
GSV-048	VOC	SGD 1D011
GSV-049	VOC	SDG 1D001
GSV-050	VOC	SDG 1D001
GSV-051	VOC	SGD 1D018
GSV-052	VOC	SGD 1D011
GSV-053	VOC	SGD 1D011
GSV-054	VOC	SGD 1D011
GSV-055	VOC	SGD 1D011
GSV-056	VOC	SGD 1D011
GSV-058	VOC	SDG 1D001
GSV-059	VOC	SGD 1D018
GSV-060	VOC	SGD 1D011
GSV-061	VOC	SGD 1D011
GSV-062	VOC	SGD 1D011
GSV-063	VOC	SGD 1D011
GSV-064	VOC	SGD 1D011
GSV-065	VOC	SGD 1D011
GSV-066	VOC	SGD 1D011
GSV-067	VOC	SGD 1D018
GSV-068	VOC	SDG 1D013
GSV-069	VOC	SDG 1D013
GSV-070	VOC	SDG 1D013
GSV-071	VOC	SDG 1D013
GSV-072	VOC	SGD 1D011

SDG 1D001 BURBANK AIRPORT

DATA PACKAGE - 8260 Analysis-Soil Vapor

Prepared By:

ONSITE ENVIRONMENTAL LABORATORIES

Submitted To:

FUGRO WEST

28/35

January 1997

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION

LABORATORY REPORT FORM (COVER PAGE 1)

Laboratory Name: Onsite Environmental Laboratories, Inc.

Address: 5500 Boscell Common
Fremont, CA 94538

Telephone/FAX: (510) 490-8571 / (510) 490-8572

ELAP Certification No. 1774 Expiration Date: 7/31/98

Authorized Signature
Name, Title (print) Garth Voigt, Laboratory Director

Signature, Date Garth Voigt 1/17/97

Client Name: Fugro West, Inc.

Project No.: 9636-0541

Date(s) Sampled: 1/3/97 To same

Date(s) received: 1/3/97 To same

Date(s) reported: 1/6/97

Chain of custody received: Yes ____ No ____

Comments: ____

(RWQCB LabForm;Ver12/94)

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION

LABORATORY REPORT FORM (COVER PAGE 2)

Organic Analyses	# of Samples	# of Samples Subcontracted
30 soil vapor & air Samples for 8260		

Sample Condition: Acceptable

Inorganic Analyses	# of Samples	# of Samples Subcontracted

Sample Condition:

Microbiological Analyses	# of Samples	# of Samples Subcontracted

Sample Condition:

Other Types of Analyses	# of Samples	# of Samples Subcontracted

Sample condition:

(RWQCB LabForm;Ver12/94)

ONSITE
ENVIRONMENTAL
LABORATORIES, INC.

Date: February 4, 1997
From: Garth Voigt
To: Dave Parker
Re: Case Narrative for Project 9636-0541
Laboratory ID # 1D001

Samples were received by ONSITE Mobile Laboratory # 1 on January 3, 1997 1997 for EPA analysis 8260 - Soil Vapor Analysis

Lab ID No.	Field ID No.	Date of Preliminary Report	Date of Final Report	Notes
1D001-01	EQUIP. BLANK	January 3, 1997	February 4, 1997	
1D001-02	EQUIP. BLANK	January 3, 1997	February 4, 1997	
1D001-03	GSV-58-10	January 3, 1997	February 4, 1997	
1D001-04	GSV-33-10	January 3, 1997	February 4, 1997	
1D001-05	GSV-58-20	January 3, 1997	February 4, 1997	
1D001-06	GSV-33-20	January 3, 1997	February 4, 1997	
1D001-07	GSV-50-10	January 3, 1997	February 4, 1997	
1D001-08	GSV-42-10	January 3, 1997	February 4, 1997	
1D001-09	GSV-42-20	January 3, 1997	February 4, 1997	
1D001-10	GSV-41-10	January 3, 1997	February 4, 1997	
1D001-11	GSV-41-20	January 3, 1997	February 4, 1997	
1D001-12	GSV-50-10	January 3, 1997	February 4, 1997	8
1D001-13	GSV-50-10D	January 3, 1997	February 4, 1997	8
1D001-14	GSV-50-20	January 3, 1997	February 4, 1997	
1D001-15	GSV-43-10	January 3, 1997	February 4, 1997	
1D001-16	GSV-43-20	January 3, 1997	February 4, 1997	
1D001-17	GSV-40-10	January 3, 1997	February 4, 1997	
1D001-18	GSV-40-20	January 3, 1997	February 4, 1997	
1D001-19	GSV-49-10	January 3, 1997	February 4, 1997	
1D001-20	GSV-32-10	January 3, 1997	February 4, 1997	
1D001-21	GSV-49-20	January 3, 1997	February 4, 1997	
1D001-22	GSV-32-20	January 3, 1997	February 4, 1997	
1D001-23	GSV-31-10	January 3, 1997	February 4, 1997	
1D001-24	GSV-32-20	January 3, 1997	February 4, 1997	
1D001-25	GSV-21-10	January 3, 1997	February 4, 1997	
1D001-26	GSV-21-20	January 3, 1997	February 4, 1997	8
1D001-27	GSV-21-20D	January 3, 1997	February 4, 1997	8
1D001-28	GSV-30-10	January 3, 1997	February 4, 1997	
1D001-29	GSV-30-20	January 3, 1997	February 4, 1997	
1D001-30	TRIP BLK.	January 3, 1997	February 4, 1997	

1. Sample receipt: All Chain of custody and cooler receipt procedures were observed.

2. Calibration checks: All initial and continuing calibration check standards were acceptable for all analyses.

3. Method blank: The method blank was acceptable for all analyses.

4. Laboratory Control/Laboratory Control Dup. Sample: The LCS recoveries were acceptable for all analyses.

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5. Matrix Spike/Matrix Spike Duplicate: The MS/MSD analyses' are not required for Soil Vapor.

6. Surrogates: All surrogate recoveries were within acceptable parameters.
6a. Surrogates: Surrogate recoveries were outside of QC limits due to matrix effects.
6b. Surrogates: Surrogate recoveries were above QC limits. This was reported to the client. As the sample result was ND, the sample was not re-extracted.

7. Samples: Sample results were satisfactory for all parameters
7a. Samples: Samples were re-analyzed in order to demonstarte matrix interference.
7b. Samples: Samples were diluted in order to bring target analytes within calibration range.
7c. Samples: Not enough sample was received to perform requested analysis.

8. Sample Duplicates: The sample duplicates were acceptable for all analyses'.

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ANALYTICAL RESULTS SUMMARY

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[redacted]

LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260 **Project No: 9636-0541** **REPORTING UNITS : µg/L-air**

		DATE ANALYZED	1/3/97	1/3/97	1/3/97	1/3/97	1/3/97	1/3/97	1/3/97
		LAB SAMPLE ID	1D001-01	1D001-02	1D001-03	1D001-04	1D001-05	1D001-06	1D001-07
		CLIENT SAMPLE ID	Equip. Blank	Equip. Blank	GSV-58-10	GSV-33-10	GSV-58-20	GSV-33-20	GSV-50-10
		DILUTION FACTOR	0.1	0.1	0.1	0.1	0.1	0.1	0.1
COMPOUND		CRDL	MB	MB					
Benzene		1	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		1	ND	ND	ND	ND	ND	ND	ND
Bromoform		1	ND	ND	ND	ND	ND	ND	ND
Bromomethane		1	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride		1	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Chloroethane		1	ND	ND	ND	ND	ND	ND	ND
Chloroform		1	ND	ND	ND	ND	ND	ND	ND
Chloromethane		1	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		1	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene		1	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)		1	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		1	ND	ND	ND	ND	ND	ND	ND
Toluene		1	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorotrifluoroethane (Freon 113)		1	ND	ND	ND	ND	12 J	ND	ND
m,p-Xylenes		1	ND	ND	ND	ND	ND	ND	ND
o-Xylene		1	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride (VCl		1	ND	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-110%	84%	102%	84%	100%	84%	99%	86%
Toluene-d8	50	80%-115%	92%	90%	92%	89%	92%	89%	92%
4-Bromofluorobenzene	50	75%-125%	93%	91%	94%	92%	92%	90%	92%

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
J - Estimated value
Dilution Factor equal 1 for 5.0cc injection

Gordon Vogt
Laboratory Director

FEB 5 - 1997
Date

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LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260 **Project No: 9636-0541** **REPORTING UNITS : µg/L-air**

		DATE ANALYZED	1/3/97	1/3/97	1/3/97	1/3/97	1/3/97	1/3/97	1/3/97
		LAB SAMPLE ID	1D001-08	1D001-09	1D001-10	1D001-11	1D001-12	1D001-13	1D001-14
		CLIENT SAMPLE ID	GSV-42-10	GSV-42-20	GSV-41-10	GSV-41-20	GSV-50-10	GSV-50-100	GSV-50-20
		DILUTION FACTOR	0.1	0.1	0.1	0.1	0.1	0.1	0.1
COMPOUND		CRDL							
Benzene		1	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		1	ND	ND	ND	ND	ND	ND	ND
Bromoform		1	ND	ND	ND	ND	ND	ND	ND
Bromomethane		1	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride		1	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Chloroethane		1	ND	ND	ND	ND	ND	ND	ND
Chloroform		1	ND	ND	ND	ND	ND	ND	ND
Chloromethane		1	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		1	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene		1	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)		1	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		1	ND	ND	ND	ND	ND	ND	1.5
Toluene		1	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorotrifluoroethane (Freon 113)		1	1.4 J	ND	ND	ND	ND	ND	4.3 J
m,p-Xylenes		1	ND	ND	ND	ND	ND	ND	ND
o-Xylene		1	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)		1	ND	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-110%	97%	94%	100%	100%	104%	82%	101%
Toluene-d8	50	80%-115%	88%	87%	89%	88%	90%	91%	89%
4-Bromofluorobenzene	50	75%-125%	92%	90%	90%	92%	91%	91%	92%

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
J - Estimated value
Dilution Factor equal 1 for 5.0cc injection

Gordy Voigt
Laboratory Director

FEB 5 - 1997
Date

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LABORATORIES, INC.

LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260 **Project No: 9636-0541** **REPORTING UNITS : µg/L-air**

		DATE ANALYZED	1/3/97	1/3/97	1/3/97	1/3/97	1/3/97	1/3/97	1/3/97
		LAB SAMPLE ID	1D001-15	1D001-16	1D001-17	1D001-18	1D001-19	1D001-20	1D001-21
		CLIENT SAMPLE ID	GSV-43-10	GSV-43-20	GSV-40-10	GSV-40-20	GSV-49-10	GSV-32-10	GSV-49-20
		DILUTION FACTOR	0.1	0.1	0.1	0.1	0.1	0.1	0.1
COMPOUND		CRDL							
Benzene		1	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		1	ND	ND	ND	ND	ND	ND	ND
Bromoform		1	ND	ND	ND	ND	ND	ND	ND
Bromomethane		1	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride		1	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Chloroethane		1	ND	ND	ND	ND	ND	ND	ND
Chloroform		1	ND	ND	ND	ND	ND	ND	ND
Chloromethane		1	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		1	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene		1	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)		1	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		1	ND	ND	ND	ND	ND	ND	ND
Toluene		1	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorotrifluoroethane (Freon 113)		1	14 J	3.1 J	ND	ND	1.3 J	ND	1.6 J
m,p-Xylenes		1	ND	ND	ND	ND	ND	ND	ND
o-Xylene		1	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)		1	ND	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-110%	80%	102%	81%	101%	84%	87%	102%
Toluene-d8	50	80%-115%	90%	90%	92%	89%	92%	92%	87%
4-Bromofluorobenzene	50	75%-125%	91%	91%	91%	94%	90%	92%	92%

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
J - Estimated value
Dilution Factor equal 1 for 5.0cc injection

Laboratory Director

FEB 5 - 1997
Date

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LABORATORIES, INC.
[redacted]

LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260 **Project No: 9636-0541** **REPORTING UNITS : µg/L-air**

		DATE ANALYZED	1/3/97	1/3/97	1/3/97	1/3/97	1/3/97	1/3/97	1/3/97
		LAB SAMPLE ID	1D001-22	1D001-23	1D001-24	1D001-25	1D001-26	1D001-27	1D001-28
		CLIENT SAMPLE ID	GSV-32-20	GSV-31-10	GSV-32-20	GSV-21-10	GSV-21-20	GSV-21-20D	GSV-30-10
		DILUTION FACTOR	0.1	0.1	0.1	0.1	0.1	0.1	0.1
COMPOUND		CRDL							
Benzene		1	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		1	ND	ND	ND	ND	ND	ND	ND
Bromoform		1	ND	ND	ND	ND	ND	ND	ND
Bromomethane		1	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride		1	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Chloroethane		1	ND	ND	ND	ND	ND	ND	ND
Chloroform		1	ND	ND	ND	ND	ND	ND	ND
Chloromethane		1	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethane (c-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		1	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene		1	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)		1	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		1	ND	ND	ND	ND	ND	ND	ND
Toluene		1	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorotrifluoroethane (Freon 113)		1	ND	ND	ND	ND	ND	ND	ND
m,p-Xylenes		1	ND	ND	ND	ND	ND	ND	ND
o-Xylene		1	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)		1	ND	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-110%	83%	101%	102%	92%	98%	92%	85%
Toluene-d8	50	80%-115%	91%	99%	89%	92%	88%	92%	92%
4-Bromofluorobenzene	50	75%-125%	88%	92%	92%	92%	89%	93%	90%

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
J - Estimated value
Dilution Factor equal 1 for 5.0cc injection

Gareth Vogt
Laboratory Director

FEB 5 - 1997
Date

Printed on recycled paper.

ONSITE
ENVIRONMENTAL
LABORATORIES, INC.
[redacted]

LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260 **Project No: 9636-0541** **REPORTING UNITS : µg/L-air**

		DATE ANALYZED	1/3/97	1/3/97
		LAB SAMPLE ID	1D001-29	1D001-30
		CLIENT SAMPLE ID	GSV-30-20	TRIP BLK
		DILUTION FACTOR	0.1	0.25
COMPOUND		CRDL		
Benzene		1	ND	ND
Bromodichloromethane		1	ND	ND
Bromoform		1	ND	ND
Bromomethane		1	ND	ND
Carbon tetrachloride		1	ND	ND
Chlorobenzene		1	ND	ND
Chloroethane		1	ND	ND
Chloroform		1	ND	ND
Chloromethane		1	ND	ND
Dibromochloromethane		1	ND	ND
1,2-Dichlorobenzene		1	ND	ND
1,3-Dichlorobenzene		1	ND	ND
1,4-Dichlorobenzene		1	ND	ND
Dichlorodifluoromethane (Freon 12)		1	ND	ND
1,1-Dichloroethane (1,1-DCA)		1	ND	ND
1,2-Dichloroethane (1,2-DCA)		1	ND	ND
1,1-Dichloroethene (1,1-DCE)		1	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND
1,2-Dichloropropane		1	ND	ND
cis-1,3-Dichloropropene		1	ND	ND
trans-1,3-Dichloropropene		1	ND	ND
Ethyl benzene		1	ND	ND
Methylene chloride (Dichloromethane)		1	ND	ND
1,1,1,2-Tetrachloroethane		1	ND	ND
1,1,2,2-Tetrachloroethane		1	ND	ND
Tetrachloroethene (PCE)		1	ND	ND
Toluene		1	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND
Trichloroethene (TCE)		1	ND	ND
Trichlorofluoromethane (Freon 11)		1	ND	ND
Trichlorotrifluoroethane (Freon 113)		1	ND	ND
m,p-Xylenes		1	ND	ND
o-Xylene		1	ND	ND
Vinyl chloride (VC)		1	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC
Dibromofluoromethane	50	75%-110%	102%	92%
Toluene-d8	50	80%-115%	88%	92%
4-Bromofluorobenzene	50	75%-125%	93%	93%

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
J - Estimated value
Dilution Factor equal 1 for 5.0cc injection

Gerald Vogt

Laboratory Director

FEB 5 - 1997

Date

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QA/QC RESULTS SUMMARY

ONSITE
ENVIRONMENTAL
LABORATORIES, INC.

LABORATORY QA/QC REPORT FOR ORGANICS

Laboratory Quality Control Check Sample (LCS)

METHOD : EPA 8260 **Project No: 9636-0541** **REPORTING UNITS : µg/L**

DATE PERFORMED: 1/3/97 **LAB LCS ID:** LCS 1/3 MS2
SUPPLY SOURCE: Absolute Standards, INC.
LOT NUMBER: 080395(gases), 082694(liq.)
DATE OF SOURCE: 12/3/96

ANALYTE		SPIKE CONC	RESULT	%RECOVERY	ACP %REC LIMIT
Benzene		25	21.3	85%	80%-120%
Bromodichloromethane		25	21.4	85%	80%-120%
Bromoform		25	25.5	102%	80%-120%
Bromomethane		25	23.5	94%	80%-120%
Carbon tetrachloride		25	22.0	88%	80%-120%
Chlorobenzene		25	21.2	85%	80%-120%
Chloroethane		25	21.3	85%	80%-120%
Chloroform		25	21.5	86%	80%-120%
Chloromethane		25	20.3	81%	80%-120%
Dibromochloromethane		25	25.0	100%	80%-120%
1,2-Dichlorobenzene		25	22.9	92%	80%-120%
1,3-Dichlorobenzene		25	22.7	91%	80%-120%
1,4-Dichlorobenzene		25	21.0	84%	80%-120%
Dichlorodifluoromethane (Freon 12)		25	22.0	88%	80%-120%
1,1-Dichloroethane (1,1-DCA)		25	21.6	86%	80%-120%
1,2-Dichloroethane (1,2-DCA)		25	23.3	93%	80%-120%
1,1-Dichloroethene (1,1-DCE)		25	21.7	87%	80%-120%
cis-1,2-Dichloroethene (c-1,2-DCE)		25	20.0	80%	80%-120%
trans-1,2-Dichloroethene (t-1,2-DCE)		25	20.4	81%	80%-120%
1,2-Dichloropropane		25	21.8	87%	80%-120%
cis-1,3-Dichloropropene		25	22.9	92%	80%-120%
trans-1,3-Dichloropropene		25	23.6	94%	80%-120%
Ethyl benzene		25	20.9	84%	80%-120%
Methylene chloride (Dichloromethane)		25	20.1	80%	80%-120%
1,1,1,2-Tetrachloroethane		25	23.6	95%	80%-120%
1,1,2,2-Tetrachloroethane		25	27.2	109%	80%-120%
Tetrachloroethene (PCE)		25	20.8	83%	80%-120%
Toluene		25	20.3	81%	80%-120%
1,1,1-Trichloroethane (1,1,1-TCA)		25	20.4	82%	80%-120%
1,1,2-Trichloroethane (1,1,2-TCA)		25	23.4	94%	80%-120%
Trichloroethene (TCE)		25	20.8	83%	80%-120%
Trichlorofluoromethane (Freon 11)		25	20.2	81%	80%-120%
m,p-Xylenes		50	41.8	84%	80%-120%
o-Xylene		25	21.2	85%	80%-120%
Vinyl chloride (VC)		25	22.3	89%	80%-120%
SURROGATE	SPK conc		%RC		
Dibromofluoromethane	50		103%		
Toluene-d8	50		90%		
4-Bromofluorobenzene	50		94%		

Notes : ND - Analytes not detected at, or above the stated detection limit

Gerald Virgt
Laboratory Director

FEB 5 - 1997
Date

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ONSITE
ENVIRONMENTAL
LABORATORIES, INC.

1D001MS4-QCV_1 Dup

LABORATORY QA/QC REPORT FOR ORGANICS

METHOD : EPA 8260 **Project No: 9636-0541** **REPORTING UNITS : µg/L-air**

DATE PERFORMED: 1/3/97
BATCH #: 4-0103-1V

		DATE ANALYZED	1/3/97	1/3/97	RPD %
		LAB SAMPLE ID	1D001-07	1D001-13	
		CLIENT SAMPLE ID	GSV-50-10	GSV-50-10D	
		DILUTION FACTOR	0.1	0.1	
COMPOUND		CRDL			
Benzene		1	ND	ND	0%
Bromodichloromethane		1	ND	ND	0%
Bromoform		1	ND	ND	0%
Bromomethane		1	ND	ND	0%
Carbon tetrachloride		1	ND	ND	0%
Chlorobenzene		1	ND	ND	0%
Chloroethane		1	ND	ND	0%
Chloroform		1	ND	ND	0%
Chloromethane		1	ND	ND	0%
Dibromochloromethane		1	ND	ND	0%
1,2-Dichlorobenzene		1	ND	ND	0%
1,3-Dichlorobenzene		1	ND	ND	0%
1,4-Dichlorobenzene		1	ND	ND	0%
Dichlorodifluoromethane (Freon 12)		1	ND	ND	0%
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	0%
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	0%
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	0%
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	0%
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	0%
1,2-Dichloropropane		1	ND	ND	0%
cis-1,3-Dichloropropene		1	ND	ND	0%
trans-1,3-Dichloropropene		1	ND	ND	0%
Ethyl benzene		1	ND	ND	0%
Methylene chloride (Dichloromethane)		1	ND	ND	0%
1,1,1,2-Tetrachloroethane		1	ND	ND	0%
1,1,2,2-Tetrachloroethane		1	ND	ND	0%
Tetrachloroethene (PCE)		1	ND	ND	0%
Toluene		1	0.72	0.22	27%
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	0%
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	0%
Trichloroethene (TCE)		1	ND	ND	0%
Trichlorofluoromethane (Freon 11)		1	ND	ND	0%
Trichlorotrifluoroethane (Freon 113)		1	ND	ND	0%
m,p-Xylenes		1	ND	ND	0%
o-Xylene		1	ND	ND	0%
Vinyl chloride (VC)		1	ND	ND	0%
SURROGATE	SPK conc	ACP %	%RC	%RC	
Dibromofluoromethane	50	75%-110%	86%	82%	
Toluene-d8	50	80%-115%	92%	91%	
4-Bromofluorobenzene	50	75%-125%	92%	91%	

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
Dilution Factor equal 1 for 5.0cc injection

Gareth Vogt

FEB 5 - 1997

Laboratory Director

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ENVIRONMENTAL
LABORATORIES, INC.

LABORATORY QA/QC REPORT FOR ORGANICS

Laboratory Quality Control Check Sample (LCS)

METHOD : EPA 8260 **Project No: 9636-0541** **REPORTING UNITS : µg/L**

DATE PERFORMED: 1/3/97 **LAB LCS ID:** LCS01 1/3 MS4
SUPPLY SOURCE: Absolute Standards, INC.
LOT NUMBER: 080395(gases), 082694(liq.)
DATE OF SOURCE: 12/10/96

ANALYTE		SPIKE CONC	RESULT	%RECOVERY	ACP %REC LIMIT
Benzene		25	28.6	115%	80%-120%
Bromodichloromethane		25	28.1	113%	80%-120%
Bromoform		25	28.5	114%	80%-120%
Bromomethane		25	24.3	97%	80%-120%
Carbon tetrachloride		25	27.6	110%	80%-120%
Chlorobenzene		25	29.3	117%	80%-120%
Chloroethane		25	27.1	108%	80%-120%
Chloroform		25	27.0	108%	80%-120%
Chloromethane		25	23.6	94%	80%-120%
Dibromochloromethane		25	26.5	106%	80%-120%
1,2-Dichlorobenzene		25	28.5	114%	80%-120%
1,3-Dichlorobenzene		25	31.5	126%	80%-120%
1,4-Dichlorobenzene		25	26.7	107%	80%-120%
Dichlorodifluoromethane (Freon 12)		25	23.0	92%	80%-120%
1,1-Dichloroethane (1,1-DCA)		25	25.9	104%	80%-120%
1,2-Dichloroethane (1,2-DCA)		25	27.9	112%	80%-120%
1,1-Dichloroethene (1,1-DCE)		25	25.7	103%	80%-120%
cis-1,2-Dichloroethene (c-1,2-DCE)		25	27.3	109%	80%-120%
trans-1,2-Dichloroethene (t-1,2-DCE)		25	27.5	110%	80%-120%
1,2-Dichloropropane		25	28.3	113%	80%-120%
cis-1,3-Dichloropropene		25	29.2	117%	80%-120%
trans-1,3-Dichloropropene		25	29.0	116%	80%-120%
Ethyl benzene		25	29.0	116%	80%-120%
Methylene chloride (Dichloromethane)		25	25.8	103%	80%-120%
1,1,1,2-Tetrachloroethane		25	29.6	118%	80%-120%
1,1,2,2-Tetrachloroethane		25	27.6	110%	80%-120%
Tetrachloroethene (PCE)		25	29.8	119%	80%-120%
Toluene		25	29.2	117%	80%-120%
1,1,1-Trichloroethane (1,1,1-TCA)		25	27.8	111%	80%-120%
1,1,2-Trichloroethane (1,1,2-TCA)		25	28.1	112%	80%-120%
Trichloroethene (TCE)		25	29.1	116%	80%-120%
Trichlorofluoromethane (Freon 11)		25	27.3	109%	80%-120%
m,p-Xylenes		50	60.2	120%	80%-120%
o-Xylene		25	30.4	122%	80%-120%
Vinyl chloride (VC)		25	25.5	102%	80%-120%
SURROGATE	SPK conc		%RC		
Dibromofluoromethane	50		86%		
Toluene-d8	50		93%		
4-Bromofluorobenzene	50		95%		

Notes : ND - Analytes not detected at, or above the stated detection limit

Gareth Vogt
Laboratory Director

FEB 5 - 1997
Date

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ONSITE ENVIRONMENTAL LABORATORIES, INC.

LABORATORY QA/QC REPORT FOR ORGANICS

METHOD : EPA 8260 Project No: 9636-0541 REPORTING UNITS : µg/L-air

DATE PERFORMED: 01/03/97
BATCH #: 3-0103-1V

		DATE ANALYZED	1/3/97	1/3/97	
		LAB SAMPLE ID	1D001-26	1D001-27	RPD
		CLIENT SAMPLE ID	GSV-21-20	GSV-21-200UP	%
		DILUTION FACTOR	0.1	0.1	
COMPOUND		CRDL			
Benzene		1	ND	ND	0%
Bromodichloromethane		1	ND	ND	0%
Bromoform		1	ND	ND	0%
Bromomethane		1	ND	ND	0%
Carbon tetrachloride		1	ND	ND	0%
Chlorobenzene		1	ND	ND	0%
Chloroethane		1	ND	ND	0%
Chloroform		1	ND	ND	0%
Chloromethane		1	ND	ND	0%
Dibromochloromethane		1	ND	ND	0%
1,2-Dichlorobenzene		1	ND	ND	0%
1,3-Dichlorobenzene		1	ND	ND	0%
1,4-Dichlorobenzene		1	ND	ND	0%
Dichlorodifluoromethane (Freon 12)		1	ND	ND	0%
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	0%
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	0%
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	0%
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	0%
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	0%
1,2-Dichloropropane		1	ND	ND	0%
cis-1,3-Dichloropropene		1	ND	ND	0%
trans-1,3-Dichloropropene		1	ND	ND	0%
Ethyl benzene		1	ND	ND	0%
Methylene chloride (Dichloromethane)		1	ND	ND	0%
1,1,1,2-Tetrachloroethane		1	ND	ND	0%
1,1,2,2-Tetrachloroethane		1	ND	ND	0%
Tetrachloroethene (PCE)		1	ND	ND	0%
Toluene		1	0.58	0.63	2%
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	0%
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	0%
Trichloroethene (TCE)		1	ND	ND	0%
Trichlorofluoromethane (Freon 11)		1	ND	ND	0%
Trichlorotrifluoroethane (Freon 113)		1	ND	ND	0%
m,p-Xylenes		1	ND	ND	0%
o-Xylene		1	ND	ND	0%
Vinyl chloride (VC)		1	ND	ND	0%
SURROGATE	SPK conc	ACP %	%RC	%RC	
Dibromofluoromethane	50	75%-110%	98%	92%	
Toluene-d8	50	80%-115%	88%	92%	
4-Bromofluorobenzene	50	75%-125%	89%	93%	

Notes :
ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
Dilution Factor equal 1 for 5.0cc injection

Gordy Vogt FEB 5 - 1997
Laboratory Director

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SDG 1D010 BURBANK AIRPORT

DATA PACKAGE - 8260 Analysis-Soil Vapor

Prepared By:

ONSITE ENVIRONMENTAL LABORATORIES

Submitted To:

FUGRO WEST

35/43

February 1997

ONSITE
ENVIRONMENTAL
LABORATORIES, INC.

