American Environmental Network, Inc.

1Q 1997 Gas Analysis
UR-1 thru 5 2nd Sampling Event
Post SVE Pilot Test 3-20-97

AEN I.D. 703355

March 26, 1997

SPARTON
9621 COORS RD NW
ALBUQUERQUE, NM 87114

Project Name SVS-VRW-2ND
Project Number 32097

Attention: JOHN WAKEFIELD

On 3/20/97 American Environmental Network (NM), Inc. (ADHS License No. AZ0015), received a request to analyze **air** samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

If you have any questions or comments, please do not hesitate to contact us at (505)344-3777.

Kimberly D. McNeill
Project Manager

H. Mitchell Rubenstein, Ph. D.
General Manager

MR: mt

Enclosure

OGC-002062

2709-D Pan American Freeway, NE • Albuquerque, NM 87107 • (505) 344-3777 • Fax (602) 344-4413

American Environmental Network, Inc.

CLIENT	: SPARTON	AEN I.D.	: 703355
PROJECT #	: 32097	DATE RECEIVED	: 3/20/97
PROJECT NAME	: SVS-VRW-2ND	REPORT DATE	: 3/26/97

AEN ID. #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
01	VR-3	AIR	3/20/97
02	VR-5	AIR	3/20/97
03	VR-4	AIR	3/20/97
04	VR-2	AIR	3/20/97
05	VR-1	AIR	3/20/97

DGC-002063

American Environmental Network, Inc.

GAS CHROMOTOGRAPHY RESULTS

TEST : PURGEABLE HALOCARBONS / AROMATICS (EPA 8010/8020)
CLIENT : SPARTON AEN I.D.: 703355
PROJECT # : 32097
PROJECT NAME : SVS-VRW-2ND

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	VR-3	AIR	3/20/97	NA	3/20/97	20
02	VR-5	AIR	3/20/97	NA	3/21/97	50
03	VR-4	AIR	3/20/97	NA	3/20/97	50

PARAMETER	DET. LIMIT	UNITS	01	02	03
BENZENE	0.05	MG/M ^{3}	< 1.0	< 2.5	< 2.5
BROMODICHLORMETHANE	0.02	MG/M ^{3}	< 0.4	< 1.0	< 1.0
BROMOFORM	0.05	MG/M ^{3}	< 1.0	< 2.5	< 2.5
BROMOMETHANE	0.10	MG/M ^{3}	< 2.0	< 5.0	< 5.0
CARBON TETRACHLORIDE	0.02	MG/M ^{3}	< 0.4	< 1.0	< 1.0
CHLOROBENZENE	0.05	MG/M ^{3}	< 1.0	< 2.5	< 2.5
CHLOROETHANE	0.05	MG/M ^{3}	< 1.0	< 2.5	< 2.5
CHLOROFORM	0.05	MG/M ^{3}	< 1.0	< 2.5	< 2.5
CHLOROMETHANE	0.10	MG/M ^{3}	< 2.0	< 5.0	< 5.0
DIBROMOCHLOROMETHANE	0.02	MG/M ^{3}	< 0.4	< 1.0	< 1.0
1,2-DIBROMOETHANE (EDB)	0.02	MG/M ^{3}	< 0.4	< 1.0	< 1.0
1,2-DICHLOROBENZENE	0.05	MG/M ^{3}	< 1.0	< 2.5	< 2.5
1,3-DICHLOROBENZENE	0.05	MG/M ^{3}	< 1.0	< 2.5	< 2.5
1,4-DICHLOROBENZENE	0.05	MG/M ^{3}	< 1.0	< 2.5	< 2.5
1,1-DICHLOROETHANE	0.03	MG/M ^{3}	< 0.6	< 1.5	< 1.5
1,2-DICHLOROETHANE (EDC)	0.05	MG/M ^{3}	< 1.0	< 2.5	< 2.5
1,1-DICHLOROETHENE	0.02	**MG/M ^{3}**	**33 D(500)**	**29**	**41**
cis-1,2-DICHLOROETHENE	0.02	MG/M ^{3}	< 0.4	< 1.0	< 1.0
trans-1,2-DICHLOROETHENE	0.10	MG/M ^{3}	< 2.0	< 5.0	< 5.0
1,2-DICHLOROPROPANE	0.02	MG/M ^{3}	< 0.4	< 1.0	< 1.0
cis-1,3-DICHLOROPROPENE	0.05	MG/M ^{3}	< 1.0	< 2.5	< 2.5
trans-1,3-DICHLOROPROPENE	0.02	MG/M ^{3}	< 0.4	< 1.0	< 1.0
ETHYLBENZENE	0.05	MG/M ^{3}	< 1.0	< 2.5	< 2.5
METHYL-t-BUTYL ETHER	0.25	MG/M ^{3}	< 5.0	< 12.5	< 12.5
METHYLENE CHLORIDE	0.20	MG/M ^{3}	< 4.0	< 10.0	< 10.0
1,1,2,2-TETRACHLOROETHANE	0.05	MG/M ^{3}	< 1.0	< 2.5	< 2.5
TETRACHLOROETHENE	0.05	MG/M ^{3}	**14**	**2.3**	**12**
TOLUENE	0.05	MG/M ^{3}	< 1.0	< 2.5	< 2.5
1,1,1-TRICHLOROETHANE	0.10	**MG/M ^{3}**	**370 D(500)**	**170 E**	**310 D(2000)**
1,1,2-TRICHLOROETHANE	0.02	MG/M ^{3}	< 0.4	< 1.0	< 1.0
TRICHLOROETHENE	0.03	**MG/M ^{3}**	**840 D(500)**	**860 D(2000)**	**1200 D(2000)**
TRICHLOROFLUOROMETHANE	0.02	MG/M ^{3}	< 0.4	< 1.0	< 1.0
VINYL CHLORIDE	0.05	MG/M ^{3}	< 1.0	< 2.5	< 2.5
TOTAL XYLENES	0.05	MG/M ^{3}	< 1.0	< 2.5	< 2.5
TRICHLOROTRIFLUOROETHANE	0.20	MG/M ^{3}	< 4.0	< 10.0	< 10.0
SURROGATE:					
BROMOCHLOROMETHANE (%)			81	79	83
SURROGATE LIMITS	(73 - 117)				
TRIFLUOROTOLUENE (%)			97	105	95
SURROGATE LIMITS	(69 - 117)				

CHEMIST NOTES:
D(500) - DILUTED 500X, ANALYZED 3/21/97; D(2000) - DILUTED 2000X, ANALYZED 3/21/97
E - COMPOUND RESULT EXCEDED CALIBRATION IN INITIAL RUN. RESULT WAS CONFIRMED IN THE 2000X DILUTION, THOUGH THE RESULT WAS BELOW THE DETECTION LIMIT.

OGC-002064

American Environmental Network, Inc.

GAS CHROMOTOGRAPHY RESULTS

TEST : PURGEABLE HALOCARBONS / AROMATICS (EPA 8010/8020)
CLIENT : SPARTON AEN I.D.: 703355
PROJECT # : 32097
PROJECT NAME : SVS-VRW-2ND

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
04	VR-2	AIR	3/20/97	NA	3/20/97	100
05	VR-1	AIR	3/20/97	NA	3/21/97	500

PARAMETER	DET. LIMIT	UNITS	04	05
BENZENE	0.05	MG/M ^{3}	< 5.0	< 25
BROMODICHLORMETHANE	0.02	MG/M ^{3}	< 2.0	< 10
BROMOFORM	0.05	MG/M ^{3}	< 5.0	< 25
BROMOMETHANE	0.10	MG/M ^{3}	< 10	< 50
CARBON TETRACHLORIDE	0.02	MG/M ^{3}	< 2.0	< 10
CHLOROBENZENE	0.05	MG/M ^{3}	< 5.0	< 25
CHLOROETHANE	0.05	MG/M ^{3}	< 5.0	< 25
CHLOROFORM	0.05	MG/M ^{3}	< 5.0	< 25
CHLOROMETHANE	0.10	MG/M ^{3}	< 10	< 50
DIBROMOCHLOROMETHANE	0.02	MG/M ^{3}	< 2.0	< 10
1,2-DIBROMOETHANE (EDB)	0.02	MG/M ^{3}	< 2.0	< 10
1,2-DICHLOROBENZENE	0.05	MG/M ^{3}	< 5.0	< 25
1,3-DICHLOROBENZENE	0.05	MG/M ^{3}	< 5.0	< 25
1,4-DICHLOROBENZENE	0.05	MG/M ^{3}	< 5.0	< 25
1,1-DICHLOROETHANE	0.03	MG/M ^{3}	< 3.0	< 15
1,2-DICHLOROETHANE (EDC)	0.05	MG/M ^{3}	< 5.0	< 25
1,1-DICHLOROETHENE	0.02	**MG/M ^{3}**	**57**	**100**
cis-1,2-DICHLOROETHENE	0.02	MG/M ^{3}	< 2.0	< 10
trans-1,2-DICHLOROETHENE	0.10	MG/M ^{3}	< 10	< 50
1,2-DICHLOROPROPANE	0.02	MG/M ^{3}	< 2.0	< 10
cis-1,3-DICHLOROPROPENE	0.05	MG/M ^{3}	< 5.0	< 25
trans-1,3-DICHLOROPROPENE	0.02	MG/M ^{3}	< 2.0	< 10
ETHYLBENZENE	0.05	**MG/M ^{3}**	< 5.0	**300**
METHYL-t-BUTYL ETHER	0.25	MG/M ^{3}	< 25	< 125
METHYLENE CHLORIDE	0.20	MG/M ^{3}	< 20	< 100
1,1,2,2-TETRACHLOROETHANE	0.05	MG/M ^{3}	< 5.0	< 25
TETRACHLOROETHENE	0.05	**MG/M ^{3}**	**84**	**220**
TOLUENE	0.05	**MG/M ^{3}**	< 5.0	**6400 D(2000)**
1,1,1-TRICHLOROETHANE	0.10	**MG/M ^{3}**	**430 D(2000)**	**2600 D(2000)**
1,1,2-TRICHLOROETHANE	0.02	MG/M ^{3}	< 2.0	< 10
TRICHLOROETHENE	0.03	**MG/M ^{3}**	**1800 D(2000)**	**13000 D(2000)**
TRICHLOROFLUOROMETHANE	0.02	MG/M ^{3}	< 2.0	< 10
VINYL CHLORIDE	0.05	MG/M ^{3}	< 5.0	< 25
TOTAL XYLENES	0.05	**MG/M ^{3}**	< 5.0	**970**
TRICHLOROTRIFLUOROETHANE	0.20	MG/M ^{3}	< 4.0	< 10
SURROGATE:				
BROMOCHLOROMETHANE (%)			80	73
SURROGATE LIMITS	(73 - 117)			
TRIFLUOROTOLUENE (%)			102	105
SURROGATE LIMITS	(69 - 117)			

CHEMIST NOTES:
D(2000) - DILUTED 2000X, ANALYZED 3-21-97

OGC-002065

American Environmental Network, Inc.

GAS CHROMOTOGRAPHY RESULTS
REAGENT BLANK

TEST	: PURGEABLE HALOCARBONS / AROMATICS (EPA 8010/8020)		
BLANK I.D.	: 032097	AEN I.D.	: 703355
CLIENT	: SPARTON	DATE EXTRACTED	: NA
PROJECT #	: 32097	DATE ANALYZED	: 3/20/97
PROJECT NAME	: SVS-VRW-2ND	SAMPLE MATRIX	: AIR

PARAMETER	UNITS	
BENZENE	MG/M ^{3}	<0.05
BROMODICHLORMETHANE	MG/M ^{3}	<0.02
BROMOFORM	MG/M ^{3}	<0.05
BROMOMETHANE	MG/M ^{3}	<0.10
CARBON TETRACHLORIDE	MG/M ^{3}	<0.02
CHLOROBENZENE	MG/M ^{3}	<0.05
CHLOROETHANE	MG/M ^{3}	<0.05
CHLOROFORM	MG/M ^{3}	<0.05
CHLOROMETHANE	MG/M ^{3}	<0.10
DIBROMOCHLOROMETHANE	MG/M ^{3}	<0.02
1,2-DIBROMOETHANE (EDB)	MG/M ^{3}	<0.02
1,2-DICHLOROBENZENE	MG/M ^{3}	<0.05
1,3-DICHLOROBENZENE	MG/M ^{3}	<0.05
1,4-DICHLOROBENZENE	MG/M ^{3}	<0.05
1,1-DICHLOROETHANE	MG/M ^{3}	<0.03
1,2-DICHLOROETHANE (EDC)	MG/M ^{3}	<0.05
1,1-DICHLOROETHENE	MG/M ^{3}	<0.02
cis-1,2-DICHLOROETHENE	MG/M ^{3}	<0.02
trans-1,2-DICHLOROETHENE	MG/M ^{3}	<0.10
1,2-DICHLOROPROPANE	MG/M ^{3}	<0.02
cis-1,3-DICHLOROPROPENE	MG/M ^{3}	<0.02
trans-1,3-DICHLOROPROPENE	MG/M ^{3}	<0.02
ETHYLBENZENE	MG/M ^{3}	<0.05
METHYL -t-BUTYL ETHER	MG/M ^{3}	<0.25
METHYLENE CHLORIDE	MG/M ^{3}	<0.20
1,1,2,2-TETRACHLOROETHANE	MG/M ^{3}	<0.05
TETRACHLOROETHENE	MG/M ^{3}	<0.05
TOLUENE	MG/M ^{3}	<0.05
1,1,1-TRICHLOROETHANE	MG/M ^{3}	<0.10
1,1,2-TRICHLOROETHANE	MG/M ^{3}	<0.02
TRICHLOROETHENE	MG/M ^{3}	<0.03
TRICHLOROFLUOROMETHANE	MG/M ^{3}	<0.02
VINYL CHLORIDE	MG/M ^{3}	<0.05
TOTAL XYLENES	MG/M ^{3}	<0.05

SURROGATE:		
BROMOCHLOROMETHANE (%)		85
SURROGATE LIMITS	(73 - 117)	
TRIFLUOROTOLUENE (%)		103
SURROGATE LIMITS	(69 - 117)	

CHEMIST NOTES:
N/A

OGC-002066

American Environmental Network, Inc.

GAS CHROMOTOGRAPHY RESULTS
REAGENT BLANK

TEST	: PURGEABLE HALOCARBONS / AROMATICS (EPA 8010/8020)		
BLANK I.D.	: 032197	AEN I.D.	: 703355
CLIENT	: SPARTON	DATE EXTRACTED	: NA
PROJECT #	: 32097	DATE ANALYZED	: 3/21/97
PROJECT NAME	: SVS-VRW-2ND	SAMPLE MATRIX	: AIR

PARAMETER	UNITS	
BENZENE	MG/M ^{3}	<0.05
BROMODICHLORMETHANE	MG/M ^{3}	<0.02
BROMOFORM	MG/M ^{3}	<0.05
BROMOMETHANE	MG/M ^{3}	<0.10
CARBON TETRACHLORIDE	MG/M ^{3}	<0.02
CHLOROBENZENE	MG/M ^{3}	<0.05
CHLOROETHANE	MG/M ^{3}	<0.05
CHLOROFORM	MG/M ^{3}	<0.05
CHLOROMETHANE	MG/M ^{3}	<0.10
DIBROMOCHLOROMETHANE	MG/M ^{3}	<0.02
1,2-DIBROMOETHANE (EDB)	MG/M ^{3}	<0.02
1,2-DICHLOROBENZENE	MG/M ^{3}	<0.05
1,3-DICHLOROBENZENE	MG/M ^{3}	<0.05
1,4-DICHLOROBENZENE	MG/M ^{3}	<0.05
1,1-DICHLOROETHANE	MG/M ^{3}	<0.03
1,2-DICHLOROETHANE (EDC)	MG/M ^{3}	<0.05
1,1-DICHLOROETHENE	MG/M ^{3}	<0.02
cis-1,2-DICHLOROETHENE	MG/M ^{3}	<0.02
trans-1,2-DICHLOROETHENE	MG/M ^{3}	<0.10
1,2-DICHLOROPROPANE	MG/M ^{3}	<0.02
cis-1,3-DICHLOROPROPENE	MG/M ^{3}	<0.02
trans-1,3-DICHLOROPROPENE	MG/M ^{3}	<0.02
ETHYLBENZENE	MG/M ^{3}	<0.05
METHYL -t-BUTYL ETHER	MG/M ^{3}	<0.25
METHYLENE CHLORIDE	MG/M ^{3}	<0.20
1,1,2,2-TETRACHLOROETHANE	MG/M ^{3}	<0.05
TETRACHLOROETHENE	MG/M ^{3}	<0.05
TOLUENE	MG/M ^{3}	<0.05
1,1,1-TRICHLOROETHANE	MG/M ^{3}	<0.10
1,1,2-TRICHLOROETHANE	MG/M ^{3}	<0.02
TRICHLOROETHENE	MG/M ^{3}	<0.03
TRICHLOROFLUOROMETHANE	MG/M ^{3}	<0.02
VINYL CHLORIDE	MG/M ^{3}	<0.05
TOTAL XYLENES	MG/M ^{3}	<0.05

SURROGATE:		
BROMOCHLOROMETHANE (%)		81
SURROGATE LIMITS	(73 - 117)	
TRIFLUOROTOLUENE (%)		108
SURROGATE LIMITS	(69 - 117)	

CHEMIST NOTES:
N/A

OGC-002067

American Environmental Network, Inc.