[redacted]

Date: February 6, 1997
From: Garth Voigt
To: Dave Parker
Re: Case Narrative for Project 9636-0541
Laboratory ID # 1D010 (01 through 26)

Samples were received by ONSITE Mobile Laboratory # 1 on January 20, 1997 1997 for EPA analysis 8260 - Soil Vapor Analysis

Lab ID No.	Field ID No.	Date of Preliminary Report	Date of Final Report	Notes
1D010-01	EQUIPBLK-Dave	January 20, 1997	February 6, 1997	
1D010-02	EQUIPBLK-Frank	January 20, 1997	February 6, 1997	
1D010-03	EQUIPBLK-Jeff	January 20, 1997	February 6, 1997	
1D010-04	GSV-2-10	January 20, 1997	February 6, 1997	4a
1D010-05	GSV-1-10	January 20, 1997	February 6, 1997	
1D010-06	GSV-9-10	January 20, 1997	February 6, 1997	
1D010-07	*GSV-2-20	January 20, 1997	February 6, 1997	4a
1D010-08	GSV-9-20	January 20, 1997	February 6, 1997	
1D010-09	GSV-1-20	January 20, 1997	February 6, 1997	
1D010-10	GSV-10-10	January 20, 1997	February 6, 1997	
1D010-11	GSV-11-10	January 20, 1997	February 6, 1997	4a
1D010-12	GSV-3-10	January 20, 1997	February 6, 1997	4a
1D010-13	GSV-3-20	January 20, 1997	February 6, 1997	
1D010-14	GSV-11-20	January 20, 1997	February 6, 1997	
1D010-15	GSV-10-20	January 20, 1997	February 6, 1997	4a
1D010-16	GSV-4-10	January 20, 1997	February 6, 1997	
1D010-17	GSV-13-10	January 20, 1997	February 6, 1997	4a
1D010-18	GSV-12-10	January 20, 1997	February 6, 1997	
1D010-19	GSV-4-20	January 20, 1997	February 6, 1997	
1D010-20	GSV-4-20D	January 20, 1997	February 6, 1997	8
1D010-21	GSV-12-20	January 20, 1997	February 6, 1997	4a
1D010-22	GSV-12-20D	January 20, 1997	February 6, 1997	4a,8
1D010-23	GSV-13-20	January 20, 1997	February 6, 1997	
1D010-24	GSV-13-20D	January 20, 1997	February 6, 1997	8
1D010-25	Travel Blank	January 20, 1997	February 6, 1997	4a
1D010-26	TripBlk-LCW	January 20, 1997	February 6, 1997	4a

1. Sample receipt: All Chain of custody and cooler receipt procedures were observed.

2. Calibration checks: All initial and continuing calibration check standards were acceptable for all analyses.

3. Method blank: The method blank was acceptable for all analyses.

4. Laboratory Control/Laboratory Control Dup. Sample: The LCS recoveries were acceptable for all analyses.
4a. Laboratory Control/Laboratory Control Dup. Sample: The LCS associated with these samples had analyte recoveries outside of QC limits. All other QC was acceptable.
5. Matrix Spike/Matrix Spike Duplicate: The MS/MSD analyses' are not required for Soil Vapor.

6. Surrogates:All surrogate recoveries were within acceptable parameters.

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6a. Surrogates:Surrogate recoveries were outside of QC limits due to matrix effects.
6b. Surrogates:Surrogate recoveries were above QC limits. This was reported to the client. As the sample result was ND, the sample was not re-extracted.

7. Samples: Sample results were satisfactory for all parameters
7a. Samples: Samples were re-analyzed in order to demonstarte matrix interference.
7b. Samples: Samples were diluted in order to bring target analytes within calibration range.
7c. Samples: Not enough sample was received to perform requested analysis.

8. Sample Duplicates: The sample duplicates were acceptable for all analyses'.

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CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION

LABORATORY REPORT FORM (COVER PAGE 1)

Laboratory Name: Onsite Environmental Laboratories, Inc.

Address: 5500 Boscell Common
Fremont, CA 94538

Telephone/FAX: (510) 490-8571 / (510) 490-8572

ELAP Certification No. 1774 Expiration Date: 7/31/98

Authorized Signature
Name, Title (print) Garth Voigt, Laboratory Director

Signature, Date Garth Voigt 2/5/97

Client Name: Fugro West, Inc.

Project No.: 9636-0541

Date(s) Sampled: 1/20/97 To Same

Date(s) received: 1/20/97 To Same

Date(s) reported: 1/21/97

Chain of custody received: Yes ___ No ___

Comments:

(RWQCB LabForm;Ver12/94)

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION

LABORATORY REPORT FORM (COVER PAGE 2)

Organic Analyses	# of Samples	# of Samples Subcontracted

26 air & soil vapor samples for 8260

Sample Condition: Acceptable

Inorganic Analyses	# of Samples	# of Samples Subcontracted

Sample Condition:

Microbiological Analyses	# of Samples	# of Samples Subcontracted

Sample Condition:

Other Types of Analyses	# of Samples	# of Samples Subcontracted

Sample condition:

(RWQCB LabForm;Ver12/94)

ANALYTICAL RESULTS SUMMARY

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LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260 **Project No: 9636-0541** **REPORTING UNITS : µg/L-air**

		DATE ANALYZED	1/20/97	1/20/97	1/20/97	1/20/97	1/20/97	1/20/97	1/20/97
		LAB SAMPLE ID	1D010-01	1D010-02	1D010-03	1D010-04	1D010-05	1D010-06	1D010-07
		CLIENT SAMPLE ID	Eq.Blk-Dave	Eq.Blk-Frank	Eq.Blk-Jeff	GSV-2-10	GSV-1-10	GSV-9-10	GSV-2-20
		DILUTION FACTOR	0.1	0.1	0.1	0.1	0.1	0.1	0.1
COMPOUND		CRDL	MB	MB	MB				
Benzene		1	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		1	ND	ND	ND	ND	ND	ND	ND
Bromoform		1	ND	ND	ND	ND	ND	ND	ND
Bromomethane		1	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride		1	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Chloroethane		1	ND	ND	ND	ND	ND	ND	ND
Chloroform		1	ND	ND	ND	ND	ND	ND	ND
Chloromethane		1	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		1	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene		1	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)		1	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		1	ND	ND	ND	ND	ND	ND	ND
Toluene		1	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorotrifluoroethane (Freon 113)		1	ND	ND	ND	ND	ND	ND	ND
m,p-Xylenes		1	ND	ND	ND	ND	ND	ND	ND
o-Xylene		1	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)		1	ND	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-110%	107%	94%	108%	91%	108%	108%	94%
Toluene-d8	50	80%-115%	89%	92%	112%	96%	112%	91%	92%
4-Bromofluorobenzene	50	75%-125%	92%	94%	112%	95%	112%	90%	93%

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
J - Estimated value
Dilution Factor equal 1 for 5.0cc injection

Laboratory Director

FEB 11 1997
Date

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LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260 **Project No: 9636-0541** **REPORTING UNITS : µg/L-air**

		DATE ANALYZED	1/20/97	1/20/97	1/20/97	1/20/97	1/20/97	1/20/97	1/20/97
		LAB SAMPLE ID	1D010-08	1D010-09	1D010-10	1D010-11	1D010-12	1D010-13	1D010-14
		CLIENT SAMPLE ID	GSV-9-20	GSV-1-20	GSV-10-10	GSV-11-10	GSV-3-10	GSV-3-20	GSV-11-20
		DILUTION FACTOR	0.1	0.1	0.1	0.1	0.1	0.1	0.1
COMPOUND		CRDL							
Benzene		1	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		1	ND	ND	ND	ND	ND	ND	ND
Bromoform		1	ND	ND	ND	ND	ND	ND	ND
Bromomethane		1	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride		1	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Chloroethane		1	ND	ND	ND	ND	ND	ND	ND
Chloroform		1	ND	ND	ND	ND	ND	ND	ND
Chloromethane		1	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		1	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene		1	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)		1	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		1	ND	ND	ND	ND	ND	ND	ND
Toluene		1	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorotrifluoroethane (Freon 113)		1	ND	ND	ND	ND	ND	ND	ND
m,p-Xylenes		1	ND	ND	ND	ND	ND	ND	ND
o-Xylene		1	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)		1	ND	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-110%	104%	106%	110%	94%	96%	107%	108%
Toluene-d8	50	80%-115%	110%	89%	90%	95%	93%	90%	111%
4-Bromofluorobenzene	50	75%-125%	112%	89%	91%	94%	93%	91%	112%

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
J - Estimated value
Dilution Factor equal 1 for 5.0cc injection

Gordy Voigt
Laboratory Director

FEB 11 1997
Date

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LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260 **Project No: 9636-0541** **REPORTING UNITS : µg/L-air**

		DATE ANALYZED	1/20/97	1/20/97	1/20/97	1/20/97	1/20/97	1/20/97	1/20/97
		LAB SAMPLE ID	1D010-15	1D010-16	1D010-17	1D010-18	1D010-19	1D010-20	1D010-21
		CLIENT SAMPLE ID	GSV-10-20	GSV-4-10	GSV-13-10	GSV-12-10	GSV-4-20	GSV-4-20D	GSV-12-20
		DILUTION FACTOR	0.1	0.1	0.1	0.1	0.1	0.1	0.1
COMPOUND		CRDL							
Benzene		1	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		1	ND	ND	ND	ND	ND	ND	ND
Bromoform		1	ND	ND	ND	ND	ND	ND	ND
Bromomethane		1	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride		1	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Chloroethane		1	ND	ND	ND	ND	ND	ND	ND
Chloroform		1	ND	ND	ND	ND	ND	ND	ND
Chloromethane		1	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		1	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene		1	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)		1	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		1	ND	ND	ND	ND	ND	ND	ND
Toluene		1	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorotrifluoroethane (Freon 113)		1	ND	ND	ND	ND	ND	ND	ND
m,p-Xylenes		1	ND	ND	ND	ND	ND	ND	ND
o-Xylene		1	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)		1	ND	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-110%	94%	107%	94%	98%	109%	105%	91%
Toluene-d8	50	80%-115%	93%	110%	92%	89%	111%	111%	96%
4-Bromofluorobenzene	50	75%-125%	94%	111%	94%	85%	114%	111%	96%

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
J - Estimated value
Dilution Factor equal 1 for 5.0cc injection

Gerald Vogt
Laboratory Director

FEB 11 1997
Date

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LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260 | Project No: 9636-0541 | REPORTING UNITS : µg/L-air

		DATE ANALYZED	1/20/97	1/20/97	1/20/97	1/20/97	1/20/97
		LAB SAMPLE ID	1D010-22	1D010-23	1D010-24	1D010-25	1D010-26
		CLIENT SAMPLE ID	GSV-12-20D	GSV-13-20	GSV-13-20D	Travel Blk	TripBlk-LCW
		DILUTION FACTOR	0.1	0.1	0.1	0.1	0.1
COMPOUND		CRDL					
Benzene		1	ND	ND	ND	ND	ND
Bromodichloromethane		1	ND	ND	ND	ND	ND
Bromoform		1	ND	ND	ND	ND	ND
Bromomethane		1	ND	ND	ND	ND	ND
Carbon tetrachloride		1	ND	ND	ND	ND	ND
Chlorobenzene		1	ND	ND	ND	ND	ND
Chloroethane		1	ND	ND	ND	ND	ND
Chloroform		1	ND	ND	ND	ND	ND
Chloromethane		1	ND	ND	ND	ND	ND
Dibromochloromethane		1	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		1	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		1	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		1	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)		1	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	ND	ND	ND
1,2-Dichloropropane		1	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		1	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		1	ND	ND	ND	ND	ND
Ethyl benzene		1	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)		1	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		1	ND	ND	ND	ND	ND
Toluene		1	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	ND	ND	ND
Trichloroethene (TCE)		1	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)		1	ND	ND	ND	ND	ND
Trichlorotrifluoroethane (Freon 113)		1	ND	ND	ND	ND	ND
m,p-Xylenes		1	ND	ND	ND	ND	ND
o-Xylene		1	ND	ND	ND	ND	ND
Vinyl chloride (VC)		1	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-110%	89%	109%	110%	95%	95%
Toluene-d8	50	80%-115%	96%	91%	90%	93%	93%
4-Bromofluorobenzene	50	75%-125%	91%	92%	90%	94%	94%

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
J - Estimated value
Dilution Factor equal 1 for 5.0cc injection

Gareth Voigt
Laboratory Director

FEB 11 1997
Date

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QA/QC RESULTS SUMMARY

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LABORATORY QA/QC REPORT FOR ORGANICS

Laboratory Quality Control Check Sample (LCS)

METHOD : EPA 8260 | Project No: 9636-0541 | REPORTING UNITS : µg/L

DATE PERFORMED: 1/20/97
SUPPLY SOURCE: Absolute Standards, INC.
LOT NUMBER: 080395(gases), 082694(liq.)
DATE OF SOURCE: 12/3/96

LAB LCS ID: LCS 1/20 MS2

ANALYTE	SPIKE CONC	RESULT	%RECOVERY	ACP %REC LIMIT
Benzene	25	23.9	96%	80%-120%
Bromodichloromethane	25	23.0	92%	80%-120%
Bromoform	25	23.0	92%	80%-120%
Bromomethane	25	24.8	99%	80%-120%
Carbon tetrachloride	25	23.6	94%	80%-120%
Chlorobenzene	25	22.9	92%	80%-120%
Chloroethane	25	27.0	108%	80%-120%
Chloroform	25	25.0	100%	80%-120%
Chloromethane	25	27.5	110%	80%-120%
Dibromochloromethane	25	24.8	99%	80%-120%
1,2-Dichlorobenzene	25	24.4	98%	80%-120%
1,3-Dichlorobenzene	25	24.4	98%	80%-120%
1,4-Dichlorobenzene	25	23.2	93%	80%-120%
Dichlorodifluoromethane (Freon 12)	25	24.3	97%	80%-120%
1,1-Dichloroethane (1,1-DCA)	25	26.4	106%	80%-120%
1,2-Dichloroethane (1,2-DCA)	25	25.4	102%	80%-120%
1,1-Dichloroethene (1,1-DCE)	25	23.6	94%	80%-120%
cis-1,2-Dichloroethene (c-1,2-DCE)	25	23.2	93%	80%-120%
trans-1,2-Dichloroethene (t-1,2-DCE)	25	23.6	94%	80%-120%
1,2-Dichloropropane	25	25.1	100%	80%-120%
cis-1,3-Dichloropropene	25	25.1	101%	80%-120%
trans-1,3-Dichloropropene	25	25.5	102%	80%-120%
Ethyl benzene	25	21.6	87%	80%-120%
Methylene chloride (Dichloromethane)	25	23.5	94%	80%-120%
1,1,1,2-Tetrachloroethane	25	24.4	98%	80%-120%
1,1,2,2-Tetrachloroethane	25	28.5	114%	80%-120%
Tetrachloroethene (PCE)	25	21.0	84%	80%-120%
Toluene	25	21.0	84%	80%-120%
1,1,1-Trichloroethane (1,1,1-TCA)	25	23.2	93%	80%-120%
1,1,2-Trichloroethane (1,1,2-TCA)	25	24.7	99%	80%-120%
Trichloroethene (TCE)	25	21.7	87%	80%-120%
Trichlorofluoromethane (Freon 11)	25	21.9	88%	80%-120%
m,p-Xylenes	50	44.7	89%	80%-120%
o-Xylene	25	22.3	89%	80%-120%
Vinyl chloride (VC)	25	29.6	119%	80%-120%
SURROGATE	SPK conc	%RC		
Dibromofluoromethane	50	111%		
Toluene-d8	50	91%		
4-Bromofluorobenzene	50	92%		

Notes : ND - Analytes not detected at, or above the stated detection limit

Gerald Vogt
Laboratory Director

FEB 11 1997
Date

Printed on recycled paper.

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LABORATORIES, INC.

LABORATORY QA/QC REPORT FOR ORGANICS

METHOD : EPA 8260 **Project No: 9636-0541** **REPORTING UNITS : µg/L-air**

DATE PERFORMED: 1/20/97
BATCH #: 2-0120-1V

	DATE ANALYZED	1/20/97	1/20/97	RPD %
	LAB SAMPLE ID	1D010-23	1D010-24	
	CLIENT SAMPLE ID	ESV-74-10	ESV-74-10DUP	
	DILUTION FACTOR	0.1	0.1	
COMPOUND	CRDL			
Benzene	1	ND	ND	0%
Bromodichloromethane	1	ND	ND	0%
Bromoform	1	ND	ND	0%
Bromomethane	1	ND	ND	0%
Carbon tetrachloride	1	ND	ND	0%
Chlorobenzene	1	ND	ND	0%
Chloroethane	1	ND	ND	0%
Chloroform	1	ND	ND	0%
Chloromethane	1	ND	ND	0%
Dibromochloromethane	1	ND	ND	0%
1,2-Dichlorobenzene	1	ND	ND	0%
1,3-Dichlorobenzene	1	ND	ND	0%
1,4-Dichlorobenzene	1	ND	ND	0%
Dichlorodifluoromethane (Freon 12)	1	ND	ND	0%
1,1-Dichloroethane (1,1-DCA)	1	ND	ND	0%
1,2-Dichloroethane (1,2-DCA)	1	ND	ND	0%
1,1-Dichloroethene (1,1-DCE)	1	ND	ND	0%
cis-1,2-Dichloroethene (c-1,2-DCE)	1	ND	ND	0%
trans-1,2-Dichloroethene (t-1,2-DCE)	1	ND	ND	0%
1,2-Dichloropropane	1	ND	ND	0%
cis-1,3-Dichloropropene	1	ND	ND	0%
trans-1,3-Dichloropropene	1	ND	ND	0%
Ethyl benzene	1	ND	ND	0%
Methylene chloride (Dichloromethane)	1	ND	ND	0%
1,1,1,2-Tetrachloroethane	1	ND	ND	0%
1,1,2,2-Tetrachloroethane	1	ND	ND	0%
Tetrachloroethene (PCE)	1	ND	ND	0%
Toluene	1	0.43	0.33	26%
1,1,1-Trichloroethane (1,1,1-TCA)	1	ND	ND	0%
1,1,2-Trichloroethane (1,1,2-TCA)	1	ND	ND	0%
Trichloroethene (TCE)	1	ND	ND	0%
Trichlorofluoromethane (Freon 11)	1	ND	ND	0%
Trichlorotrifluoroethane (Freon 113)	1	ND	ND	0%
m,p-Xylenes	1	ND	ND	0%
o-Xylene	1	ND	ND	0%
Vinyl chloride (VC)	1	ND	ND	0%
SURROGATE	SPK conc	ACP %	%RC	%RC
Dibromofluoromethane	50	75%-110%	109%	110%
Toluene-d8	50	80%-115%	91%	90%
4-Bromofluorobenzene	50	75%-125%	92%	90%

Notes :
ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
Dilution Factor equal 1 for 5.0cc injection

Gareth Voigt
Laboratory Director

FEB 11 1997
Date

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LABORATORIES, INC.

LABORATORY QA/QC REPORT FOR ORGANICS

Laboratory Quality Control Check Sample (LCS)

METHOD : EPA 8260 **Project No: 9636-0541** **REPORTING UNITS : µg/L**

DATE PERFORMED: 1/20/97
SUPPLY SOURCE: Absolute Standards, INC.
LOT NUMBER: 080395(gases), 082694(liq.)
DATE OF SOURCE: 12/3/96

LAB LCS ID: LCS 1/20 MS3

ANALYTE	SPIKE CONC	RESULT	%RECOVERY	ACP %REC LIMIT
Benzene	25	24.5	98%	80%-120%
Bromodichloromethane	25	23.4	94%	80%-120%
Bromoform	25	17.1	68%	80%-120%
Bromomethane	25	26.2	105%	80%-120%
Carbon tetrachloride	25	23.0	92%	80%-120%
Chlorobenzene	25	25.5	102%	80%-120%
Chloroethane	25	27.4	110%	80%-120%
Chloroform	25	24.9	100%	80%-120%
Chloromethane	25	28.8	115%	80%-120%
Dibromochloromethane	25	20.6	83%	80%-120%
1,2-Dichlorobenzene	25	23.7	95%	80%-120%
1,3-Dichlorobenzene	25	25.1	100%	80%-120%
1,4-Dichlorobenzene	25	24.5	98%	80%-120%
Dichlorodifluoromethane (Freon 12)	25	26.8	107%	80%-120%
1,1-Dichloroethane (1,1-DCA)	25	24.4	98%	80%-120%
1,2-Dichloroethane (1,2-DCA)	25	21.8	87%	80%-120%
1,1-Dichloroethene (1,1-DCE)	25	24.2	97%	80%-120%
cis-1,2-Dichloroethene (c-1,2-DCE)	25	25.1	100%	80%-120%
trans-1,2-Dichloroethene (t-1,2-DCE)	25	25.1	100%	80%-120%
1,2-Dichloropropane	25	24.4	98%	80%-120%
cis-1,3-Dichloropropene	25	23.2	93%	80%-120%
trans-1,3-Dichloropropene	25	21.0	84%	80%-120%
Ethyl benzene	25	25.4	102%	80%-120%
Methylene chloride (Dichloromethane)	25	23.7	95%	80%-120%
1,1,1,2-Tetrachloroethane	25	24.1	96%	80%-120%
1,1,2,2-Tetrachloroethane	25	16.8	67%	80%-120%
Tetrachloroethene (PCE)	25	24.0	96%	80%-120%
Toluene	25	23.8	95%	80%-120%
1,1,1-Trichloroethane (1,1,1-TCA)	25	24.4	98%	80%-120%
1,1,2-Trichloroethane (1,1,2-TCA)	25	20.4	82%	80%-120%
Trichloroethene (TCE)	25	24.1	96%	80%-120%
Trichlorofluoromethane (Freon 11)	25	27.2	109%	80%-120%
m,p-Xylenes	50	52.5	105%	80%-120%
o-Xylene	25	25.1	100%	80%-120%
Vinyl chloride (VC)	25	29.6	118%	80%-120%
SURROGATE	SPK conc	%RC		
Dibromofluoromethane	50	92%		
Toluene-d8	50	93%		
4-Bromofluorobenzene	50	92%		

Notes : ND - Analytes not detected at, or above the stated detection limit

Laboratory Director

FEB 11 1997
Date

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LABORATORY QA/QC REPORT FOR ORGANICS

METHOD : EPA 8260 | Project No: 9636-0541 | REPORTING UNITS : µg/L-air

DATE PERFORMED: 1/20/97
BATCH #: 4-0120-1V

		DATE ANALYZED	1/20/97	1/20/97	RPD %
		LAB SAMPLE ID	1D010-21	1D010-22	
		CLIENT SAMPLE ID	GSV-12-20	GSV-12-20D	
		DILUTION FACTOR	0.1	0.1	
COMPOUND		CRDL			
Benzene		1	ND	ND	0%
Bromodichloromethane		1	ND	ND	0%
Bromoform		1	ND	ND	0%
Bromomethane		1	ND	ND	0%
Carbon tetrachloride		1	ND	ND	0%
Chlorobenzene		1	ND	ND	0%
Chloroethane		1	ND	ND	0%
Chloroform		1	ND	ND	0%
Chloromethane		1	ND	ND	0%
Dibromochloromethane		1	ND	ND	0%
1,2-Dichlorobenzene		1	ND	ND	0%
1,3-Dichlorobenzene		1	ND	ND	0%
1,4-Dichlorobenzene		1	ND	ND	0%
Dichlorodifluoromethane (Freon 12)		1	ND	ND	0%
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	0%
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	0%
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	0%
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	0%
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	0%
1,2-Dichloropropane		1	ND	ND	0%
cis-1,3-Dichloropropene		1	ND	ND	0%
trans-1,3-Dichloropropene		1	ND	ND	0%
Ethyl benzene		1	ND	ND	0%
Methylene chloride (Dichloromethane)		1	ND	ND	0%
1,1,1,2-Tetrachloroethane		1	ND	ND	0%
1,1,2,2-Tetrachloroethane		1	ND	ND	0%
Tetrachloroethene (PCE)		1	ND	ND	0%
Toluene		1	ND	ND	0%
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	0%
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	0%
Trichloroethene (TCE)		1	ND	ND	0%
Trichlorofluoromethane (Freon 11)		1	ND	ND	0%
Trichlorotrifluoroethane (Freon 113)		1	ND	ND	0%
m,p-Xylenes		1	ND	ND	0%
o-Xylene		1	ND	ND	0%
Vinyl chloride (VC)		1	ND	ND	0%
SURROGATE	SPK conc	ACP %	%RC	%RC	
Dibromofluoromethane	50	75%-110%	91%	89%	
Toluene-d8	50	80%-115%	96%	96%	
4-Bromofluorobenzene	50	75%-125%	96%	91%	

Notes :

ND-- Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
Dilution Factor equal 1 for 5.0cc injection

Gerald Voigt
Laboratory Director

FEB 11 1997
Date

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LABORATORY QA/QC REPORT FOR ORGANICS

Laboratory Quality Control Check Sample (LCS)

METHOD : EPA 8260

Project No: 9636-0541

REPORTING UNITS : µg/L

DATE PERFORMED: 1/20/97
SUPPLY SOURCE: Absolute Standards, INC.
LOT NUMBER: 080395(gases), 082694(liq.)
DATE OF SOURCE: 12/3/96

LAB LCS ID: LCS 1/20 MS4

ANALYTE	M.Blank 1/20	SPIKE CONC	RESULT	%RECOVERY	ACP %REC LIMIT
Benzene	ND	25	21.2	85%	80%-120%
Bromodichloromethane	ND	25	21.0	84%	80%-120%
Bromoform	ND	25	20.2	81%	80%-120%
Bromomethane	ND	25	21.7	87%	80%-120%
Carbon tetrachloride	ND	25	21.0	84%	80%-120%
Chlorobenzene	ND	25	21.8	87%	80%-120%
Chloroethane	ND	25	23.4	94%	80%-120%
Chloroform	ND	25	21.7	87%	80%-120%
Chloromethane	ND	25	25.6	103%	80%-120%
Dibromochloromethane	ND	25	19.3	77%	80%-120%
1,2-Dichlorobenzene	ND	25	22.3	89%	80%-120%
1,3-Dichlorobenzene	ND	25	21.9	88%	80%-120%
1,4-Dichlorobenzene	ND	25	22.4	90%	80%-120%
Dichlorodifluoromethane (Freon 12)	ND	25	29.7	119%	80%-120%
1,1-Dichloroethane (1,1-DCA)	ND	25	20.9	84%	80%-120%
1,2-Dichloroethane (1,2-DCA)	ND	25	21.5	86%	80%-120%
1,1-Dichloroethene (1,1-DCE)	ND	25	21.3	85%	80%-120%
cis-1,2-Dichloroethene (c-1,2-DCE)	ND	25	22.9	92%	80%-120%
trans-1,2-Dichloroethene (t-1,2-DCE)	ND	25	20.5	82%	80%-120%
1,2-Dichloropropane	ND	25	21.5	86%	80%-120%
cis-1,3-Dichloropropene	ND	25	23.8	95%	80%-120%
trans-1,3-Dichloropropene	ND	25	19.5	80%	80%-120%
Ethyl benzene	ND	25	22.4	90%	80%-120%
Methylene chloride (Dichloromethane)	ND	25	20.5	82%	80%-120%
1,1,1,2-Tetrachloroethane	ND	25	21.4	86%	80%-120%
1,1,2,2-Tetrachloroethane	ND	25	18.9	76%	80%-120%
Tetrachloroethene (PCE)	ND	25	22.7	91%	80%-120%
Toluene	ND	25	21.1	84%	80%-120%
1,1,1-Trichloroethane (1,1,1-TCA)	ND	25	22.3	89%	80%-120%
1,1,2-Trichloroethane (1,1,2-TCA)	ND	25	20.9	84%	80%-120%
Trichloroethene (TCE)	ND	25	22.0	88%	80%-120%
Trichlorofluoromethane (Freon 11)	ND	25	24.0	96%	80%-120%
m,p-Xylenes	ND	50	45.2	90%	80%-120%
o-Xylene	ND	25	22.1	88%	80%-120%
Vinyl chloride (VC)	ND	25	25.3	101%	80%-120%

SURROGATE	SPK conc	%RC		%RC		
Dibromofluoromethane	50	93%		94%		
Toluene-d8	50	95%		97%		
4-Bromofluorobenzene	50	93%		100%		

Notes : ND - Analytes not detected at, or the stated detection limit (1ug/L air)

Gordy Voigt
Laboratory Director

FEB 11 1997
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LABORATORY QA/QC REPORT FOR ORGANICS

Laboratory Quality Control Check Sample (LCS)

METHOD : EPA 8260 | **Project No: 9636-0541** | **REPORTING UNITS : µg/L**

DATE PERFORMED: 1/20/97
SUPPLY SOURCE: Absolute Standards, INC.
LOT NUMBER: 080395(gases), 082694(liq.)
DATE OF SOURCE: 12/10/96