GAS CHROMOTOGRAPHY RESULTS
REAGENT BLANK

TEST	: PURGEABLE HALOCARBONS / AROMATICS (EPA 8010/8020)		
BLANK I.D.	: 032497	AEN I.D.	: 703355
CLIENT	: SPARTON	DATE EXTRACTED	: NA
PROJECT #	: 32097	DATE ANALYZED	: 3/24/97
PROJECT NAME	: SVS-VRW-2ND	SAMPLE MATRIX	: AIR

PARAMETER	UNITS	
BENZENE	MG/M ^{3}	<0.05
BROMODICHLORMETHANE	MG/M ^{3}	<0.02
BROMOFORM	MG/M ^{3}	<0.05
BROMOMETHANE	MG/M ^{3}	<0.10
CARBON TETRACHLORIDE	MG/M ^{3}	<0.02
CHLOROBENZENE	MG/M ^{3}	<0.05
CHLOROETHANE	MG/M ^{3}	<0.05
CHLOROFORM	MG/M ^{3}	<0.05
CHLOROMETHANE	MG/M ^{3}	<0.10
DIBROMOCHLOROMETHANE	MG/M ^{3}	<0.02
1,2-DIBROMOETHANE (EDB)	MG/M ^{3}	<0.02
1,2-DICHLOROBENZENE	MG/M ^{3}	<0.05
1,3-DICHLOROBENZENE	MG/M ^{3}	<0.05
1,4-DICHLOROBENZENE	MG/M ^{3}	<0.05
1,1-DICHLOROETHANE	MG/M ^{3}	<0.03
1,2-DICHLOROETHANE (EDC)	MG/M ^{3}	<0.05
1,1-DICHLOROETHENE	MG/M ^{3}	<0.02
cis-1,2-DICHLOROETHENE	MG/M ^{3}	<0.02
trans-1,2-DICHLOROETHENE	MG/M ^{3}	<0.10
1,2-DICHLOROPROPANE	MG/M ^{3}	<0.02
cis-1,3-DICHLOROPROPENE	MG/M ^{3}	<0.02
trans-1,3-DICHLOROPROPENE	MG/M ^{3}	<0.02
ETHYLBENZENE	MG/M ^{3}	<0.05
METHYL -t-BUTYL ETHER	MG/M ^{3}	<0.25
METHYLENE CHLORIDE	MG/M ^{3}	<0.20
1,1,2,2-TETRACHLOROETHANE	MG/M ^{3}	<0.05
TETRACHLOROETHENE	MG/M ^{3}	<0.05
TOLUENE	MG/M ^{3}	<0.05
1,1,1-TRICHLOROETHANE	MG/M ^{3}	<0.10
1,1,2-TRICHLOROETHANE	MG/M ^{3}	<0.02
TRICHLOROETHENE	MG/M ^{3}	<0.03
TRICHLOROFLUOROMETHANE	MG/M ^{3}	<0.02
VINYL CHLORIDE	MG/M ^{3}	<0.05
TOTAL XYLENES	MG/M ^{3}	<0.05

SURROGATE:		
BROMOCHLOROMETHANE (%)		88
SURROGATE LIMITS	(73 - 117)	
TRIFLUOROTOLUENE (%)		106
SURROGATE LIMITS	(69 - 117)	

CHEMIST NOTES:
N/A

OGC-002068

American Environmental Network, Inc.

GAS CHROMOTOGRAPHY QUALITY CONTROL
MSMSD

TEST	: PURGEABLE HALOCARBONS / AROMATICS (EPA 8010/8020)			
MSMSD #	: 032497	AEN I.D.	:	703355
CLIENT	: SPARTON	DATE EXRACTED	:	NA
PROJECT #	: 32097	DATE ANALYZED	:	3/24/97
PROJECT NAME	: SVS-VRW-2ND	SAMPLE MATRIX	:	AIR
		UNITS	:	MG/M ^{3}

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
BENZENE	<0.05	1.00	1.10	110	1.01	101	9	(82 -128)	20
TOLUENE	<0.05	1.00	1.08	108	1.05	105	3	(87 -128)	20
1,1-DICHLOROETHENE	<0.02	1.00	0.75	75	0.81	81	8	(44 - 99)	20
TRICHLOROETHENE	<0.03	1.00	1.18	118	1.15	115	3	(89 - 127)	20
CHLOROBENZENE	<0.05	1.00	1.18	118	1.16	116	2	(87 - 124)	20

CHEMIST NOTES:
N/A

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

OGC-002069

American Environmental Network, Inc.

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8260 EXTENDED		
CLIENT	: SPARTON	AEN I.D. :	703355
PROJECT #	: 32097	DATE RECEIVED :	3/20/97
PROJECT NAME	: SVS-VRW-2ND		

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
703355-01	VR-3	AIR	3/20/97	N/A	03/21/97	100

PARAMETER	DET. LIMIT		UNITS
Dichlorodifluoromethane	0.5	< 50	MG/M ^{3}
Chloromethane	0.5	< 50	MG/M ^{3}
Vinyl Chloride	0.5	< 50	MG/M ^{3}
Bromomethane	0.5	< 50	MG/M ^{3}
Chloroethane	0.5	< 50	MG/M ^{3}
Trichlorofluoromethane	0.5	< 50	MG/M ^{3}
Acetone	5.0	< 500	MG/M ^{3}
Acrolein	2.5	< 250	MG/M ^{3}
1,1-Dichloroethene	0.5	**72**	**MG/M ^{3}**
Iodomethane	0.5	< 50	MG/M ^{3}
Methylene Chloride	0.5	< 50	MG/M ^{3}
Acrylonitrile	2.5	< 250	MG/M ^{3}
cis-1,2-Dichloroethene	0.5	< 50	MG/M ^{3}
Methyl-t-butyl Ether	0.5	< 50	MG/M ^{3}
1,1,2,1,2,2-Trichlorotrifluoroethane	0.5	< 50	MG/M ^{3}
1,1-Dichloroethane	0.5	< 50	MG/M ^{3}
trans-1,2-Dichloroethene	0.5	< 50	MG/M ^{3}
2-Butanone	5.0	< 500	MG/M ^{3}
Carbon Disulfide	0.5	< 50	MG/M ^{3}
Bromochloromethane	0.5	< 50	MG/M ^{3}
Chloroform	0.5	< 50	MG/M ^{3}
2,2-Dichloropropane	0.5	< 50	MG/M ^{3}
1,2-Dichloroethane	0.5	< 50	MG/M ^{3}
Vinyl Acetate	0.5	< 50	MG/M ^{3}
1,1,1-Trichloroethane	0.5	**480**	**MG/M ^{3}**
1,1-Dichloropropene	0.5	< 50	MG/M ^{3}
Carbon Tetrachloride	0.5	< 50	MG/M ^{3}
Benzene	0.5	< 50	MG/M ^{3}
1,2-Dichloropropane	0.5	< 50	MG/M ^{3}
Trichloroethene	0.5	**1100**	**MG/M ^{3}**
Bromodichloromethane	0.5	< 50	MG/M ^{3}
2-Chloroethyl Vinyl Ether	5.0	< 500	MG/M ^{3}
cis-1,3-Dichloropropene	0.5	< 50	MG/M ^{3}
trans-1,3-Dichloropropene	0.5	< 50	MG/M ^{3}
1,1,2-Trichloroethane	0.5	< 50	MG/M ^{3}
1,3-Dichloropropane	0.5	< 50	MG/M ^{3}
Dibromomethane	0.5	< 50	MG/M ^{3}
Toluene	0.5	< 50	MG/M ^{3}
1,2-Dibromoethane	0.5	< 50	MG/M ^{3}
4-Methyl-2-Pentanone	5.0	< 500	MG/M ^{3}
2-Hexanone	5.0	< 500	MG/M ^{3}
Dibromochloromethane	0.5	< 50	MG/M ^{3}
Tetrachloroethene	0.5	< 50	MG/M ^{3}
Chlorobenzene	0.5	< 50	MG/M ^{3}
Ethylbenzene	0.5	< 50	MG/M ^{3}
1,1,1,2-Tetrachloroethane	0.5	< 50	MG/M ^{3}

American Environmental Network, Inc.

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8260 EXTENDED		
CLIENT	: SPARTON	AEN I.D. :	703355
PROJECT #	: 32097	DATE RECEIVED :	3/20/97
PROJECT NAME	: SVS-VRW-2ND		

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
703355-01	VR-3	AIR	3/20/97	N/A	03/21/97	100

PARAMETER	DET. LIMIT		UNITS
o-Xylene	0.5	< 50	MG/M ^{3}
m&p Xylenes	0.5	< 50	MG/M ^{3}
Styrene	0.5	< 50	MG/M ^{3}
Bromoform	0.5	< 50	MG/M ^{3}
1,1,2,2-Tetrachloroethane	0.5	< 50	MG/M ^{3}
1,2,3-Trichloropropane	0.5	< 50	MG/M ^{3}
Isopropyl Benzene	0.5	< 50	MG/M ^{3}
Bromobenzene	0.5	< 50	MG/M ^{3}
trans-1,4-Dichloro-2-Butene	0.5	< 50	MG/M ^{3}
n-Propylbenzene	0.5	< 50	MG/M ^{3}
2-Chlorotoluene	0.5	< 50	MG/M ^{3}
4-Chlorotoluene	0.5	< 50	MG/M ^{3}
1,3,5-Trimethylbenzene	0.5	< 50	MG/M ^{3}
tert-Butylbenzene	0.5	< 50	MG/M ^{3}
1,2,4-Trimethylbenzene	0.5	< 50	MG/M ^{3}
sec-Butylbenzene	0.5	< 50	MG/M ^{3}
1,3-Dichlorobenzene	0.5	< 50	MG/M ^{3}
1,4-Dichlorobenzene	0.5	< 50	MG/M ^{3}
p-Isopropyltoluene	0.5	< 50	MG/M ^{3}
1,2-Dichlorobenzene	0.5	< 50	MG/M ^{3}
n-Butylbenzene	0.5	< 50	MG/M ^{3}
1,2-Dibromomo-3-chloropropane	0.5	< 50	MG/M ^{3}
1,2,4-Trichlorobenzene	0.5	< 50	MG/M ^{3}
Napthalene	0.5	< 50	MG/M ^{3}
Hexachlorobutadiene	0.5	< 50	MG/M ^{3}
1,2,3-Trichlorobenzene	0.5	< 50	MG/M ^{3}

SURROGATE % RECOVERY	
1,2-Dichloroethane-d4	110 (80 - 120)
Toluene-d8	101 (81 - 117)
Bromofluorobenzene	107 (74 - 121)

American Environmental Network, Inc.

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8260 EXTENDED		
CLIENT	: SPARTON	AEN I.D. :	703355
PROJECT #	: 32097	DATE RECEIVED :	3/20/97
PROJECT NAME	: SVS-VRW-2ND		

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
703355-02	VR-5	AIR	3/20/97	N/A	03/21/97	500

PARAMETER	DET. LIMIT		UNITS
Dichlorodifluoromethane	0.5	< 250	MG/M ^{3}
Chloromethane	0.5	< 250	MG/M ^{3}
Vinyl Chloride	0.5	< 250	MG/M ^{3}
Bromomethane	0.5	< 250	MG/M ^{3}
Chloroethane	0.5	< 250	MG/M ^{3}
Trichlorofluoromethane	0.5	< 250	MG/M ^{3}
Acetone	5.0	< 2500	MG/M ^{3}
Acrolein	2.5	< 1300	MG/M ^{3}
1,1-Dichloroethene	0.5	< 250	MG/M ^{3}
Iodomethane	0.5	< 250	MG/M ^{3}
Methylene Chloride	0.5	< 250	MG/M ^{3}
Acrylonitrile	2.5	< 1300	MG/M ^{3}
cis-1,2-Dichloroethene	0.5	< 250	MG/M ^{3}
Methyl-t-butyl Ether	0.5	< 250	MG/M ^{3}
1,1,2,1,2,2-Trichlorotrifluoroethane	0.5	< 250	MG/M ^{3}
1,1-Dichloroethane	0.5	< 250	MG/M ^{3}
trans-1,2-Dichloroethene	0.5	< 250	MG/M ^{3}
2-Butanone	5.0	< 2500	MG/M ^{3}
Carbon Disulfide	0.5	< 250	MG/M ^{3}
Bromochloromethane	0.5	< 250	MG/M ^{3}
Chloroform	0.5	< 250	MG/M ^{3}
2,2-Dichloropropane	0.5	< 250	MG/M ^{3}
1,2-Dichloroethane	0.5	< 250	MG/M ^{3}
Vinyl Acetate	0.5	< 250	MG/M ^{3}
1,1,1-Trichloroethane	0.5	**400**	**MG/M ^{3}**
1,1-Dichloropropene	0.5	< 250	MG/M ^{3}
Carbon Tetrachloride	0.5	< 250	MG/M ^{3}
Benzene	0.5	< 250	MG/M ^{3}
1,2-Dichloropropane	0.5	< 250	MG/M ^{3}
Trichloroethene	0.5	**930**	**MG/M ^{3}**
Bromodichloromethane	0.5	< 250	MG/M ^{3}
2-Chloroethyl Vinyl Ether	5.0	< 2500	MG/M ^{3}
cis-1,3-Dichloropropene	0.5	< 250	MG/M ^{3}
trans-1,3-Dichloropropene	0.5	< 250	MG/M ^{3}
1,1,2-Trichloroethane	0.5	< 250	MG/M ^{3}
1,3-Dichloropropane	0.5	< 250	MG/M ^{3}
Dibromomethane	0.5	< 250	MG/M ^{3}
Toluene	0.5	< 250	MG/M ^{3}
1,2-Dibromoethane	0.5	< 250	MG/M ^{3}
4-Methyl-2-Pentanone	5.0	< 2500	MG/M ^{3}
2-Hexanone	5.0	< 2500	MG/M ^{3}
Dibromochloromethane	0.5	< 250	MG/M ^{3}
Tetrachloroethene	0.5	< 250	MG/M ^{3}
Chlorobenzene	0.5	< 250	MG/M ^{3}
Ethylbenzene	0.5	< 250	MG/M ^{3}
1,1,1,2-Tetrachloroethane	0.5	< 250	MG/M ^{3}

American Environmental Network, Inc.

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8260 EXTENDED		
CLIENT	: SPARTON	AEN I.D. :	703355
PROJECT #	: 32097	DATE RECEIVED :	3/20/97
PROJECT NAME	: SVS-VRW-2ND		

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
703355-02	VR-5	AIR	3/20/97	N/A	03/21/97	500

PARAMETER	DET. LIMIT		UNITS
o-Xylene	0.5	< 250	MG/M ^{3}
m&p Xylenes	0.5	< 250	MG/M ^{3}
Styrene	0.5	< 250	MG/M ^{3}
Bromoform	0.5	< 250	MG/M ^{3}
1,1,2,2-Tetrachloroethane	0.5	< 250	MG/M ^{3}
1,2,3-Trichloropropane	0.5	< 250	MG/M ^{3}
Isopropyl Benzene	0.5	< 250	MG/M ^{3}
Bromobenzene	0.5	< 250	MG/M ^{3}
trans-1,4-Dichloro-2-Butene	0.5	< 250	MG/M ^{3}
n-Propylbenzene	0.5	< 250	MG/M ^{3}
2-Chlorotoluene	0.5	< 250	MG/M ^{3}
4-Chlorotoluene	0.5	< 250	MG/M ^{3}
1,3,5-Trimethylbenzene	0.5	< 250	MG/M ^{3}
tert-Butylbenzene	0.5	< 250	MG/M ^{3}
1,2,4-Trimethylbenzene	0.5	< 250	MG/M ^{3}
sec-Butylbenzene	0.5	< 250	MG/M ^{3}
1,3-Dichlorobenzene	0.5	< 250	MG/M ^{3}
1,4-Dichlorobenzene	0.5	< 250	MG/M ^{3}
p-Isopropyltoluene	0.5	< 250	MG/M ^{3}
1,2-Dichlorobenzene	0.5	< 250	MG/M ^{3}
n-Butylbenzene	0.5	< 250	MG/M ^{3}
1,2-Dibromomo-3-chloropropane	0.5	< 250	MG/M ^{3}
1,2,4-Trichlorobenzene	0.5	< 250	MG/M ^{3}
Napthalene	0.5	< 250	MG/M ^{3}
Hexachlorobutadiene	0.5	< 250	MG/M ^{3}
1,2,3-Trichlorobenzene	0.5	< 250	MG/M ^{3}

SURROGATE % RECOVERY		
1,2-Dichloroethane-d4	108	(80 - 120)
Toluene-d8	104	(81 - 117)
Bromofluorobenzene	109	(74 - 121)

American Environmental Network, Inc.

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8260 EXTENDED		
CLIENT	: SPARTON	AEN I.D. :	703355
PROJECT #	: 32097	DATE RECEIVED :	3/20/97
PROJECT NAME	: SVS-VRW-2ND		

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
703355-03	VR-4	AIR	3/20/97	N/A	03/21/97	500

PARAMETER	DET. LIMIT		UNITS
Dichlorodifluoromethane	0.5	< 250	MG/M ^{3}
Chloromethane	0.5	< 250	MG/M ^{3}
Vinyl Chloride	0.5	< 250	MG/M ^{3}
Bromomethane	0.5	< 250	MG/M ^{3}
Chloroethane	0.5	< 250	MG/M ^{3}
Trichlorofluoromethane	0.5	< 250	MG/M ^{3}
Acetone	5.0	< 2500	MG/M ^{3}
Acrolein	2.5	< 1300	MG/M ^{3}
1,1-Dichloroethene	0.5	< 250	MG/M ^{3}
Iodomethane	0.5	< 250	MG/M ^{3}
Methylene Chloride	0.5	< 250	MG/M ^{3}
Acrylonitrile	2.5	< 1300	MG/M ^{3}
cis-1,2-Dichloroethene	0.5	< 250	MG/M ^{3}
Methyl-t-butyl Ether	0.5	< 250	MG/M ^{3}
1,1,2,1,2,2-Trichlorotrifluoroethane	0.5	< 250	MG/M ^{3}
1,1-Dichloroethane	0.5	< 250	MG/M ^{3}
trans-1,2-Dichloroethene	0.5	< 250	MG/M ^{3}
2-Butanone	5.0	< 2500	MG/M ^{3}
Carbon Disulfide	0.5	< 250	MG/M ^{3}
Bromochloromethane	0.5	< 250	MG/M ^{3}
Chloroform	0.5	< 250	MG/M ^{3}
2,2-Dichloropropane	0.5	< 250	MG/M ^{3}
1,2-Dichloroethane	0.5	< 250	MG/M ^{3}
Vinyl Acetate	0.5	< 250	MG/M ^{3}
1,1,1-Trichloroethane	0.5	**460**	**MG/M ^{3}**
1,1-Dichloropropene	0.5	< 250	MG/M ^{3}
Carbon Tetrachloride	0.5	< 250	MG/M ^{3}
Benzene	0.5	< 250	MG/M ^{3}
1,2-Dichloropropane	0.5	< 250	MG/M ^{3}
Trichloroethene	0.5	**1200**	**MG/M ^{3}**
Bromodichloromethane	0.5	< 250	MG/M ^{3}
2-Chloroethyl Vinyl Ether	5.0	< 2500	MG/M ^{3}
cis-1,3-Dichloropropene	0.5	< 250	MG/M ^{3}
trans-1,3-Dichloropropene	0.5	< 250	MG/M ^{3}
1,1,2-Trichloroethane	0.5	< 250	MG/M ^{3}
1,3-Dichloropropane	0.5	< 250	MG/M ^{3}
Dibromomethane	0.5	< 250	MG/M ^{3}
Toluene	0.5	< 250	MG/M ^{3}
1,2-Dibromoethane	0.5	< 250	MG/M ^{3}
4-Methyl-2-Pentanone	5.0	< 2500	MG/M ^{3}
2-Hexanone	5.0	< 2500	MG/M ^{3}
Dibromochloromethane	0.5	< 250	MG/M ^{3}
Tetrachloroethene	0.5	< 250	MG/M ^{3}
Chlorobenzene	0.5	< 250	MG/M ^{3}
Ethylbenzene	0.5	< 250	MG/M ^{3}
1,1,1,2-Tetrachloroethane	0.5	< 250	MG/M ^{3}

American Environmental Network, Inc.

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8260 EXTENDED		
CLIENT	: SPARTON	AEN I.D. :	703355
PROJECT #	: 32097	DATE RECEIVED :	3/20/97
PROJECT NAME	: SVS-VRW-2ND		

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
703355-03	VR-4	AIR	3/20/97	N/A	03/21/97	500

PARAMETER	DET. LIMIT		UNITS
o-Xylene	0.5	< 250	MG/M ^{3}
m&p Xylenes	0.5	< 250	MG/M ^{3}
Styrene	0.5	< 250	MG/M ^{3}
Bromoform	0.5	< 250	MG/M ^{3}
1,1,2,2-Tetrachloroethane	0.5	< 250	MG/M ^{3}
1,2,3-Trichloropropane	0.5	< 250	MG/M ^{3}
Isopropyl Benzene	0.5	< 250	MG/M ^{3}
Bromobenzene	0.5	< 250	MG/M ^{3}
trans-1,4-Dichloro-2-Butene	0.5	< 250	MG/M ^{3}
n-Propylbenzene	0.5	< 250	MG/M ^{3}
2-Chlorotoluene	0.5	< 250	MG/M ^{3}
4-Chlorotoluene	0.5	< 250	MG/M ^{3}
1,3,5-Trimethylbenzene	0.5	< 250	MG/M ^{3}
tert-Butylbenzene	0.5	< 250	MG/M ^{3}
1,2,4-Trimethylbenzene	0.5	< 250	MG/M ^{3}
sec-Butylbenzene	0.5	< 250	MG/M ^{3}
1,3-Dichlorobenzene	0.5	< 250	MG/M ^{3}
1,4-Dichlorobenzene	0.5	< 250	MG/M ^{3}
p-Isopropyltoluene	0.5	< 250	MG/M ^{3}
1,2-Dichlorobenzene	0.5	< 250	MG/M ^{3}
n-Butylbenzene	0.5	< 250	MG/M ^{3}
1,2-Dibromomo-3-chloropropane	0.5	< 250	MG/M ^{3}
1,2,4-Trichlorobenzene	0.5	< 250	MG/M ^{3}
Napthalene	0.5	< 250	MG/M ^{3}
Hexachlorobutadiene	0.5	< 250	MG/M ^{3}
1,2,3-Trichlorobenzene	0.5	< 250	MG/M ^{3}

SURROGATE % RECOVERY	
1,2-Dichloroethane-d4	110
	(80 - 120)
Toluene-d8	101
	(81 - 117)
Bromofluorobenzene	106
	(74 - 121)

American Environmental Network, Inc.

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8260 EXTENDED		
CLIENT	: SPARTON	AEN I.D. :	703355
PROJECT #	: 32097	DATE RECEIVED :	3/20/97
PROJECT NAME	: SVS-VRW-2ND		

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
703355-04	VR-2	AIR	3/20/97	N/A	03/21/97	500

PARAMETER	DET. LIMIT		UNITS
Dichlorodifluoromethane	0.5	< 250	MG/M ^{3}
Chloromethane	0.5	< 250	MG/M ^{3}
Vinyl Chloride	0.5	< 250	MG/M ^{3}
Bromomethane	0.5	< 250	MG/M ^{3}
Chloroethane	0.5	< 250	MG/M ^{3}
Trichlorofluoromethane	0.5	< 250	MG/M ^{3}
Acetone	5.0	< 2500	MG/M ^{3}
Acrolein	2.5	< 1300	MG/M ^{3}
1,1-Dichloroethene	0.5	< 250	MG/M ^{3}
Iodomethane	0.5	< 250	MG/M ^{3}
Methylene Chloride	0.5	< 250	MG/M ^{3}
Acrylonitrile	2.5	< 1300	MG/M ^{3}
cis-1,2-Dichloroethene	0.5	< 250	MG/M ^{3}
Methyl-t-butyl Ether	0.5	< 250	MG/M ^{3}
1,1,2,1,2,2-Trichlorotrifluoroethane	0.5	< 250	MG/M ^{3}
1,1-Dichloroethane	0.5	< 250	MG/M ^{3}
trans-1,2-Dichloroethene	0.5	< 250	MG/M ^{3}
2-Butanone	5.0	< 2500	MG/M ^{3}
Carbon Disulfide	0.5	< 250	MG/M ^{3}
Bromochloromethane	0.5	< 250	MG/M ^{3}
Chloroform	0.5	< 250	MG/M ^{3}
2,2-Dichloropropane	0.5	< 250	MG/M ^{3}
1,2-Dichloroethane	0.5	< 250	MG/M ^{3}
Vinyl Acetate	0.5	< 250	MG/M ^{3}
1,1,1-Trichloroethane	0.5	**1100**	**MG/M ^{3}**
1,1-Dichloropropene	0.5	< 250	MG/M ^{3}
Carbon Tetrachloride	0.5	< 250	MG/M ^{3}
Benzene	0.5	< 250	MG/M ^{3}
1,2-Dichloropropane	0.5	< 250	MG/M ^{3}
Trichloroethene	0.5	**3300**	**MG/M ^{3}**
Bromodichloromethane	0.5	< 250	MG/M ^{3}
2-Chloroethyl Vinyl Ether	5.0	< 2500	MG/M ^{3}
cis-1,3-Dichloropropene	0.5	< 250	MG/M ^{3}
trans-1,3-Dichloropropene	0.5	< 250	MG/M ^{3}
1,1,2-Trichloroethane	0.5	< 250	MG/M ^{3}
1,3-Dichloropropane	0.5	< 250	MG/M ^{3}
Dibromomethane	0.5	< 250	MG/M ^{3}
Toluene	0.5	< 250	MG/M ^{3}
1,2-Dibromoethane	0.5	< 250	MG/M ^{3}
4-Methyl-2-Pentanone	5.0	< 2500	MG/M ^{3}
2-Hexanone	5.0	< 2500	MG/M ^{3}
Dibromochloromethane	0.5	< 250	MG/M ^{3}
Tetrachloroethene	0.5	< 250	MG/M ^{3}
Chlorobenzene	0.5	< 250	MG/M ^{3}
Ethylbenzene	0.5	< 250	MG/M ^{3}
1,1,1,2-Tetrachloroethane	0.5	< 250	MG/M ^{3}

American Environmental Network, Inc.

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8260 EXTENDED		
CLIENT	: SPARTON	AEN I.D. :	703355
PROJECT #	: 32097	DATE RECEIVED :	3/20/97
PROJECT NAME	: SVS-VRW-2ND		

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
703355-04	VR-2	AIR	3/20/97	N/A	03/21/97	500

PARAMETER	DET. LIMIT		UNITS
o-Xylene	0.5	< 250	MG/M ^{3}
m&p Xylenes	0.5	< 250	MG/M ^{3}
Styrene	0.5	< 250	MG/M ^{3}
Bromoform	0.5	< 250	MG/M ^{3}
1,1,2,2-Tetrachloroethane	0.5	< 250	MG/M ^{3}
1,2,3-Trichloropropane	0.5	< 250	MG/M ^{3}
Isopropyl Benzene	0.5	< 250	MG/M ^{3}
Bromobenzene	0.5	< 250	MG/M ^{3}
trans-1,4-Dichloro-2-Butene	0.5	< 250	MG/M ^{3}
n-Propylbenzene	0.5	< 250	MG/M ^{3}
2-Chlorotoluene	0.5	< 250	MG/M ^{3}
4-Chlorotoluene	0.5	< 250	MG/M ^{3}
1,3,5-Trimethylbenzene	0.5	< 250	MG/M ^{3}
tert-Butylbenzene	0.5	< 250	MG/M ^{3}
1,2,4-Trimethylbenzene	0.5	< 250	MG/M ^{3}
sec-Butylbenzene	0.5	< 250	MG/M ^{3}
1,3-Dichlorobenzene	0.5	< 250	MG/M ^{3}
1,4-Dichlorobenzene	0.5	< 250	MG/M ^{3}
p-Isopropyltoluene	0.5	< 250	MG/M ^{3}
1,2-Dichlorobenzene	0.5	< 250	MG/M ^{3}
n-Butylbenzene	0.5	< 250	MG/M ^{3}
1,2-Dibromomo-3-chloropropane	0.5	< 250	MG/M ^{3}
1,2,4-Trichlorobenzene	0.5	< 250	MG/M ^{3}
Napthalene	0.5	< 250	MG/M ^{3}
Hexachlorobutadiene	0.5	< 250	MG/M ^{3}
1,2,3-Trichlorobenzene	0.5	< 250	MG/M ^{3}

SURROGATE % RECOVERY	
1,2-Dichloroethane-d4	113 (80 - 120)
Toluene-d8	101 (81 - 117)
Bromofluorobenzene	106 (74 - 121)

American Environmental Network, Inc.

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8260 EXTENDED		
CLIENT	: SPARTON	AEN I.D. :	703355
PROJECT #	: 32097	DATE RECEIVED :	3/20/97
PROJECT NAME	: SVS-VRW-2ND		

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
703355-05	VR-1	AIR	3/20/97	N/A	03/21/97	1000

PARAMETER	DET. LIMIT		UNITS
Dichlorodifluoromethane	0.5	< 500	MG/M ^{3}
Chloromethane	0.5	< 500	MG/M ^{3}
Vinyl Chloride	0.5	< 500	MG/M ^{3}
Bromomethane	0.5	< 500	MG/M ^{3}
Chloroethane	0.5	< 500	MG/M ^{3}
Trichlorofluoromethane	0.5	< 500	MG/M ^{3}
Acetone	5.0	**12000**	**MG/M ^{3}**
Acrolein	2.5	< 2500	MG/M ^{3}
1,1-Dichloroethene	0.5	< 500	MG/M ^{3}
Iodomethane	0.5	< 500	MG/M ^{3}
Methylene Chloride	0.5	< 500	MG/M ^{3}
Acrylonitrile	2.5	< 2500	MG/M ^{3}
cis-1,2-Dichloroethene	0.5	< 500	MG/M ^{3}
Methyl-t-butyl Ether	0.5	< 500	MG/M ^{3}
1,1,2,1,2,2-Trichlorotrifluoroethane	0.5	< 500	MG/M ^{3}
1,1-Dichloroethane	0.5	< 500	MG/M ^{3}
trans-1,2-Dichloroethene	0.5	< 500	MG/M ^{3}
2-Butanone	5.0	< 5000	MG/M ^{3}
Carbon Disulfide	0.5	< 500	MG/M ^{3}
Bromochloromethane	0.5	< 500	MG/M ^{3}
Chloroform	0.5	< 500	MG/M ^{3}
2,2-Dichloropropane	0.5	< 500	MG/M ^{3}
1,2-Dichloroethane	0.5	< 500	MG/M ^{3}
Vinyl Acetate	0.5	< 500	MG/M ^{3}
1,1,1-Trichloroethane	0.5	**3900**	**MG/M ^{3}**
1,1-Dichloropropene	0.5	< 500	MG/M ^{3}
Carbon Tetrachloride	0.5	< 500	MG/M ^{3}
Benzene	0.5	< 500	MG/M ^{3}
1,2-Dichloropropane	0.5	< 500	MG/M ^{3}
Trichloroethene	0.5	**19000**	**MG/M ^{3}**
Bromodichloromethane	0.5	< 500	MG/M ^{3}
2-Chloroethyl Vinyl Ether	5.0	< 5000	MG/M ^{3}
cis-1,3-Dichloropropene	0.5	< 500	MG/M ^{3}
trans-1,3-Dichloropropene	0.5	< 500	MG/M ^{3}
1,1,2-Trichloroethane	0.5	< 500	MG/M ^{3}
1,3-Dichloropropane	0.5	< 500	MG/M ^{3}
Dibromomethane	0.5	< 500	MG/M ^{3}
Toluene	0.5	**6700**	**MG/M ^{3}**
1,2-Dibromoethane	0.5	< 500	MG/M ^{3}
4-Methyl-2-Pentanone	5.0	< 5000	MG/M ^{3}
2-Hexanone	5.0	< 5000	MG/M ^{3}
Dibromochloromethane	0.5	< 500	MG/M ^{3}
Tetrachloroethene	0.5	< 500	MG/M ^{3}
Chlorobenzene	0.5	< 500	MG/M ^{3}
Ethylbenzene	0.5	< 500	MG/M ^{3}
1,1,1,2-Tetrachloroethane	0.5	< 500	MG/M ^{3}

American Environmental Network, Inc.