LAB LCS ID: LCS 1/20 MS5

ANALYTE	SPIKE CONC	RESULT	%RECOVERY	ACP %REC LIMIT
Benzene	25	23.3	93%	80%-120%
Bromodichloromethane	25	24.2	97%	80%-120%
Bromoform	25	22.9	91%	80%-120%
Bromomethane	25	24.6	98%	80%-120%
Carbon tetrachloride	25	24.6	98%	80%-120%
Chlorobenzene	25	23.3	93%	80%-120%
Chloroethane	25	24.2	97%	80%-120%
Chloroform	25	24.7	99%	80%-120%
Chloromethane	25	25.6	102%	80%-120%
Dibromochloromethane	25	22.9	92%	80%-120%
1,2-Dichlorobenzene	25	23.6	94%	80%-120%
1,3-Dichlorobenzene	25	23.9	95%	80%-120%
1,4-Dichlorobenzene	25	24.0	96%	80%-120%
Dichlorodifluoromethane (Freon 12)	25	30.3	121%	80%-120%
1,1-Dichloroethane (1,1-DCA)	25	23.1	92%	80%-120%
1,2-Dichloroethane (1,2-DCA)	25	24.9	100%	80%-120%
1,1-Dichloroethene (1,1-DCE)	25	22.3	89%	80%-120%
cis-1,2-Dichloroethene (c-1,2-DCE)	25	24.5	98%	80%-120%
trans-1,2-Dichloroethene (t-1,2-DCE)	25	21.9	88%	80%-120%
1,2-Dichloropropane	25	23.8	95%	80%-120%
cis-1,3-Dichloropropene	25	25.9	104%	80%-120%
trans-1,3-Dichloropropene	25	21.0	84%	80%-120%
Ethyl benzene	25	23.1	92%	80%-120%
Methylene chloride (Dichloromethane)	25	24.4	97%	80%-120%
1,1,1,2-Tetrachloroethane	25	23.9	96%	80%-120%
1,1,2,2-Tetrachloroethane	25	22.1	89%	80%-120%
Tetrachloroethene (PCE)	25	24.4	98%	80%-120%
Toluene	25	22.6	90%	80%-120%
1,1,1-Trichloroethane (1,1,1-TCA)	25	25.0	100%	80%-120%
1,1,2-Trichloroethane (1,1,2-TCA)	25	23.3	93%	80%-120%
Trichloroethene (TCE)	25	23.4	93%	80%-120%
Trichlorofluoromethane (Freon 11)	25	21.7	87%	80%-120%
m,p-Xylenes	50	46.2	92%	80%-120%
o-Xylene	25	22.8	91%	80%-120%
Vinyl chloride (VC)	25	25.6	102%	80%-120%
SURROGATE	SPK conc	%RC		
Dibromofluoromethane	50	114%		
Toluene-d8	50	112%		
4-Bromofluorobenzene	50	111%		

Notes : ND - Analytes not detected at, or above the stated detection limit

Gordy Voigt
Laboratory Director

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Date

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1D010MS5-QCV Dup

LABORATORY QA/QC REPORT FOR ORGANICS

METHOD : EPA 8260 | Project No: 9636-0541 | REPORTING UNITS : µg/L-air

DATE PERFORMED: 1/20/97
BATCH #: 5-0120-1V

	DATE ANALYZED	1/20/97	1/20/97	RPD %
	LAB SAMPLE ID	1D010-19	1D010-20	
	CLIENT SAMPLE ID	GSV-4-20	GSV-4-20D	
	DILUTION FACTOR	0.1	0.1	
COMPOUND	CRDL			
Benzene	1	ND	ND	0%
Bromodichloromethane	1	ND	ND	0%
Bromoform	1	ND	ND	0%
Bromomethane	1	ND	ND	0%
Carbon tatrachloride	1	ND	ND	0%
Chlorobenzene	1	ND	ND	0%
Chloroethane	1	ND	ND	0%
Chloroform	1	ND	ND	0%
Chloromethane	1	ND	ND	0%
Dibromochloromethane	1	ND	ND	0%
1,2-Dichlorobenzene	1	ND	ND	0%
1,3-Dichlorobenzene	1	ND	ND	0%
1,4-Dichlorobenzene	1	ND	ND	0%
Dichlorodifluoromethane (Freon 12)	1	ND	ND	0%
1,1-Dichloroethane (1,1-DCA)	1	ND	ND	0%
1,2-Dichloroethane (1,2-DCA)	1	ND	ND	0%
1,1-Dichloroethene (1,1-DCE)	1	ND	ND	0%
cis-1,2-Dichloroethene (c-1,2-DCE)	1	ND	ND	0%
trans-1,2-Dichloroethene (t-1,2-DCE)	1	ND	ND	0%
1,2-Dichloropropane	1	ND	ND	0%
cis-1,3-Dichloropropene	1	ND	ND	0%
trans-1,3-Dichloropropene	1	ND	ND	0%
Ethyl benzene	1	ND	ND	0%
Methylene chloride (Dichloromethane)	1	ND	ND	0%
1,1,1,2-Tetrachloroethane	1	ND	ND	0%
1,1,2,2-Tetrachloroethane	1	ND	ND	0%
Tetrachloroethene (PCE)	1	ND	ND	0%
Toluene	1	ND	ND	0%
1,1,1-Trichloroethane (1,1,1-TCA)	1	ND	ND	0%
1,1,2-Trichloroethane (1,1,2-TCA)	1	ND	ND	0%
Trichloroethene (TCE)	1	ND	ND	0%
Trichlorofluoromethane (Freon 11)	1	ND	ND	0%
Trichlorotrifluoroethane (Freon 113)	1	ND	ND	0%
m,p-Xylenes	1	ND	ND	0%
o-Xylene	1	ND	ND	0%
Vinyl chloride (VC)	1	ND	ND	0%

SURROGATE	SPK conc	ACP %	%RC	%RC
Dibromofluoromethane	50	75%-110%	109%	106%
Toluene-d8	50	80%-115%	111%	111%
4-Bromofluorobenzene	50	75%-125%	114%	111%

Notes :
ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
Dilution Factor equal 1 for 5.0cc injection

Laboratory Director

FEB 11 1997
Date

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SDG 1D011 BURBANK AIRPORT

DATA PACKAGE - 8260 Analysis-Soil Vapor

Prepared By:

ONSITE ENVIRONMENTAL LABORATORIES

Submitted To:

FUGRO WEST

36/44

February 1997

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ENVIRONMENTAL
LABORATORIES, INC.

[redacted]

Date: February 6, 1997
From: Garth Voigt
To: Dave Parker
Re: Case Narrative for Project 9636-0541
Laboratory ID # 1D011 (01 through 35)

Samples were received by ONSITE Mobile Laboratory # 1 on January 21, 1997
1997 for EPA analysis 8260 - Soil Vapor Analysis

Lab ID No.	Field ID No.	Date of Preliminary Report	Date of Final Report	Notes
1D011-01	EQUIPBLK-Jeff	January 21, 1997	February 6, 1997	4a
1D011-02	EQUIPBLK-Frank	January 21, 1997	February 6, 1997	4a
1D011-03	EQUIPBLK-Dave	January 21, 1997	February 6, 1997	
1D011-04	FSV-10-10	January 21, 1997	February 6, 1997	4a
1D011-05	FSV-11-10	January 21, 1997	February 6, 1997	4a
1D011-06	FSV-09-10	January 21, 1997	February 6, 1997	
1D011-07	FSV-10-20	January 21, 1997	February 6, 1997	4a
1D011-08	FSV-09-20	January 21, 1997	February 6, 1997	4a
1D011-09	FSV-11-20	January 21, 1997	February 6, 1997	4a
1D011-10	GSV-52-10	January 21, 1997	February 6, 1997	
1D011-11	FSV-12-10	January 21, 1997	February 6, 1997	4a
1D011-12	GSV-52-20	January 21, 1997	February 6, 1997	4a
1D011-13	FSV-12-20	January 21, 1997	February 6, 1997	4a
1D011-14	GSV-60-10	January 21, 1997	February 6, 1997	
1D011-15	GSV-53-10	January 21, 1997	February 6, 1997	4a
1D011-16	GSV-60-20	January 21, 1997	February 6, 1997	4a
1D011-17	GSV-61-10	January 21, 1997	February 6, 1997	4a
1D011-18	GSV-53-20	January 21, 1997	February 6, 1997	
1D011-19	GSV-61-20	January 21, 1997	February 6, 1997	4a
1D011-20	GSV-62-10	January 21, 1997	February 6, 1997	4a
1D011-21	GSV-54-10	January 21, 1997	February 6, 1997	4a
1D011-22	GSV-63-10	January 21, 1997	February 6, 1997	
1D011-23	GSV-54-20	January 21, 1997	February 6, 1997	4a
1D011-24	GSV-63-20	January 21, 1997	February 6, 1997	4a
1D011-25	GSV-62-20	January 21, 1997	February 6, 1997	
1D011-26	GSV-55-10	January 21, 1997	February 6, 1997	4a
1D011-27	GSV-64-10	January 21, 1997	February 6, 1997	4a
1D011-28	GSV-65-10	January 21, 1997	February 6, 1997	
1D011-29	GSV-55-20	January 21, 1997	February 6, 1997	4a
1D011-30	GSV-65-20	January 21, 1997	February 6, 1997	4a
1D011-31	GSV-64-20	January 21, 1997	February 6, 1997	4a
1D011-32	GSV-66-10	January 21, 1997	February 6, 1997	4a
1D011-33	GSV-47-10	January 21, 1997	February 6, 1997	4a
1D011-34	GSV-56-10	January 21, 1997	February 6, 1997	
1D011-35	GSV-56-20	January 21, 1997	February 6, 1997	4a

Sample receipt: All Chain of custody and cooler receipt procedures were observed.

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2. Calibration checks: All initial and continuing calibration check standards were acceptable for all analyses.

3. Method blank: The method blank was acceptable for all analyses.

4. Laboratory Control/Laboratory Control Dup. Sample: The LCS recoveries were acceptable for all analyses.
4a. Laboratory Control/Laboratory Control Dup. Sample: The LCS associated with these samples had analyte recoveries outside of QC limits. All other QC was acceptable.
5. Matrix Spike/Matrix Spike Duplicate: The MS/MSD analyses' are not required for Soil Vapor.

6. Surrogates:All surrogate recoveries were within acceptable parameters.
6a. Surrogates:Surrogate recoveries were outside of QC limits due to matrix effects.
6b. Surrogates:Surrogate recoveries were above QC limits. This was reported to the client. As the sample result was ND, the sample was not re-extracted.

7. Samples: Sample results were satisfactory for all parameters
7a. Samples: Samples were re-analyzed in order to demonstarte matrix interference.
7b. Samples: Samples were diluted in order to bring target analytes within calibration range.
7c. Samples: Not enough sample was received to perform requested analysis.

8. Sample Duplicates: The sample duplicates were acceptable for all analyses'.

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[redacted]

Date: February 6, 1997
From: Garth Voigt
To: Dave Parker
Re: Case Narrative for Project 9636-0541
Laboratory ID # 1D011 (36 through 56)

Samples were received by ONSITE Mobile Laboratory # 1 on January 21, 1997
1997 for EPA analysis 8260 - Soil Vapor Analysis

Lab ID No.	Field ID No.	Date of Preliminary Report	Date of Final Report	Notes
1D011-36	GSV-56-20D	January 21, 1997	February 6, 1997	4a,8
1D011-37	GSV-66-20	January 21, 1997	February 6, 1997	4a
1D011-38	GSV-66-20D	January 21, 1997	February 6, 1997	4a,8
1D011-39	GSV-47-20	January 21, 1997	February 6, 1997	4a
1D011-40	GSV-47-20D	January 21, 1997	February 6, 1997	4a,8
1D011-41	GSV-45-10	January 21, 1997	February 6, 1997	4a
1D011-42	GSV-48-10	January 21, 1997	February 6, 1997	4a
1D011-43	GSV-46-10	January 21, 1997	February 6, 1997	4a
1D011-44	GSV-48-20	January 21, 1997	February 6, 1997	
1D011-45	GSV-46-20	January 21, 1997	February 6, 1997	4a
1D011-46	GSV-45-20	January 21, 1997	February 6, 1997	4a
1D011-47	GSV-72-10	January 21, 1997	February 6, 1997	4a
1D011-48	GSV-27-10	January 21, 1997	February 6, 1997	
1D011-49	GSV-72-20	January 21, 1997	February 6, 1997	
1D011-50	GSV-72-20D	January 21, 1997	February 6, 1997	8
1D011-51	Travel Blank	January 21, 1997	February 6, 1997	4a
1D011-52	GSV-27-20	January 21, 1997	February 6, 1997	4a
1D011-53	GSV-38-10	January 21, 1997	February 6, 1997	4a
1D011-54	GSV-38-20	January 21, 1997	February 6, 1997	4a
1D011-55	GSV-38-20D	January 21, 1997	February 6, 1997	4a,8
1D011-56	TripBlk-LCW	January 21, 1997	February 6, 1997	4a

1. Sample receipt: All Chain of custody and cooler receipt procedures were observed.

2. Calibration checks: All initial and continuing calibration check standards were acceptable for all analyses.

3. Method blank: The method blank was acceptable for all analyses.

4. Laboratory Control/Laboratory Control Dup. Sample: The LCS recoveries were acceptable for all analyses.
4a. Laboratory Control/Laboratory Control Dup. Sample: The LCS associated with these samples had analyte recoveries outside of QC limits. All other QC was acceptable.
5. Matrix Spike/Matrix Spike Duplicate: The MS/MSD analyses' are not required for Soil Vapor.

6. Surrogates: All surrogate recoveries were within acceptable parameters.
6a. Surrogates: Surrogate recoveries were outside of QC limits due to matrix effects.
b. Surrogates: Surrogate recoveries were above QC limits. This was reported to the client. As the sample result was ND, the sample was not re-extracted.

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7. Samples: Sample results were satisfactory for all parameters
7a. Samples: Samples were re-analyzed in order to demonstarte matrix interference.
7b. Samples: Samples were diluted in order to bring target analytes within calibration range.
7c. Samples: Sample leaked before analysis. Not enough sample to perform requested analysis.

8. Sample Duplicates: The sample duplicates were acceptable for all analyses'.

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CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION

LABORATORY REPORT FORM (COVER PAGE 1)

Laboratory Name: Onsite Environmental Laboratories, Inc.

Address: 5500 Boscell Common
Fremont, CA 94538

Telephone/FAX: (510) 490-8571 / (510) 490-8572

ELAP Certification No. 1774 Expiration Date: 7/31/98

Authorized Signature
Name, Title (print) Garth Voigt, Laboratory Director

Signature, Date Garth Voigt, 2/10/97

Client Name: Fugro West, Inc.

Project No.: 9636-0541

Date(s) Sampled: 1/21/97 To same

Date(s) received: 1/21/97 To same

Date(s) reported: 1/22/97

Chain of custody received: Yes (circled) No ____

Comments: ____

(RWQCB Labform;Ver12/94)

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION

LABORATORY REPORT FORM (COVER PAGE 2)

Organic Analyses	# of Samples	# of Samples Subcontracted
56 soil vapor & air samples for 8260		

Sample Condition: Acceptable

Inorganic Analyses	# of Samples	# of Samples Subcontracted

Sample Condition:

Microbiological Analyses	# of Samples	# of Samples Subcontracted

Sample Condition:

Other Types of Analyses	# of Samples	# of Samples Subcontracted

Sample condition:

(RWQCB LabForm;Ver12/94)

ANALYTICAL RESULTS SUMMARY

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[redacted]

LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260 Project No: 9636-0541 REPORTING UNITS : µg/L-air

		DATE ANALYZED	1/21/97	1/21/97	1/21/97	1/21/97	1/21/97	1/21/97	1/21/97
		LAB SAMPLE ID	1D011-01	1D011-02	1D011-03	1D011-04	1D011-05	1D011-06	1D011-07
		CLIENT SAMPLE ID	EquipBlk-Je	EquipBlk-F	EquipBlk-D	FSV-10-10	FSV-11-10	FSV-09-10	FSV-10-20
		DILUTION FACTOR	0.1	0.1	0.1	0.1	0.1	0.1	0.1
COMPOUND		CRDL	MB	MB	MB				
Benzene		1	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		1	ND	ND	ND	ND	ND	ND	ND
Bromoform		1	ND	ND	ND	ND	ND	ND	ND
Bromomethane		1	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride		1	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Chloroethane		1	ND	ND	ND	ND	ND	ND	ND
Chloroform		1	ND	ND	ND	ND	ND	ND	ND
Chloromethane		1	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		1	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene		1	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)		1	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		1	ND	ND	ND	ND	ND	ND	ND
Toluene		1	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorotrifluoroethane (Freon 113)		1	ND	ND	ND	ND	ND	ND	ND
m,p-Xylenes		1	ND	ND	ND	ND	ND	ND	ND
o-Xylene		1	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)		1	ND	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-110%	110%	93%	108%	106%	94%	106%	88%
Toluene-d8	50	80%-115%	92%	93%	112%	91%	92%	112%	96%
4-Bromofluorobenzene	50	75%-125%	93%	94%	112%	91%	94%	112%	89%

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
J - Estimated value
Dilution Factor equal 1 for 5.0cc injection

Laboratory Director

FEB 11 1997
Date

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LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260 Project No: 9636-0541 REPORTING UNITS : µg/L-air

		DATE ANALYZED	1/21/97	1/21/97	1/21/97	1/21/97	1/21/97	1/21/97	1/21/97
		LAB SAMPLE ID	1D011-08	1D011-09	1D011-10	1D011-11	1D011-12	1D011-13	1D011-14
		CLIENT SAMPLE ID	FSV-09-20	FSV-11-20	GSV-52-10	FSV-12-10	GSV-52-20	FSV-12-20	GSV-60-10
		DILUTION FACTOR	0.1	0.1	0.1	0.1	0.1	0.1	0.1
COMPOUND		CRDL							
Benzene		1	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		1	ND	ND	ND	ND	ND	ND	ND
Bromoform		1	ND	ND	ND	ND	ND	ND	ND
Bromomethane		1	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride		1	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Chloroethane		1	ND	ND	ND	ND	ND	ND	ND
Chloroform		1	ND	ND	ND	ND	ND	ND	ND
Chloromethane		1	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		1	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene		1	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)		1	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		1	ND	ND	ND	ND	ND	ND	ND
Toluene		1	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	ND	ND	3.0	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorotrifluoroethane (Freon 113)		1	ND	ND	ND	ND	ND	ND	ND
m,p-Xylenes		1	ND	ND	ND	ND	ND	ND	ND
o-Xylene		1	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)		1	ND	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-110%	115%	94%	107%	111%	92%	93%	106%
Toluene-d8	50	80%-115%	90%	92%	112%	90%	97%	93%	110%
4-Bromofluorobenzene	50	75%-125%	90%	95%	111%	90%	93%	94%	109%

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
J - Estimated value
Dilution Factor equal 1 for 5.0cc injection

Gareth Vogt
Laboratory Director

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LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260 | Project No: 9636-0541 | REPORTING UNITS : µg/L-air

		DATE ANALYZED	1/21/97	1/21/97	1/21/97	1/21/97	1/21/97	1/21/97	1/21/97
		LAB SAMPLE ID	1D011-15*	1D011-16	1D011-17	1D011-18*	1D011-19	1D011-20	1D011-21
		CLIENT SAMPLE ID	GSV-53-10	GSV-60-20	GSV-61-10	GSV-53-20	GSV-61-20	GSV-62-10	GSV-54-10
		DILUTION FACTOR	0.1	0.1	0.1	0.1	0.1	0.1	0.1
COMPOUND		CRDL							
Benzene		1	1.4	ND	ND	ND	ND	ND	ND
Bromodichloromethane		1	ND	ND	ND	ND	ND	ND	ND
Bromoform		1	ND	ND	ND	ND	ND	ND	ND
Bromomethane		1	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride		1	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Chloroethane		1	ND	ND	ND	ND	ND	ND	ND
Chloroform		1	ND	ND	ND	ND	ND	ND	ND
Chloromethane		1	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		1	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene		1	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)		1	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		1	ND	ND	ND	ND	ND	ND	ND
Toluene		1	ND	ND	ND	2.8	ND	ND	1.2
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorotrifluoroethane (Freon 113)		1	ND	1.9 J	ND	ND	ND	ND	ND
m,p-Xylenes		1	ND	ND	ND	1.5	ND	ND	ND
o-Xylene		1	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)		1	ND	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-110%	108%	92%	96%	106%	100%	93%	94%
Toluene-d8	50	80%-115%	91%	96%	93%	111%	89%	92%	96%
4-Bromofluorobenzene	50	75%-125%	90%	92%	94%	111%	85%	92%	91%

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
J - Estimated value
* - Hydrocarbons Within Gasoline Range Detected in Sample
Dilution Factor equal 1 for 5.0cc injection

Gerald Vorgt
Laboratory Director

FEB 11 1997
Date

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LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260 | Project No: 9636-0541 | REPORTING UNITS : µg/L-air

		DATE ANALYZED	1/21/97	1/21/97	1/21/97	1/21/97	1/21/97	1/21/97	1/21/97
		LAB SAMPLE ID	1D011-22	1D011-23	1D011-24	1D011-25	1D011-26	1D011-27	1D011-28
		CLIENT SAMPLE ID	GSV-63-10	GSV-54-20	GSV-63-20	GSV-62-20	GSV-55-10	GSV-64-10	GSV-65-10
		DILUTION FACTOR	0.1	0.1	0.1	0.1	0.1	0.1	0.1
COMPOUND		CRDL							
Benzene		1	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		1	ND	ND	ND	ND	ND	ND	ND
Bromoform		1	ND	ND	ND	ND	ND	ND	ND
Bromomethane		1	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride		1	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Chloroethane		1	ND	ND	ND	ND	ND	ND	ND
Chloroform		1	ND	ND	ND	ND	ND	ND	ND
Chloromethane		1	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		1	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene		1	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)		1	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		1	ND	ND	ND	ND	ND	ND	ND
Toluene		1	ND	2.2	ND	ND	2.2	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorotrifluoroethane (Freon 113)		1	ND	ND	ND	ND	ND	ND	ND
m,p-Xylenes		1	ND	1.1	ND	ND	ND	ND	ND
o-Xylene		1	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)		1	ND	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-110%	109%	103%	94%	106%	93%	109%	106%
Toluene-d8	50	80%-115%	112%	90%	93%	112%	97%	90%	112%
4-Bromofluorobenzene	50	75%-125%	111%	91%	94%	112%	96%	92%	111%

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
J - Estimated value
Dilution Factor equal 1 for 5.0cc injection

Gareth Vogt
Laboratory Director

FEB 11 1997
Date

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LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260 | Project No: 9636-0541 | REPORTING UNITS : µg/L-air

		DATE ANALYZED	1/21/97	1/21/97	1/21/97	1/21/97	1/21/97	1/21/97	1/21/97
		LAB SAMPLE ID	1D011-29*	1D011-30	1D011-31	1D011-32	1D011-33	1D011-34	1D011-35
		CLIENT SAMPLE ID	GSV-55-20	GSV-65-20	GSV-64-20	GSV-66-10	GSV-47-10	GSV-56-10	GSV-56-20
		DILUTION FACTOR	0.1	0.1	0.1	0.1	0.1	0.1	0.1
COMPOUND		CRDL							
Benzene		1	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		1	ND	ND	ND	ND	ND	ND	ND
Bromoform		1	ND	ND	ND	ND	ND	ND	ND
Bromomethane		1	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride		1	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Chloroethane		1	ND	ND	ND	ND	ND	ND	ND
Chloroform		1	ND	ND	ND	ND	ND	ND	ND
Chloromethane		1	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		1	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene		1	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)		1	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		1	ND	1.2	1.4	2.3	ND	ND	ND
Toluene		1	ND	ND	ND	ND	ND	1.5	2.5
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorotrifluoroethane (Freon 113)		1	ND	5.9 J	7.1 J	9.2 J	3.2 J	ND	2.9 J
m,p-Xylenes		1	ND	ND	ND	ND	ND	ND	1.3
o-Xylene		1	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)		1	ND	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-110%	95%	110%	92%	110%	95%	109%	102%
Toluene-d8	50	80%-115%	92%	90%	98%	90%	93%	112%	90%
4-Bromofluorobenzene	50	75%-125%	94%	91%	94%	93%	95%	111%	88%

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
J - Estimated value
* - Hydrocarbons Within Gasoline Range Detected in Sample
Dilution Factor equal 1 for 5.0cc injection

Gareth Vogt
Laboratory Director

FEB 11 1997
Date

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LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260 | Project No: 9636-0541 | REPORTING UNITS : µg/L-air

		DATE ANALYZED	1/21/97	1/21/97	1/21/97	1/21/97	1/21/97	1/21/97	1/21/97
		LAB SAMPLE ID	1D011-36	1D011-37	1D011-38	1D011-39	1D011-40	1D011-41	1D011-42
		CLIENT SAMPLE ID	GSV-56-20D	GSV-66-20	GSV-66-20D	GSV-47-20	GSV-47-20D	GSV-45-10	GSV-48-10
		DILUTION FACTOR	0.1	0.1	0.1	0.1	0.1	0.1	0.1
COMPOUND		CRDL							
Benzene		1	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		1	ND	ND	ND	ND	ND	ND	ND
Bromoform		1	ND	ND	ND	ND	ND	ND	ND
Bromomethane		1	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride		1	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Chloroethane		1	ND	ND	ND	ND	ND	ND	ND
Chloroform		1	ND	ND	ND	ND	ND	ND	ND
Chloromethane		1	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		1	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene		1	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)		1	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		1	ND	ND	ND	1.3	1.2	ND	1.5
Toluene		1	2.1	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorotrifluoroethane (Freon 113)		1	1.5 J	9.1 J	13 J	2.9 J	2.6 J	ND	1.9 J
m,p-Xylenes		1	ND	ND	ND	ND	ND	ND	1.2
o-Xylene		1	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)		1	ND	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-110%	104%	93%	94%	91%	91%	92%	108%
Toluene-d8	50	80%-115%	89%	93%	93%	98%	97%	98%	90%
4-Bromofluorobenzene	50	75%-125%	90%	94%	95%	98%	94%	98%	92%

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
J - Estimated value
Dilution Factor equal 1 for 5.0cc injection

Laboratory Director

FEB 11 1997
Date

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LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260 **Project No: 9636-0541** **REPORTING UNITS : µg/L-air**

		DATE ANALYZED	1/21/97	1/21/97	1/21/97	1/21/97	1/21/97	1/21/97	1/21/97
		LAB SAMPLE ID	1D011-43	1D011-44	1D011-45	1D011-46	1D011-47*	1D011-48	1D011-49
		CLIENT SAMPLE ID	GSV-46-10	GSV-48-20	GSV-46-20	GSV-45-20	GSV-72-10	GSV-27-10	GSV-72-20
		DILUTION FACTOR	0.1	0.1	0.1	0.1	0.1	0.1	0.1
COMPOUND		CRDL							
Benzene		1	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		1	ND	ND	ND	ND	ND	ND	ND
Bromoform		1	ND	ND	ND	ND	ND	ND	ND
Bromomethane		1	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride		1	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Chloroethane		1	ND	ND	ND	ND	ND	ND	ND
Chloroform		1	ND	ND	ND	ND	ND	ND	ND
Chloromethane		1	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		1	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene		1	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)		1	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		1	ND	ND	1.2	ND	ND	ND	ND
Toluene		1	ND	2.6	ND	ND	1.7	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorotrifluoroethane (Freon 113)		1	ND	2.5 J	1.2 J	ND	ND	ND	ND
m,p-Xylenes		1	ND	1.3	ND	ND	1.2	ND	ND
o-Xylene		1	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)		1	ND	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-110%	95%	110%	108%	92%	93%	108%	110%
Toluene-d8	50	80%-115%	93%	112%	90%	98%	93%	112%	111%
4-Bromofluorobenzene	50	75%-125%	94%	109%	90%	95%	94%	109%	110%

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
J - Estimated value
* - Hydrocarbons Within Gasoline Range Detected in Sample
Dilution Factor equal 1 for 5.0cc injection

Gordy Vogt
Laboratory Director

FEB 11 1997
Date

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LABORATORIES, INC.

LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260 Project No: 9636-0541 REPORTING UNITS : µg/L-air

		DATE ANALYZED	1/21/97	1/21/97	1/21/97	1/21/97	1/21/97	1/21/97	1/21/97
		LAB SAMPLE ID	1D011-50	1D011-51	1D011-52	1D011-53	1D011-54	1D011-55	1D011-56
		CLIENT SAMPLE ID	GSV-72-20D	Travel Blk	GSV-27-20	GSV-38-10	GSV-38-20	GSV-38-20D	TripBlk-LCW
		DILUTION FACTOR	0.1	0.1	0.1	0.1	0.1	0.1	0.1
COMPOUND		CRDL							
Benzene		1	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		1	ND	ND	ND	ND	ND	ND	ND
Bromoform		1	ND	ND	ND	ND	ND	ND	ND
Bromomethane		1	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride		1	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Chloroethane		1	ND	ND	ND	ND	ND	ND	ND
Chloroform		1	ND	ND	ND	ND	ND	ND	ND
Chloromethane		1	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		1	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene		1	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)		1	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		1	ND	ND	ND	ND	ND	ND	ND
Toluene		1	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorotrifluoroethane (Freon 113)		1	ND	ND	ND	ND	1.3 J	1.7 J	ND
m,p-Xylenes		1	ND	ND	ND	ND	ND	ND	ND
o-Xylene		1	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)		1	ND	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-110%	109%	96%	92%	106%	94%	95%	109%
Toluene-d8	50	80%-115%	111%	96%	98%	90%	92%	93%	90%
4-Bromofluorobenzene	50	75%-125%	110%	92%	95%	90%	94%	94%	91%

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
J - Estimated value
Dilution Factor equal 1 for 5.0cc injection

Gareth Voigt
Laboratory Director

FEB 11 1997
Date

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QA/QC RESULTS SUMMARY

ONSITE ENVIRONMENTAL LABORATORIES, INC.

LABORATORY QA/QC REPORT FOR ORGANICS

Laboratory Quality Control Check Sample (LCS)

METHOD : EPA 8260 **Project No: 9636-0541** **REPORTING UNITS : µg/L**

DATE PERFORMED: 1/21/97 **LAB LCS ID:** LCS 1/21 MS2
SUPPLY SOURCE: Absolute Standards, INC.
LOT NUMBER: 080395(gases), 082694(liq.)
DATE OF SOURCE: 12/3/96

ANALYTE		SPIKE CONC	RESULT	%RECOVERY	ACP %REC LIMIT
Benzene		25	25.5	102%	80%-120%
Bromodichloromethane		25	22.7	91%	80%-120%
Bromoform		25	18.0	72%	80%-120%
Bromomethane		25	28.4	114%	80%-120%
Carbon tetrachloride		25	25.9	104%	80%-120%
Chlorobenzene		25	24.7	99%	80%-120%
Chloroethane		25	30.3	121%	80%-120%
Chloroform		25	26.0	104%	80%-120%
Chloromethane		25	29.5	118%	80%-120%
Dibromochloromethane		25	22.8	91%	80%-120%
1,2-Dichlorobenzene		25	25.6	102%	80%-120%
1,3-Dichlorobenzene		25	27.1	108%	80%-120%
1,4-Dichlorobenzene		25	25.0	100%	80%-120%
Dichlorodifluoromethane (Freon 12)		25	24.6	98%	80%-120%
1,1-Dichloroethane (1,1-DCA)		25	27.5	110%	80%-120%
1,2-Dichloroethane (1,2-DCA)		25	21.7	87%	80%-120%
1,1-Dichloroethene (1,1-DCE)		25	24.7	99%	80%-120%
cis-1,2-Dichloroethene (c-1,2-DCE)		25	24.3	97%	80%-120%
trans-1,2-Dichloroethene (t-1,2-DCE)		25	25.6	102%	80%-120%
1,2-Dichloropropane		25	25.1	101%	80%-120%
cis-1,3-Dichloropropene		25	24.0	96%	80%-120%
trans-1,3-Dichloropropene		25	21.7	87%	80%-120%
Ethyl benzene		25	24.1	96%	80%-120%
Methylene chloride (Dichloromethane)		25	24.5	98%	80%-120%
1,1,1,2-Tetrachloroethane		25	26.3	105%	80%-120%
1,1,2,2-Tetrachloroethane		25	21.5	86%	80%-120%
Tetrachloroethene (PCE)		25	24.1	96%	80%-120%
Toluene		25	22.5	90%	80%-120%
1,1,1-Trichloroethane (1,1,1-TCA)		25	25.6	102%	80%-120%
1,1,2-Trichloroethane (1,1,2-TCA)		25	20.1	80%	80%-120%
Trichloroethene (TCE)		25	23.0	92%	80%-120%
Trichlorofluoromethane (Freon 11)		25	24.8	99%	80%-120%
m,p-Xylenes		50	50.3	101%	80%-120%
o-Xylene		25	25.1	100%	80%-120%
Vinyl chloride (VC)		25	33.4	133%	80%-120%
SURROGATE	SPK conc		%RC		
Dibromofluoromethane	50		105%		
Toluene-d8	50		90%		
4-Bromofluorobenzene	50		90%		

Notes : ND - Analytes not detected at, or above the stated detection limit

Gordy Voigt
Laboratory Director

FEB 11 1997
Date

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1D011MS2-QCV Dup

LABORATORY QA/QC REPORT FOR ORGANICS

METHOD : EPA 8260 | Project No: 9636-0541 | REPORTING UNITS : µg/L-air

DATE PERFORMED: 1/21/97
BATCH #: 2-0121-1V

	DATE ANALYZED	1/21/97	1/21/97	RPD %
	LAB SAMPLE ID	1D011-35	1D011-36	
	CLIENT SAMPLE ID	GSV-56-20	GSV-56-20D	
	DILUTION FACTOR	0.1	0.1	
COMPOUND	CRDL			
Benzene	1	0.41	0.31	27%
Bromodichloromethane	1	ND	ND	0%
Bromoform	1	ND	ND	0%
Bromomethane	1	ND	ND	0%
Carbon tetrachloride	1	ND	ND	0%
Chlorobenzene	1	ND	ND	0%
Chloroethane	1	ND	ND	0%
Chloroform	1	ND	ND	0%
Chloromethane	1	ND	ND	0%
Dibromochloromethane	1	ND	ND	0%
1,2-Dichlorobenzene	1	ND	ND	0%
1,3-Dichlorobenzene	1	ND	ND	0%
1,4-Dichlorobenzene	1	ND	ND	0%
Dichlorodifluoromethane (Freon 12)	1	ND	ND	0%
1,1-Dichloroethane (1,1-DCA)	1	ND	ND	0%
1,2-Dichloroethane (1,2-DCA)	1	ND	ND	0%
1,1-Dichloroethene (1,1-DCE)	1	ND	ND	0%
cis-1,2-Dichloroethene (c-1,2-DCE)	1	ND	ND	0%
trans-1,2-Dichloroethene (t-1,2-DCE)	1	ND	ND	0%
1,2-Dichloropropane	1	ND	ND	0%
cis-1,3-Dichloropropene	1	ND	ND	0%
trans-1,3-Dichloropropene	1	ND	ND	0%
Ethyl benzene	1	ND	ND	0%
Methylene chloride (Dichloromethane)	1	ND	ND	0%
1,1,1,2-Tetrachloroethane	1	ND	ND	0%
1,1,2,2-Tetrachloroethane	1	ND	ND	0%
Tetrachloroethene (PCE)	1	ND	ND	0%
Toluene	1	2.5	2.1	20%
1,1,1-Trichloroethane (1,1,1-TCA)	1	ND	ND	0%
1,1,2-Trichloroethane (1,1,2-TCA)	1	ND	ND	0%
Trichloroethene (TCE)	1	ND	ND	0%
Trichlorofluoromethane (Freon 11)	1	ND	ND	0%
Trichlorotrifluoroethane (Freon 113)	1	1.3	1.0	32%
m,p-Xylenes	1	1.3	1.0	32%
o-Xylene	1	ND	ND	0%
Vinyl chloride (VCI	1	ND	ND	0%
SURROGATE / SPK conc	ACP %	%RC	%RC	
Dibromofluoromethane / 50	75%-110%	102%	104%	
Toluene-d8 / 50	80%-115%	90%	89%	
4-Bromofluorobenzene / 50	75%-125%	88%	90%	

Notes :
ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
Dilution Factor equal 1 for 5.0cc injection

Gareth Voigt
Laboratory Director

FEB 11 1997
Date

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BGPAA 0

ONSITE
ENVIRONMENTAL
LABORATORIES, INC.

LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260

Project No: 9636-0541

REPORTING UNITS : µg/L-air

		DATE ANALYZED	1/27/97	1/27/97	1/27/97	1/27/97	1/27/97	1/27/97	1/27/97
		LAB SAMPLE ID	1D013-22	1D013-23	1D013-24	1D013-25	1D013-26	1D013-27	1D013-28
		CLIENT SAMPLE ID	GSV-69-10	FSV-03-10	FSV-04-10	GSV-69-20	FSV-03-20	FSV-04-20	FSV-02-10
		DILUTION FACTOR	0.1	0.1	0.1	0.1	0.1	0.1	0.1
COMPOUND		CRDL							
Benzene		1	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		1	ND	ND	ND	ND	ND	ND	ND
Bromoform		1	ND	ND	ND	ND	ND	ND	ND
Bromomethane		1	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride		1	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Chloroethane		1	ND	ND	ND	ND	ND	ND	ND
Chloroform		1	ND	ND	ND	ND	ND	ND	ND
Chloromethane		1	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		1	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene		1	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)		1	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		1	ND	ND	ND	ND	ND	ND	ND
Toluene		1	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorotrifluoroethane (Freon 113)		1	ND	ND	ND	ND	ND	ND	ND
m,p-Xylenes		1	ND	ND	ND	ND	ND	ND	ND
o-Xylene		1	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)		1	ND	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-110%	110%	113%	92%	100%	99%	111%	93%
Toluene-d8	50	80%-115%	112%	91%	97%	102%	101%	111%	96%
4-Bromofluorobenzene	50	75%-125%	111%	92%	93%	104%	105%	113%	89%

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
J - Estimated value
Dilution Factor equal 1 for 5.0cc injection

Laboratory Director

FEB 10 1997
Date

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ONSITE
ENVIRONMENTAL
LABORATORIES, INC.

LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260

Project No: 9636-0541

REPORTING UNITS : µg/L-air

		DATE ANALYZED	1/27/97	1/27/97	1/27/97	1/27/97	1/27/97	1/27/97	1/27/97
		LAB SAMPLE ID	1D013-29	1D013-30	1D013-31	1D013-32	1D013-33	1D013-34	1D013-35
		CLIENT SAMPLE ID	FSV-01-10	GSV-68-10	FSV-02-20	FSV-02-20D	FSV-01-20	FSV-01-20D	GSV-68-20
		DILUTION FACTOR	0.1	0.1	0.1	0.1	0.1	0.1	0.1
COMPOUND		CRDL							
Benzene		1	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		1	ND	ND	ND	ND	ND	ND	ND
Bromoform		1	ND	ND	ND	ND	ND	ND	ND
Bromomethane		1	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride		1	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Chloroethane		1	ND	ND	ND	ND	ND	ND	ND
Chloroform		1	ND	ND	ND	ND	ND	ND	ND
Chloromethane		1	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		1	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene		1	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)		1	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		1	ND	ND	ND	ND	ND	ND	ND
Toluene		1	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorotrifluoroethane (Freon 113)		1	ND	ND	ND	ND	ND	ND	ND
m,p-Xylenes		1	ND	ND	ND	ND	ND	ND	ND
o-Xylene		1	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)		1	ND	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-110%	109%	109%	95%	96%	106%	108%	114%
Toluene-d8	50	80%-115%	112%	91%	96%	96%	111%	111%	91%
4-Bromofluorobenzene	50	75%-125%	111%	88%	92%	93%	112%	112%	91%

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
J - Estimated value
Dilution Factor equal 1 for 5.0cc injection

Laboratory Director

FEB 10 1997
Date

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ONSITE
ENVIRONMENTAL
LABORATORIES, INC.

LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260

Project No: 9636-0541

REPORTING UNITS : µg/L-air

		DATE ANALYZED	1/27/97	1/27/97	1/27/97	1/27/97	1/27/97	1/27/97	1/27/97
		LAB SAMPLE ID	1D013-36	1D013-37	1D013-38	1D013-39	1D013-40	1D013-41	1D013-42
		CLIENT SAMPLE ID	GSV-68-20D	GSV-18-10	GSV-19-10	FSV-14-10	GSV-18-20	GSV-19-20	FSV-14-20
		DILUTION FACTOR	0.1	0.1	0.1	0.1	0.1	0.1	0.1
COMPOUND		CRDL							
Benzene		1	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		1	ND	ND	ND	ND	ND	ND	ND
Bromoform		1	ND	ND	ND	ND	ND	ND	ND
Bromomethane		1	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride		1	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Chloroethane		1	ND	ND	ND	ND	ND	ND	ND
Chloroform		1	ND	ND	ND	ND	ND	ND	ND
Chloromethane		1	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		1	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene		1	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)		1	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		1	ND	ND	ND	ND	ND	ND	ND
Toluene		1	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorotrifluoroethane (Freon 113)		1	ND	ND	ND	ND	ND	ND	ND
m,p-Xylenes		1	ND	ND	ND	5.6 J	ND	ND	5.9 J
o-Xylene		1	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)		1	ND	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-110%		98%	103%	103%	108%	92%	100%
Toluene-d8	50	80%-115%		97%	110%	101%	111%	95%	102%
4-Bromofluorobenzene	50	75%-125%		94%	111%	104%	112%	90%	105%

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
J - Estimated value
[redacted] Sample Lost due to power failure.
Dilution Factor equal 1 for 5.0cc injection

Laboratory Director

FEB 1 0 1997
Date

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ENVIRONMENTAL
LABORATORIES, INC.

LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260 Project No: 9636-0541 REPORTING UNITS : µg/L-air

		DATE ANALYZED	1/27/97	1/27/97	1/27/97	1/27/97	1/27/97	1/27/97	1/27/97
		LAB SAMPLE ID	1D013-43	1D013-44	1D013-45	1D013-46	1D013-47	1D013-48	1D013-49
		CLIENT SAMPLE ID	GSV-28-10	GSV-05-10	FSV-13-10	GSV-28-20	GSV-05-20	FSV-13-20	ASV-27-10
		DILUTION FACTOR	0.1	0.1	0.1	0.1	0.1	0.1	0.1
COMPOUND		CRDL							
Benzene		1	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		1	ND	ND	ND	ND	ND	ND	ND
Bromoform		1	ND	ND	ND	ND	ND	ND	ND
Bromomethane		1	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride		1	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		1	ND	ND	ND	ND	ND	ND	1.1
Chloroethane		1	ND	ND	ND	ND	ND	ND	ND
Chloroform		1	ND	ND	ND	ND	ND	ND	ND
Chloromethane		1	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		1	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene		1	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)		1	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		1	ND	ND	ND	ND	ND	ND	ND
Toluene		1	ND	ND	ND	ND	ND	ND	2.3
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorotrifluoroethane (Freon 113)		1	ND	ND	ND	ND	ND	ND	ND
m,p-Xylenes		1	ND	ND	ND	ND	ND	ND	ND
o-Xylene		1	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)		1	ND	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-110%	100%	111%	110%	101%	96%	110%	102%
Toluene-d8	50	80%-115%	102%	112%	111%	101%	96%	110%	102%
4-Bromofluorobenzene	50	75%-125%	104%	111%	113%	105%	95%	112%	104%

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
J - Estimated value
Dilution Factor equal 1 for 5.0cc injection

Gary Voigt
Laboratory Director

FEB 1 0 1997
Date

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LABORATORIES, INC.

LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260 Project No: 9636-0541 **REPORTING UNITS : µg/L-air**

		DATE ANALYZED	1/27/97	1/27/97	1/27/97	1/27/97	1/27/97	1/27/97	1/27/97
		LAB SAMPLE ID	1D013-50	1D013-51	1D013-52	1D013-53	1D013-54	1D013-55	1D013-56
		CLIENT SAMPLE ID	ASV-28-10	ASV-27-20	ASV-28-20	Trip Blank	ASV-17-10	ASV-16-10	ASV-17-20
		DILUTION FACTOR	0.1	0.1	0.1	0.1	0.1	0.1	0.1
COMPOUND		CRDL							
Benzene		1	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		1	ND	ND	ND	ND	ND	ND	ND
Bromoform		1	ND	ND	ND	ND	ND	ND	ND
Bromomethane		1	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride		1	ND	3.1	ND	ND	ND	ND	ND
Chlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Chloroethane		1	ND	ND	ND	ND	ND	ND	ND
Chloroform		1	ND	ND	ND	ND	ND	ND	ND
Chloromethane		1	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		1	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene		1	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)		1	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		1	ND	3.3	1.7	ND	ND	1.5	1.7
Toluene		1	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)		1	ND	1.9	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorotrifluoroethane (Freon 113)		1	ND	ND	ND	ND	ND	ND	ND
m,p-Xylenes		1	ND	ND	ND	ND	ND	ND	ND
o-Xylene		1	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)		1	ND	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-110%	94%	109%	98%	100%	109%	99%	94%
Toluene-d8	50	80%-115%	97%	111%	96%	102%	110%	102%	95%
4-Bromofluorobenzene	50	75%-125%	96%	113%	93%	105%	111%	105%	95%

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
J - Estimated value
Dilution Factor equal 1 for 5.0cc injection

Laboratory Director

FEB 1 0 1997
Date

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ENVIRONMENTAL
LABORATORIES, INC.

LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260 | Project No: 9636-0541 | REPORTING UNITS : µg/L-air

		DATE ANALYZED	1/27/97	1/27/97	1/27/97	1/27/97	1/27/97	1/27/97	1/27/97
		LAB SAMPLE ID	1D013-57	1D013-58	1D013-59	1D013-60	1D013-61	1D013-62	1D013-63
		CLIENT SAMPLE ID	ASV-16-20	ASV-09-10	ASV-08-10	ASV-09-20	ASV-08-20	BSV-64-10	BSV-65-10
		DILUTION FACTOR	0.1	0.1	0.1	0.1	0.1	0.1	0.1
COMPOUND		CRDL							
Benzene		1	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		1	ND	ND	ND	ND	ND	ND	ND
Bromoform		1	ND	ND	ND	ND	ND	ND	ND
Bromomethane		1	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride		1	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Chloroethane		1	ND	ND	ND	ND	ND	ND	ND
Chloroform		1	ND	ND	ND	ND	ND	ND	ND
Chloromethane		1	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		1	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene		1	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)		1	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		1	2.8	ND	ND	ND	ND	ND	ND
Toluene		1	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)		1	1.2	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorotrifluoroethane (Freon 113)		1	ND	ND	ND	ND	ND	ND	ND
m,p-Xylenes		1	ND	ND	ND	ND	ND	ND	ND
o-Xylene		1	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)		1	ND	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-110%	98%	108%	100%	97%	110%	101%	109%
Toluene-d8	50	80%-115%	96%	110%	101%	96%	110%	101%	111%
4-Bromofluorobenzene	50	75%-125%	93%	113%	104%	94%	112%	105%	111%

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
J - Estimated value
Dilution Factor equal 1 for 5.0cc injection

Laboratory Director

FEB 10 1997
Date

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LABORATORIES, INC.

1D011MS3-QCV Dup

LABORATORY QA/QC REPORT FOR ORGANICS

METHOD : EPA 8260

Project No: 9636-0541

REPORTING UNITS : µg/L-air

DATE PERFORMED: 1/21/97
BATCH #: 3-0121-1V

					RPD %			RPD %	RPD LIMIT
DATE ANALYZED			1/21/97	1/21/97		1/21/97	1/21/97		
LAB SAMPLE ID			1D011-37	1D011-38		1D011-54	1D011-55		
CLIENT SAMPLE ID			GSV-66-20	GSV-66-20D		GSV-38-20	GSV-38-20D		
DILUTION FACTOR			0.1	0.1		0.1	0.1		
COMPOUND		CRDL							
Benzene		1	ND	ND	0%	ND	ND	0%	50%
Bromodichloromethane		1	ND	ND	0%	ND	ND	0%	50%
Bromoform		1	ND	ND	0%	ND	ND	0%	50%
Bromomethane		1	ND	ND	0%	ND	ND	0%	50%
Carbon tetrachloride		1	ND	ND	0%	ND	ND	0%	50%
Chlorobenzene		1	ND	ND	0%	ND	ND	0%	50%
Chloroethane		1	ND	ND	0%	ND	ND	0%	50%
Chloroform		1	ND	ND	0%	ND	ND	0%	50%
Chloromethane		1	ND	ND	0%	ND	ND	0%	50%
Dibromochloromethane		1	ND	ND	0%	ND	ND	0%	50%
1,2-Dichlorobenzene		1	ND	ND	0%	ND	ND	0%	50%
1,3-Dichlorobenzene		1	ND	ND	0%	ND	ND	0%	50%
1,4-Dichlorobenzene		1	ND	ND	0%	ND	ND	0%	50%
Dichlorodifluoromethane (Freon 12)		1	ND	ND	0%	ND	ND	0%	50%
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	0%	ND	ND	0%	50%
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	0%	ND	ND	0%	50%
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	0%	ND	ND	0%	50%
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	0%	ND	ND	0%	50%
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	0%	ND	ND	0%	50%
1,2-Dichloropropane		1	ND	ND	0%	ND	ND	0%	50%
cis-1,3-Dichloropropene		1	ND	ND	0%	ND	ND	0%	50%
trans-1,3-Dichloropropene		1	ND	ND	0%	ND	ND	0%	50%
Ethyl benzene		1	ND	ND	0%	ND	ND	0%	50%
Methylene chloride (Dichloromethane)		1	ND	ND	0%	ND	ND	0%	50%
1,1,1,2-Tetrachloroethane		1	ND	ND	0%	ND	ND	0%	50%
1,1,2,2-Tetrachloroethane		1	ND	ND	0%	ND	ND	0%	50%
Tetrachloroethene (PCE)		1	ND	ND	0%	ND	ND	0%	50%
Toluene		1	ND	ND	0%	0.48	0.68	34	50%
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	0%	ND	ND	0%	50%
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	0%	ND	ND	0%	50%
Trichloroethene (TCE)		1	ND	ND	0%	ND	ND	0%	50%
Trichlorofluoromethane (Freon 11)		1	ND	ND	0%	ND	ND	0%	50%
Trichlorotrifluoroethane (Freon 113)		1	ND	ND	0%	ND	ND	0%	50%
m,p-Xylenes		1	9.1	13.1	36%	1.3	1.7	27	50%
o-Xylene		1	ND	ND	0%	ND	ND	0%	50%
Vinyl chloride (VC)		1	ND	ND	0%	ND	ND	0%	50%
SURROGATE	SPK conc	ACP %	%RC	%RC		%RC	%RC		
Dibromofluoromethane	50	75%-110%	93%	94%		94%	95%		
Toluene-d8	50	80%-115%	93%	93%		92%	93%		
4-Bromofluorobenzene	50	75%-125%	95%	95%		94%	94%		

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
Dilution factor equal 1 for 5.0cc injection

Gordy Vogt
Laboratory Director

FEB 11 1997
Date

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LABORATORY QA/QC REPORT FOR ORGANICS

Laboratory Quality Control Check Sample (LCS)

METHOD : EPA 8260 | Project No: 9636-0541 | REPORTING UNITS : µg/L

DATE PERFORMED: 1/21/97
SUPPLY SOURCE: Absolute Standards, INC.
LOT NUMBER: 080395(gases), 082694(liq.)
DATE OF SOURCE: 12/3/96

LAB LCS ID: LCS 1/21 MS3

ANALYTE		SPIKE CONC	RESULT	%RECOVERY	ACP %REC LIMIT
Benzene		25	23.3	93%	80%-120%
Bromodichloromethane		25	22.1	89%	80%-120%
Bromoform		25	16.6	66%	80%-120%
Bromomethane		25	24.3	97%	80%-120%
Carbon tetrachloride		25	21.8	87%	80%-120%
Chlorobenzene		25	24.0	96%	80%-120%
Chloroethane		25	25.7	103%	80%-120%
Chloroform		25	23.6	94%	80%-120%
Chloromethane		25	26.8	107%	80%-120%
Dibromochloromethane		25	19.7	79%	80%-120%
1,2-Dichlorobenzene		25	22.0	88%	80%-120%
1,3-Dichlorobenzene		25	23.5	94%	80%-120%
1,4-Dichlorobenzene		25	23.1	92%	80%-120%
Dichlorodifluoromethane (Freon 12)		25	22.1	88%	80%-120%
1,1-Dichloroethane (1,1-DCA)		25	23.2	93%	80%-120%
1,2-Dichloroethane (1,2-DCA)		25	21.0	84%	80%-120%
1,1-Dichloroethene (1,1-DCE)		25	22.7	91%	80%-120%
cis-1,2-Dichloroethene (c-1,2-DCE)		25	23.8	95%	80%-120%
trans-1,2-Dichloroethene (t-1,2-DCE)		25	23.5	94%	80%-120%
1,2-Dichloropropane		25	23.3	93%	80%-120%
cis-1,3-Dichloropropene		25	22.1	88%	80%-120%
trans-1,3-Dichloropropene		25	20.4	82%	80%-120%
Ethyl benzene		25	24.3	97%	80%-120%
Methylene chloride (Dichloromethane)		25	22.9	92%	80%-120%
1,1,1,2-Tetrachloroethane		25	22.9	91%	80%-120%
1,1,2,2-Tetrachloroethane		25	16.8	67%	80%-120%
Tetrachloroethane (PCE)		25	22.6	90%	80%-120%
Toluene		25	23.0	92%	80%-120%
1,1,1-Trichloroethane (1,1,1-TCA)		25	23.0	92%	80%-120%
1,1,2-Trichloroethane (1,1,2-TCA)		25	19.9	80%	80%-120%
Trichloroethene (TCE)		25	22.7	91%	80%-120%
Trichlorofluoromethane (Freon 11)		25	24.5	98%	80%-120%
m,p-Xylenes		50	49.3	99%	80%-120%
o-Xylene		25	23.5	94%	80%-120%
Vinyl chloride (VC)		25	26.3	105%	80%-120%
SURROGATE	SPK conc		%RC		
Dibromofluoromethane	50		93%		
Toluene-d8	50		93%		
4-Bromofluorobenzene	50		91%		

Notes : ND - Analytes not detected at, or the stated detection limit (1ug/L air)

Laboratory Director

FEB 11 1997
Date

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LABORATORIES, INC.