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8260 EXTENDED		
CLIENT	: SPARTON	AEN I.D. :	703355
PROJECT #	: 32097	DATE RECEIVED :	3/20/97
PROJECT NAME	: SVS-VRW-2ND		

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
703355-05	VR-1	AIR	3/20/97	N/A	03/21/97	1000

PARAMETER	DET. LIMIT		UNITS
o-Xylene	0.5	< 500	MG/M ^{3}
m&p Xylenes	0.5	**650**	**MG/M ^{3}**
Styrene	0.5	< 500	MG/M ^{3}
Bromoform	0.5	< 500	MG/M ^{3}
1,1,2,2-Tetrachloroethane	0.5	< 500	MG/M ^{3}
1,2,3-Trichloropropane	0.5	< 500	MG/M ^{3}
Isopropyl Benzene	0.5	< 500	MG/M ^{3}
Bromobenzene	0.5	< 500	MG/M ^{3}
trans-1,4-Dichloro-2-Butene	0.5	< 500	MG/M ^{3}
n-Propylbenzene	0.5	< 500	MG/M ^{3}
2-Chlorotoluene	0.5	< 500	MG/M ^{3}
4-Chlorotoluene	0.5	< 500	MG/M ^{3}
1,3,5-Trimethylbenzene	0.5	< 500	MG/M ^{3}
tert-Butylbenzene	0.5	< 500	MG/M ^{3}
1,2,4-Trimethylbenzene	0.5	< 500	MG/M ^{3}
sec-Butylbenzene	0.5	< 500	MG/M ^{3}
1,3-Dichlorobenzene	0.5	< 500	MG/M ^{3}
1,4-Dichlorobenzene	0.5	< 500	MG/M ^{3}
p-Isopropyltoluene	0.5	< 500	MG/M ^{3}
1,2-Dichlorobenzene	0.5	< 500	MG/M ^{3}
n-Butylbenzene	0.5	< 500	MG/M ^{3}
1,2-Dibromomo-3-chloropropane	0.5	< 500	MG/M ^{3}
1,2,4-Trichlorobenzene	0.5	< 500	MG/M ^{3}
Napthalene	0.5	< 500	MG/M ^{3}
Hexachlorobutadiene	0.5	< 500	MG/M ^{3}
1,2,3-Trichlorobenzene	0.5	< 500	MG/M ^{3}

SURROGATE % RECOVERY	
1,2-Dichloroethane-d4	107
	(80 - 120)
Toluene-d8	103
	(81 - 117)
Bromofluorobenzene	109
	(74 - 121)

American Environmental Network, Inc.

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8260 EXTENDED		
CLIENT	: SPARTON	AEN I.D. :	703355
PROJECT #	: 32097		
PROJECT NAME	: SVS-VRW-2ND		

SAMPLE ID #	BATCH	MATRIX	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
REAGENT BLANK	032097	AIR	N/A	03/20/97	1

PARAMETER	DET. LIMIT		UNITS
Dichlorodifluoromethane	0.5	< 0.5	MG/M ^{3}
Chloromethane	0.5	< 0.5	MG/M ^{3}
Vinyl Chloride	0.5	< 0.5	MG/M ^{3}
Bromomethane	0.5	< 0.5	MG/M ^{3}
Chloroethane	0.5	< 0.5	MG/M ^{3}
Trichlorofluoromethane	0.5	< 0.5	MG/M ^{3}
Acetone	5.0	< 5.0	MG/M ^{3}
Acrolein	2.5	< 2.5	MG/M ^{3}
1,1-Dichloroethene	0.5	< 0.5	MG/M ^{3}
Iodomethane	0.5	< 0.5	MG/M ^{3}
Methylene Chloride	0.5	< 0.5	MG/M ^{3}
Acrylonitrile	2.5	< 2.5	MG/M ^{3}
cis-1,2-Dichloroethene	0.5	< 0.5	MG/M ^{3}
Methyl-t-butyl Ether	0.5	< 0.5	MG/M ^{3}
1,1,2,1,2,2-Trichlorotrifluoroethane	0.5	< 0.5	MG/M ^{3}
1,1-Dichloroethane	0.5	< 0.5	MG/M ^{3}
trans-1,2-Dichloroethene	0.5	< 0.5	MG/M ^{3}
2-Butanone	5.0	< 5.0	MG/M ^{3}
Carbon Disulfide	0.5	< 0.5	MG/M ^{3}
Bromochloromethane	0.5	< 0.5	MG/M ^{3}
Chloroform	0.5	< 0.5	MG/M ^{3}
2,2-Dichloropropane	0.5	< 0.5	MG/M ^{3}
1,2-Dichloroethane	0.5	< 0.5	MG/M ^{3}
Vinyl Acetate	0.5	< 0.5	MG/M ^{3}
1,1,1-Trichloroethane	0.5	< 0.5	MG/M ^{3}
1,1-Dichloropropene	0.5	< 0.5	MG/M ^{3}
Carbon Tetrachloride	0.5	< 0.5	MG/M ^{3}
Benzene	0.5	< 0.5	MG/M ^{3}
1,2-Dichloropropane	0.5	< 0.5	MG/M ^{3}
Trichloroethene	0.5	< 0.5	MG/M ^{3}
Bromodichloromethane	0.5	< 0.5	MG/M ^{3}
2-Chloroethyl Vinyl Ether	5.0	< 5.0	MG/M ^{3}
cis-1,3-Dichloropropene	0.5	< 0.5	MG/M ^{3}
trans-1,3-Dichloropropene	0.5	< 0.5	MG/M ^{3}
1,1,2-Trichloroethane	0.5	< 0.5	MG/M ^{3}
1,3-Dichloropropane	0.5	< 0.5	MG/M ^{3}
Dibromomethane	0.5	< 0.5	MG/M ^{3}
Toluene	0.5	< 0.5	MG/M ^{3}
1,2-Dibromoethane	0.5	< 0.5	MG/M ^{3}
4-Methyl-2-Pentanone	5.0	< 5.0	MG/M ^{3}
2-Hexanone	5.0	< 5.0	MG/M ^{3}
Dibromochloromethane	0.5	< 0.5	MG/M ^{3}
Tetrachloroethene	0.5	< 0.5	MG/M ^{3}
Chlorobenzene	0.5	< 0.5	MG/M ^{3}
Ethylbenzene	0.5	< 0.5	MG/M ^{3}
1,1,1,2-Tetrachloroethane	0.5	< 0.5	MG/M ^{3}

American Environmental Network, Inc.

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8260 EXTENDED		
CLIENT	: SPARTON	AEN I.D. :	703355
PROJECT #	: 32097		
PROJECT NAME	: SVS-VRW-2ND		

SAMPLE ID #	BATCH	MATRIX	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
REAGENT BLANK	032097	AIR	N/A	03/20/97	1

PARAMETER	DET. LIMIT		UNITS
o-Xylene	0.5	< 0.5	MG/M ^{3}
m&p Xylenes	0.5	< 0.5	MG/M ^{3}
Styrene	0.5	< 0.5	MG/M ^{3}
Bromoform	0.5	< 0.5	MG/M ^{3}
1,1,2,2-Tetrachloroethane	0.5	< 0.5	MG/M ^{3}
1,2,3-Trichloropropane	0.5	< 0.5	MG/M ^{3}
Isopropyl Benzene	0.5	< 0.5	MG/M ^{3}
Bromobenzene	0.5	< 0.5	MG/M ^{3}
trans-1,4-Dichloro-2-Butene	0.5	< 0.5	MG/M ^{3}
n-Propylbenzene	0.5	< 0.5	MG/M ^{3}
2-Chlorotoluene	0.5	< 0.5	MG/M ^{3}
4-Chlorotoluene	0.5	< 0.5	MG/M ^{3}
1,3,5-Trimethylbenzene	0.5	< 0.5	MG/M ^{3}
tert-Butylbenzene	0.5	< 0.5	MG/M ^{3}
1,2,4-Trimethylbenzene	0.5	< 0.5	MG/M ^{3}
sec-Butylbenzene	0.5	< 0.5	MG/M ^{3}
1,3-Dichlorobenzene	0.5	< 0.5	MG/M ^{3}
1,4-Dichlorobenzene	0.5	< 0.5	MG/M ^{3}
p-Isopropyltoluene	0.5	< 0.5	MG/M ^{3}
1,2-Dichlorobenzene	0.5	< 0.5	MG/M ^{3}
n-Butylbenzene	0.5	< 0.5	MG/M ^{3}
1,2-Dibromomo-3-chloropropane	0.5	< 0.5	MG/M ^{3}
1,2,4-Trichlorobenzene	0.5	< 0.5	MG/M ^{3}
Napthalene	0.5	< 0.5	MG/M ^{3}
Hexachlorobutadiene	0.5	< 0.5	MG/M ^{3}
1,2,3-Trichlorobenzene	0.5	< 0.5	MG/M ^{3}

SURROGATE % RECOVERY

1,2-Dichloroethane-d4	102 (80 - 120)
Toluene-d8	105 (81 - 117)
Bromofluorobenzene	108 (74 - 121)

American Environmental Network, Inc.

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8260 EXTENDED		
CLIENT	: SPARTON	AEN I.D. :	703355
PROJECT #	: 32097		
PROJECT NAME	: SVS-VRW-2ND		

SAMPLE ID #	BATCH	MATRIX	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
REAGENT BLANK	032197	AIR	N/A	03/21/97	1

PARAMETER	DET. LIMIT		UNITS
Dichlorodifluoromethane	0.5	< 0.5	MG/M ^{3}
Chloromethane	0.5	< 0.5	MG/M ^{3}
Vinyl Chloride	0.5	< 0.5	MG/M ^{3}
Bromomethane	0.5	< 0.5	MG/M ^{3}
Chloroethane	0.5	< 0.5	MG/M ^{3}
Trichlorofluoromethane	0.5	< 0.5	MG/M ^{3}
Acetone	5.0	< 5.0	MG/M ^{3}
Acrolein	2.5	< 2.5	MG/M ^{3}
1,1-Dichloroethene	0.5	< 0.5	MG/M ^{3}
Iodomethane	0.5	< 0.5	MG/M ^{3}
Methylene Chloride	0.5	< 0.5	MG/M ^{3}
Acrylonitrile	2.5	< 2.5	MG/M ^{3}
cis-1,2-Dichloroethene	0.5	< 0.5	MG/M ^{3}
Methyl-t-butyl Ether	0.5	< 0.5	MG/M ^{3}
1,1,2,1,2,2-Trichlorotrifluoroethane	0.5	< 0.5	MG/M ^{3}
1,1-Dichloroethane	0.5	< 0.5	MG/M ^{3}
trans-1,2-Dichloroethene	0.5	< 0.5	MG/M ^{3}
2-Butanone	5.0	< 5.0	MG/M ^{3}
Carbon Disulfide	0.5	< 0.5	MG/M ^{3}
Bromochloromethane	0.5	< 0.5	MG/M ^{3}
Chloroform	0.5	< 0.5	MG/M ^{3}
2,2-Dichloropropane	0.5	< 0.5	MG/M ^{3}
1,2-Dichloroethane	0.5	< 0.5	MG/M ^{3}
Vinyl Acetate	0.5	< 0.5	MG/M ^{3}
1,1,1-Trichloroethane	0.5	< 0.5	MG/M ^{3}
1,1-Dichloropropene	0.5	< 0.5	MG/M ^{3}
Carbon Tetrachloride	0.5	< 0.5	MG/M ^{3}
Benzene	0.5	< 0.5	MG/M ^{3}
1,2-Dichloropropane	0.5	< 0.5	MG/M ^{3}
Trichloroethene	0.5	< 0.5	MG/M ^{3}
Bromodichloromethane	0.5	< 0.5	MG/M ^{3}
2-Chloroethyl Vinyl Ether	5.0	< 5.0	MG/M ^{3}
cis-1,3-Dichloropropene	0.5	< 0.5	MG/M ^{3}
trans-1,3-Dichloropropene	0.5	< 0.5	MG/M ^{3}
1,1,2-Trichloroethane	0.5	< 0.5	MG/M ^{3}
1,3-Dichloropropane	0.5	< 0.5	MG/M ^{3}
Dibromomethane	0.5	< 0.5	MG/M ^{3}
Toluene	0.5	< 0.5	MG/M ^{3}
1,2-Dibromoethane	0.5	< 0.5	MG/M ^{3}
4-Methyl-2-Pentanone	5.0	< 5.0	MG/M ^{3}
2-Hexanone	5.0	< 5.0	MG/M ^{3}
Dibromochloromethane	0.5	< 0.5	MG/M ^{3}
Tetrachloroethene	0.5	< 0.5	MG/M ^{3}
Chlorobenzene	0.5	< 0.5	MG/M ^{3}
Ethylbenzene	0.5	< 0.5	MG/M ^{3}
1,1,1,2-Tetrachloroethane	0.5	< 0.5	MG/M ^{3}

American Environmental Network, Inc.

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8260 EXTENDED		
CLIENT	: SPARTON	AEN I.D. :	703355
PROJECT #	: 32097		
PROJECT NAME	: SVS-VRW-2ND		

SAMPLE ID #	BATCH	MATRIX	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
REAGENT BLANK	032197	AIR	N/A	03/21/97	1

PARAMETER	DET. LIMIT		UNITS
o-Xylene	0.5	< 0.5	MG/M ^{3}
m&p Xylenes	0.5	< 0.5	MG/M ^{3}
Styrene	0.5	< 0.5	MG/M ^{3}
Bromoform	0.5	< 0.5	MG/M ^{3}
1,1,2,2-Tetrachloroethane	0.5	< 0.5	MG/M ^{3}
1,2,3-Trichloropropane	0.5	< 0.5	MG/M ^{3}
Isopropyl Benzene	0.5	< 0.5	MG/M ^{3}
Bromobenzene	0.5	< 0.5	MG/M ^{3}
trans-1,4-Dichloro-2-Butene	0.5	< 0.5	MG/M ^{3}
n-Propylbenzene	0.5	< 0.5	MG/M ^{3}
2-Chlorotoluene	0.5	< 0.5	MG/M ^{3}
4-Chlorotoluene	0.5	< 0.5	MG/M ^{3}
1,3,5-Trimethylbenzene	0.5	< 0.5	MG/M ^{3}
tert-Butylbenzene	0.5	< 0.5	MG/M ^{3}
1,2,4-Trimethylbenzene	0.5	< 0.5	MG/M ^{3}
sec-Butylbenzene	0.5	< 0.5	MG/M ^{3}
1,3-Dichlorobenzene	0.5	< 0.5	MG/M ^{3}
1,4-Dichlorobenzene	0.5	< 0.5	MG/M ^{3}
p-Isopropyltoluene	0.5	< 0.5	MG/M ^{3}
1,2-Dichlorobenzene	0.5	< 0.5	MG/M ^{3}
n-Butylbenzene	0.5	< 0.5	MG/M ^{3}
1,2-Dibromomo-3-chloropropane	0.5	< 0.5	MG/M ^{3}
1,2,4-Trichlorobenzene	0.5	< 0.5	MG/M ^{3}
Napthalene	0.5	< 0.5	MG/M ^{3}
Hexachlorobutadiene	0.5	< 0.5	MG/M ^{3}
1,2,3-Trichlorobenzene	0.5	< 0.5	MG/M ^{3}

SURROGATE % RECOVERY	
1,2-Dichloroethane-d4	100 (80 - 120)
Toluene-d8	106 (81 - 117)
Bromofluorobenzene	108 (74 - 121)

American Environmental Network, Inc.

Spike Recovery and RPD Summary Report

Method : C:\HPCHEM\2\METHODS\8260E3.M
Title : ATI ALBUQUERQUE GC/MS
Last Update : Fri Dec 13 08:18:23 1996
Response via : Initial Calibration

Non-Spiked Sample: 032097B1.D

	Spike Sample	Spike Duplicate Sample
File ID :	032097S1.D	032097S2.D
Sample :	BS 032097	BSD 032097
Acq Time:	20 Mar 97 9:43 pm	20 Mar 97 10:31 pm

Compound	Sample Conc	Spike Added	Spike Res	Dup Res	Spike %Rec	Dup %Rec	RPD	QC Limits RPD	QC Limits % Rec
1,1-Dichloroethene	0.0	50	56	56	111	112	1	14	61-145
Benzene	0.0	50	51	52	103	105	2	11	76-127
Trichloroethene	0.0	50	50	57	100	114	12	14	71-120
Toluene	0.0	50	49	50	98	101	3	13	76-125
Chlorobenzene	0.0	50	51	53	102	107	4	13	75-130

8260E3.M Fri Mar 21 08:28:03 1997 MS1

American Environmental Network (NM), Inc.
Albuquerque • Phoenix • Pensacola • Portland • Pleasant Hills • Columbia

CHAIN OF CUSTODY

DATE: 3-20-97 PAGE: 1 OF 1

AEN LAB I.D.: 7033555

SHADED AREAS ARE FOR LAB USE ONLY.

PLEASE FILL THIS FORM IN COMPLETELY.

PROJECT MANAGER: John M. Wakefield

COMPANY: Spartan Technology Inc
ADDRESS: 9621 Coors Rd. NW
Albuquerque NM 87114
PHONE: 505-892-5300
FAX: 5515

BILL TO: "
COMPANY: "
ADDRESS: 4901 Rochaway Blvd
Rio Rancho NM 87124

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB I.D.	Petroleum Hydrocarbons (418.1) TRPH	(MOD.8015) Diesel/Direct/Inject		(M8015) Gas/Purge & Trap	Gasoline/BTEX & MTBE (M8015/8020)	BTXE/MTBE (8020)	BTEX & Chlorinated Aromatics (602/8020)	BTEX/MTBE/EDC & EDB (8020/8010/Short)	Chlorinated Hydrocarbons (601/8010)		504 EDB ☐ / DBCP ☐	Polynuclear Aromatics (610/8310)	Volatile Organics (624/8240) GC/MS	Volatile Organics (8260) GC/MS		Pesticides/PCB (608/8080)	Herbicides (615/8150)	Base/Neutral/Acid Compounds GC/MS (625/8270)		General Chemistry:			Priority Pollutant Metals (13)	Target Analyte List Metals (23)	RCRA Metals (8)	RCRA Metals by TCLP (Method 1311)	Metals:		NUMBER OF CONTAINERS
VR-3	3-20-97	0958	Air	-01								X	X																				1
VR-5	"	1057	"	-02								X	X																				1
VR-4	"	1123	"	-03								X	X																				1
VR-2	"	1151	"	-04								X	X																				1
VR-1	"	1226	"	-05								X	X																				1

PROJECT INFORMATION

PROJ. NO.: 032097
PROJ. NAME: SVS-VRW-2nd
P.O. NO.:
SHIPPED VIA: Delivered

SAMPLE RECEIPT

NO. CONTAINERS	5
CUSTODY SEALS	ON ICE
RECEIVED INTACT	YES
BLUE ICE/ICE	OK

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

(RUSH) ☐ 24hr ☐ 48hr ☐ 72hr ☐ 1 WEEK (NORMAL) X

CERTIFICATION REQUIRED: ☐ NM ☐ SDWA ☐ OTHER

METHANOL PRESERVATION ☐

COMMENTS: FIXED FEE ☐

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.
Signature: Time: 13:03	Signature: Time: 14:48
Printed Name: John Wakefield Date: 3-20-97	Printed Name: Don Gutierrez Date: 3/20/97
Company: STI	Company: STI
RECEIVED BY: 1.	**RECEIVED BY: (LAB) 2.**
Signature: Time: 13:03 14:40	Signature: Date: 3/20/97
Printed Name: Don Gutierrez Date: 3-20-97	Printed Name: Date: 3/20/97
Company: STI	American Environmental Network (NM), Inc.

STATE OF NEW MEXICO DEPARTMENT OF HEALTH

SCIENTIFIC LABORATORY DIVISION

P.O. Box 4700 700 Camino de Salud, NE
Albuquerque, NM 87196-4700 [505] 841-2500
ORGANIC CHEMISTRY SECTION [505] 841-2570

REPORT TO CLIENT:

Attn: Rob Pine
Ground Water Quality Bureau
P.O. Box 26110
Santa Fe, NM 87502

SLD No.: OR- 9700687
REQUEST ID No.: 154997
RECEIVED AT SLD: 3/20/97
☐ SLD COPY USER 55321

SAMPLE COLLECTION: DATE: 3/20/97 TIME: 1221 BY: Pin
SAMPLING LOCATION: Sparton VR-1
SAMPLE MATRIX: Gas REPORTING UNITS: uG/L

Remarks: Tedlar Gas Bag Sample

EPA METHOD 8260 Modified MASS SPECTROMETER VOLATILES BY PURGE AND TRAP

DATE EXTRACTED: N/A
DATE ANALYZED: 3/20/97 0 Days: Within EPA Analysis Time
AIR SAMPLE VOL (mL): 0.01

ANALYSIS No.: OR- 9700687
SLD BATCH No.: 102A
DILUTION FACTOR: 100.00
REQUEST ID No.: 154997

Barometric Pressure During Analayis in mm of Mercury: 636

CAS #	ANALYTE NAME	CONCENTRATION uG/L$_{air}$	CONCENTRATION ppm V/V	QUAL.	Sample Detection Limit uG/L$_{air}$	Sample Detection Limit ppm V/V
71-43-2	Benzene			U	500.0	184.04
108-86-1	Bromobenzene			U	500.0	91.43
74-97-5	Bromochlorom			U	500.0	111.28
75-27-4	Bromodichloro			U	500.0	87.53
75-25-2	Bromoform*			U	500.0	56.74
24-83-9	Bromomethane			U	500.0	151.11
78-93-3	2-Butanone (MI			U	5000.0	1993.77
104-51-8	n-Butylbenzene			U	500.0	107.13
135-98-8	sec-Butylbenze			U	500.0	107.13
98-06-6	tert-Butylbenze			U	500.0	107.13
1634-04-4	tert-Butyl methy			U	5000.0	1631.27
56-23-5	Carbon tetrachl			U	500.0	93.22
108-90-7	Chlorobenzene			U	500.0	127.04
75-00-3	Chloroethane			U	500.0	220.85
67-66-3	Chloroform*			U	500.0	120.63
74-87-3	Chloromethane			U	500.0	287.10
95-49-8	2-Chlorotoluene			U	500.0	113.93
106-43-4	4-Chlorotoluene			U	500.0	113.93
96-12-8	1,2-Dibromo-3-cl			U	500.0	60.57
124-48-1	Dibromochlorom			U	500.0	69.02
106-93-4	1,2-Dibromoetha			U	500.0	76.36
74-95-3	Dibromomethane			U	500.0	152.71
95-50-1	1,2-Dichlorobenzene (o-Dichlorobenzene)			U	500.0	97.65
541-73-1	1,3-Dichlorobenzene (m-Dichlorobenzene)			U	500.0	97.65
106-46-7	1,4-Dichlorobenzene (p-Dichlorobenzene)			U	500.0	97.65
75-71-8	Dichlorodifluoromethane			U	500.0	118.64
75-34-3	1,1-Dichloroethane			U	500.0	145.00
107-06-2	1,2-Dichloroethane			U	500.0	145.00
75-35-4	1,1-Dichloroethene	310	90	J	500.0	147.99
156-59-2	cis-1,2-Dichloroethene			U	500.0	147.99
156-60-5	trans-1,2-Dichloroethene			U	500.0	147.99
78-87-5	1,2-Dichloropropane			U	500.0	127.04
142-28-9	1,3-Dichloropropane			U	500.0	127.04
590-20-7	2,2-Dichloropropane			U	500.0	127.04
563-58-6	1,1-Dichloropropene			U	500.0	129.33
1006-01-5	cis-1,3-Dichloropropene			U	500.0	129.33

NMED's ~~Sampler~~ analysis of Samples for vapor recovery wells 3/20/97

1006-02-6	trans-1,3-Dichloropropene			U	500.0	129.38
100-41-4	Ethylbenzene	350	95	J	500.0	135.43
87-68-3	Hexachlorobutadiene			U	500.0	55.00
98-82-8	Isopropylbenzene			U	500.0	119.63
99-87-6	4-Isopropyltoluene			U	500.0	106.33
75-09-2	Methylene chloride (Dichloromethane)			U	1000.0	337.77
91-20-3	Naphthalene			U	500.0	90.86
103-65-1	Propylbenzene			U	500.0	119.63
100-42-5	Styrene			U	500.0	138.03
630-20-6	1,1,1,2-Tetrachloroethane			U	500.0	85.45
79-34-5	1,1,2,2-Tetrachloroethane			U	500.0	85.45
127-18-4	Tetrachloroethene	330	57	J	500.0	86.48
109-99-9	Tetrahydrofuran (THF)			U	5000.0	1993.77
108-88-3	Toluene	7300	2300		500.0	156.03
87-61-5	1,2,3-Trichlorobenzene			U	500.0	79.31
120-82-1	1,2,4-Trichlorobenzene			U	500.0	79.31
71-55-6	1,1,1-Trichloroethane	2900	630		500.0	107.93
79-00-5	1,1,2-Trichloroethane			U	500.0	107.93
79-01-6	Trichloroethene	24000	5200		500.0	109.58
75-69-4	Trichlorofluoromethane			U	500.0	104.02
96-18-4	1,2,3-Trichloropropane			U	500.0	97.65
95-63-6	1,2,4-Trimethylbenzene			U	500.0	119.63
108-67-8	1,3,5-Trimethylbenzene			U	500.0	119.63
75-01-4	Vinyl chloride			U	500.0	231.53
95-47-6	o-Xylene*	315	85	J	500.0	135.43
N/A	p- & m-Xylene*	840	230	J	1000.0	270.85
N/A	*Total Xylenes*			U	500.0	135.43
N/A	*Total Trihalomethanes*		N/A	U	500.0	

Laboratory Remarks: **TCE Gas Standard Recovery was 119%.**
Quality control parameters for this batch exceeded normal ranges. Re-analysis conducted on 4/1/1997 resulted in substantially lower values, probably as a result of the expiration of the 72 hour holding period. The results reported here are from the initial analysis.

LABORATORY BATCH QUALITY CONTROL SUMMARY				
SURROGATE RECOVERIES:	SURROGATE COMPOUNDS	CONCENTRATION (uG/L$_{air}$)	% RECOVERY	
	Toluene - D8	5025	100.5%	
	4 - Bromofluorobenzene	4575	91.5%	
	1,2 - Dichlorobenzene - D4	6398	128.0%	High
LABORATORY FORTIFIED BLANK RECOVERIES	The % recoveries for compounds in the batch spike were from 80% to 120% with the exception of the compounds listed below (concentrations are relative to sample dilution): COMPOUND CONCENTRATION (uG/L) % RECOVERY **No Exceptions**			
LABORATORY BLANKS	No target compounds were detected above the sample detection limit in laboratory blankwith the exception of the compound(s) listed below (concentrations are relative to sample dilution): COMPOUND CONCENTRATION (uG/L) **No Exceptions**			

ANALYST: **Patrick Basile** QC APPROVED BY: **Ken Sherrell**

DEFINITIONS

**	Concentration Exceeds EPA's allowable Maximum Contamination Level
CAS#	Chemical Abstract Services Number - Unique number to help identify analytes listed by different names
CONC.	Concentration (ug/L) of analyte actually detected in the sample
QUAL	Qualifier of analytical results as follows:
	B Analyte was detected in laboratory blank
	J Analyte was detected at a level below which an accurate quanitation can be given (~5 * SDL)
	U No analyte was detected above the Sample Detection Limit.
SDL	Sample Detection Limit - The lowest concentration which can be differentiated from Zero with 99% confidence taking sample size (compositing) into account.
ug/L	Concentration Units - micrograms per liter which is approximately equivalent to Parts Per Billion (ppb)

ORGANIC CHEMISTRY ANALYTICAL REQUEST FORM — SLD's Accession No.

Request ID No. 154997-B **OR**

Scientific Laboratory Division
700 Camino de Salud, NE (P.O. Box 4700)
Albuquerque, NM 87106 (87196-4700)
Phone: 505-841-2500/ -2570/ -2566

OR For SL OR 0R9700687

[3] User Code: 55321

Date & Time of Receipt at SLD:

[4] Sample Priority: 3 — If 1 or 2 call SLD

[5] Submitter Code: 418

WSS Code: 97 MAR 20 PM 2:00 User's Site ID:

[6] Sample Temp. Receipt @ SLD: ____ °C

[7] Facility or WSS Name: SPIRITION

Facility/WSS Location: If No WSS Code Complete 8, 9 & 10

[8] County: Bernalillo

[9] City: Albuquerque

[10] State: or CHANGE NM TO

[11] Sampling Location: SPIRITION VR-1

[12] Sample Collection: On: 03 / 20 / 97 (Date: MM / DD / YY) By: Pine (Last Name) Rob (First Name)

At: 12 : 21 (Time: 24:00 Hour Clock)

[13] Sample Info. Contact: Ph: [505] - 827 - 0178

If not collector, per box 12, Please print name here:

[14] *Reports are mailed to the address specified by the Submitter Code and WSS Code (when present). However, if one of the following applies, please check ☒ appropriate boxes below and complete address form.*

☐ New Address for: ☐ Submitter ☐ WSS / Client

☐ Send an additional Report to ➔

Name:

Address:

City: *State:* *Zip:*

[15] Field Data: *(When appropriate)*

Temperature: ____ °C: pH: ____

Chlorinated ? ☐ YES or ☐ NO (Please Check Box)

Chlorine Residual: ____ mG/L

Sulfate: ____ mG/L

SDWA Compositing:
☐ No Compositing Permitted
☐ Within This System Only
☐ Within All Systems

[16] Field Remarks: *(Optional)*

[17] Sample Type: *(Check ☒ only one)*
☐ Water ■ Vapor ☐ Tissue ☐ Other: ☐ Liquid:
☐ Soil ☐ Plant ☐ Blood ☐ Solid:

[18] Preservation: *(Check ☒ all that apply)*
■ No Preservation
☐ Stored at 4°C ☐ Preserved with HCl to pH < 2 ☐ Other:

[19] Analyses Requested: *Please Check ☒ the appropriate box(es) below to indicate your analytical request(s); and, please indicate the number of bottles & vials submitted:* Bottles ____ Vials ____.