1D011MS4-QCV Dup

LABORATORY QA/QC REPORT FOR ORGANICS

METHOD : EPA 8260 | Project No: 9636-0541 | REPORTING UNITS : µg/L-air

DATE PERFORMED: 1/21/97
BATCH #: 4-0121-1V

	DATE ANALYZED	1/21/97	1/21/97	RPD %
	LAB SAMPLE ID	1D011-39	1D011-40	
	CLIENT SAMPLE ID	GSV-47-20	GSV-47-20D	
	DILUTION FACTOR	0.1	0.1	
COMPOUND	CRDL			
Benzene	1	ND	ND	0%
Bromodichloromethane	1	ND	ND	0%
Bromoform	1	ND	ND	0%
Bromomethane	1	ND	ND	0%
Carbon tetrachloride	1	ND	ND	0%
Chlorobenzene	1	ND	ND	0%
Chloroethane	1	ND	ND	0%
Chloroform	1	ND	ND	0%
Chloromethane	1	ND	ND	0%
Dibromochloromethane	1	ND	ND	0%
1,2-Dichlorobenzene	1	ND	ND	0%
1,3-Dichlorobenzene	1	ND	ND	0%
1,4-Dichlorobenzene	1	ND	ND	0%
Dichlorodifluoromethane (Freon 12)	1	ND	ND	0%
1,1-Dichloroethane (1,1-DCA)	1	ND	ND	0%
1,2-Dichloroethane (1,2-DCA)	1	ND	ND	0%
1,1-Dichloroethene (1,1-DCE)	1	ND	ND	0%
cis-1,2-Dichloroethene (c-1,2-DCE)	1	ND	ND	0%
trans-1,2-Dichloroethene (t-1,2-DCE)	1	ND	ND	0%
1,2-Dichloropropane	1	ND	ND	0%
cis-1,3-Dichloropropene	1	ND	ND	0%
trans-1,3-Dichloropropene	1	ND	ND	0%
Ethyl benzene	1	ND	ND	0%
Methylene chloride (Dichloromethane)	1	ND	ND	0%
1,1,1,2-Tetrachloroethane	1	ND	ND	0%
1,1,2,2-Tetrachloroethane	1	ND	ND	0%
Tetrachloroethene (PCE)	1	1.3	1.2	8%
Toluene	1	ND	ND	0%
1,1,1-Trichloroethane (1,1,1-TCA)	1	ND	ND	0%
1,1,2-Trichloroethane (1,1,2-TCA)	1	ND	ND	0%
Trichloroethene (TCE)	1	ND	ND	0%
Trichlorofluoromethane (Freon 11)	1	ND	ND	0%
Trichlorotrifluoroethane (Freon 113)	1	2.9	2.6	11%
m,p-Xylenes	1	ND	ND	0%
o-Xylene	1	ND	ND	0%
Vinyl chloride (VC)	1	ND	ND	0%
SURROGATE	SPK conc	ACP %	%RC	%RC
Dibromofluoromethane	50	75%-110%	91%	91%
Toluene-d8	50	80%-115%	98%	97%
4-Bromofluorobenzene	50	75%-125%	98%	94%

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
Dilution Factor equal 1 for 5.0cc injection

Laboratory Director

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Date

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LABORATORY QA/QC REPORT FOR ORGANICS

Laboratory Quality Control Check Sample (LCS)

METHOD : EPA 8260 | **Project No: 9636-0541** | **REPORTING UNITS : µg/L**

DATE PERFORMED: 1/21/97
SUPPLY SOURCE: Absolute Standards, INC.
LOT NUMBER: 080395(gases), 082694(liq.)
DATE OF SOURCE: 12/10/96

LAB LCS ID: LCS01 1/21 MS4

ANALYTE		MB 1/21	SPIKE CONC	RESULT	%RECOVERY	ACP %REC LIMIT
Benzene		ND	25	20.3	81%	80%-120%
Bromodichloromethane		ND	25	19.4	78%	80%-120%
Bromoform		ND	25	16.2	65%	80%-120%
Bromomethane		ND	25	19.9	80%	80%-120%
Carbon tetrachloride		ND	25	19.9	80%	80%-120%
Chlorobenzene		ND	25	20.5	82%	80%-120%
Chloroethane		ND	25	21.2	85%	80%-120%
Chloroform		ND	25	20.6	83%	80%-120%
Chloromethane		ND	25	23.8	95%	80%-120%
Dibromochloromethane		ND	25	17.7	71%	80%-120%
1,2-Dichlorobenzene		ND	25	20.9	84%	80%-120%
1,3-Dichlorobenzene		ND	25	20.9	84%	80%-120%
1,4-Dichlorobenzene		ND	25	21.0	84%	80%-120%
Dichlorodifluoromethane (Freon 12)		ND	25	25.2	101%	80%-120%
1,1-Dichloroethane (1,1-DCA)		ND	25	20.3	81%	80%-120%
1,2-Dichloroethane (1,2-DCA)		ND	25	20.7	83%	80%-120%
1,1-Dichloroethene (1,1-DCE)		ND	25	20.0	80%	80%-120%
cis-1,2-Dichloroethene (c-1,2-DCE)		ND	25	21.3	85%	80%-120%
trans-1,2-Dichloroethene (t-1,2-DCE)		ND	25	19.8	79%	80%-120%
1,2-Dichloropropane		ND	25	20.5	82%	80%-120%
cis-1,3-Dichloropropene		ND	25	21.5	86%	80%-120%
trans-1,3-Dichloropropene		ND	25	17.0	68%	80%-120%
Ethyl benzene		ND	25	21.0	84%	80%-120%
Methylene chloride (Dichloromethane)		ND	25	19.3	77%	80%-120%
1,1,1,2-Tetrachloroethane		ND	25	19.9	80%	80%-120%
1,1,2,2-Tetrachloroethane		ND	25	16.8	67%	80%-120%
Tetrachloroethene (PCE)		ND	25	21.0	84%	80%-120%
Toluene		ND	25	20.6	82%	80%-120%
1,1,1-Trichloroethane (1,1,1-TCA)		ND	25	21.2	85%	80%-120%
1,1,2-Trichloroethane (1,1,2-TCA)		ND	25	19.3	77%	80%-120%
Trichloroethene (TCE)		ND	25	20.4	82%	80%-120%
Trichlorofluoromethane (Freon 11)		ND	25	22.6	91%	80%-120%
m,p-Xylenes		ND	50	41.9	84%	80%-120%
o-Xylene		ND	25	20.1	80%	80%-120%
Vinyl chloride (VC)		ND	25	22.3	89%	80%-120%
SURROGATE	SPK conc	%RC		%RC		
Dibromofluoromethane	50	93%		95%		
Toluene-d8	50	98%		98%		
4-Bromofluorobenzene	50	96%		96%		

Notes : ND - Analytes not detected at, or above the stated detection limit

Gordy Vogt
Laboratory Director

FEB 11 1997
Date

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1D011MS5-QCV Dup

LABORATORY QA/QC REPORT FOR ORGANICS

METHOD : EPA 8260 **Project No: 9636-0541** **REPORTING UNITS : µg/L-air**

DATE PERFORMED: 1/21/97
BATCH #: 5-0121-1V

		DATE ANALYZED	1/21/97	1/21/97	RPD %
		LAB SAMPLE ID	1D011-49	1D011-50	
		CLIENT SAMPLE ID	GSV-70-20	GSV-70-200	
		DILUTION FACTOR	0.1	0.1	
COMPOUND		CRDL			
Benzene		1	ND	ND	0%
Bromodichloromethane		1	ND	ND	0%
Bromoform		1	ND	ND	0%
Bromomethane		1	ND	ND	0%
Carbon tetrachloride		1	ND	ND	0%
Chlorobenzene		1	ND	ND	0%
Chloroethane		1	ND	ND	0%
Chloroform		1	ND	ND	0%
Chloromethane		1	ND	ND	0%
Dibromochloromethane		1	ND	ND	0%
1,2-Dichlorobenzene		1	ND	ND	0%
1,3-Dichlorobenzene		1	ND	ND	0%
1,4-Dichlorobenzene		1	ND	ND	0%
Dichlorodifluoromethane (Freon 12)		1	ND	ND	0%
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	0%
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	0%
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	0%
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	0%
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	0%
1,2-Dichloropropane		1	ND	ND	0%
cis-1,3-Dichloropropene		1	ND	ND	0%
trans-1,3-Dichloropropene		1	ND	ND	0%
Ethyl benzene		1	ND	ND	0%
Methylene chloride (Dichloromethane)		1	ND	ND	0%
1,1,1,2-Tetrachloroethane		1	ND	ND	0%
1,1,2,2-Tetrachloroethane		1	ND	ND	0%
Tetrachloroethene (PCE)		1	ND	ND	0%
Toluene		1	ND	ND	0%
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	0%
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	0%
Trichloroethene (TCE)		1	ND	ND	0%
Trichlorofluoromethane (Freon 11)		1	ND	ND	0%
Trichlorotrifluoroethane (Freon 113)		1	0.35	0.35	0%
m,p-Xylenes		1	ND	ND	0%
o-Xylene		1	ND	ND	0%
Vinyl chloride (VC)		1	ND	ND	0%
SURROGATE	SPK conc	ACP %	%RC	%RC	
Dibromofluoromethane	50	75%-110%	110%	109%	
Toluene-d8	50	80%-115%	111%	111%	
4-Bromofluorobenzene	50	75%-125%	110%	110%	

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
Dilution Factor equal 1 for 5.0cc injection

Gordy Vogt
Laboratory Director

FEB 1 1 1997
Date

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LABORATORY QA/QC REPORT FOR ORGANICS

Laboratory Quality Control Check Sample (LCS)

METHOD : EPA 8260 | Project No: 9636-0541 | REPORTING UNITS : µg/L

DATE PERFORMED: 1/21/97
SUPPLY SOURCE: Absolute Standards, INC.
LOT NUMBER: 080395(gases), 082694(liq.)
DATE OF SOURCE: 12/3/96

LAB LCS ID: LCS 1/21 MS5

ANALYTE		SPIKE CONC	RESULT	%RECOVERY	ACP %REC LIMIT
Benzene		25	22.8	91%	80%-120%
Bromodichloromethane		25	23.4	94%	80%-120%
Bromoform		25	21.8	87%	80%-120%
Bromomethane		25	24.0	96%	80%-120%
Carbon tetrachloride		25	24.4	98%	80%-120%
Chlorobenzene		25	23.2	93%	80%-120%
Chloroethane		25	23.6	94%	80%-120%
Chloroform		25	22.8	91%	80%-120%
Chloromethane		25	24.8	99%	80%-120%
Dibromochloromethane		25	22.4	90%	80%-120%
1,2-Dichlorobenzene		25	23.8	95%	80%-120%
1,3-Dichlorobenzene		25	24.2	97%	80%-120%
1,4-Dichlorobenzene		25	24.1	97%	80%-120%
Dichlorodifluoromethane (Freon 12)		25	29.2	117%	80%-120%
1,1-Dichloroethane (1,1-DCA)		25	21.9	88%	80%-120%
1,2-Dichloroethane (1,2-DCA)		25	23.6	94%	80%-120%
1,1-Dichloroethene (1,1-DCE)		25	21.4	85%	80%-120%
cis-1,2-Dichloroethene (c-1,2-DCE)		25	23.0	92%	80%-120%
trans-1,2-Dichloroethene (t-1,2-DCE)		25	20.9	83%	80%-120%
1,2-Dichloropropane		25	23.2	93%	80%-120%
cis-1,3-Dichloropropene		25	24.9	99%	80%-120%
trans-1,3-Dichloropropene		25	20.3	81%	80%-120%
Ethyl benzene		25	23.4	94%	80%-120%
Methylene chloride (Dichloromethane)		25	23.0	92%	80%-120%
1,1,1,2-Tetrachloroethane		25	23.6	94%	80%-120%
1,1,2,2-Tetrachloroethane		25	21.7	87%	80%-120%
Tetrachloroethene (PCE)		25	24.7	99%	80%-120%
Toluene		25	22.4	90%	80%-120%
1,1,1-Trichloroethane (1,1,1-TCA)		25	23.8	95%	80%-120%
1,1,2-Trichloroethane (1,1,2-TCA)		25	22.2	89%	80%-120%
Trichloroethene (TCE)		25	23.2	93%	80%-120%
Trichlorofluoromethane (Freon 11)		25	21.5	86%	80%-120%
m,p-Xylenes		50	46.9	94%	80%-120%
o-Xylene		25	23.1	93%	80%-120%
Vinyl chloride (VC)		25	24.9	100%	80%-120%
SURROGATE	SPK conc		%RC		
Dibromofluoromethane	50		107%		
Toluene-d8	50		112%		
4-Bromofluorobenzene	50		109%		

Notes : ND - Analytes not detected at, or above the stated detection limit

Gordy Vogt
Laboratory Director

FEB 11 1997
Date

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SDG 1D013 BURBANK AIRPORT

DATA PACKAGE - 8260 Analysis-Soil Vapor

Prepared By:

ONSITE ENVIRONMENTAL LABORATORIES

Submitted To:

FUGRO WEST

37 /45

February 1997

ONSITE
ENVIRONMENTAL
LABORATORIES, INC.

[redacted]

Date: February 7, 1997
From: Garth Voigt
To: Dave Parker
Re: Case Narrative for Project 9636-0541
Laboratory ID # 1D013 (01 through 35)

Samples were received by ONSITE Mobile Laboratory # 1 on January 27, 1997 1997 for EPA analysis 8260 - Soil Vapor Analysis

Lab ID No.	Field ID No.	Date of Preliminary Report	Date of Final Report	Notes
1D013-01	EQUIPBLK-Dave	January 27, 1997	February 7, 1997	
1D013-02	EQUIPBLK-Frank	January 27, 1997	February 7, 1997	4a
1D013-03	EQUIPBLK-Todd	January 27, 1997	February 7, 1997	4a
1D013-04	GSV-29-10	January 27, 1997	February 7, 1997	4a
1D013-05	GSV-37-10	January 27, 1997	February 7, 1997	4a
1D013-06	GSV-39-10	January 27, 1997	February 7, 1997	
1D013-07	GSV-29-20	January 27, 1997	February 7, 1997	4a
1D013-08	GSV-39-20	January 27, 1997	February 7, 1997	4a
1D013-09	GSV-37-20	January 27, 1997	February 7, 1997	4a
1D013-10	GSV-71-10	January 27, 1997	February 7, 1997	4a
1D013-11	FSV-08-10	January 27, 1997	February 7, 1997	4a
1D013-12	FSV-07-10	January 27, 1997	February 7, 1997	
1D013-13	GSV-71-20	January 27, 1997	February 7, 1997	4a
1D013-14	FSV-08-20	January 27, 1997	February 7, 1997	4a
1D013-15	FSV-07-20	January 27, 1997	February 7, 1997	4a
1D013-16	GSV-70-10	January 27, 1997	February 7, 1997	4a
1D013-17	FSV-06-10	January 27, 1997	February 7, 1997	
1D013-18	FSV-05-10	January 27, 1997	February 7, 1997	4a
1D013-19	GSV-70-20	January 27, 1997	February 7, 1997	
1D013-20	FSV-06-20	January 27, 1997	February 7, 1997	4a
1D013-21	FSV-05-20	January 27, 1997	February 7, 1997	4a
1D013-22	GSV-69-10	January 27, 1997	February 7, 1997	4a
1D013-23	FSV-03-10	January 27, 1997	February 7, 1997	4a
1D013-24	FSV-04-10	January 27, 1997	February 7, 1997	
1D013-25	GSV-69-20	January 27, 1997	February 7, 1997	4a
1D013-26	FSV-03-20	January 27, 1997	February 7, 1997	4a
1D013-27	FSV-04-20	January 27, 1997	February 7, 1997	4a
1D013-28	FSV-02-10	January 27, 1997	February 7, 1997	
1D013-29	FSV-01-10	January 27, 1997	February 7, 1997	4a
1D013-30	GSV-68-10	January 27, 1997	February 7, 1997	4a
1D013-31	FSV-02-20	January 27, 1997	February 7, 1997	
1D013-32	FSV-02-20D	January 27, 1997	February 7, 1997	8
1D013-33	FSV-01-20	January 27, 1997	February 7, 1997	4a
1D013-34	FSV-01-20D	January 27, 1997	February 7, 1997	4a,8
1D013-35	GSV-68-20	January 27, 1997	February 7, 1997	4a

.. Sample receipt: All Chain of custody and cooler receipt procedures were observed.

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2. Calibration checks: All initial and continuing calibration check standards were acceptable for all analyses.

3. Method blank: The method blank was acceptable for all analyses.

4. Laboratory Control/Laboratory Control Dup. Sample: The LCS recoveries were acceptable for all analyses.
4a. Laboratory Control/Laboratory Control Dup. Sample: The LCS associated with these samples had analyte recoveries outside of QC limits. All other QC was acceptable.
5. Matrix Spike/Matrix Spike Duplicate: The MS/MSD analyses' are not required for Soil Vapor.

6. Surrogates:All surrogate recoveries were within acceptable parameters.
6a. Surrogates:Surrogate recoveries were outside of QC limits due to matrix effects.
6b. Surrogates:Surrogate recoveries were above QC limits. This was reported to the client. As the sample result was ND, the sample was not re-extracted.

7. Samples: Sample results were satisfactory for all parameters
7a. Samples: Samples were re-analyzed in order to demonstarte matrix interference.
7b. Samples: Samples were diluted in order to bring target analytes within calibration range.
7c. Samples: Sample lost due to system error. Not enough sample to perform reanalysis.

8. Sample Duplicates: The sample duplicates were acceptable for all analyses'.

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Date: February 7, 1997
From: Garth Voigt
To: Dave Parker
Re: Case Narrative for Project 9636-0541
Laboratory ID # 1D013 (36 through 68)

Samples were received by ONSITE Mobile Laboratory # 1 on January 27, 1997
1997 for EPA analysis 8260 - Soil Vapor Analysis

Lab ID No.	Field ID No.	Date of Preliminary Report	Date of Final Report	Notes
1D013-36	GSV-68-20D	January 27, 1997	February 7, 1997	7c
1D013-37	GSV-18-10	January 27, 1997	February 7, 1997	
1D013-38	GSV-19-10	January 27, 1997	February 7, 1997	4a
1D013-39	FSV-14-10	January 27, 1997	February 7, 1997	4a
1D013-40	GSV-18-10	January 27, 1997	February 7, 1997	4a
1D013-41	GSV-19-20	January 27, 1997	February 7, 1997	
1D013-42	FSV-14-20	January 27, 1997	February 7, 1997	4a
1D013-43	GSV-28-10	January 27, 1997	February 7, 1997	4a
1D013-44	GSV-05-10	January 27, 1997	February 7, 1997	4a
1D013-45	FSV-13-10	January 27, 1997	February 7, 1997	4a
1D013-46	GSV-28-20	January 27, 1997	February 7, 1997	4a
1D013-47	GSV-05-20	January 27, 1997	February 7, 1997	
1D013-48	FSV-13-20	January 27, 1997	February 7, 1997	4a
1D013-49	ASV-27-10	January 27, 1997	February 7, 1997	4a
1D013-50	ASV-28-10	January 27, 1997	February 7, 1997	
1D013-51	ASV-27-20	January 27, 1997	February 7, 1997	4a
1D013-52	ASV-28-20	January 27, 1997	February 7, 1997	
1D013-53	Travel Blank	January 27, 1997	February 7, 1997	4a
1D013-54	ASV-17-10	January 27, 1997	February 7, 1997	4a
1D013-55	ASV-16-10	January 27, 1997	February 7, 1997	4a
1D013-56	ASV-17-20	January 27, 1997	February 7, 1997	
1D013-57	ASV-16-20	January 27, 1997	February 7, 1997	
1D013-58	ASV-09-10	January 27, 1997	February 7, 1997	4a
1D013-59	ASV-08-10	January 27, 1997	February 7, 1997	4a
1D013-60	ASV-09-20	January 27, 1997	February 7, 1997	
1D013-61	ASV-08-20	January 27, 1997	February 7, 1997	4a
1D013-62	BSV-64-10	January 27, 1997	February 7, 1997	4a
1D013-63	BSV-65-10	January 27, 1997	February 7, 1997	4a
1D013-64	BSV-65-20	January 27, 1997	February 7, 1997	4a
1D013-65	BSV-65-20D	January 27, 1997	February 7, 1997	4a
1D013-66	BSV-64-20	January 27, 1997	February 7, 1997	4a
1D013-67	BSV-64-20D	January 27, 1997	February 7, 1997	4a
1D013-68	TripBlk-LCW	January 27, 1997	February 7, 1997	

1. Sample receipt: All Chain of custody and cooler receipt procedures were observed.

2. Calibration checks: All initial and continuing calibration check standards were acceptable for all analyses.

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3. Method blank: The method blank was acceptable for all analyses.

4. Laboratory Control/Laboratory Control Dup. Sample: The LCS recoveries were acceptable for all analyses.
4a. Laboratory Control/Laboratory Control Dup. Sample: The LCS associated with these samples had analyte recoveries outside of QC limits. All other QC was acceptable.
5. Matrix Spike/Matrix Spike Duplicate: The MS/MSD analyses' are not required for Soil Vapor.

6. Surrogates:All surrogate recoveries were within acceptable parameters.
6a. Surrogates:Surrogate recoveries were outside of QC limits due to matrix effects.
6b. Surrogates:Surrogate recoveries were above QC limits. This was reported to the client. As the sample result was ND, the sample was not re-extracted.

7. Samples: Sample results were satisfactory for all parameters
7a. Samples: Samples were re-analyzed in order to demonstarte matrix interference.
7b. Samples: Samples were diluted in order to bring target analytes within calibration range.
7c. Samples: Sample lost due to system error. Not enough sample to perform reanalysis.

8. Sample Duplicates: The sample duplicates were acceptable for all analyses'.

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Appendix V

CORRECTIVE ACTION REPORT

MOBILE LABORATORY #: 1

DATE: 1/27/97

INITIATOR: N. Weicker

SYMPTOMS/PROBLEMS:

LCS Failed on Inst #2 GCMS on 1/27/97

PROJECT/SAMPLES AFFECTED: samples run on ~~the~~ Inst #2 1/27/97

SUGGESTED CORRECTIVE ACTION:

it crashed at ~ 1300 due possibly to power fluctuations. LCS failure is due to a problem w/ Inst #2 - Bobby Arcilla had to vent the flight tube & change the filaments to get it running again - ~~by the~~ once running, the calibration was out. Samples were run before the machine crashed, and had good surrogate recoveries and the initial standard was right on. So will just write a CA report

CORRECTIVE ACTION TAKEN ON N. Weicker **Date** **BY** 1/27/97 **Name**

DESCRIPTION OF CORRECTIVE ACTION:

wrote a corrective action report

APPROVED BY: Gordy Vogt **Laboratory Director**

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION

LABORATORY REPORT FORM (COVER PAGE 1)

Laboratory Name: Onsite Environmental Laboratories, Inc.

Address: 5500 Boscell Common
Fremont, CA 94538

Telephone/FAX: (510) 490-8571 / (510) 490-8572

ELAP Certification No. 1774 Expiration Date: 7/31/98

Authorized Signature Name, Title (print) Gary Voigt, Laboratory Director

Signature, Date Gary Voigt, 2/10/97

Client Name: Fugro West, Inc.

Project No.: 9636-0541

Date(s) Sampled: 1/27/97 To same

Date(s) received: 1/27/97 To same

Date(s) reported: 1/28/97

Chain of custody received: Yes ___ No ___

Comments:

(RWQCB LabForm; Ver 12/94)

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION

LABORATORY REPORT FORM (COVER PAGE 2)

Organic Analyses	# of Samples	# of Samples Subcontracted

~~68~~ 67 soil vapor & air samples for 8260
(1 sample was lost due to power failure)

Sample Condition: Acceptable

Inorganic Analyses	# of Samples	# of Samples Subcontracted

Sample Condition:

Microbiological Analyses	# of Samples	# of Samples Subcontracted

Sample Condition:

Other Types of Analyses	# of Samples	# of Samples Subcontracted

Sample condition:

(RWQCB LabForm;Ver12/94)

ANALYTICAL RESULTS SUMMARY

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LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260 Project No: 9636-0541 REPORTING UNITS : µg/L-air

		DATE ANALYZED	1/27/97	1/27/97	1/27/97	1/27/97	1/27/97	1/27/97	1/27/97
		LAB SAMPLE ID	1D013-01	1D013-02	1D013-03	1D013-04	1D013-05	1D013-06	1D013-07
		CLIENT SAMPLE ID	EquipBlk-D	EquipBlk-F	EquipBlk-T	GSV-29-10	GSV-37-10	GSV-39-10	GSV-29-20
		DILUTION FACTOR	0.1	0.1	0.1	0.1	0.1	0.1	0.1
COMPOUND		CRDL	MB	MB	MB				
Benzene		1	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		1	ND	ND	ND	ND	ND	ND	ND
Bromoform		1	ND	ND	ND	ND	ND	ND	ND
Bromomethane		1	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride		1	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Chloroethane		1	ND	ND	ND	ND	ND	ND	ND
Chloroform		1	ND	ND	ND	ND	ND	ND	ND
Chloromethane		1	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		1	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene		1	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)		1	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		1	ND	ND	ND	ND	ND	ND	ND
Toluene		1	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorotrifluoroethane (Freon 113)		1	ND	ND	ND	ND	ND	ND	ND
m,p-Xylenes		1	ND	ND	ND	ND	ND	ND	ND
o-Xylene		1	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)		1	ND	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-110%	96%	108%	100%	108%	100%	96%	110%
Toluene-d8	50	80%-115%	97%	109%	101%	91%	101%	96%	111%
4-Bromofluorobenzene	50	75%-125%	98%	111%	105%	90%	104%	96%	114%

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
J - Estimated value
Dilution Factor equal 1 for 5.0cc injection

Gordy Vargt
Laboratory Director

FEB 1 0 1997
Date

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[redacted]

LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260 Project No: 9636-0541 **REPORTING UNITS : µg/L-air**

		DATE ANALYZED	1/27/97	1/27/97	1/27/97	1/27/97	1/27/97	1/27/97	1/27/97
		LAB SAMPLE ID	1D013-08	1D013-09	1D013-10	1D013-11	1D013-12	1D013-13	1D013-14
		CLIENT SAMPLE ID	GSV-39-20	GSV-37-20	GSV-71-10	FSV-08-10	FSV-07-10	GSV-71-20	FSV-08-20
		DILUTION FACTOR	0.1	0.1	0.1	0.1	0.1	0.1	0.1
COMPOUND		CRDL							
Benzene		1	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		1	ND	ND	ND	ND	ND	ND	ND
Bromoform		1	ND	ND	ND	ND	ND	ND	ND
Bromomethane		1	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride		1	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Chloroethane		1	ND	ND	ND	ND	ND	ND	ND
Chloroform		1	ND	ND	ND	ND	ND	ND	ND
Chloromethane		1	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		1	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene		1	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)		1	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		1	ND	ND	ND	ND	ND	ND	ND
Toluene		1	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorotrifluoroethane (Freon 113)		1	2.0 J	ND	ND	ND	ND	ND	ND
m,p-Xylenes		1	ND	ND	ND	ND	ND	ND	ND
o-Xylene		1	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)		1	ND	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-110%	99%	114%	111%	110%	97%	115%	109%
Toluene-d8	50	80%-115%	101%	91%	91%	111%	98%	91%	90%
4-Bromofluorobenzene	50	75%-125%	104%	91%	90%	113%	98%	93%	87%

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
J - Estimated value
Dilution Factor equal 1 for 5.0cc injection

Gordy Voigt
Laboratory Director

FEB 1 0 1997
Date

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LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260 Project No: 9636-0541 **REPORTING UNITS : µg/L-air**

		DATE ANALYZED	1/27/97	1/27/97	1/27/97	1/27/97	1/27/97	1/27/97	1/27/97
		LAB SAMPLE ID	1D013-15	1D013-16	1D013-17	1D013-18	1D013-19	1D013-20	1D013-21
		CLIENT SAMPLE ID	FSV-07-20	GSV-70-10	FSV-06-10	FSV-05-10	GSV-70-20	FSV-06-20	FSV-05-20
		DILUTION FACTOR	0.1	0.1	0.1	0.1	0.1	0.1	0.1
COMPOUND		CRDL							
Benzene		1	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		1	ND	ND	ND	ND	ND	ND	ND
Bromoform		1	ND	ND	ND	ND	ND	ND	ND
Bromomethane		1	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride		1	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Chloroethane		1	ND	ND	ND	ND	ND	ND	ND
Chloroform		1	ND	ND	ND	ND	ND	ND	ND
Chloromethane		1	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		1	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene		1	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)		1	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		1	ND	ND	ND	ND	ND	ND	ND
Toluene		1	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorotrifluoroethane (Freon 113)		1	ND	ND	ND	ND	ND	ND	ND
m,p-Xylenes		1	ND	ND	ND	ND	ND	ND	ND
o-Xylene		1	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)		1	ND	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-110%	110%	113%	86%	111%	96%	100%	115%
Toluene-d8	50	80%-115%	112%	91%	97%	111%	95%	100%	91%
4-Bromofluorobenzene	50	75%-125%	112%	92%	96%	113%	93%	106%	92%

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
J - Estimated value
Dilution Factor equal 1 for 5.0cc injection

Laboratory Director

FEB 10 1997
Date

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ONSITE
ENVIRONMENTAL
LABORATORIES, INC.

LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260 Project No: 9636-0541 **REPORTING UNITS : µg/L-air**

		DATE ANALYZED	1/27/97	1/27/97	1/27/97	1/27/97	1/27/97		
		LAB SAMPLE ID	1D013-64	1D013-65	1D013-66	1D013-67	1D013-68		
		CLIENT SAMPLE ID	BSV-65-20	BSV-65-20D	BSV-64-20	BSV-64-20D	TripBlk-LCW		
		DILUTION FACTOR	0.1	0.1	0.1	0.1	0.1		
COMPOUND		CRDL							
Benzene		1	ND	ND	ND	ND	ND		
Bromodichloromethane		1	ND	ND	ND	ND	ND		
Bromoform		1	ND	ND	ND	ND	ND		
Bromomethane		1	ND	ND	ND	ND	ND		
Carbon tetrachloride		1	ND	ND	ND	ND	ND		
Chlorobenzene		1	ND	ND	ND	ND	ND		
Chloroethane		1	ND	ND	ND	ND	ND		
Chloroform		1	ND	ND	ND	ND	ND		
Chloromethane		1	ND	ND	ND	ND	ND		
Dibromochloromethane		1	ND	ND	ND	ND	ND		
1,2-Dichlorobenzene		1	ND	ND	ND	ND	ND		
1,3-Dichlorobenzene		1	ND	ND	ND	ND	ND		
1,4-Dichlorobenzene		1	ND	ND	ND	ND	ND		
Dichlorodifluoromethane (Freon 12)		1	ND	ND	ND	ND	ND		
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	ND	ND	ND		
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	ND	ND	ND		
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	ND	ND	ND		
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	ND	ND	ND		
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	ND	ND	ND		
1,2-Dichloropropane		1	ND	ND	ND	ND	ND		
cis-1,3-Dichloropropene		1	ND	ND	ND	ND	ND		
trans-1,3-Dichloropropene		1	ND	ND	ND	ND	ND		
Ethyl benzene		1	ND	ND	ND	ND	ND		
Methylene chloride (Dichloromethane)		1	ND	ND	ND	ND	ND		
1,1,1,2-Tetrachloroethane		1	ND	ND	ND	ND	ND		
1,1,2,2-Tetrachloroethane		1	ND	ND	ND	ND	ND		
Tetrachloroethene (PCE)		1	ND	ND	ND	ND	ND		
Toluene		1	ND	ND	ND	ND	ND		
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	ND	ND	ND		
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	ND	ND	ND		
Trichloroethene (TCE)		1	ND	ND	ND	ND	ND		
Trichlorofluoromethane (Freon 11)		1	ND	ND	ND	ND	ND		
Trichlorotrifluoroethene (Freon 113)		1	ND	ND	ND	ND	ND		
m,p-Xylenes		1	ND	ND	ND	ND	ND		
o-Xylene		1	ND	ND	ND	ND	ND		
Vinyl chloride (VCl		1	ND	ND	ND	ND	ND		
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC		
Dibromofluoromethane	50	75%-110%	100%	101%	107%	109%	98%		
Toluene-d8	50	80%-115%	101%	101%	111%	112%	96%		
4-Bromofluorobenzene	50	75%-125%	104%	104%	110%	113%	94%		

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
J - Estimated value
Dilution Factor equal 1 for 5.0cc injection

Gordy Voigt
Laboratory Director

FEB 10 1997
Date

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QA/QC RESULTS SUMMARY

ONSITE ENVIRONMENTAL LABORATORIES, INC.

LABORATORY QA/QC REPORT FOR ORGANICS

Laboratory Quality Control Check Sample (LCS)

METHOD : EPA 8260

REPORTING UNITS : µg/L

DATE PERFORMED: 1/27/97
SUPPLY SOURCE: Absolut Standards, INC.
LOT NUMBER: 071096(gases), 050595(liq.)
DATE OF SOURCE: 1/21/97

LAB LCS ID: LCS 1/27 MS2
Project No: 9636-0541

ANALYTE	M.BLANK 1/27	SPIKE CONC	RESULT	%RECOVERY	ACP %REC LIMIT
Benzene	ND	25	27.6	110%	80%-120%
Bromodichloromethane	ND	25	30.9	124%	80%-120%
Bromoform	ND	25	18.7	75%	80%-120%
Bromomethane	ND	25	42.6	171%	80%-120%
Carbon tetrachloride	ND	25	34.5	138%	80%-120%
Chlorobenzene	ND	25	26.0	104%	80%-120%
Chloroethane	ND	25	40.2	161%	80%-120%
Chloroform	ND	25	34.6	138%	80%-120%
Chloromethane	ND	25	43.4	174%	80%-120%
Dibromochloromethane	ND	25	23.7	95%	80%-120%
1,2-Dichlorobenzene	ND	25	26.3	105%	80%-120%
1,3-Dichlorobenzene	ND	25	27.5	110%	80%-120%
1,4-Dichlorobenzene	ND	25	26.0	104%	80%-120%
Dichlorodifluoromethane (Freon 12)	ND	25	36.0	144%	80%-120%
1,1-Dichloroethane (1,1-DCA)	ND	25	41.7	167%	80%-120%
1,2-Dichloroethane (1,2-DCA)	ND	25	43.4	174%	80%-120%
1,1-Dichloroethene (1,1-DCE)	ND	25	29.9	120%	80%-120%
cis-1,2-Dichloroethene (c-1,2-DCE)	ND	25	28.4	114%	80%-120%
trans-1,2-Dichloroethene (t-1,2-DCE)	ND	25	29.2	117%	80%-120%
1,2-Dichloropropane	ND	25	32.9	132%	80%-120%
cis-1,3-Dichloropropene	ND	25	29.9	120%	80%-120%
trans-1,3-Dichloropropene	ND	25	30.0	120%	80%-120%
Ethyl benzene	ND	25	25.9	104%	80%-120%
Methylene chloride (Dichloromethane)	ND	25	27.7	111%	80%-120%
1,1,1,2-Tetrachloroethane	ND	25	25.7	103%	80%-120%
1,1,2,2-Tetrachloroethane	ND	25	29.5	118%	80%-120%
Tetrachloroethene (PCE)	ND	25	20.6	82%	80%-120%
Toluene	ND	25	25.1	100%	80%-120%
1,1,1-Trichloroethane (1,1,1-TCA)	ND	25	35.6	143%	80%-120%
1,1,2-Trichloroethane (1,1,2-TCA)	ND	25	24.0	96%	80%-120%
Trichloroethene (TCE)	ND	25	26.9	108%	80%-120%
Trichlorofluoromethane (Freon 11)	ND	25	38.4	154%	80%-120%
m,p-Xylenes	ND	50	54.4	109%	80%-120%
o-Xylene	ND	25	26.4	106%	80%-120%
Vinyl chloride (VC)	ND	25	47.1	189%	80%-120%

SURROGATE	SPK conc	%RC		%RC		
Dibromofluoromethane	50	110%		121%		
Toluene-d8	50	90%		95%		
4-Bromofluorobenzene	50	91%		92%		

Notes :

ND - Analytes not detected at, or above the stated detection limit

Gordon Vorgt
Laboratory Director

FEB 10 1997
Date

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ONSITE
ENVIRONMENTAL
LABORATORIES, INC.

LABORATORY QA/QC REPORT FOR ORGANICS

Laboratory Quality Control Check Sample (LCS)

METHOD : EPA 8260

REPORTING UNITS : µg/L

DATE PERFORMED: 1/27/97
SUPPLY SOURCE: Absolut Standards, INC.
LOT NUMBER: 071096(gases), 050595(liq.)
DATE OF SOURCE: 1/21/97

LAB LCS ID: LCS 1/27 MS3
Project No: 9636-0541

ANALYTE		SPIKE CONC	RESULT	%RECOVERY	ACP %REC LIMIT
Benzene		25	21.7	87%	80%-120%
Bromodichloromethane		25	21.8	87%	80%-120%
Bromoform		25	21.4	85%	80%-120%
Bromomethane		25	27.1	109%	80%-120%
Carbon tetrachloride		25	21.8	87%	80%-120%
Chlorobenzene		25	21.9	88%	80%-120%
Chloroethane		25	25.7	103%	80%-120%
Chloroform		25	22.1	88%	80%-120%
Chloromethane		25	35.1	141%	80%-120%
Dibromochloromethane		25	21.9	88%	80%-120%
1,2-Dichlorobenzene		25	20.1	80%	80%-120%
1,3-Dichlorobenzene		25	19.9	80%	80%-120%
1,4-Dichlorobenzene		25	20.1	80%	80%-120%
Dichlorodifluoromethane (Freon 12)		25	36.7	147%	80%-120%
1,1-Dichloroethane (1,1-DCA)		25	22.8	91%	80%-120%
1,2-Dichloroethane (1,2-DCA)		25	21.4	86%	80%-120%
1,1-Dichloroethene (1,1-DCE)		25	24.1	96%	80%-120%
cis-1,2-Dichloroethene (c-1,2-DCE)		25	23.4	94%	80%-120%
trans-1,2-Dichloroethene (t-1,2-DCE)		25	21.7	87%	80%-120%
1,2-Dichloropropane		25	21.8	87%	80%-120%
cis-1,3-Dichloropropene		25	23.8	95%	80%-120%
trans-1,3-Dichloropropene		25	19.3	77%	80%-120%
Ethyl benzene		25	20.6	83%	80%-120%
Methylene chloride (Dichloromethane)		25	22.7	91%	80%-120%
1,1,1,2-Tetrachloroethane		25	22.0	88%	80%-120%
1,1,2,2-Tetrachloroethane		25	20.3	81%	80%-120%
Tetrachloroethene (PCE)		25	21.4	85%	80%-120%
Toluene		25	20.9	84%	80%-120%
1,1,1-Trichloroethane (1,1,1-TCA)		25	21.6	86%	80%-120%
1,1,2-Trichloroethane (1,1,2-TCA)		25	20.6	82%	80%-120%
Trichloroethene (TCE)		25	21.6	86%	80%-120%
Trichlorofluoromethane (Freon 11)		25	22.9	92%	80%-120%
m,p-Xylenes		50	43.0	86%	80%-120%
o-Xylene		25	20.9	84%	80%-120%
Vinyl chloride (VC)		25	18.9	76%	80%-120%
SURROGATE	SPK conc		%RC		
Dibromofluoromethane	50		101%		
Toluene-d8	50		101%		
4-Bromofluorobenzene	50		103%		

Notes :

ND - Analytes not detected at, or the stated detection limit (1ug/L air)

Gordy Vogt
Laboratory Director

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Date

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ONSITE
ENVIRONMENTAL
LABORATORIES, INC.

1D013MS3-QCV Dup

LABORATORY QA/QC REPORT FOR ORGANICS

METHOD : EPA 8260

REPORTING UNITS : µg/L-air

DATE PERFORMED: 1/27/97
BATCH #: 3-0127-1V

Project No: 9636-0541

		DATE ANALYZED	1/27/97	1/27/97	RPD %				RPD LIMIT
		LAB SAMPLE ID	1D013-64	1D013-65					
		CLIENT SAMPLE ID	BSV-65-20	BSV-65-20D					
		DILUTION FACTOR	0.1	0.1					
COMPOUND		CRDL							
Benzene		1	ND	ND	0%				50%
Bromodichloromethane		1	ND	ND	0%				50%
Bromoform		1	ND	ND	0%				50%
Bromomethane		1	ND	ND	0%				50%
Carbon tetrachloride		1	ND	ND	0%				50%
Chlorobenzene		1	ND	ND	0%				50%
Chloroethane		1	ND	ND	0%				50%
Chloroform		1	ND	ND	0%				50%
Chloromethane		1	ND	ND	0%				50%
Dibromochloromethane		1	ND	ND	0%				50%
1,2-Dichlorobenzene		1	ND	ND	0%				50%
1,3-Dichlorobenzene		1	ND	ND	0%				50%
1,4-Dichlorobenzene		1	ND	ND	0%				50%
Dichlorodifluoromethane (Freon 12)		1	ND	ND	0%				50%
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	0%				50%
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	0%				50%
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	0%				50%
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	0%				50%
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	0%				50%
1,2-Dichloropropane		1	ND	ND	0%				50%
cis-1,3-Dichloropropene		1	ND	ND	0%				50%
trans-1,3-Dichloropropene		1	ND	ND	0%				50%
Ethyl benzene		1	ND	ND	0%				50%
Methylene chloride (Dichloromethane)		1	ND	ND	0%				50%
1,1,1,2-Tetrachloroethane		1	ND	ND	0%				50%
1,1,2,2-Tetrachloroethane		1	ND	ND	0%				50%
Tetrachloroethene (PCE)		1	ND	ND	0%				50%
Toluene		1	ND	ND	0%				50%
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	0%				50%
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	0%				50%
Trichloroethene (TCE)		1	ND	ND	0%				50%
Trichlorofluoromethane (Freon 11)		1	ND	ND	0%				50%
Trichlorotrifluoroethane (Freon 113)		1	ND	ND	0%				50%
m,p-Xylenes		1	ND	ND	0%				50%
o-Xylene		1	ND	ND	0%				50%
Vinyl chloride (VC)		1	ND	ND	0%				50%
SURROGATE	SPK conc	ACP %	%RC	%RC		%RC	%RC		
Dibromofluoromethane	50	75%-110%	100%	101%					
Toluene-d8	50	80%-115%	101%	101%					
4-Bromofluorobenzene	50	75%-125%	104%	104%					

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
Dilution Factor equal 1 for 5.0cc injection

Gordy Vargt
Laboratory Director

FEB 10 1997
Date

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ONSITE
ENVIRONMENTAL
LABORATORIES, INC.

LABORATORY QA/QC REPORT FOR ORGANICS

Laboratory Quality Control Check Sample (LCS)

METHOD : EPA 8260

REPORTING UNITS : µg/L

DATE PERFORMED: 1/27/97
SUPPLY SOURCE: Absolut Standards, INC.
LOT NUMBER: 071096(gases),050595(liq.)
DATE OF SOURCE: 1/21/97

LAB LCS ID: LCS01 1/27 MS4
Project No: 9636-0541

ANALYTE	SPIKE CONC	RESULT	%RECOVERY	ACP %REC LIMIT
Benzene	25	24.3	97%	80%-120%
Bromodichloromethane	25	24.0	96%	80%-120%
Bromoform	25	21.6	86%	80%-120%
Bromomethane	25	28.2	113%	80%-120%
Carbon tetrachloride	25	23.7	95%	80%-120%
Chlorobenzene	25	23.9	96%	80%-120%
Chloroethane	25	28.3	113%	80%-120%
Chloroform	25	26.4	106%	80%-120%
Chloromethane	25	29.4	118%	80%-120%
Dibromochloromethane	25	22.7	91%	80%-120%
1,2-Dichlorobenzene	25	24.6	98%	80%-120%
1,3-Dichlorobenzene	25	23.6	94%	80%-120%
1,4-Dichlorobenzene	25	23.3	93%	80%-120%
Dichlorodifluoromethane (Freon 12)	25	28.4	113%	80%-120%
1,1-Dichloroethane (1,1-DCA)	25	27.6	110%	80%-120%
1,2-Dichloroethane (1,2-DCA)	25	26.0	104%	80%-120%
1,1-Dichloroethene (1,1-DCE)	25	27.2	109%	80%-120%
cis-1,2-Dichloroethene (c-1,2-DCE)	25	27.7	111%	80%-120%
trans-1,2-Dichloroethene (t-1,2-DCE)	25	25.1	100%	80%-120%
1,2-Dichloropropane	25	25.2	101%	80%-120%
cis-1,3-Dichloropropene	25	27.4	110%	80%-120%
trans-1,3-Dichloropropene	25	22.7	91%	80%-120%
Ethyl benzene	25	24.7	99%	80%-120%
Methylene chloride (Dichloromethane)	25	25.7	103%	80%-120%
1,1,1,2-Tetrachloroethane	25	22.8	91%	80%-120%
1,1,2,2-Tetrachloroethane	25	24.3	97%	80%-120%
Tetrachloroethene (PCE)	25	23.6	95%	80%-120%
Toluene	25	24.3	97%	80%-120%
1,1,1-Trichloroethane (1,1,1-TCA)	25	27.3	109%	80%-120%
1,1,2-Trichloroethane (1,1,2-TCA)	25	24.4	97%	80%-120%
Trichloroethene (TCE)	25	24.0	96%	80%-120%
Trichlorofluoromethane (Freon 11)	25	29.2	117%	80%-120%
m,p-Xylenes	50	47.7	95%	80%-120%
o-Xylene	25	23.0	92%	80%-120%
Vinyl chloride (VC)	25	28.2	113%	80%-120%
SURROGATE	SPK conc		%RC	
Dibromofluoromethane	50		98%	
Toluene-d8	50		97%	
4-Bromofluorobenzene	50		98%	

Notes : ND - Analytes not detected at, or above the stated detection limit

Laboratory Director

FEB 1 0 1997
Date

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ONSITE
ENVIRONMENTAL
LABORATORIES, INC.

1D013MS4-QCV Dup

LABORATORY QA/QC REPORT FOR ORGANICS

METHOD : EPA 8260

REPORTING UNITS : µg/L-air

DATE PERFORMED: 1/27/97
BATCH #: 4-0127-1V

Project No: 9636-0541

		DATE ANALYZED	1/27/97	1/27/97	RPD %				RPD LIMIT
		LAB SAMPLE ID	1D013-31	1D013-32					
		CLIENT SAMPLE ID	FSV-02-20	FSV-02-20D					
		DILUTION FACTOR	0.1	0.1					
COMPOUND		CRDL							
Benzene		1	ND	ND	0%				50%
Bromodichloromethane		1	ND	ND	0%				50%
Bromoform		1	ND	ND	0%				50%
Bromomethane		1	ND	ND	0%				50%
Carbon tetrachloride		1	ND	ND	0%				50%
Chlorobenzene		1	ND	ND	0%				50%
Chloroethane		1	ND	ND	0%				50%
Chloroform		1	ND	ND	0%				50%
Chloromethane		1	ND	ND	0%				50%
Dibromochloromethane		1	ND	ND	0%				50%
1,2-Dichlorobenzene		1	ND	ND	0%				50%
1,3-Dichlorobenzene		1	ND	ND	0%				50%
1,4-Dichlorobenzene		1	ND	ND	0%				50%
Dichlorodifluoromethane (Freon 12)		1	ND	ND	0%				50%
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	0%				50%
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	0%				50%
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	0%				50%
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	0%				50%
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	0%				50%
1,2-Dichloropropane		1	ND	ND	0%				50%
cis-1,3-Dichloropropene		1	ND	ND	0%				50%
trans-1,3-Dichloropropene		1	ND	ND	0%				50%
Ethyl benzene		1	ND	ND	0%				50%
Methylene chloride (Dichloromethane)		1	ND	ND	0%				50%
1,1,1,2-Tetrachloroethane		1	ND	ND	0%				50%
1,1,2,2-Tetrachloroethane		1	ND	ND	0%				50%
Tetrachloroethene (PCE)		1	ND	ND	0%				50%
Toluene		1	ND	ND	0%				50%
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	0%				50%
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	0%				50%
Trichloroethene (TCE)		1	ND	ND	0%				50%
Trichlorofluoromethane (Freon 11)		1	ND	ND	0%				50%
Trichlorotrifluoroethane (Freon 113)		1	ND	ND	0%				50%
m,p-Xylenes		1	ND	ND	0%				50%
o-Xylene		1	0.20	0.20	0%				50%
Vinyl chloride (VC)		1	ND	ND	0%				50%
SURROGATE	SPK conc	ACP %	%RC	%RC		%RC	%RC		
Dibromofluoromethane	50	75%-110%	95%	96%					
Toluene-d8	50	80%-115%	96%	96%					
4-Bromofluorobenzene	50	75%-125%	92%	93%					

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
Dilution Factor equal 1 for 5.0cc injection

Gordy Vargt
Laboratory Director

FEB 1 0 1997
Date

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ENVIRONMENTAL LABORATORIES, INC.

LABORATORY QA/QC REPORT FOR ORGANICS

Laboratory Quality Control Check Sample (LCS)

METHOD : EPA 8260

REPORTING UNITS : µg/L

DATE PERFORMED: 1/27/97
SUPPLY SOURCE: Absolut Standards, INC.
LOT NUMBER: 071096(gases), 050595(liq.)
DATE OF SOURCE: 1/21/97

LAB LCS ID: LCS 1/27 MS5
Project No: 9636-0541

ANALYTE		SPIKE CONC	RESULT	%RECOVERY	ACP %REC LIMIT
Benzene		25	26.1	104%	80%-120%
Bromodichloromethane		25	28.1	112%	80%-120%
Bromoform		25	31.1	124%	80%-120%
Bromomethane		25	21.1	85%	80%-120%
Carbon tetrachloride		25	28.8	115%	80%-120%
Chlorobenzene		25	26.1	104%	80%-120%
Chloroethane		25	20.4	82%	80%-120%
Chloroform		25	26.6	106%	80%-120%
Chloromethane		25	25.0	100%	80%-120%
Dibromochloromethane		25	29.2	117%	80%-120%
1,2-Dichlorobenzene		25	27.0	108%	80%-120%
1,3-Dichlorobenzene		25	25.8	103%	80%-120%
1,4-Dichlorobenzene		25	26.4	106%	80%-120%
Dichlorodifluoromethane (Freon 12)		25	32.6	130%	80%-120%
1,1-Dichloroethane (1,1-DCA)		25	26.4	106%	80%-120%
1,2-Dichloroethane (1,2-DCA)		25	30.1	121%	80%-120%
1,1-Dichloroethene (1,1-DCE)		25	25.7	103%	80%-120%
cis-1,2-Dichloroethene (c-1,2-DCE)		25	26.7	107%	80%-120%
trans-1,2-Dichloroethene (t-1,2-DCE)		25	23.9	96%	80%-120%
1,2-Dichloropropane		25	27.1	109%	80%-120%
cis-1,3-Dichloropropene		25	29.7	119%	80%-120%
trans-1,3-Dichloropropene		25	25.5	102%	80%-120%
Ethyl benzene		25	25.6	103%	80%-120%
Methylene chloride (Dichloromethane)		25	27.5	110%	80%-120%
1,1,1,2-Tetrachloroethane		25	26.8	107%	80%-120%
1,1,2,2-Tetrachloroethane		25	30.3	121%	80%-120%
Tetrachloroethene (PCE)		25	27.5	110%	80%-120%
Toluene		25	25.2	101%	80%-120%
1,1,1-Trichloroethane (1,1,1-TCA)		25	26.7	107%	80%-120%
1,1,2-Trichloroethane (1,1,2-TCA)		25	29.5	118%	80%-120%
Trichloroethene (TCE)		25	27.0	108%	80%-120%
Trichlorofluoromethane (Freon 11)		25	30.8	123%	80%-120%
m,p-Xylenes		50	50.6	101%	80%-120%
o-Xylene		25	25.0	100%	80%-120%
Vinyl chloride (VC)		25	24.0	96%	80%-120%
SURROGATE	SPK conc		%RC		
Dibromofluoromethane	50		110%		
Toluene-d8	50		111%		
4-Bromofluorobenzene	50		112%		

Notes :

ND - Analytes not detected at, or above the stated detection limit

Gordy Vogt
Laboratory Director

FEB 1 0 1997
Date

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1D013MS5-QCV Dup

LABORATORY QA/QC REPORT FOR ORGANICS

METHOD : EPA 8260

REPORTING UNITS : µg/L-air

DATE PERFORMED: 1/27/97
BATCH #: 5-0127-1V

Project No: 9636-0541

		DATE ANALYZED	1/27/97	1/27/97	RPD %	1/27/97	1/27/97	RPD %	RPD LIMIT
		LAB SAMPLE ID	1D013-33	1D013-34		1D013-66	1D013-67		
		CLIENT SAMPLE ID	FSV-01-20	FSV-01-20D		BSV-64-20	BSV-64-20D		
		DILUTION FACTOR	0.1	0.1		0.1	0.1		
COMPOUND		CRDL							
Benzene		1	ND	ND	0%	ND	ND	0%	50%
Bromodichloromethane		1	ND	ND	0%	ND	ND	0%	50%
Bromoform		1	ND	ND	0%	ND	ND	0%	50%
Bromomethane		1	ND	ND	0%	ND	ND	0%	50%
Carbon tetrachloride		1	ND	ND	0%	ND	ND	0%	50%
Chlorobenzene		1	ND	ND	0%	ND	ND	0%	50%
Chloroethane		1	ND	ND	0%	ND	ND	0%	50%
Chloroform		1	ND	ND	0%	ND	ND	0%	50%
Chloromethane		1	ND	ND	0%	ND	ND	0%	50%
Dibromochloromethane		1	ND	ND	0%	ND	ND	0%	50%
1,2-Dichlorobenzene		1	ND	ND	0%	ND	ND	0%	50%
1,3-Dichlorobenzene		1	ND	ND	0%	ND	ND	0%	50%
1,4-Dichlorobenzene		1	ND	ND	0%	ND	ND	0%	50%
Dichlorodifluoromethane (Freon 12)		1	ND	ND	0%	ND	ND	0%	50%
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	0%	ND	ND	0%	50%
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	0%	ND	ND	0%	50%
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	0%	ND	ND	0%	50%
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	0%	ND	ND	0%	50%
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	0%	ND	ND	0%	50%
1,2-Dichloropropane		1	ND	ND	0%	ND	ND	0%	50%
cis-1,3-Dichloropropene		1	ND	ND	0%	ND	ND	0%	50%
trans-1,3-Dichloropropene		1	ND	ND	0%	ND	ND	0%	50%
Ethyl benzene		1	ND	ND	0%	ND	ND	0%	50%
Methylene chloride (Dichloromethane)		1	ND	ND	0%	ND	ND	0%	50%
1,1,1,2-Tetrachloroethane		1	ND	ND	0%	ND	ND	0%	50%
1,1,2,2-Tetrachloroethane		1	ND	ND	0%	ND	ND	0%	50%
Tetrachloroethene (PCE)		1	ND	ND	0%	ND	ND	0%	50%
Toluene		1	0.45	0.41	9%	0.51	0.33	43%	50%
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	0%	ND	ND	0%	50%
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	0%	0.42	0.49	15%	50%
Trichloroethene (TCE)		1	ND	ND	0%	ND	ND	0%	50%
Trichlorofluoromethane (Freon 11)		1	ND	ND	0%	ND	ND	0%	50%
Trichlorotrifluoroethane (Freon 113)		1	ND	ND	0%	ND	ND	0%	50%
m,p-Xylenes		1	ND	ND	0%	ND	ND	0%	50%
o-Xylene		1	ND	ND	0%	ND	ND	0%	50%
Vinyl chloride (VC)		1	ND	ND	0%	ND	ND	0%	50%
SURROGATE	SPK conc	ACP %	%RC	%RC		%RC	%RC		
Dibromofluoromethane	50	75%-110%	106%	109%		107%	109%		
Toluene-d8	50	80%-115%	111%	111%		111%	112%		
4-Bromofluorobenzene	50	75%-125%	112%	112%		111%	113%		

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
Dilution factor equal 1 for 5.0cc injection

Gordy Vogt
Laboratory Director

FEB 10 1997
Date

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SDG 1D018 BURBANK AIRPORT

DATA PACKAGE - 8260 Analysis-Soil Vapor

Prepared By:

ONSITE ENVIRONMENTAL LABORATORIES

Submitted To:

FUGRO WEST

42/50

February 1997

ONSITE
ENVIRONMENTAL
LABORATORIES, INC.

[redacted]

Date: February 10, 1997
From: Garth Voigt
To: Dave Parker
Re: **Case Narrative for Project 9636-0541**
Laboratory ID # 1D018 (01 through 35)

Samples were received by ONSITE Mobile Laboratory # 1 on February 1, 1997 1997 for EPA analysis 8260 - Soil Vapor Analysis

Lab ID No.	Field ID No.	Date of Preliminary Report	Date of Final Report	Notes
1D018-01	EQUIPBLK-Dave	February 1, 1997	February 10, 1997	4a
1D018-02	EQUIPBLK-Jeff	February 1, 1997	February 10, 1997	
1D018-03	EQUIPBLK-Frank	February 1, 1997	February 10, 1997	4a
1D018-04	JSV-13-10	February 1, 1997	February 10, 1997	4a
1D018-05	JSV-10-10	February 1, 1997	February 10, 1997	4a
1D018-06	JSV-12-10	February 1, 1997	February 10, 1997	
1D018-07	JSV-10-20	February 1, 1997	February 10, 1997	
1D018-08	JSV-12-20	February 1, 1997	February 10, 1997	4a
1D018-09	JSV-13-20	February 1, 1997	February 10, 1997	
1D018-10	JSV-09-10	February 1, 1997	February 10, 1997	7c
1D018-11	JSV-09-20	February 1, 1997	February 10, 1997	
1D018-12	GSV-44-10	February 1, 1997	February 10, 1997	4a
1D018-13	GSV-36-10	February 1, 1997	February 10, 1997	4a
1D018-14	GSV-44-20	February 1, 1997	February 10, 1997	
1D018-15	GSV-36-20	February 1, 1997	February 10, 1997	
1D018-16	JSV-11-10	February 1, 1997	February 10, 1997	4a
1D018-17	JSV-11-20	February 1, 1997	February 10, 1997	4a
1D018-18	GSV-07-10	February 1, 1997	February 10, 1997	
1D018-19	GSV-08-10	February 1, 1997	February 10, 1997	
1D018-20	JSV-08-10	February 1, 1997	February 10, 1997	4a
1D018-21	GSV-07-20	February 1, 1997	February 10, 1997	4a
1D018-22	GSV-08-20	February 1, 1997	February 10, 1997	
1D018-23	JSV-08-20	February 1, 1997	February 10, 1997	4a
1D018-24	GSV-16-10	February 1, 1997	February 10, 1997	
1D018-25	JSV-07-10	February 1, 1997	February 10, 1997	4a
1D018-26	GSV-17-10	February 1, 1997	February 10, 1997	
1D018-27	JSV-07-20	February 1, 1997	February 10, 1997	4a
1D018-28	GSV-16-20	February 1, 1997	February 10, 1997	
1D018-29	GSV-17-20	February 1, 1997	February 10, 1997	
1D018-30	JSV-06-10	February 1, 1997	February 10, 1997	4a
1D018-31	GSV-26-10	February 1, 1997	February 10, 1997	
1D018-32	GSV-25-10	February 1, 1997	February 10, 1997	4a
1D018-33	JSV-06-20	February 1, 1997	February 10, 1997	4a
1D018-34	GSV-25-20	February 1, 1997	February 10, 1997	
1D018-35	GSV-26-20	February 1, 1997	February 10, 1997	
			February 10, 1997	4a
				4a

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1. Sample receipt: All Chain of custody and cooler receipt procedures were observed.