Volatile Screens:

☐-(754) Aromatic & Halogenated Volatiles (EPA 8021)
■-(765) Mass Spectrometer Volatiles (EPA 8260)
☐-(774) Volatile Organic Compounds [VOC's] (EPA 502.2)
☐-(766) SDWA Total Trihalomethanes (EPA 502.2)

Other Specific Compounds or Classes:

☐-(___) ____

☐-(___) ____

Remarks:

OGC-002104

Semivolatile Screens:

☐-(789) Drinking Water Semivolatile Screens (Indented list)
- ☐-(775) EDB, DBCP & TCP (EPA 504.1)
- ☐-(758) Acid Herbicides (EPA 515.2)
- ☐-(772) Carbamates (EPA 531.1)
- ☐-(781) Glyphosate (EPA 547)
- ☐-(782) Endothall (EPA 548.1)
- ☐-(783) Diquat (EPA 549.1)
- ☐-(788) SOC (EPA 525.2)

☐-(755) Base/Neutral Semivolatiles (No Acids) (EPA 8270)
☐-(756) Base/Neutral/Acids Semivolatiles (EPA 625/8270)
☐-(760) Organochlorine Pesticides / PCB's (EPA 608)
☐-(751) Hydrocarbon Fuel Screen (Modified EPA 8015)
☐-(768) Disinfection Byproducts Screen (Indented list)
- ☐-(771) Haloacetic Acids (EPA 552.2)
- ☐-(769) Haloacetonitriles / THM's (EPA 551.1)
- ☐-(770) Chloral Hydrate (EPA 551.1)
- ☐-(773) Total Organic Halides [TOX] (EPA 5320b)

Please RETAIN A COPY of your completed form for your records

STATE OF NEW MEXICO DEPARTMENT OF HEALTH

SCIENTIFIC LABORATORY DIVISION

P.O. Box 4700
Albuquerque, NM 87196-4700

700 Camino de Salud, NE
[505] 841-2500

ORGANIC CHEMISTRY SECTION [505] 841-2570

REPORT TO CLIENT:

Attn: Rob Pine
Ground Water Quality Bureau
P.O. Box 26110
Santa Fe, NM 87502

SLD No.: OR- 9700688
REQUEST ID No.: 154996
RECEIVED AT SLD: 3/20/97
☐ SLD COPY USER 55321

SAMPLE COLLECTION: DATE: 3/20/97 TIME: 1147 BY: Pin
SAMPLING LOCATION: Sparton VR-2
SAMPLE MATRIX: Gas REPORTING UNITS: uG/L

Remarks: Tedlar Gas Bag Sample

EPA METHOD 8260 Modified MASS SPECTROMETER VOLATILES BY PURGE AND TRAP

DATE EXTRACTED: N/A
DATE ANALYZED: 3/20/97 0 Days: Within EPA Analysis Time
AIR SAMPLE VOL (mL): 0.025

ANALYSIS No.: OR- 9700688
SLD BATCH No.: 102A
DILUTION FACTOR: 40.00
REQUEST ID No.: 154996

Barometric Pressure During Analayis in mm of Mercury: 636

CAS #	ANALYTE NAME	CONCENTRATION		QUAL.	Sample Detection Limit	
		uG/L$_{air}$	ppm V/V		uG/L$_{air}$	ppm V/V
71-43-2	Benzene			U	200.0	73.62
108-86-1	Bromobenzene			U	200.0	36.57
74-97-5	Bromochloromethane			U	200.0	44.51
75-27-4	Bromodichloromethane*			U	200.0	35.01
75-25-2	Bromoform*			U	200.0	22.70
24-83-9	Bromomethane			U	200.0	60.44
78-93-3	2-Butanone (MEK)			U	2000.0	797.51
104-51-8	n-Butylbenzene			U	200.0	42.85
135-98-8	sec-Butylbenzene			U	200.0	42.85
98-06-6	tert-Butylbenzene			U	200.0	42.85
1634-04-4	tert-Butyl methyl ether (MTBE)			U	2000.0	652.51
56-23-5	Carbon tetrachloride			U	200.0	37.29
108-90-7	Chlorobenzene (monochlorobenzene)			U	200.0	50.81
75-00-3	Chloroethane			U	200.0	88.34
67-66-3	Chloroform*			U	200.0	48.25
74-87-3	Chloromethane			U	200.0	114.84
95-49-8	2-Chlorotoluene			U	200.0	45.57
106-43-4	4-Chlorotoluene			U	200.0	45.57
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)			U	200.0	24.23
124-48-1	Dibromochloromethane*			U	200.0	27.61
106-93-4	1,2-Dibromoethane (Ethylene dibromide (EDB))			U	200.0	30.54
74-95-3	Dibromomethane			U	200.0	61.09
95-50-1	1,2-Dichlorobenzene (o-Dichlorobenzene)			U	200.0	39.06
541-73-1	1,3-Dichlorobenzene (m-Dichlorobenzene)			U	200.0	39.06
106-46-7	1,4-Dichlorobenzene (p-Dichlorobenzene)			U	200.0	39.06
75-71-8	Dichlorodifluoromethane			U	200.0	47.46
75-34-3	1,1-Dichloroethane			U	200.0	58.00
107-06-2	1,2-Dichloroethane			U	200.0	58.00
75-35-4	1,1-Dichloroethene	250	73		200.0	59.20
156-59-2	cis-1,2-Dichloroethene			U	200.0	59.20
156-60-5	trans-1,2-Dichloroethene			U	200.0	59.20
78-87-5	1,2-Dichloropropane			U	200.0	50.81
142-28-9	1,3-Dichloropropane			U	200.0	50.81
590-20-7	2,2-Dichloropropane			U	200.0	50.81
563-58-6	1,1-Dichloropropene			U	200.0	51.73
1006-01-5	cis-1,3-Dichloropropene			U	200.0	51.73

RECEIVED APR 15 1997 By

1006-02-6	trans-1,3-Dichloropropene			U	200.0	51.73
100-41-4	Ethylbenzene			U	200.0	54.17
87-68-3	Hexachlorobutadiene			U	200.0	22.00
98-82-8	Isopropylbenzene			U	200.0	47.85
99-87-6	4-Isopropyltoluene			U	200.0	42.53
75-09-2	Methylene chloride (Dichloromethane)			U	400.0	135.11
91-20-3	Naphthalene			U	200.0	36.34
103-65-1	Propylbenzene			U	200.0	47.85
100-42-5	Styrene			U	200.0	55.21
630-20-6	1,1,1,2-Tetrachloroethane			U	200.0	34.18
79-34-5	1,1,2,2-Tetrachloroethane			U	200.0	34.18
127-18-4	Tetrachloroethene	170	29	J	200.0	34.59
109-99-9	Tetrahydrofuran (THF)			U	2000.0	797.51
108-88-3	Toluene	740	230		200.0	62.41
87-61-5	1,2,3-Trichlorobenzene			U	200.0	31.72
120-82-1	1,2,4-Trichlorobenzene			U	200.0	31.72
71-55-6	1,1,1-Trichloroethane	960	210		200.0	43.17
79-00-5	1,1,2-Trichloroethane			U	200.0	43.17
79-01-6	Trichloroethene	6700	1500		200.0	43.83
75-69-4	Trichlorofluoromethane			U	200.0	41.61
96-18-4	1,2,3-Trichloropropane			U	200.0	39.06
95-63-6	1,2,4-Trimethylbenzene			U	200.0	47.85
108-67-8	1,3,5-Trimethylbenzene			U	200.0	47.85
75-01-4	Vinyl chloride			U	200.0	92.61
95-47-6	o-Xylene*			U	200.0	54.17
N/A	p- & m-Xylene*	130	34	J	200.0	54.17
N/A	*Total Xylenes*			U	200.0	54.17
N/A	*Total Trihalomethanes*		N/A	U	200.0	

Laboratory Remarks: **TCE Gas Standard Recovery was 119%.**
Quality control parameters for this batch exceeded normal ranges. Re-analysis conducted on 4/1/1997 resulted in substantially lower values, probably as a result of the expiration of the 72 hour holding period. The results reported here are from the initial analysis.

LABORATORY BATCH QUALITY CONTROL SUMMARY				
SURROGATE RECOVERIES:	SURROGATE COMPOUNDS	CONCENTRATION (uG/L$_{air}$)	% RECOVERY	
	Toluene - D8	2005	100.3%	
	4 - Bromofluorobenzene	1804	90.2%	
	1,2 - Dichlorobenzene - D4	2650	132.5%	High
LABORATORY FORTIFIED BLANK RECOVERIES	The % recoveries for compounds in the batch spike were from 80% to 120% with the exception of the compounds listed below (concentrations are relative to sample dilution): COMPOUND / CONCENTRATION (uG/L) / % RECOVERY — No Exceptions			
LABORATORY BLANKS	No target compounds were detected above the sample detection limit in laboratory blankwith the exception of the compound(s) listed below (concentrations are relative to sample dilution): COMPOUND / CONCENTRATION (uG/L) — No Exceptions			

ANALYST: **Patrick Basile** QC APPROVED BY: **Ken Sherrel**

DEFINITIONS

- ** Concentration Exceeds EPA's allowable Maximum Contamination Level
- CAS# Chemical Abstract Services Number - Unique number to help identify analytes listed by different names
- CONC. Concentration (ug/L) of analyte actually detected in the sample
- QUAL Qualifier of analytical results as follows:
  - B Analyte was detected in laboratory blank
  - J Analyte was detected at a level below which an accurate quanitation can be given (~5 * SDL)
  - U No analyte was detected above the Sample Detection Limit.
- SDL Sample Detection Limit - The lowest concentration which can be differentiated from Zero with 99% confidence taking sample size (compositing) into account.
- ug/L Concentration Units - micrograms per liter which is approximately equivalent to Parts Per Billion (ppb)

ORGANIC CHEMISTRY ANALYTICAL REQUEST FORM

Request ID No. 154996-B

OR

Scientific Laboratory Division
700 Camino de Salud, NE (P.O. Box 4700)
Albuquerque, NM 87106 (87196-4700)
Phone: 505-841-2500/ -2570/ -2566

OR

0R9700688

3 User Code: 5 5 3 2 1

Date & Time of Receipt at SLD: 97 MAR 20 PM 2:01

4 Sample Priority: 3 — *If 1 or 2 call SLD*

5 Submitter Code: 4 1 8

WSS Code: ___-___

User's Site ID:

6 *Sample Temp. Receipt @ SLD:* ____ °C

7 Facility or WSS Name: SPIRITION

Facility/WSS Location: *If No WSS Code Complete 8, 9 & 10*

8 County: Bernalillo

9 City: Albuquerque

10 State: *or CHANGE* NM *TO*

11 Sampling Location: SPIRITION VR-12

12 Sample Collection: On: 03 / 20 / 97 (Date: MM / DD / YY) By: Pine (Last Name)

At: 11 : 47 (Time: 24:00 Hour Clock) Rob (First Name)

13 Sample Info. Contact: Ph: [505] - 827 - 0178

If not collector, per box 12, Please print name here:

14 *Reports are mailed to the address specified by the Submitter Code and WSS Code (when present). However, if one of the following applies, please check ☒ appropriate boxes below and complete address form.*

☐ New Address for: ☐ Submitter ☐ WSS / Client

☐ Send an additional Report to ➸

Name:

Address:

City: *State:* *Zip:*

15 Field Data: *(When appropriate)*

Temperature: ____ °C; pH: ____

Chlorinated ? ☐ YES or ☐ NO (Please Check Box)

Chlorine Residual: ____ mG/L

Sulfate: ____ mG/L

SDWA Compositing:
☐ No Compositing Permitted
☐ Within This System Only
☐ Within All Systems

16 Field Remarks: *(Optional)*

17 Sample Type: *(Check ☒ only one)*
☐ Water ■ Vapor ☐ Tissue ☐ Other: ☐ Liquid:
☐ Soil ☐ Plant ☐ Blood ☐ Solid:

18 Preservation: *(Check ☒ all that apply)*
■ No Preservation
☐ Stored at 4°C ☐ Preserved with HCl to pH < 2 ☐ Other:

19 Analyses Requested: *Please Check ☒ the appropriate box(es) below to indicate your analytical request(s); and, please indicate the number of bottles & vials submitted:* Bottles ____ Vials ____.

Volatile Screens:

☐-(754) Aromatic & Halogenated Volatiles (EPA 8021)
■-(765) Mass Spectrometer Volatiles (EPA 8260)
☐-(774) Volatile Organic Compounds [VOC's] (EPA 502.2)
☐-(766) SDWA Total Trihalomethanes (EPA 502.2)

Other Specific Compounds or Classes:

☐-(___) ____

☐-(___) ____

Remarks: ____

Semivolatile Screens:

☐-(789) Drinking Water Semivolatile Screens (Indented list)
- ☐-(775) EDB, DBCP & TCP (EPA 504.1)
- ☐-(758) Acid Herbicides (EPA 515.2)
- ☐-(772) Carbamates (EPA 531.1)
- ☐-(781) Glyphosate (EPA 547)
- ☐-(782) Endothall (EPA 548.1)
- ☐-(783) Diquat (EPA 549.1)
- ☐-(788) SOC (EPA 525.2)

☐-(755) Base/Neutral Semivolatiles (No Acids) (EPA 8270)
☐-(756) Base/Neutral/Acids Semivolatiles (EPA 625/8270)
☐-(760) Organochlorine Pesticides / PCB's (EPA 608)
☐-(751) Hydrocarbon Fuel Screen (Modified EPA 8015)
☐-(768) Disinfection Byproducts Screen (Indented list)
- ☐-(771) Haloacetic Acids (EPA 552.2)
- ☐-(769) Haloacetonitriles / THM's (EPA 551.1)
- ☐-(770) Chloral Hydrate (EPA 551.1)
- ☐-(773) Total Organic Halides [TOX] (EPA 5320b)

OGC-002107

Please RETAIN A COPY of your completed form for your records

STATE OF NEW MEXICO DEPARTMENT OF HEALTH

SCIENTIFIC LABORATORY DIVISION

P.O. Box 4700
Albuquerque, NM 87196-4700

700 Camino de Salud, NE
[505] 841-2500

ORGANIC CHEMISTRY SECTION [505] 841-2570

REPORT TO CLIENT:

Attn: Rob Pine
Ground Water Quality Bureau
P.O. Box 26110
Santa Fe, NM 87502

SLD No.: OR- 9700686
REQUEST ID No.: 154992
RECEIVED AT SLD: 3/20/97
☐ SLD COPY USER 55321

SAMPLE COLLECTION: DATE: 3/20/97 TIME: 9:55 BY: Pin
SAMPLING LOCATION: Sparton VR-3
SAMPLE MATRIX: Gas REPORTING UNITS: uG/L

Remarks: Tedlar Gas Bag Sample

EPA METHOD 8260 Modified MASS SPECTROMETER VOLATILES BY PURGE AND TRAP

DATE EXTRACTED: N/A
DATE ANALYZED: 3/20/97 0 Days: Within EPA Analysis Time
AIR SAMPLE VOL (mL): 0.1

ANALYSIS No.: OR- 9700686
SLD BATCH No.: 102A
DILUTION FACTOR: 10.00
REQUEST ID No.: 154992

Barometric Pressure During Analayis in mm of Mercury: 636

CAS #	ANALYTE NAME	CONCENTRATION		QUAL.	Sample Detection Limit	
		uG/L$_{air}$	ppm V/V		uG/L$_{air}$	ppm V/V
71-43-2	Benzene			U	50.0	18.40
108-86-1	Bromobenzene			U	50.0	9.14
74-97-5	Bromochloromethane			U	50.0	11.13
75-27-4	Bromodichloromethane*			U	50.0	8.75
75-25-2	Bromoform*			U	50.0	5.67
24-83-9	Bromomethane			U	50.0	15.11
78-93-3	2-Butanone (MEK)			U	500.0	199.38
104-51-8	n-Butylbenzene			U	50.0	10.71
135-98-8	sec-Butylbenzene			U	50.0	10.71
98-06-6	tert-Butylbenzene			U	50.0	10.71
1634-04-4	tert-Butyl methyl ether (MTBE)			U	500.0	163.13
56-23-5	Carbon tetrachloride			U	50.0	9.32
108-90-7	Chlorobenzene (monochlorobenzene)			U	50.0	12.70
75-00-3	Chloroethane			U	50.0	22.08
67-66-3	Chloroform*			U	50.0	12.06
74-87-3	Chloromethane			U	50.0	28.71
95-49-8	2-Chlorotoluene			U	50.0	11.39
106-43-4	4-Chlorotoluene			U	50.0	11.39
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)			U	50.0	6.06
124-48-1	Dibromochloromethane*			U	50.0	6.90
106-93-4	1,2-Dibromoethane (Ethylene dibromide (EDB))			U	50.0	7.64
74-95-3	Dibromomethane			U	50.0	15.27
95-50-1	1,2-Dichlorobenzene (o-Dichlorobenzene)			U	50.0	9.77
541-73-1	1,3-Dichlorobenzene (m-Dichlorobenzene)			U	50.0	9.77
106-46-7	1,4-Dichlorobenzene (p-Dichlorobenzene)			U	50.0	9.77
75-71-8	Dichlorodifluoromethane			U	50.0	11.86
75-34-3	1,1-Dichloroethane			U	50.0	14.50
107-06-2	1,2-Dichloroethane			U	50.0	14.50
75-35-4	1,1-Dichloroethene	78	23		50.0	14.80
156-59-2	cis-1,2-Dichloroethene			U	50.0	14.80
156-60-5	trans-1,2-Dichloroethene			U	50.0	14.80
78-87-5	1,2-Dichloropropane			U	50.0	12.70
142-28-9	1,3-Dichloropropane			U	50.0	12.70
590-20-7	2,2-Dichloropropane			U	50.0	12.70
563-58-6	1,1-Dichloropropene			U	50.0	12.93
1006-01-5	cis-1,3-Dichloropropene			U	50.0	12.93

RECEIVED APR 15 1997 By

1006-02-6	trans-1,3-Dichloropropene			U	50.0	12.93
100-41-4	Ethylbenzene			U	50.0	13.54
87-68-3	Hexachlorobutadiene			U	50.0	5.50
98-82-8	Isopropylbenzene			U	50.0	11.96
99-87-6	4-Isopropyltoluene			U	50.0	10.63
75-09-2	Methylene chloride (Dichloromethane)			U	100.0	33.78
91-20-3	Naphthalene			U	50.0	9.09
103-65-1	Propylbenzene			U	50.0	11.96
100-42-5	Styrene			U	50.0	13.80
630-20-6	1,1,1,2-Tetrachloroethane			U	50.0	8.54
79-34-5	1,1,2,2-Tetrachloroethane			U	50.0	8.54
127-18-4	Tetrachloroethene	28	4.9	J	50.0	8.65
109-99-9	Tetrahydrofuran (THF)			U	500.0	199.38
108-88-3	Toluene			U	50.0	15.60
87-61-5	1,2,3-Trichlorobenzene			U	50.0	7.93
120-82-1	1,2,4-Trichlorobenzene			U	50.0	7.93
71-55-6	1,1,1-Trichloroethane	340	74		50.0	10.79
79-00-5	1,1,2-Trichloroethane			U	50.0	10.79
79-01-6	Trichloroethene	1200	270		50.0	10.96
75-69-4	Trichlorofluoromethane			U	50.0	10.40
96-18-4	1,2,3-Trichloropropane			U	50.0	9.77
95-63-6	1,2,4-Trimethylbenzene			U	50.0	11.96
108-67-8	1,3,5-Trimethylbenzene			U	50.0	11.96
75-01-4	Vinyl chloride			U	50.0	23.15
95-47-6	o-Xylene*			U	50.0	13.54
N/A	p- & m-Xylene*			U	50.0	13.54
N/A	*Total Xylenes*			U	50.0	13.54
N/A	*Total Trihalomethanes*		N/A	U	50.0	

Laboratory Remarks: TCE Gas Standard Recovery was 119%.
Quality control parameters for this batch exceeded normal ranges. Re-analysis conducted on 4/1/1997 resulted in substantially lower values, probably as a result of the expiration of the 72 hour holding period. The results reported here are from the initial analysis.