2. Calibration checks: All initial and continuing calibration check standards were acceptable for all analyses.

3. Method blank: The method blank was acceptable for all analyses.

4. Laboratory Control/Laboratory Control Dup. Sample: The LCS recoveries were acceptable for all analyses.
4a. Laboratory Control/Laboratory Control Dup. Sample: The LCS associated with these samples had analyte recoveries outside of QC limits. All other QC was acceptable.
5. Matrix Spike/Matrix Spike Duplicate: The MS/MSD analyses' are not required for Soil Vapor.

6. Surrogates:All surrogate recoveries were within acceptable parameters.
6a. Surrogates:Surrogate recoveries were outside of QC limits due to matrix effects.
6b. Surrogates:Surrogate recoveries were above QC limits. This was reported to the client. As the sample result was ND, the sample was not re-extracted.

7. Samples: Sample results were satisfactory for all parameters
7a. Samples: Samples were re-analyzed in order to demonstarte matrix interference.
7b. Samples: Samples were diluted in order to bring target analytes within calibration range.
7c. Samples: Sample lost due to system error. Not enough sample to perform reanalysis.

8. Sample Duplicates: The sample duplicates were acceptable for all analyses'.

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LABORATORIES, INC.

Date: February 10, 1997
From: Garth Voigt
To: Dave Parker
Re: Case Narrative for Project 9636-0541
Laboratory ID # 1D018 (36 through 83)

Samples were received by ONSITE Mobile Laboratory # 1 on February 1, 1997 1997 for EPA analysis 8260 - Soil Vapor Analysis

Lab ID No.	Field ID No.	Date of Preliminary Report	Date of Final Report	Notes
1D018-36	JSV-05-10	February 1, 1997	February 10, 1997	
1D018-37	GSV-35-10	February 1, 1997	February 10, 1997	
1D018-38	GSV-51-10	February 1, 1997	February 10, 1997	
1D018-39	JSV-05-20	February 1, 1997	February 10, 1997	4a
1D018-40	GSV-51-20	February 1, 1997	February 10, 1997	4a
1D018-41	GSV-51-20D	February 1, 1997	February 10, 1997	
1D018-42	GSV-35-20	February 1, 1997	February 10, 1997	
1D018-43	GSV-35-20D	February 1, 1997	February 10, 1997	
1D018-44	JSV-20-10	February 1, 1997	February 10, 1997	
1D018-45	JSV-20-10D	February 1, 1997	February 10, 1997	4a
1D018-46	JSV-20-20	February 1, 1997	February 10, 1997	4a
1D018-47	GSV-67-10	February 1, 1997	February 10, 1997	
1D018-48	GSV-59-10	February 1, 1997	February 10, 1997	4a
1D018-49	GSV-59-20	February 1, 1997	February 10, 1997	4a
1D018-50	GSV-67-20	February 1, 1997	February 10, 1997	4a
1D018-51	ISV-01-10	February 1, 1997	February 10, 1997	
1D018-52	ISV-02-10	February 1, 1997	February 10, 1997	4a
1D018-53	ISV-04-10	February 1, 1997	February 10, 1997	4a
1D018-54	ISV-01-20	February 1, 1997	February 10, 1997	
1D018-55	ISV-03-10	February 1, 1997	February 10, 1997	
1D018-56	ISV-02-20	February 1, 1997	February 10, 1997	4a
1D018-57	ISV-04-20	February 1, 1997	February 10, 1997	
1D018-58	ISV-03-20	February 1, 1997	February 10, 1997	4a
1D018-59	JSV-25-10	February 1, 1997	February 10, 1997	
1D018-60	JSV-42-10	February 1, 1997	February 10, 1997	
1D018-61	JSV-41-10	February 1, 1997	February 10, 1997	4a
1D018-62	JSV-42-20	February 1, 1997	February 10, 1997	4a
1D018-63	JSV-25-20	February 1, 1997	February 10, 1997	
1D018-64	JSV-41-20	February 1, 1997	February 10, 1997	
1D018-65	JSV-59-10	February 1, 1997	February 10, 1997	4a
1D018-66	JSV-60-10	February 1, 1997	February 10, 1997	4a
1D018-67	JSV-77-10	February 1, 1997	February 10, 1997	
1D018-68	JSV-60-20	February 1, 1997	February 10, 1997	
1D018-69	JSV-77-20	February 1, 1997	February 10, 1997	4a
1D018-70	JSV-59-20	February 1, 1997	February 10, 1997	4a
1D018-71	JSV-78-10	February 1, 1997	February 10, 1997	
1D018-72	JSV-95-10	February 1, 1997	February 10, 1997	
1D018-73	JSV-100-10	February 1, 1997	February 10, 1997	4a
1D018-74	JSV-78-20	February 1, 1997	February 10, 1997	

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Lab ID No.	Field ID No.	Date of Preliminary Report	Date of Final Report	Notes
1D018-75	JSV-94-10	February 1, 1997	February 10, 1997	4a
1D018-76	JSV-95-20	February 1, 1997	February 10, 1997	7c
1D018-77	JSV-95-20D	February 1, 1997	February 10, 1997	7c
1D018-78	JSV-100-20	February 1, 1997	February 10, 1997	4a
1D018-79	JSV-100-20D	February 1, 1997	February 10, 1997	4a
1D018-80	TripBlk-LCW	February 1, 1997	February 10, 1997	
1D018-81	JSV-94-20	February 1, 1997	February 10, 1997	4a
1D018-82	JSV-94-20D	February 1, 1997	February 10, 1997	4a
1D018-83	Travel Blank	February 1, 1997	February 10, 1997	

1. Sample receipt: All Chain of custody and cooler receipt procedures were observed.

2. Calibration checks: All initial and continuing calibration check standards were acceptable for all analyses.

3. Method blank: The method blank was acceptable for all analyses.

4. Laboratory Control/Laboratory Control Dup. Sample: The LCS recoveries were acceptable for all analyses.
4a. Laboratory Control/Laboratory Control Dup. Sample: The LCS associated with these samples had analyte recoveries outside of QC limits. All other QC was acceptable.
5. Matrix Spike/Matrix Spike Duplicate: The MS/MSD analyses' are not required for Soil Vapor.

6. Surrogates: All surrogate recoveries were within acceptable parameters.
6a. Surrogates: Surrogate recoveries were outside of QC limits due to matrix effects.
6b. Surrogates: Surrogate recoveries were above QC limits. This was reported to the client. As the sample result was ND, the sample was not re-extracted.

7. Samples: Sample results were satisfactory for all parameters
7a. Samples: Samples were re-analyzed in order to demonstarte matrix interference.
7b. Samples: Samples were diluted in order to bring target analytes within calibration range.
7c. Samples: Sample lost due to system error. Not enough sample to perform reanalysis.

8. Sample Duplicates: The sample duplicates were acceptable for all analyses'.

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CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION

LABORATORY REPORT FORM (COVER PAGE 1)

Laboratory Name: Onsite Environmental Laboratories, Inc.

Address: 5500 Boscell Common
Fremont, CA 94538

Telephone/FAX: (510) 490-8571 / (510) 490-8572

ELAP Certification No. 1774 Expiration Date: 7/31/98

Authorized Signature Name, Title (print) Gayth Voigt, Laboratory Director

Signature, Date Gayth Voigt 2/10/97

Client Name: Fugro West, Inc.

Project No.: 9636-0541

Date(s) Sampled: 2/1/97 To 2/1/97

Date(s) received: 2/1/97 To 2/1/97

Date(s) reported: 2/2/97

Chain of custody received: Yes ____ No ____

Comments:

(RWQCB LabForm;Ver12/

BGPA

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION

LABORATORY REPORT FORM (COVER PAGE 2)

Organic Analyses # of Samples # of Samples Subcontracted

83 Soil vapor and air Samples for 8260

NOTE: 3 Samples Lost due to system error.

Sample Condition: Acceptable

Inorganic Analyses # of Samples # of Samples Subcontracted

Sample Condition:

Microbiological Analyses # of Samples # of Samples Subcontracted

Sample Condition:

Other Types of Analyses # of Samples # of Samples Subcontracted

Sample condition:

(RWQCB LabForm;Ver12/

BGPA

ANALYTICAL RESULTS SUMMARY

ONSITE
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LABORATORIES, INC.
[redacted]

LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260 | Project No: 9636-0541 | REPORTING UNITS : µg/L-air

		DATE ANALYZED	2/1/97	2/1/97	2/1/97	2/1/97	2/1/97	2/1/97	2/1/97
		LAB SAMPLE ID	10018-01	10018-02	10018-03	10018-04	10018-05	10018-06	10018-07
		CLIENT SAMPLE ID	EquipBlk-D	EquipBlk-J	EquipBlk-F	JSV-13-10	JSV-10-10	JSV-12-10	JSV-10-20
		DILUTION FACTOR	0.1	0.1	0.1	0.1	0.1	0.1	0.2
COMPOUND		CRDL	MB	MB	MB				
Benzene		1	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		1	ND	ND	ND	ND	ND	ND	ND
Bromoform		1	ND	ND	ND	ND	ND	ND	ND
Bromomethane		1	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride		1	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Chloroethane		1	ND	ND	ND	ND	ND	ND	ND
Chloroform		1	ND	ND	ND	ND	ND	ND	ND
Chloromethane		1	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	ND	1.8	ND	ND	1.4
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		1	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene		1	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)		1	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		1	ND	ND	ND	ND	ND	ND	ND
Toluene		1	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	ND	2.3	ND	ND	1.8
Trichloroethene (TCE)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorotrifluoroethane (Freon 113)		1	ND	ND	ND	ND	ND	ND	ND
m,p-Xylenes		1	ND	ND	ND	ND	ND	ND	ND
o-Xylene		1	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)		1	ND	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-110%	96%	103%	108%	112%	97%	102%	94%
Toluene-d8	50	80%-115%	89%	101%	113%	113%	98%	100%	100%
4-Bromofluorobenzene	50	75%-125%	90%	98%	110%	109%	96%	97%	101%

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
J - Estimated value
Dilution Factor equal 1 for 5.0cc injection

Gareth Voigt
Laboratory Director

FEB 11 1997
Date

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ONSITE
ENVIRONMENTAL
LABORATORIES, INC.

LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260

Project No: 9636-0541

REPORTING UNITS : µg/L-air

		DATE ANALYZED	2/1/97	2/1/97	2/1/97	2/1/97	2/1/97	2/1/97	2/1/97
		LAB SAMPLE ID	1D018-08	1D018-09	1D018-10	1D018-11	1D018-12	1D018-13	1D018-14
		CLIENT SAMPLE ID	JSV-12-20	JSV-13-20	JSV-09-10	JSV-09-20	GSV-44-10	GSV-36-10	GSV-44-20
		DILUTION FACTOR	0.1	0.1	0.1	0.1	0.1	0.1	0.1
COMPOUND		CRDL							
Benzene		1	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		1	ND	ND	ND	ND	ND	ND	ND
Bromoform		1	ND	ND	ND	ND	ND	ND	ND
Bromomethane		1	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride		1	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Chloroethane		1	ND	ND	ND	ND	ND	ND	ND
Chloroform		1	ND	ND	ND	ND	ND	ND	ND
Chloromethane		1	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	3.8	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		1	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene		1	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)		1	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		1	ND	ND	ND	ND	ND	ND	ND
Toluene		1	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	4.6	ND	ND	ND	ND	ND
Trichloroethene (TCE)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorotrifluoroethane (Freon 113)		1	ND	ND	ND	ND	ND	ND	ND
m,p-Xylenes		1	ND	1.3 J	ND	ND	ND	ND	ND
o-Xylene		1	ND	1.2	ND	ND	1.1	ND	1.8
Vinyl chloride (VC)		1	ND	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-110%	96%	97%		106%	109%	94%	94%
Toluene-d8	50	80%-115%	97%	101%		102%	112%	98%	100%
4-Bromofluorobenzene	50	75%-125%	92%	95%		96%	110%	92%	101%

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
[redacted] Sample Lost due to system error.
J - Estimated value
Dilution factor equal 1 for 5.0cc injection

Laboratory Director

FEB 11 1997
Date

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ONSITE
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LABORATORIES, INC.

LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260

Project No: 9636-0541

REPORTING UNITS : µg/L-air

		DATE ANALYZED	2/1/97	2/1/97	2/1/97	2/1/97	2/1/97	2/1/97	2/1/97
		LAB SAMPLE ID	1D018-15	1D018-16	1D018-17	1D018-18	1D018-19	1D018-20	1D018-21
		CLIENT SAMPLE ID	GSV-36-20	JSV-11-10	JSV-11-20	GSV-07-10	GSV-08-10	JSV-08-10	GSV-07-20
		DILUTION FACTOR	0.1	0.1	0.1	0.1	0.1	0.1	0.1
COMPOUND		CRDL							
Benzene		1	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		1	ND	ND	ND	ND	ND	ND	ND
Bromoform		1	ND	ND	ND	ND	ND	ND	ND
Bromomethane		1	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride		1	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Chloroethane		1	ND	ND	ND	ND	ND	ND	ND
Chloroform		1	ND	ND	ND	ND	ND	ND	ND
Chloromethane		1	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		1	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene		1	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)		1	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		1	ND	ND	ND	ND	ND	ND	ND
Toluene		1	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)		1	ND	ND	ND	ND	ND	ND	1.1
Trichlorofluoromethane (Freon 11)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorotrifluoroethane (Freon 113)		1	ND	ND	ND	ND	ND	ND	ND
m,p-Xylenes		1	ND	ND	ND	ND	ND	ND	ND
o-Xylene		1	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)		1	ND	ND	ND	1.1	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-110%	104%	111%	95%	94%	93%	111%	92%
Toluene-d8	50	80%-115%	101%	113%	97%	100%	101%	112%	97%
4-Bromofluorobenzene	50	75%-125%	94%	110%	91%	102%	90%	112%	93%

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
J - Estimated value
* - Hydrocarbons Within Gasoline Range Detected in Sample
Dilution Factor equal 1 for 5.0cc injection

Laboratory Director

FEB 11 1997

Date

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LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260 | Project No: 9636-0541 | REPORTING UNITS : µg/L-air

		DATE ANALYZED	2/1/97	2/1/97	2/1/97	2/1/97	2/1/97	2/1/97	2/1/97
		LAB SAMPLE ID	1D018-22	1D018-23	1D018-24	1D018-25	1D018-26	1D018-27	1D018-28
		CLIENT SAMPLE ID	GSV-08-20	JSV-08-20	GSV-16-10	JSV-07-10	GSV-17-10	JSV-07-20	GSV-16-20
		DILUTION FACTOR	0.1	0.1	0.1	0.1	0.1	0.1	0.1
COMPOUND		CRDL							
Benzene		1	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		1	ND	ND	ND	ND	ND	ND	ND
Bromoform		1	ND	ND	ND	ND	ND	ND	ND
Bromomethane		1	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride		1	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Chloroethane		1	ND	ND	ND	ND	ND	ND	ND
Chloroform		1	ND	ND	ND	ND	ND	ND	ND
Chloromethane		1	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		1	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene		1	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)		1	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		1	ND	ND	ND	ND	ND	ND	ND
Toluene		1	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorotrifluoroethane (Freon 113)		1	ND	ND	ND	2.1 J	ND	2.1 J	ND
m,p-Xylenes		1	ND	ND	ND	ND	ND	ND	ND
o-Xylene		1	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)		1	ND	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-110%	107%	111%	95%	93%	103%	94%	110%
Toluene-d8	50	80%-115%	102%	112%	100%	96%	101%	100%	112%
4-Bromofluorobenzene	50	75%-125%	96%	111%	101%	89%	97%	101%	112%

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
J - Estimated value
* - Hydrocarbons Within Gasoline Range Detected in Sample
Dilution Factor equal 1 for 5.0cc injection

Harold Vogt
Laboratory Director

FEB 11 1997
Date

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LABORATORIES, INC.

LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260 | Project No: 9636-0541 | REPORTING UNITS : µg/L-air

		DATE ANALYZED	2/1/97	2/1/97	2/1/97	2/1/97	2/1/97	2/1/97	2/1/97
		LAB SAMPLE ID	1D018-29	1D018-30	1D018-31	1D018-32	1D018-33	1D018-34	1D018-35
		CLIENT SAMPLE ID	GSV-17-20	JSV-06-10	GSV-26-10	GSV-25-10	JSV-06-20	GSV-25-20	GSV-26-20
		DILUTION FACTOR	0.1	0.1	0.1	0.1	0.1	0.1	0.1
COMPOUND		CRDL							
Benzene		1	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		1	ND	ND	ND	ND	ND	ND	ND
Bromoform		1	ND	ND	ND	ND	ND	ND	ND
Bromomethane		1	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride		1	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Chloroethane		1	ND	ND	ND	ND	ND	ND	ND
Chloroform		1	ND	ND	ND	ND	ND	ND	ND
Chloromethane		1	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		1	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene		1	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)		1	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		1	ND	ND	ND	ND	ND	ND	ND
Toluene		1	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)		1	1.5	ND	ND	ND	ND	1.9	ND
Trichlorofluoromethane (Freon 11)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorotrifluoroethane (Freon 113)		1	1.9 J	ND	1.1 J	3.5 J	ND	5.4 J	4.4 J
m,p-Xylenes		1	ND	ND	ND	1.2	ND	1.4	ND
o-Xylene		1	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)		1	ND	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-110%	106%	92%	112%	95%	104%	94%	112%
Toluene-d8	50	80%-115%	102%	94%	112%	99%	102%	98%	111%
4-Bromofluorobenzene	50	75%-125%	98%	90%	112%	102%	98%	91%	112%

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
J - Estimated value
Dilution factor equal 1 for 5.0cc injection

Laboratory Director

FEB 11 1997
Date

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ENVIRONMENTAL
LABORATORIES, INC.

LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260 | Project No: 9636-0541 | REPORTING UNITS : µg/L-air

		DATE ANALYZED	2/1/97	2/1/97	2/1/97	2/1/97	2/1/97	2/1/97	2/1/97
		LAB SAMPLE ID	1D018-36	1D018-37	1D018-38	1D018-39	1D018-40	1D018-41	1D018-42
		CLIENT SAMPLE ID	JSV-05-10	GSV-35-10	GSV-51-10	JSV-05-20	GSV-51-20	GSV-51-20D	GSV-35-20
		DILUTION FACTOR	0.1	0.1	0.1	0.1	0.1	0.1	0.1
COMPOUND		CRDL							
Benzene		1	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		1	ND	ND	ND	ND	ND	ND	ND
Bromoform		1	ND	ND	ND	ND	ND	ND	ND
Bromomethane		1	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride		1	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Chloroethane		1	ND	ND	ND	ND	ND	ND	ND
Chloroform		1	ND	ND	ND	ND	ND	ND	ND
Chloromethane		1	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		1	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene		1	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)		1	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		1	ND	2.3	ND	ND	ND	ND	ND
Toluene		1	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorotrifluoroethane (Freon 113)		1	ND	15 J	4.7 J	ND	4.5 J	4.9 J	17 J
m,p-Xylenes		1	ND	ND	ND	ND	1.3	1.3	ND
o-Xylene		1	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)		1	ND	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-110%	104%	95%	111%	94%	102%	101%	94%
Toluene-d8	50	80%-115%	102%	100%	112%	97%	100%	101%	100%
4-Bromofluorobenzene	50	75%-125%	99%	101%	111%	94%	99%	100%	101%

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
J - Estimated value
Dilution Factor equal 1 for 5.0cc injection

Laboratory Director

FEB 11 1997
Date

Printed on recycled paper.

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LABORATORIES, INC.

LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260 | Project No: 9636-0541 | REPORTING UNITS : µg/L-air

		DATE ANALYZED	2/1/97	2/1/97	2/1/97	2/1/97	2/1/97	2/1/97	2/1/97
		LAB SAMPLE ID	1D018-43	1D018-44	1D018-45	1D018-46	1D018-47	1D018-48	1D018-49
		CLIENT SAMPLE ID	GSV-35-20D	JSV-20-10	JSV-20-10D	JSV-20-20	GSV-67-10	GSV-59-10	GSV-59-20
		DILUTION FACTOR	0.1	0.1	0.1	0.1	0.1	0.1	0.1
COMPOUND		CRDL							
Benzene		1	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		1	ND	ND	ND	ND	ND	ND	ND
Bromoform		1	ND	ND	ND	ND	ND	ND	ND
Bromomethane		1	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride		1	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Chloroethane		1	ND	ND	ND	ND	ND	ND	ND
Chloroform		1	ND	ND	ND	ND	ND	ND	ND
Chloromethane		1	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		1	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene		1	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)		1	ND	ND	ND	ND	ND	1.2	ND
1,1,1,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		1	ND	ND	ND	ND	3.4	8.3	3.4
Toluene		1	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorotrifluoroethane (Freon 113)		1	5.5 J	ND	ND	ND	34 J	44 J	19 J
m,p-Xylenes		1	ND	ND	ND	ND	ND	ND	ND
o-Xylene		1	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)		1	ND	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-110%	82%	111%	111%	96%	113%	96%	109%
Toluene-d8	50	80%-115%	98%	112%	111%	101%	111%	96%	110%
4-Bromofluorobenzene	50	75%-125%	95%	111%	111%	101%	112%	89%	112%

Notes ;

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
J - Estimated value
Dilution Factor equal 1 for 5.0cc injection

Laboratory Director

FEB 11 1997
Date

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LABORATORIES, INC.

LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260 | Project No: 9636-0541 | REPORTING UNITS : µg/L-air

		DATE ANALYZED	2/1/97	2/1/97	2/1/97	2/1/97	2/1/97	2/1/97	2/1/97
		LAB SAMPLE ID	10018-50	10018-51	10018-52	10018-53	10018-54	10018-55	10018-56
		CLIENT SAMPLE ID	GSV-67-20	ISV-01-10	ISV-02-10	ISV-04-10	ISV-01-20	ISV-03-10	ISV-02-20
		DILUTION FACTOR	0.1	0.1	0.1	0.1	0.1	0.1	0.1
COMPOUND		CRDL							
Benzene		1	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		1	ND	ND	ND	ND	ND	ND	ND
Bromoform		1	ND	ND	ND	ND	ND	ND	ND
Bromomethane		1	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride		1	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Chloroethane		1	ND	ND	ND	ND	ND	ND	ND
Chloroform		1	ND	ND	ND	ND	ND	ND	ND
Chloromethane		1	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	ND	ND	ND	ND	3.0
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	2.6	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		1	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene		1	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)		1	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		1	ND	ND	ND	7.4	ND	ND	ND
Toluene		1	ND	ND	1.2	ND	ND	ND	1.3
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorotrifluoroethane (Freon 113)		1	30 J	ND	ND	3.0 J	ND	ND	ND
m,p-Xylenes		1	ND	ND	ND	1.3	ND	ND	ND
o-Xylene		1	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)		1	ND	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-110%	103%	94%	112%	94%	101%	96%	95%
Toluene-d8	50	80%-115%	100%	98%	110%	100%	99%	97%	100%
4-Bromofluorobenzene	50	75%-125%	100%	93%	112%	99%	97%	92%	101%

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
J - Estimated value
Dilution Factor equal 1 for 5.0cc injection

Laboratory Director

FEB 11 1997
Date

ONSITE
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LABORATORIES, INC.

LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260 | Project No: 9636-0541 | REPORTING UNITS : µg/L-air

		DATE ANALYZED	2/1/97	2/1/97	2/1/97	2/1/97	2/1/97	2/1/97	2/1/97
		LAB SAMPLE ID	1D018-57	1D018-58	1D018-59	1D018-60	1D018-61	1D018-62	1D018-63
		CLIENT SAMPLE ID	ISV-04-20	ISV-03-20	JSV-25-10	JSV-42-10	JSV-41-10	JSV-42-20	JSV-25-20
		DILUTION FACTOR	0.1	0.1	0.1	0.1	0.1	0.1	0.1
COMPOUND		CRDL							
Benzene		1	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		1	ND	ND	ND	ND	ND	ND	ND
Bromoform		1	ND	ND	ND	ND	ND	ND	ND
Bromomethane		1	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride		1	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Chloroethane		1	ND	ND	ND	ND	ND	ND	ND
Chloroform		1	ND	ND	ND	ND	ND	ND	ND
Chloromethane		1	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	ND	ND	7.1	ND	ND
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		1	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene		1	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)		1	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		1	ND	ND	ND	ND	ND	ND	ND
Toluene		1	1.4	ND	ND	ND	3.2	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorotrifluoroethane (Freon 113)		1	ND	ND	ND	ND	ND	ND	ND
m,p-Xylenes		1	ND	ND	ND	ND	ND	ND	ND
o-Xylene		1	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)		1	ND	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-110%	111%	103%	101%	97%	110%	94%	88%
Toluene-d8	50	80%-115%	112%	100%	99%	98%	110%	100%	96%
4-Bromofluorobenzene	50	75%-125%	112%	97%	97%	93%	110%	101%	91%

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
J - Estimated value
Dilution Factor equal 1 for 5.0cc injection

Gerald Vogt
Laboratory Director

FEB 11 1997
Date

ONSITE
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LABORATORIES, INC.
[redacted]

LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260 | Project No: 9636-0541 | REPORTING UNITS : µg/L-air

		DATE ANALYZED	2/1/97	2/1/97	2/1/97	2/1/97	2/1/97	2/1/97	2/1/97
		LAB SAMPLE ID	1D018-64	1D018-65	1D018-66	1D018-67	1D018-68	1D018-69	1D018-70
		CLIENT SAMPLE ID	JSV-41-20	JSV-59-10	JSV-60-10	JSV-77-10	JSV-60-20	JSV-77-20	JSV-59-20
		DILUTION FACTOR	0.1	0.1	0.1	0.1	0.1	0.1	0.1
COMPOUND		CRDL							
Benzene		1	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		1	ND	ND	ND	ND	ND	ND	ND
Bromoform		1	ND	ND	ND	ND	ND	ND	ND
Bromomethane		1	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride		1	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Chloroethane		1	ND	ND	ND	ND	ND	ND	ND
Chloroform		1	ND	ND	ND	ND	ND	ND	ND
Chloromethane		1	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)		1	13	ND	ND	4.9	ND	7.4	ND
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		1	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene		1	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)		1	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		1	ND	ND	ND	2.7	ND	6.3	ND
Toluene		1	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)		1	5.7	ND	ND	2.4	ND	3.8	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)		1	ND	ND	ND	ND	ND	1.4	ND
Trichlorofluoromethane (Freon 11)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorotrifluoroethane (Freon 113)		1	ND	ND	ND	ND	ND	ND	ND
m,p-Xylenes		1	ND	ND	ND	ND	ND	ND	ND
o-Xylene		1	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)		1	ND	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-110%	111%	98%	95%	111%	111%	96%	95%
Toluene-d8	50	80%-115%	112%	97%	101%	101%	112%	98%	100%
4-Bromofluorobenzene	50	75%-125%	111%	92%	102%	100%	112%	93%	101%

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
J - Estimated value
Dilution Factor equal 1 for 5.0cc injection

Laboratory Director

FEB 11 1997
Date

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LABORATORIES, INC.
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LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260 **Project No: 9636-0541** **REPORTING UNITS : µg/L-air**

		DATE ANALYZED	2/1/97	2/1/97	2/1/97	2/1/97	2/1/97	2/1/97	2/1/97
		LAB SAMPLE ID	1D018-71	1D018-72	1D018-73	1D018-74	1D018-75	1D018-76	1D018-77
		CLIENT SAMPLE ID	JSV-78-10	JSV-95-10	JSV-100-10	JSV-78-20	JSV-94-10	JSV-95-20	JSV-95-200
		DILUTION FACTOR	0.1	0.1	0.1	0.1	0.1	0.1	0.1
COMPOUND		CRDL							
Benzene		1	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		1	ND	ND	ND	ND	ND	ND	ND
Bromoform		1	ND	ND	ND	ND	ND	ND	ND
Bromomethane		1	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride		1	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Chloroethane		1	ND	ND	ND	ND	ND	ND	ND
Chloroform		1	ND	ND	ND	ND	ND	ND	ND
Chloromethane		1	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	1.4	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		1	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene		1	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)		1	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		1	ND	ND	17	ND	ND	ND	ND
Toluene		1	ND	ND	4.3	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)		1	ND	ND	3.2	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorotrifluoroethane (Freon 113)		1	ND	ND	ND	ND	ND	ND	ND
m,p-Xylenes		1	ND	ND	ND	ND	ND	ND	ND
o-Xylene		1	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)		1	ND	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-110%	104%	110%	95%	103%	96%		
Toluene-d8	50	80%-115%	101%	110%	100%	102%	97%		
4-Bromofluorobenzene	50	75%-125%	98%	112%	101%	98%	92%		

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
[redacted] Sample Lost due to system error.
J - Estimated value
Dilution Factor equal 1 for 5.0cc injection

Laboratory Director

FEB 11 1997
Date

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LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260 | Project No: 9636-0541 | REPORTING UNITS : µg/L-air

		DATE ANALYZED	2/1/97	2/1/97	2/1/97	2/1/97	2/1/97	2/1/97
		LAB SAMPLE ID	1D018-78	1D018-79	1D018-80	1D018-81	1D018-82	1D018-83
		CLIENT SAMPLE ID	JSV-100-20	JSV-100-20D	TripBlk-LCW	JSV-94-20	JSV-94-20D	Travel Blk
		DILUTION FACTOR	0.1	0.1	0.1	0.1	0.1	0.1
COMPOUND		CRDL						
Benzene		1	ND	ND	ND	ND	ND	ND
Bromodichloromethane		1	ND	ND	ND	ND	ND	ND
Bromoform		1	ND	ND	ND	ND	ND	ND
Bromomethane		1	ND	ND	ND	ND	ND	ND
Carbon tetrachloride		1	ND	ND	ND	ND	ND	ND
Chlorobenzene		1	ND	ND	ND	ND	ND	ND
Chloroethane		1	ND	ND	ND	ND	ND	ND
Chloroform		1	ND	ND	ND	ND	ND	ND
Chloromethane		1	ND	ND	ND	ND	ND	ND
Dibromochloromethane		1	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)		1	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)		1	4.2	3.4	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		1	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND
Ethyl benzene		1	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)		1	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		1	58 J	54 J	ND	ND	ND	ND
Toluene		1	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)		1	2.3	1.8	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)		1	12	10	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)		1	ND	ND	ND	ND	ND	ND
Trichlorotrifluoroethane (Freon 113)		1	ND	ND	ND	ND	ND	ND
m,p-Xylenes		1	ND	ND	ND	ND	ND	ND
o-Xylene		1	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)		1	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-110%	111%	108%	99%	96%	95%	104%
Toluene-d8	50	80%-115%	112%	111%	100%	97%	98%	101%
4-Bromofluorobenzene	50	75%-125%	112%	111%	98%	94%	94%	98%

Notes :
ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
J - Estimated value
Dilution Factor equal 1 for 5.0cc injection

Laboratory Director

FEB 11 1997
Date

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QA/QC RESULTS SUMMARY

ONSITE ENVIRONMENTAL LABORATORIES, INC.

1D018MS5-QCV LCS

LABORATORY QA/QC REPORT FOR ORGANICS

Laboratory Quality Control Check Sample (LCS)

METHOD : EPA 8260 | Project No: 9636-0541 | REPORTING UNITS : µg/L

DATE PERFORMED: 2/1/97
SUPPLY SOURCE: Absolute Standards, INC.
LOT NUMBER: 071096(gases), 050595(liq.)
DATE OF SOURCE: 1/21/97

LAB LCS ID: LCS 2/1 MS5

ANALYTE	SPIKE CONC	RESULT	%RECOVERY	ACP %REC LIMIT
Benzene	50	50.1	100%	80%-120%
Bromodichloromethane	50	54.9	110%	80%-120%
Bromoform	50	54.7	109%	80%-120%
Bromomethane	50	45.7	91%	80%-120%
Carbon tetrachloride	50	56.1	112%	80%-120%
Chlorobenzene	50	50.8	102%	80%-120%
Chloroethane	50	43.2	86%	80%-120%
Chloroform	50	52.6	105%	80%-120%
Chloromethane	50	41.0	82%	80%-120%
Dibromochloromethane	50	53.3	107%	80%-120%
1,2-Dichlorobenzene	50	54.0	108%	80%-120%
1,3-Dichlorobenzene	50	53.7	107%	80%-120%
1,4-Dichlorobenzene	50	53.9	108%	80%-120%
Dichlorodifluoromethane (Freon 12)	50	34.8	70%	80%-120%
1,1-Dichloroethane (1,1-DCA)	50	51.3	103%	80%-120%
1,2-Dichloroethane (1,2-DCA)	50	57.0	114%	80%-120%
1,1-Dichloroethene (1,1-DCE)	50	47.6	95%	80%-120%
cis-1,2-Dichloroethene (c-1,2-DCE)	50	51.8	104%	80%-120%
trans-1,2-Dichloroethene (t-1,2-DCE)	50	46.0	92%	80%-120%
1,2-Dichloropropane	50	53.5	107%	80%-120%
cis-1,3-Dichloropropene	50	57.8	116%	80%-120%
trans-1,3-Dichloropropene	50	48.8	98%	80%-120%
Ethyl benzene	50	51.8	104%	80%-120%
Methylene chloride (Dichloromethane)	50	51.3	103%	80%-120%
1,1,1,2-Tetrachloroethane	50	52.6	105%	80%-120%
1,1,2,2-Tetrachloroethane	50	53.2	106%	80%-120%
Tetrachloroethene (PCE)	50	54.7	109%	80%-120%
Toluene	50	49.6	99%	80%-120%
1,1,1-Trichloroethane (1,1,1-TCA)	50	52.4	105%	80%-120%
1,1,2-Trichloroethane (1,1,2-TCA)	50	54.5	109%	80%-120%
Trichloroethene (TCE)	50	52.9	106%	80%-120%
Trichlorofluoromethane (Freon 11)	50	56.6	113%	80%-120%
m,p-Xylenes	100	104.5	105%	80%-120%
o-Xylene	50	51.5	103%	80%-120%
Vinyl chloride (VC)	50	44.5	89%	80%-120%
SURROGATE	SPK conc	%RC		
Dibromofluoromethane	50	111%		
Toluene-d8	50	111%		
4-Bromofluorobenzene	50	111%		

Notes : ND - Analytes not detected at, or above the stated detection limit

Gordy Vogt
Laboratory Director

FEB 11 1997
Date

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ONSITE
ENVIRONMENTAL
LABORATORIES, INC.

1D018MS5-QCV Dup

LABORATORY QA/QC REPORT FOR ORGANICS

METHOD : EPA 8260 | Project No: 9636-0541 | REPORTING UNITS : µg/L-air

DATE PERFORMED: 2/1/97
BATCH #: S-0201-1V

		DATE ANALYZED	2/1/97	2/1/97	RPD %	2/1/97	2/1/97	RPD %	RPD LIMIT
		LAB SAMPLE ID	1D018-44	1D018-45		1D018-78	1D018-79		
		CLIENT SAMPLE ID	JSV-20-10	JSV-20-10D		JSV-100-20	JSV-100-20D		
		DILUTION FACTOR	0.1	0.1		0.1	0.1		
COMPOUND		CRDL							
Benzene		1	ND	ND	0%	ND	ND	0%	50%
Bromodichloromethane		1	ND	ND	0%	ND	ND	0%	50%
Bromoform		1	ND	ND	0%	ND	ND	0%	50%
Bromomethane		1	ND	ND	0%	ND	ND	0%	50%
Carbon tetrachloride		1	ND	ND	0%	ND	ND	0%	50%
Chlorobenzene		1	ND	ND	0%	0.35	0.29	19%	50%
Chloroethane		1	ND	ND	0%	ND	ND	0%	50%
Chloroform		1	ND	ND	0%	ND	ND	0%	50%
Chloromethane		1	ND	ND	0%	0.39	0.31	22%	50%
Dibromochloromethane		1	ND	ND	0%	ND	ND	0%	50%
1,2-Dichlorobenzene		1	ND	ND	0%	ND	ND	0%	50%
1,3-Dichlorobenzene		1	ND	ND	0%	ND	ND	0%	50%
1,4-Dichlorobenzene		1	ND	ND	0%	ND	ND	0%	50%
Dichlorodifluoromethane (Freon 12)		1	ND	ND	0%	ND	ND	0%	50%
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	0%	ND	ND	0%	50%
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	0%	ND	ND	0%	50%
1,1-Dichloroethane (1,1-DCE)		1	ND	ND	0%	ND	ND	0%	50%
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	0%	4.2	3.4	21%	50%
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	0%	ND	ND	0%	50%
1,2-Dichloropropane		1	ND	ND	0%	ND	ND	0%	50%
cis-1,3-Dichloropropene		1	ND	ND	0%	ND	ND	0%	50%
trans-1,3-Dichloropropene		1	ND	ND	0%	ND	ND	0%	50%
Ethyl benzene		1	ND	ND	0%	ND	ND	0%	50%
Methylene chloride (Dichloromethane)		1	ND	ND	0%	ND	ND	0%	50%
1,1,1,2-Tetrachloroethane		1	ND	ND	0%	ND	ND	0%	50%
1,1,2,2-Tetrachloroethane		1	ND	ND	0%	ND	ND	0%	50%
Tetrachloroethene (PCE)		1	ND	ND	0%	ND	ND	0%	50%
Toluene		1	ND	ND	0%	58	54	6%	50%
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	0%	ND	ND	0%	50%
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	0%	2.2	1.8	21%	50%
Trichloroethene (TCE)		1	ND	ND	0%	ND	ND	0%	50%
Trichlorofluoromethane (Freon 11)		1	ND	ND	0%	12	10	18%	50%
Trichlorotrifluoroethane (Freon 113)		1	ND	ND	0%	ND	ND	0%	50%
m,p-Xylenes		1	ND	ND	0%	0.55	0.45	20%	50%
o-Xylene		1	ND	ND	0%	ND	ND	0%	50%
Vinyl chloride (VC)		1	ND	ND	0%	ND	ND	0%	50%
SURROGATE	SPK conc	ACP %	%RC	%RC		%RC	%RC		
Dibromofluoromethane	50	75%-110%	111%	111%		111%	109%		
Toluene-d8	50	80%-115%	112%	111%		112%	111%		
4-Bromofluorobenzene	50	75%-125%	111%	111%		112%	111%		

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
Dilution Factor equal 1 for 5.0cc injection

Harold Vogt
Laboratory Director

FEB 11 1997
Date

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ONSITE
ENVIRONMENTAL
LABORATORIES, INC.

10018MS4-QCV LCS

LABORATORY QA/QC REPORT FOR ORGANICS

Laboratory Quality Control Check Sample (LCS)

METHOD : EPA 8260

Project No: 9636-0541

REPORTING UNITS : µg/L

DATE PERFORMED: 2/1/97
SUPPLY SOURCE: Absolute Standards, INC.
LOT NUMBER: 071096(gases), 050595(liq.)
DATE OF SOURCE: 1/21/97

LAB LCS ID: LCS01 2/1 MS4

ANALYTE	SPIKE CONC	RESULT	%RECOVERY	ACP %REC LIMIT
Benzene	25	21.3	85%	80%-120%
Bromodichloromethane	25	20.8	83%	80%-120%
Bromoform	25	17.7	71%	80%-120%
Bromomethane	25	21.9	87%	80%-120%
Carbon tetrachloride	25	20.3	81%	80%-120%
Chlorobenzene	25	20.7	83%	80%-120%
Chloroethane	25	22.8	91%	80%-120%
Chloroform	25	22.3	89%	80%-120%
Chloromethane	25	21.4	85%	80%-120%
Dibromochloromethane	25	18.5	74%	80%-120%
1,2-Dichlorobenzene	25	22.3	89%	80%-120%
1,3-Dichlorobenzene	25	21.5	86%	80%-120%
1,4-Dichlorobenzene	25	20.9	84%	80%-120%
Dichlorodifluoromethane (Freon 12)	25	19.8	79%	80%-120%
1,1-Dichloroethane (1,1-DCA)	25	22.8	91%	80%-120%
1,2-Dichloroethane (1,2-DCA)	25	22.2	89%	80%-120%
1,1-Dichloroethene (1,1-DCE)	25	21.7	87%	80%-120%
cis-1,2-Dichloroethene (c-1,2-DCE)	25	23.5	94%	80%-120%
trans-1,2-Dichloroethene (t-1,2-DCE)	25	20.8	83%	80%-120%
1,2-Dichloropropane	25	22.3	89%	80%-120%
cis-1,3-Dichloropropene	25	23.7	95%	80%-120%
trans-1,3-Dichloropropene	25	19.6	78%	80%-120%
Ethyl benzene	25	21.8	87%	80%-120%
Methylene chloride (Dichloromethane)	25	21.5	86%	80%-120%
1,1,1,2-Tetrachloroethane	25	19.7	79%	80%-120%
1,1,2,2-Tetrachloroethane	25	20.2	81%	80%-120%
Tetrachloroethene (PCE)	25	21.3	85%	80%-120%
Toluene	25	21.9	87%	80%-120%
1,1,1-Trichloroethane (1,1,1-TCA)	25	22.6	90%	80%-120%
1,1,2-Trichloroethane (1,1,2-TCA)	25	21.0	84%	80%-120%
Trichloroethene (TCE)	25	21.6	86%	80%-120%
Trichlorofluoromethane (Freon 11)	25	23.5	94%	80%-120%
m,p-Xylenes	50	42.8	86%	80%-120%
o-Xylene	25	21.1	84%	80%-120%
Vinyl chloride (VC)	25	22.3	89%	80%-120%

SURROGATE	SPK conc		%RC		
Dibromofluoromethane	50		97%		
Toluene-d8	50		98%		
4-Bromofluorobenzene	50		94%		

Notes :

ND - Analytes not detected at, or above the stated detection limit

Laboratory Director

FEB 11 1997

Date

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1D018MS4-QCV Dup

LABORATORY QA/QC REPORT FOR ORGANICS

METHOD : EPA 8260

Project No: 9636-0541

REPORTING UNITS : µg/L-air

DATE PERFORMED: 2/1/97
BATCH #: 4-0201-1V

		DATE ANALYZED	2/1/97	2/1/97	RPD %
		LAB SAMPLE ID	1D018-81	1D018-82	
		CLIENT SAMPLE ID	JSV-94-20	JSV-94-20D	
		DILUTION FACTOR	0.1	0.1	
COMPOUND		CRDL			
Benzene		1	ND	ND	0%
Bromodichloromethane		1	ND	ND	0%
Bromoform		1	ND	ND	0%
Bromomethane		1	ND	ND	0%
Carbon tetrachloride		1	ND	ND	0%
Chlorobenzene		1	ND	ND	0%
Chloroethane		1	ND	ND	0%
Chloroform		1	ND	ND	0%
Chloromethane		1	ND	ND	0%
Dibromochloromethane		1	ND	ND	0%
1,2-Dichlorobenzene		1	ND	ND	0%
1,3-Dichlorobenzene		1	ND	ND	0%
1,4-Dichlorobenzene		1	ND	ND	0%
Dichlorodifluoromethane (Freon 12)		1	ND	ND	0%
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	0%
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	0%
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	0%
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	0%
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	0%
1,2-Dichloropropane		1	ND	ND	0%
cis-1,3-Dichloropropene		1	ND	ND	0%
trans-1,3-Dichloropropene		1	ND	ND	0%
Ethyl benzene		1	ND	ND	0%
Methylene chloride (Dichloromethane)		1	ND	ND	0%
1,1,1,2-Tetrachloroethane		1	ND	ND	0%
1,1,2,2-Tetrachloroethane		1	ND	ND	0%
Tetrachloroethene (PCE)		1	ND	ND	0%
Toluene		1	ND	ND	0%
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	0%
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	0%
Trichloroethene (TCE)		1	ND	ND	0%
Trichlorofluoromethane (Freon 11)		1	ND	ND	0%
Trichlorotrifluoroethane (Freon 113)		1	ND	ND	0%
m,p-Xylenes		1	ND	ND	0%
o-Xylene		1	ND	ND	0%
Vinyl chloride (VC)		1	ND	ND	0%
SURROGATE	SPK conc	ACP %	%RC	%RC	
Dibromofluoromethane	50	75%-110%	98%	95%	
Toluene-d8	50	80%-115%	97%	98%	
4-Bromofluorobenzene	50	75%-125%	94%	94%	

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
Dilution Factor equal 1 for 5.0cc injection

Gareth Vargt
Laboratory Director

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Date

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LABORATORY QA/QC REPORT FOR ORGANICS

Laboratory Quality Control Check Sample (LCS)

METHOD : EPA 8260 | Project No: 9636-0541 | REPORTING UNITS : µg/L

DATE PERFORMED: 2/1/97
SUPPLY SOURCE: Absolute Standards, INC.
LOT NUMBER: 071096(gases), 050595(liq.)
DATE OF SOURCE: 1/21/97

LAB LCS ID: LCS 2/1 MS3

ANALYTE		SPIKE CONC	RESULT	%RECOVERY	ACP %REC LIMIT
Benzene		25	23.0	92%	80%-120%
Bromodichloromethane		25	21.9	88%	80%-120%
Bromoform		25	20.0	80%	80%-120%
Bromomethane		25	21.3	85%	80%-120%
Carbon tetrachloride		25	22.1	88%	80%-120%
Chlorobenzene		25	24.1	96%	80%-120%
Chloroethane		25	21.6	86%	80%-120%
Chloroform		25	22.4	90%	80%-120%
Chloromethane		25	22.3	89%	80%-120%
Dibromochloromethane		25	20.8	83%	80%-120%
1,2-Dichlorobenzene		25	23.6	95%	80%-120%
1,3-Dichlorobenzene		25	24.0	96%	80%-120%
1,4-Dichlorobenzene		25	23.9	95%	80%-120%
Dichlorodifluoromethane (Freon 12)		25	21.3	85%	80%-120%
1,1-Dichloroethane (1,1-DCA)		25	22.4	89%	80%-120%
1,2-Dichloroethane (1,2-DCA)		25	22.7	91%	80%-120%
1,1-Dichloroethene (1,1-DCE)		25	21.2	85%	80%-120%
cis-1,2-Dichloroethene (c-1,2-DCE)		25	22.7	91%	80%-120%
trans-1,2-Dichloroethene (t-1,2-DCE)		25	21.6	86%	80%-120%
1,2-Dichloropropane		25	22.7	91%	80%-120%
cis-1,3-Dichloropropene		25	22.8	91%	80%-120%
trans-1,3-Dichloropropene		25	21.3	85%	80%-120%
Ethyl benzene		25	24.4	97%	80%-120%
Methylene chloride (Dichloromethane)		25	21.2	85%	80%-120%
1,1,1,2-Tetrachloroethane		25	23.0	92%	80%-120%
1,1,2,2-Tetrachloroethane		25	21.8	87%	80%-120%
Tetrachloroethene (PCE)		25	23.4	94%	80%-120%
Toluene		25	22.7	91%	80%-120%
1,1,1-Trichloroethane (1,1,1-TCA)		25	21.7	87%	80%-120%
1,1,2-Trichloroethane (1,1,2-TCA)		25	21.3	85%	80%-120%
Trichloroethene (TCE)		25	22.3	89%	80%-120%
Trichlorofluoromethane (Freon 11)		25	20.0	80%	80%-120%
m,p-Xylenes		50	48.6	97%	80%-120%
o-Xylene		25	23.1	93%	80%-120%
Vinyl chloride (VC)		25	26.4	106%	80%-120%
SURROGATE	SPK conc		%RC		
Dibromofluoromethane	50		93%		
Toluene-d8	50		100%		
4-Bromofluorobenzene	50		99%		

Notes : ND - Analytes not detected at, or the stated detection limit (1ug/L air)

Gordy Vogt
Laboratory Director

FEB 11 1997
Date

ONSITE
ENVIRONMENTAL
LABORATORIES, INC.
[redacted] 9636-0541

LABORATORY QA/QC REPORT FOR ORGANICS

METHOD : EPA 8260

REPORTING UNITS : µg/L-air

DATE PERFORMED: 2/1/97
BATCH #: 3-0201-1V

	DATE ANALYZED	2/1/97	2/1/97	RPD %
	LAB SAMPLE ID	1D018-42	1D018-43	
	CLIENT SAMPLE ID	GSV-35-20	GSV-35-20D	
	DILUTION FACTOR	0.1	0.1	
COMPOUND	CRDL			
Benzene	1	ND	ND	0%
Bromodichloromethane	1	ND	ND	0%
Bromoform	1	ND	ND	0%
Bromomethane	1	ND	ND	0%
Carbon tetrachloride	1	ND	ND	0%
Chlorobenzene	1	ND	ND	0%
Chloroethane	1	ND	ND	0%
Chloroform	1	ND	ND	0%
Chloromethane	1	ND	ND	0%
Dibromochloromethane	1	ND	ND	0%
1,2-Dichlorobenzene	1	ND	ND	0%
1,3-Dichlorobenzene	1	ND	ND	0%
1,4-Dichlorobenzene	1	ND	ND	0%
Dichlorodifluoromethane (Freon 12)	1	ND	ND	0%
1,1-Dichloroethane (1,1-DCA)	1	ND	ND	0%
1,2-Dichloroethane (1,2-DCA)	1	ND	ND	0%
1,1-Dichloroethene (1,1-DCE)	1	ND	ND	0%
cis-1,2-Dichloroethene (c-1,2-DCE)	1	ND	ND	0%
trans-1,2-Dichloroethene (t-1,2-DCE)	1	ND	ND	0%
1,2-Dichloropropane	1	ND	ND	0%
cis-1,3-Dichloropropene	1	ND	ND	0%
trans-1,3-Dichloropropene	1	ND	ND	0%
Ethyl benzene	1	ND	ND	0%
Methylene chloride (Dichloromethane)	1	ND	ND	0%
1,1,1,2-Tetrachloroethane	1	ND	ND	0%
1,1,2,2-Tetrachloroethane	1	ND	ND	0%
Tetrachloroethene (PCE)	1	0.37	0.25	39%
Toluene	1	ND	ND	0%
1,1,1-Trichloroethane (1,1,1-TCA)	1	ND	ND	0%
1,1,2-Trichloroethane (1,1,2-TCA)	1	ND	ND	0%
Trichloroethene (TCE)	1	ND	ND	0%
Trichlorofluoromethane (Freon 11)	1	ND	ND	0%
Trichlorotrifluoroethane (Freon 113)	1	17	5.5	102%
m,p-Xylenes	1	ND	ND	0%
o-Xylene	1	ND	ND	0%
Vinyl chloride (VC)	1	ND	ND	0%
SURROGATE	SPK conc	ACP %	%RC	%RC
Dibromofluoromethane	50	75%-110%	93%	82%
Toluene-d8	50	80%-115%	100%	98%
4-Bromofluorobenzene	50	75%-125%	101%	95%

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
Dilution Factor equal 1 for 5.0cc injection

Gordy Vogt
Laboratory Director

FEB 11 1997
Date

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LABORATORIES, INC.
[redacted]

LABORATORY QA/QC REPORT FOR ORGANICS

Laboratory Quality Control Check Sample (LCS)

METHOD : EPA 8260 | **Project No: 9636-0541** | **REPORTING UNITS : µg/L**

DATE PERFORMED: 2/1/97
SUPPLY SOURCE: Absolute Standards, INC.
LOT NUMBER: 071096(gases), 050595(liq.)
DATE OF SOURCE: 1/21/97

LAB LCS ID: LCS 2/1 MS2

ANALYTE	SPIKE CONC	RESULT	%RECOVERY	ACP %REC LIMIT
Benzene	25	24.2	97%	80%-120%
Bromodichloromethane	25	25.0	100%	80%-120%
Bromoform	25	24.2	97%	80%-120%
Bromomethane	25	28.7	115%	80%-120%
Carbon tetrachloride	25	24.1	97%	80%-120%
Chlorobenzene	25	23.9	96%	80%-120%
Chloroethane	25	25.8	103%	80%-120%
Chloroform	25	25.0	100%	80%-120%
Chloromethane	25	23.1	92%	80%-120%
Dibromochloromethane	25	24.7	99%	80%-120%
1,2-Dichlorobenzene	25	24.4	98%	80%-120%
1,3-Dichlorobenzene	25	24.4	97%	80%-120%
1,4-Dichlorobenzene	25	24.7	99%	80%-120%
Dichlorodifluoromethane (Freon 12)	25	23.8	95%	80%-120%
1,1-Dichloroethane (1,1-DCA)	25	25.0	100%	80%-120%
1,2-Dichloroethane (1,2-DCA)	25	26.5	106%	80%-120%
1,1-Dichloroethene (1,1-DCE)	25	24.7	99%	80%-120%
cis-1,2-Dichloroethene (c-1,2-DCE)	25	24.8	99%	80%-120%
trans-1,2-Dichloroethene (t-1,2-DCE)	25	24.9	100%	80%-120%
1,2-Dichloropropane	25	25.4	101%	80%-120%
cis-1,3-Dichloropropene	25	25.5	102%	80%-120%
trans-1,3-Dichloropropene	25	25.7	103%	80%-120%
Ethyl benzene	25	23.2	93%	80%-120%
Methylene chloride (Dichloromethane)	25	23.7	95%	80%-120%
1,1,1,2-Tetrachloroethane	25	22.1	88%	80%-120%
1,1,2,2-Tetrachloroethane	25	26.2	105%	80%-120%
Tetrachloroethene (PCE)	25	22.8	91%	80%-120%
Toluene	25	23.5	94%	80%-120%
1,1,1-Trichloroethane (1,1,1-TCA)	25	24.3	97%	80%-120%
1,1,2-Trichloroethane (1,1,2-TCA)	25	25.6	102%	80%-120%
Trichloroethene (TCE)	25	24.9	100%	80%-120%
Trichlorofluoromethane (Freon 11)	25	24.3	97%	80%-120%
m,p-Xylenes	50	45.2	90%	80%-120%
o-Xylene	25	22.7	91%	80%-120%
Vinyl chloride (VC)	25	24.1	96%	80%-120%
SURROGATE	SPK conc		%RC	
Dibromofluoromethane	50		102%	
Toluene-d8	50		101%	
4-Bromofluorobenzene	50		103%	

Notes : ND - Analytes not detected at, or above the stated detection limit

Gareth Vorgt
Laboratory Director

FEB 11 1997
Date

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LABORATORY QA/QC REPORT FOR ORGANICS

METHOD : EPA 8260 | Project No: 9636-0541 | REPORTING UNITS : µg/L-air

DATE PERFORMED: 2/1/97
BATCH #: 2-0201-1V

		DATE ANALYZED	2/2/97	2/2/97	RPD %
		LAB SAMPLE ID	1D018-40	1D018-41	
		CLIENT SAMPLE ID	GSV-51-20	GSV-51-20DI	
		DILUTION FACTOR	0.1	0.1	
COMPOUND		CRDL			
Benzene		1	ND	ND	0%
Bromodichloromethane		1	ND	ND	0%
Bromoform		1	ND	ND	0%
Bromomethane		1	ND	ND	0%
Carbon tetrachloride		1	ND	ND	0%
Chlorobenzene		1	ND	ND	0%
Chloroethane		1	ND	ND	0%
Chloroform		1	ND	ND	0%
Chloromethane		1	ND	ND	0%
Dibromochloromethane		1	ND	ND	0%
1,2-Dichlorobenzene		1	ND	ND	0%
1,3-Dichlorobenzene		1	ND	ND	0%
1,4-Dichlorobenzene		1	ND	ND	0%
Dichlorodifluoromethane (Freon 12)		1	ND	ND	0%
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	0%
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	0%
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	0%
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	0%
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	0%
1,2-Dichloropropane		1	ND	ND	0%
cis-1,3-Dichloropropene		1	ND	ND	0%
trans-1,3-Dichloropropene		1	ND	ND	0%
Ethyl benzene		1	ND	ND	0%
Methylene chloride (Dichloromethane)		1	ND	ND	0%
1,1,1,2-Tetrachloroethane		1	ND	ND	0%
1,1,2,2-Tetrachloroethane		1	ND	ND	0%
Tetrachloroethene (PCE)		1	0.51	0.64	22%
Toluene		1	0.70	0.72	2%
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	0%
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	0%
Trichloroethene (TCE)		1	ND	ND	0%
Trichlorofluoromethane (Freon 11)		1	ND	ND	0%
Trichlorotrifluoroethane (Freon 113)		1	4.5	4.9	9%
m,p-Xylenes		1	1.3	1.3	0%
o-Xylene		1	ND	ND	0%
Vinyl chloride (VC)		1	ND	ND	0%
SURROGATE	SPK conc	ACP %	%RC	%RC	
Dibromofluoromethane	50	75%-110%	102%	101%	
Toluene-d8	50	80%-115%	101%	101%	
4-Bromofluorobenzene	50	75%-125%	99%	100%	

Notes :
ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
Dilution Factor equal 1 for 5.0cc injection

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