LABORATORY BATCH QUALITY CONTROL SUMMARY

	SURROGATE COMPOUNDS	CONCENTRATION (uG/L$_{air}$)	% RECOVERY	
SURROGATE RECOVERIES:	Toluene - D8	502	100.3%	
	4 - Bromofluorobenzene	467	93.4%	
	1,2 - Dichlorobenzene - D4	644	128.8%	High

LABORATORY FORTIFIED BLANK RECOVERIES

The % recoveries for compounds in the batch spike were from 80% to 120% with the exception of the compounds listed below (concentrations are relative to sample dilution):

COMPOUND	CONCENTRATION (uG/L)	% RECOVERY
No Exceptions		

LABORATORY BLANKS

No target compounds were detected above the sample detection limit in laboratory blankwith the exception of the compound(s) listed below (concentrations are relative to sample dilution):

COMPOUND	CONCENTRATION (uG/L)
No Exceptions	

ANALYST: **Patrick Basile** QC APPROVED BY: **Ken Sherrell**

DEFINITIONS

**	Concentration Exceeds EPA's allowable Maximum Contamination Level
CAS#	Chemical Abstract Services Number - Unique number to help identify analytes listed by different names
CONC.	Concentration (ug/L) of analyte actually detected in the sample
QUAL	Qualifier of analytical results as follows:
	B Analyte was detected in laboratory blank
	J Analyte was detected at a level below which an accurate quanitation can be given (~5 * SDL)
	U No analyte was detected above the Sample Detection Limit.
SDL	Sample Detection Limit - The lowest concentration which can be differentiated from Zero with 99% confidence taking sample size (compositing) into account.
ug/L	Concentration Units - micrograms per liter which is approximately equivalent to Parts Per Billion (ppb)

Request ID No. **ORGANIC CHEMISTRY ANALYTICAL REQUEST FORM** SLD's Accession No.

Request ID No. 154992-B

OR

Scientific Laboratory Division
700 Camino de Salud, NE (P.O. Box 4700)
Albuquerque, NM 87106 (87196-4700)
Phone: 505-841-2500/ -2570/ -2566

OR

For C 0R9700686

3 User Code: 55321	Date & Time of Receipt at SLD: 97 MAR 20 PM 2:02	4 Sample Priority: 3 *If 1 or 2 call SLD*

5 Submitter Code: 418 | WSS Code: | User's Site ID: | 6 *Sample Temp. Receipt @ SLD:* ____°C

7 Facility or WSS Name: SPARTON

Facility/WSS Location: *If No WSS Code Complete 8, 9 & 10* | 8 County: Bernalillo | 9 City: Albuquerque | 10 State: *or CHANGE* NM *TO*

11 Sampling Location: SPARTON VR-3

12 Sample Collection: On: 03 / 20 / 97 (Date: MM / DD / YY) By: Pine (Last Name) Rob (First Name)
At: 9 : 55 (Time: 24:00 Hour Clock)

13 Sample Info. Contact: Ph: [ ] - 827 - 0178 If not collector, per box 12, Please print name here: _____

14 *Reports are mailed to the address specified by the Submitter Code and WSS Code (when present). However, if one of the following applies, please check ☒ appropriate boxes below and complete address form.*

☐ New Address for: ☐ Submitter ☐ WSS / Client

☐ Send an additional Report to ➡

Name: _____
Address: _____
City: _____ *State:* _____ *Zip:* _____

15 **Field Data:** *(When appropriate)*

Temperature: ____°C; pH: ____

Chlorinated ? ☐ YES or ☐ NO (Please Check Box)

Chlorine Residual: ____mG/L

Sulfate: ____ mG/L

SDWA Compositing:
☐ No Compositing Permitted
☐ Within This System Only
☐ Within All Systems

16 **Field Remarks:** *(Optional)*

17 **Sample Type:** *(Check ☒ only one)*
☐ Water ■ Vapor ☐ Tissue ☐ Other: ☐ Liquid:
☐ Soil ☐ Plant ☐ Blood ☐ Solid: _____

18 **Preservation:** *(Check ☒ all that apply)*
☐ No Preservation
☐ Stored at 4°C ☐ Preserved with HCl to pH < 2 ☐ Other: _____

19 **Analyses Requested:** *Please Check ☒ the appropriate box(es) below to indicate your analytical request(s); and, please indicate the number of bottles & vials submitted:* Bottles ____ Vials ____.

Volatile Screens:
☐-(754) Aromatic & Halogenated Volatiles (EPA 8021)
■-(765) Mass Spectrometer Volatiles (EPA 8260)
☐-(774) Volatile Organic Compounds [VOC's] (EPA 502.2)
☐-(766) SDWA Total Trihalomethanes (EPA 502.2)

Other Specific Compounds or Classes:
☐-(___) _____
☐-(___) _____

Remarks: _____

Semivolatile Screens:
☐-(789) Drinking Water Semivolatile Screens **(Indented list)**
- ☐-(775) EDB, DBCP & TCP (EPA 504.1)
- ☐-(758) Acid Herbicides (EPA 515.2)
- ☐-(772) Carbamates (EPA 531.1)
- ☐-(781) Glyphosate (EPA 547)
- ☐-(782) Endothall (EPA 548.1)
- ☐-(783) Diquat (EPA 549.1)
- ☐-(788) SOC (EPA 525.2)

☐-(755) Base/Neutral Semivolatiles (No Acids) (EPA 8270)
☐-(756) Base/Neutral/Acids Semivolatiles (EPA 625/8270)
☐-(760) Organochlorine Pesticides / PCB's (EPA 608)
☐-(751) Hydrocarbon Fuel Screen (Modified EPA 8015)
☐-(768) Disinfection Byproducts Screen **(Indented list)**
- ☐-(771) Haloacetic Acids (EPA 552.2)
- ☐-(769) Haloacetonitriles / THM's (EPA 551.1)
- ☐-(770) Chloral Hydrate (EPA 551.1)
- ☐-(773) Total Organic Halides [TOX] (EPA 5320b)

OGC-002110

STATE OF NEW MEXICO DEPARTMENT OF HEALTH

SCIENTIFIC LABORATORY DIVISION

P.O. Box 4700
Albuquerque, NM 87196-4700

700 Camino de Salud, NE
[505] 841-2500

ORGANIC CHEMISTRY SECTION [505] 841-2570

REPORT TO CLIENT:

Attn: Rob Pine
Ground Water Quality Bureau
P.O. Box 26110
Santa Fe, NM 87502

SLD No.: OR- 9700689
REQUEST ID No.: 154995
RECEIVED AT SLD: 3/20/97
☐ SLD COPY USER 55321

SAMPLE COLLECTION: DATE: 3/20/97 TIME: 1118 BY: Pin
SAMPLING LOCATION: Sparton VR-4
SAMPLE MATRIX: Gas REPORTING UNITS: uG/L

Remarks: Tedlar Gas Bag Sample

EPA METHOD 8260 Modified MASS SPECTROMETER VOLATILES BY PURGE AND TRAP

DATE EXTRACTED: N/A
DATE ANALYZED: 3/20/97 0 Days: Within EPA Analysis Time
AIR SAMPLE VOL (mL): 0.1

ANALYSIS No.: OR- 9700689
SLD BATCH No.: 102A
DILUTION FACTOR: 10.00
REQUEST ID No.: 154995

Barometric Pressure During Analayis in mm of Mercury: 636

CAS #	ANALYTE NAME	CONCENTRATION		QUAL.	Sample Detection Limit	
		uG/L$_{air}$	ppm V/V		uG/L$_{air}$	ppm V/V
71-43-2	Benzene			U	50.0	18.40
108-86-1	Bromobenzene			U	50.0	9.14
74-97-5	Bromochloromethane			U	50.0	11.13
75-27-4	Bromodichloromethane*			U	50.0	8.75
75-25-2	Bromoform*			U	50.0	5.67
24-83-9	Bromomethane			U	50.0	15.11
78-93-3	2-Butanone (MEK)			U	500.0	199.38
104-51-8	n-Butylbenzene			U	50.0	10.71
135-98-8	sec-Butylbenzene			U	50.0	10.71
98-06-6	tert-Butylbenzene			U	50.0	10.71
1634-04-4	tert-Butyl methyl ether (MTBE)			U	500.0	163.13
56-23-5	Carbon tetrachloride			U	50.0	9.32
108-90-7	Chlorobenzene (monochlorobenzene)			U	50.0	12.70
75-00-3	Chloroethane			U	50.0	22.08
67-66-3	Chloroform*			U	50.0	12.06
74-87-3	Chloromethane			U	50.0	28.71
95-49-8	2-Chlorotoluene			U	50.0	11.39
106-43-4	4-Chlorotoluene			U	50.0	11.39
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)			U	50.0	6.06
124-48-1	Dibromochloromethane*			U	50.0	6.90
106-93-4	1,2-Dibromoethane (Ethylene dibromide (EDB))			U	50.0	7.64
74-95-3	Dibromomethane			U	50.0	15.27
95-50-1	1,2-Dichlorobenzene (o-Dichlorobenzene)			U	50.0	9.77
541-73-1	1,3-Dichlorobenzene (m-Dichlorobenzene)			U	50.0	9.77
106-46-7	1,4-Dichlorobenzene (p-Dichlorobenzene)			U	50.0	9.77
75-71-8	Dichlorodifluoromethane			U	50.0	11.86
75-34-3	1,1-Dichloroethane			U	50.0	14.50
107-06-2	1,2-Dichloroethane			U	50.0	14.50
75-35-4	1,1-Dichloroethene	120	36		50.0	14.80
156-59-2	cis-1,2-Dichloroethene			U	50.0	14.80
156-60-5	trans-1,2-Dichloroethene			U	50.0	14.80
78-87-5	1,2-Dichloropropane			U	50.0	12.70
142-28-9	1,3-Dichloropropane			U	50.0	12.70
590-20-7	2,2-Dichloropropane			U	50.0	12.70
563-58-6	1,1-Dichloropropene			U	50.0	12.93
1006-01-5	cis-1,3-Dichloropropene			U	50.0	12.93

RECEIVED APR 15 1997 By

1006-02-6	trans-1,3-Dichloropropene			U	50.0	12.93
100-41-4	Ethylbenzene			U	50.0	13.54
87-68-3	Hexachlorobutadiene			U	50.0	5.50
98-82-8	Isopropylbenzene			U	50.0	11.96
99-87-6	4-Isopropyltoluene			U	50.0	10.63
75-09-2	Methylene chloride (Dichloromethane)			U	100.0	33.78
91-20-3	Naphthalene			U	50.0	9.09
103-65-1	Propylbenzene			U	50.0	11.96
100-42-5	Styrene			U	50.0	13.80
630-20-6	1,1,1,2-Tetrachloroethane			U	50.0	8.54
79-34-5	1,1,2,2-Tetrachloroethane			U	50.0	8.54
127-18-4	Tetrachloroethene	26	4.4	J	50.0	8.65
109-99-9	Tetrahydrofuran (THF)			U	500.0	199.38
108-88-3	Toluene			U	50.0	15.60
87-61-5	1,2,3-Trichlorobenzene			U	50.0	7.93
120-82-1	1,2,4-Trichlorobenzene			U	50.0	7.93
71-55-6	1,1,1-Trichloroethane	430	94		50.0	10.79
79-00-5	1,1,2-Trichloroethane			U	50.0	10.79
79-01-6	Trichloroethene	2400	520		50.0	10.96
75-69-4	Trichlorofluoromethane			U	50.0	10.40
96-18-4	1,2,3-Trichloropropane			U	50.0	9.77
95-63-6	1,2,4-Trimethylbenzene			U	50.0	11.96
108-67-8	1,3,5-Trimethylbenzene			U	50.0	11.96
75-01-4	Vinyl chloride			U	50.0	23.15
95-47-6	o-Xylene*			U	50.0	13.54
N/A	p- & m-Xylene*			U	50.0	13.54
N/A	*Total Xylenes*			U	50.0	13.54
N/A	*Total Trihalomethanes*		N/A	U	50.0	

Laboratory Remarks: **TCE Gas Standard Recovery was 119%.**
Quality control parameters for this batch exceeded normal ranges. Re-analysis conducted on 4/1/1997 resulted in substantially lower values, probably as a result of the expiration of the 72 hour holding period. The results reported here are from the initial analysis.

LABORATORY BATCH QUALITY CONTROL SUMMARY

	SURROGATE COMPOUNDS	CONCENTRATION (uG/L$_{air}$)	% RECOVERY	
SURROGATE RECOVERIES:	Toluene - D8	529	105.8%	
	4 - Bromofluorobenzene	431	86.1%	
	1,2 - Dichlorobenzene - D4	677	135.5%	High

LABORATORY FORTIFIED BLANK RECOVERIES

The % recoveries for compounds in the batch spike were from 80% to 120% with the exception of the compounds listed below (concentrations are relative to sample dilution):

COMPOUND	CONCENTRATION (uG/L)	% RECOVERY
No Exceptions		

LABORATORY BLANKS

No target compounds were detected above the sample detection limit in laboratory blankwith the exception of the compound(s) listed below (concentrations are relative to sample dilution):

COMPOUND	CONCENTRATION (uG/L)
No Exceptions	

ANALYST: **Patrick Basile** QC APPROVED BY: **Ken Sherrel**

DEFINITIONS

- ** Concentration Exceeds EPA's allowable Maximum Contamination Level
- CAS# Chemical Abstract Services Number - Unique number to help identify analytes listed by different names
- CONC. Concentration (ug/L) of analyte actually detected in the sample
- QUAL Qualifier of analytical results as follows:
  - B Analyte was detected in laboratory blank
  - J Analyte was detected at a level below which an accurate quanitation can be given (~5 * SDL)
  - U No analyte was detected above the Sample Detection Limit.
- SDL Sample Detection Limit - The lowest concentration which can be differentiated from Zero with 99% confidence taking sample size (compositing) into account.
- ug/L Concentration Units - micrograms per liter which is approximately equivalent to Parts Per Billion (ppb)

Request ID No.

ORGANIC CHEMISTRY ANALYTICAL REQUEST FORM

SLD's Accession No.

Request ID No. 154995-B

OR

Scientific Laboratory Division
700 Camino de Salud, NE (P.O. Box 4700)
Albuquerque, NM 87106 (87196-4700)
Phone: 505-841-2500/ -2570/ -2566

OR

For S OF

0R9700689

3 User Code: 55321	Date & Time of Receipt at SLD: 97 MAR 20 PM 2:01	4 Sample Priority: 3 — If 1 or 2 call SLD

5 Submitter Code: 418 | WSS Code: | User's Site ID: | 6 Sample Temp. Receipt @ SLD: ____ °C

7 Facility or WSS Name: SPARTON

Facility/WSS Location: If No WSS Code Complete 8, 9 & 10 | 8 County: Bernalillo | 9 City: Albuquerque | 10 State: or CHANGE NM TO

11 Sampling Location: SPARTON VR-4

12 Sample Collection: On: 03 / 20 / 97 (Date: MM / DD / YY) By: Pine (Last Name) Rob (First Name)

At: 11 : 18 (Time: 24:00 Hour Clock)

13 Sample Info. Contact: Ph: [ ] - 827 - 0178

If not collector, per box 12, Please print name here: _____

14 *Reports are mailed to the address specified by the Submitter Code and WSS Code (when present). However, if one of the following applies, please check ☒ appropriate boxes below and complete address form.*

☐ New Address for: ☐ Submitter ☐ WSS / Client

☐ Send an additional Report to

Name: _____

Address: _____

City: _____ *State:* _____ *Zip:* _____

15 **Field Data:** *(When appropriate)*

Temperature: ____ °C; pH: ____

Chlorinated ? ☐ YES or ☐ NO (Please Check Box)

Chlorine Residual: ____ mG/L

Sulfate: ____ mG/L

SDWA Compositing:
☐ No Compositing Permitted
☐ Within This System Only
☐ Within All Systems

16 **Field Remarks:** *(Optional)*

17 **Sample Type:** *(Check ☒ only one)*
☐ Water ■ Vapor ☐ Tissue ☐ Other: ☐ Liquid:
☐ Soil ☐ Plant ☐ Blood ☐ Solid: _____

18 **Preservation:** *(Check ☒ all that apply)*
☐ No Preservation
☐ Stored at 4°C ☐ Preserved with HCl to pH < 2 ☐ Other: _____

19 **Analyses Requested:** *Please Check ☒ the appropriate box(es) below to indicate your analytical request(s); and, please indicate the number of bottles & vials submitted:* Bottles ____ Vials ____.

Volatile Screens:
- ☐-(754) Aromatic & Halogenated Volatiles (EPA 8021)
- ■-(765) Mass Spectrometer Volatiles (EPA 8260)
- ☐-(774) Volatile Organic Compounds [VOC's] (EPA 502.2)
- ☐-(766) SDWA Total Trihalomethanes (EPA 502.2)

Other Specific Compounds or Classes:
- ☐-(___) _____
- ☐-(___) _____

Remarks: _____

Semivolatile Screens:
- ☐-(789) Drinking Water Semivolatile Screens (Indented list)
  - ☐-(775) EDB, DBCP & TCP (EPA 504.1)
  - ☐-(758) Acid Herbicides (EPA 515.2)
  - ☐-(772) Carbamates (EPA 531.1)
  - ☐-(781) Glyphosate (EPA 547)
  - ☐-(782) Endothall (EPA 548.1)
  - ☐-(783) Diquat (EPA 549.1)
  - ☐-(788) SOC (EPA 525.2)
- ☐-(755) Base/Neutral Semivolatiles (No Acids) (EPA 8270)
- ☐-(756) Base/Neutral/Acids Semivolatiles (EPA 625/8270)
- ☐-(760) Organochlorine Pesticides / PCB's (EPA 608)
- ☐-(751) Hydrocarbon Fuel Screen (Modified EPA 8015)
- ☐-(768) Disinfection Byproducts Screen (Indented list)
  - ☐-(771) Haloacetic Acids (EPA 552.2)
  - ☐-(769) Haloacetonitriles / THM's (EPA 551.1)
  - ☐-(770) Chloral Hydrate (EPA 551.1)
  - ☐-(773) Total Organic Halides [TOX] (EPA 5320b)

OGC-002113

Please RETAIN A COPY of your completed form for your records

STATE OF NEW MEXICO DEPARTMENT OF HEALTH

SCIENTIFIC LABORATORY DIVISION

P.O. Box 4700
Albuquerque, NM 87196-4700

700 Camino de Salud, NE
[505] 841-2500

ORGANIC CHEMISTRY SECTION [505] 841-2570

REPORT TO CLIENT:

Attn: Rob Pine
Ground Water Quality Bureau
P.O. Box 26110
Santa Fe, NM 87502

SLD No.: OR- 9700690
REQUEST ID No.: 154994
RECEIVED AT SLD: 3/20/97
☐ SLD COPY USER 55321

SAMPLE COLLECTION: DATE: 3/20/97 TIME: 1057 BY: Pin
SAMPLING LOCATION: Sparton VR-5
SAMPLE MATRIX: Gas REPORTING UNITS: uG/L

Remarks: Tedlar Gas Bag Sample

EPA METHOD 8260 Modified MASS SPECTROMETER VOLATILES BY PURGE AND TRAP

DATE EXTRACTED: N/A
DATE ANALYZED: 3/20/97 0 Days: Within EPA Analysis Time
AIR SAMPLE VOL (mL): 0.1

ANALYSIS No.: OR- 9700690
SLD BATCH No.: 102A
DILUTION FACTOR: 10.00
REQUEST ID No.: 154994

Barometric Pressure During Analayis in mm of Mercury: 636

CAS #	ANALYTE NAME	CONCENTRATION		QUAL.	Sample Detection Limit	
		uG/L$_{air}$	ppm V/V		uG/L$_{air}$	ppm V/V
71-43-2	Benzene			U	50.0	18.40
108-86-1	Bromobenzene			U	50.0	9.14
74-97-5	Bromochloromethane			U	50.0	11.13
75-27-4	Bromodichloromethane*			U	50.0	8.75
75-25-2	Bromoform*			U	50.0	5.67
24-83-9	Bromomethane			U	50.0	15.11
78-93-3	2-Butanone (MEK)			U	500.0	199.38
104-51-8	n-Butylbenzene			U	50.0	10.71
135-98-8	sec-Butylbenzene			U	50.0	10.71
98-06-6	tert-Butylbenzene			U	50.0	10.71
1634-04-4	tert-Butyl methyl ether (MTBE)			U	500.0	163.13
56-23-5	Carbon tetrachloride			U	50.0	9.32
108-90-7	Chlorobenzene (monochlorobenzene)			U	50.0	12.70
75-00-3	Chloroethane			U	50.0	22.08
67-66-3	Chloroform*			U	50.0	12.06
74-87-3	Chloromethane			U	50.0	28.71
95-49-8	2-Chlorotoluene			U	50.0	11.39
106-43-4	4-Chlorotoluene			U	50.0	11.39
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)			U	50.0	6.06
124-48-1	Dibromochloromethane*			U	50.0	6.90
106-93-4	1,2-Dibromoethane (Ethylene dibromide (EDB))			U	50.0	7.64
74-95-3	Dibromomethane			U	50.0	15.27
95-50-1	1,2-Dichlorobenzene (o-Dichlorobenzene)			U	50.0	9.77
541-73-1	1,3-Dichlorobenzene (m-Dichlorobenzene)			U	50.0	9.77
106-46-7	1,4-Dichlorobenzene (p-Dichlorobenzene)			U	50.0	9.77
75-71-8	Dichlorodifluoromethane			U	50.0	11.86
75-34-3	1,1-Dichloroethane			U	50.0	14.50
107-06-2	1,2-Dichloroethane			U	50.0	14.50
75-35-4	1,1-Dichloroethene	190	55		50.0	14.80
156-59-2	cis-1,2-Dichloroethene			U	50.0	14.80
156-60-5	trans-1,2-Dichloroethene			U	50.0	14.80
78-87-5	1,2-Dichloropropane			U	50.0	12.70
142-28-9	1,3-Dichloropropane			U	50.0	12.70
590-20-7	2,2-Dichloropropane			U	50.0	12.70
563-58-6	1,1-Dichloropropene			U	50.0	12.93
1006-01-5	cis-1,3-Dichloropropene			U	50.0	12.93

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1006-02-6	trans-1,3-Dichloropropene			U	50.0	12.93
100-41-4	Ethylbenzene			U	50.0	13.54
87-68-3	Hexachlorobutadiene			U	50.0	5.50
98-82-8	Isopropylbenzene			U	50.0	11.96
99-87-6	4-Isopropyltoluene			U	50.0	10.63
75-09-2	Methylene chloride (Dichloromethane)			U	100.0	33.78
91-20-3	Naphthalene			U	50.0	9.09
103-65-1	Propylbenzene			U	50.0	11.96
100-42-5	Styrene			U	50.0	13.80
630-20-6	1,1,1,2-Tetrachloroethane			U	50.0	8.54
79-34-5	1,1,2,2-Tetrachloroethane			U	50.0	8.54
127-18-4	Tetrachloroethene	36	6.2	J	50.0	8.65
109-99-9	Tetrahydrofuran (THF)			U	500.0	199.38
108-88-3	Toluene			U	50.0	15.60
87-61-5	1,2,3-Trichlorobenzene			U	50.0	7.93
120-82-1	1,2,4-Trichlorobenzene			U	50.0	7.93
71-55-6	1,1,1-Trichloroethane	530	120		50.0	10.79
79-00-5	1,1,2-Trichloroethane			U	50.0	10.79
79-01-6	Trichloroethene	2400	530		50.0	10.96
75-69-4	Trichlorofluoromethane			U	50.0	10.40
96-18-4	1,2,3-Trichloropropane			U	50.0	9.77
95-63-6	1,2,4-Trimethylbenzene			U	50.0	11.96
108-67-8	1,3,5-Trimethylbenzene			U	50.0	11.96
75-01-4	Vinyl chloride			U	50.0	23.15
95-47-6	o-Xylene*			U	50.0	13.54
N/A	p- & m-Xylene*			U	50.0	13.54
N/A	*Total Xylenes*			U	50.0	13.54
N/A	*Total Trihalomethanes*		N/A	U	50.0	

Laboratory Remarks: **TCE Gas Standard Recovery was 119%.**
Quality control parameters for this batch exceeded normal ranges. Re-analysis conducted on 4/1/1997 resulted in substantially lower values, probably as a result of the expiration of the 72 hour holding period. The results reported here are from the initial analysis.

LABORATORY BATCH QUALITY CONTROL SUMMARY

	SURROGATE COMPOUNDS	CONCENTRATION (uG/L$_{air}$)	% RECOVERY	
SURROGATE RECOVERIES:	Toluene - D8	514	102.8%	
	4 - Bromofluorobenzene	419	83.8%	
	1,2 - Dichlorobenzene - D4	661	132.2%	High

LABORATORY FORTIFIED BLANK RECOVERIES

The % recoveries for compounds in the batch spike were from 80% to 120% with the exception of the compounds listed below (concentrations are relative to sample dilution):

COMPOUND	CONCENTRATION (uG/L)	% RECOVERY
No Exceptions		

LABORATORY BLANKS

No target compounds were detected above the sample detection limit in laboratory blankwith the exception of the compound(s) listed below (concentrations are relative to sample dilution):

COMPOUND	CONCENTRATION (uG/L)
No Exceptions	

ANALYST: **Patrick Basile** QC APPROVED BY: **Ken Sherrel**

DEFINITIONS

- ** Concentration Exceeds EPA's allowable Maximum Contamination Level
- CAS# Chemical Abstract Services Number - Unique number to help identify analytes listed by different names
- CONC. Concentration (ug/L) of analyte actually detected in the sample
- QUAL Qualifier of analytical results as follows:
  - B Analyte was detected in laboratory blank
  - J Analyte was detected at a level below which an accurate quanitation can be given (~5 * SDL)
  - U No analyte was detected above the Sample Detection Limit.
- SDL Sample Detection Limit - The lowest concentration which can be differentiated from Zero with 99% confidence taking sample size (compositing) into account.
- ug/L Concentration Units - micrograms per liter which is approximately equivalent to Parts Per Billion (ppb)

ORGANIC CHEMISTRY ANALYTICAL REQUEST FORM

Request ID No. 154994-B

OR

Scientific Laboratory Division
700 Camino de Salud, NE (P.O. Box 4700)
Albuquerque, NM 87106 (87196-4700)
Phone: 505-841-2500/ -2570/ -2566

OR

For SLD Use Only: 0R9700690

3 User Code: 553211

Date & Time of Receipt at SLD: 97 MAR 20 PM 2:01

4 Sample Priority: 3 — If 1 or 2 call SLD

5 Submitter Code: 418

WSS Code: ___-___

User's Site ID:

6 Sample Temp. Receipt @ SLD: ____ °C

7 Facility or WSS Name: SPIRITON

Facility/WSS Location: If No WSS Code Complete 8, 9 & 10

8 County: Bernalillo

9 City: Albuquerque

10 State: or CHANGE NM TO

11 Sampling Location: SPIRITON VR-5

12 Sample Collection: On: 03 / 20 / 97 (Date: MM / DD / YY) By: Pine (Last Name)

At: 10 : 57 (Time: 24:00 Hour Clock) Rob (First Name)

13 Sample Info. Contact: Ph: [505] - 827 - 0178

If not collector, per box 12, Please print name here:

14 *Reports are mailed to the address specified by the Submitter Code and WSS Code (when present). However, if one of the following applies, please check ☒ appropriate boxes below and complete address form.*

☐ New Address for: ☐ Submitter ☐ WSS / Client

☐ Send an additional Report to

Name:

Address:

City: *State:* *Zip:*

15 Field Data: *(When appropriate)*

Temperature: ____ °C; pH: ____

Chlorinated ? ☐ YES or ☐ NO (Please Check Box)

Chlorine Residual: ____ mG/L

Sulfate: ____ mG/L

SDWA Compositing:

☐ No Compositing Permitted
☐ Within This System Only
☐ Within All Systems

16 Field Remarks: *(Optional)*

17 Sample Type: *(Check ☒ only one)*

☐ Water ■ Vapor ☐ Tissue ☐ Other: ☐ Liquid:
☐ Soil ☐ Plant ☐ Blood ☐ Solid:

18 Preservation: *(Check ☒ all that apply)*

■ No Preservation
☐ Stored at 4°C ☐ Preserved with HCl to pH < 2 ☐ Other:

19 Analyses Requested: *Please Check ☒ the appropriate box(es) below to indicate your analytical request(s); and, please indicate the number of bottles & vials submitted:* Bottles ____ Vials ____

Volatile Screens:

☐-(754) Aromatic & Halogenated Volatiles (EPA 8021)
■-(765) Mass Spectrometer Volatiles (EPA 8260)
☐-(774) Volatile Organic Compounds [VOC's] (EPA 502.2)
☐-(766) SDWA Total Trihalomethanes (EPA 502.2)

Other Specific Compounds or Classes:

☐-(___) ____

☐-(___) ____

Remarks: ____

Semivolatile Screens:

☐-(789) Drinking Water Semivolatile Screens (Indented list)
- ☐-(775) EDB, DBCP & TCP (EPA 504.1)
- ☐-(758) Acid Herbicides (EPA 515.2)
- ☐-(772) Carbamates (EPA 531.1)
- ☐-(781) Glyphosate (EPA 547)
- ☐-(782) Endothall (EPA 548.1)
- ☐-(783) Diquat (EPA 549.1)
- ☐-(788) SOC (EPA 525.2)

☐-(755) Base/Neutral Semivolatiles (No Acids) (EPA 8270)
☐-(756) Base/Neutral/Acids Semivolatiles (EPA 625/8270)
☐-(760) Organochlorine Pesticides / PCB's (EPA 608)
☐-(751) Hydrocarbon Fuel Screen (Modified EPA 8015)
☐-(768) Disinfection Byproducts Screen (Indented list)
- ☐-(771) Haloacetic Acids (EPA 552.2)
- ☐-(769) Haloacetonitriles / THM's (EPA 551.1)
- ☐-(770) Chloral Hydrate (EPA 551.1)
- ☐-(773) Total Organic Halides [TOX] (EPA 5320b)

OGC-002116

Please RETAIN A COPY of your completed form for your records