

American Environmental Network

(formerly Analytical Technologies Inc.)

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4th Report - 8 pgs
2nd Report - 9 pgs
3rd Report - 9 pgs

FROM:

DATE: 4/23

H. Mitchell Rubenstein, Ph.D., Lab Manager
 Kimberly D. McNeill, Project Manager
 Andrew Parker
 Ellen Dolock

TIME: 8⁰⁰A

FAX NUMBER: (505) 344-4413

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COMMENTS:

John Wakefield of Sperton Tech. requested that I fax a copy of these gas vapor reports to you.

If you did not receive all pages of this transmission or if you experience Fax Transmission problems. Please call (505) 344-3777, as soon as possible after receipt.

OGC-002035

AEN I.D. 604358

April 19, 1996

Sparton Technology Inc.
4901 Rockaway Blvd SE
Rio Rancho, NM 87124

Project Name/Number: SVS-2Q96 041596

Attention: John Wakefield

On 04/15/96, American Environmental Network (NM), Inc., (ADHS License No. AZ0015) (formerly ATI-NM), received a request to analyze aqueous 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.
Laboratory Manager

MR:jt

Enclosure

GWB-00550-SPARTON

OGC-002036

CLIENT : SPARTON TECHNOLOGY INC. DATE RECEIVED : 04/15/96
 PROJECT # : 041596
 PROJECT NAME : SVS-2Q96 REPORT DATE : 04/19/96

AEN ID: 604358

AEN #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
01	MW-37	AQUEOUS	04/15/96
02	MW-48	AQUEOUS	04/15/96
03	MW-57	AQUEOUS	04/15/96

---TOTALS---

<u>MATRIX</u>	<u>#SAMPLES</u>
AQUEOUS	3

OGC-002037

AEN STANDARD DISPOSAL PRACTICE

GWB-00549-SPARTON

The samples from this project will be disposed of in thirty (30) days from the date of this report. If an extended storage period is required, please contact our sample control department before the scheduled disposal date.

GAS CHROMATOGRAPHY RESULTS

TEST : PURGEABLE HALOCARBONS/AROMATICS (EPA 8010/8020)
 CLIENT : SPARTON TECHNOLOGY INC. AEN I.D.: 604358
 PROJECT # : 041596
 PROJECT NAME : SVS-2Q96

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	MW-37	AIR	04/15/96	NA	04/15/96	1
02	MW-48	AIR	04/15/96	NA	04/16/96	1
03	MW-57	AIR	04/15/96	NA	04/15/96	1
PARAMETER			UNITS	01	02	03
BENZENE			MG/M ³	<0.05	<0.05	<0.05
BROMODICHLOROMETHANE			MG/M ³	<0.02	<0.02	<0.02
BROMOFORM			MG/M ³	<0.05	<0.05	<0.05
BROMOMETHANE			MG/M ³	<0.10	<0.10	<0.10
CARBON TETRACHLORIDE			MG/M ³	<0.02	<0.02	<0.02
CHLOROBENZENE			MG/M ³	<0.05	<0.05	<0.05
CHLOROETHANE			MG/M ³	<0.05	<0.05	<0.05
CHLOROFORM			MG/M ³	<0.05	<0.05	<0.05
CHLOROMETHANE			MG/M ³	<0.10	<0.10	<0.10
DIBROMOCHLOROMETHANE			MG/M ³	<0.02	<0.02	<0.02
1,2-DIBROMOETHANE (EDB)			MG/M ³	<0.02	<0.02	<0.02
1,2-DICHLOROBENZENE			MG/M ³	<0.05	<0.05	<0.05
1,3-DICHLOROBENZENE			MG/M ³	<0.05	<0.05	<0.05
1,4-DICHLOROBENZENE			MG/M ³	<0.05	<0.05	<0.05
1,1-DICHLOROETHANE			MG/M ³	<0.03	<0.03	<0.03
1,2-DICHLOROETHANE (EDC)			MG/M ³	<0.05	<0.05	<0.05
1,1-DICHLOROETHENE			MG/M³	0.066	<0.02	<0.02
CIS-1,2-DICHLOROETHENE			MG/M ³	<0.02	<0.02	<0.02
TRANS-1,2-DICHLOROETHENE			MG/M ³	<0.10	<0.10	<0.10
1,2-DICHLOROPROPANE			MG/M ³	<0.02	<0.02	<0.02
CIS-1,3-DICHLOROPROPENE			MG/M ³	<0.02	<0.02	<0.02
TRANS-1,3-DICHLOROPROPENE			MG/M ³	<0.02	<0.02	<0.02
ETHYLBENZENE			MG/M ³	<0.05	<0.05	<0.05
METHYL-t-BUTYL ETHER			MG/M ³	<0.25	<0.25	<0.25
METHYLENE CHLORIDE			MG/M ³	<0.20	<0.20	<0.20
1,1,2,2-TETRACHLOROETHANE			MG/M ³	<0.02	<0.02	D(1)
TETRACHLOROETHENE			MG/M³	0.13	<0.05	<0.05
TOLUENE			MG/M ³	<0.05	<0.05	<0.05
1,1,1-TRICHLOROETHANE			MG/M ³	<0.10	<0.10	<0.10
1,1,2-TRICHLOROETHANE			MG/M ³	<0.02	<0.02	<0.02
TRICHLOROETHENE			MG/M³	4.6 D(10)	<0.03	<0.03
TRICHLOROFUOROMETHANE			MG/M ³	<0.02	<0.02	<0.02
VINYL CHLORIDE			MG/M ³	<0.05	<0.05	<0.05
TOTAL XYLENES			MG/M ³	<0.05	<0.05	<0.05

SURROGATES:

BROMOCHLOROMETHANE (%)	93	97	92
TRIFLUOROTOLUENE (%)	97	98	104

D(1)=DILUTED 1X, ANALYZED 04/15/96
 D(10)=DILUTED 10X, ANALYZED 04/16/96

3WB-00548-SPARTON

GAS CHROMATOGRAPHY RESULTS - QUALITY CONTROL

TEST	: EPA 8010/8020	AEN I.D.	: 604358
BLANK I.D.	: 041696	MATRIX	: AIR
CLIENT	: SPARTON TECHNOLOGY INC.	DATE EXTRACTED	: NA
PROJECT #	: 041596	DATE ANALYZED	: 04/16/96
PROJECT NAME	: SVS-2Q96	DIL. FACTOR	: 1

PARAMETER	UNITS	
BENZENE	MG/M ³	<0.05
BROMODICHLOROMETHANE	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	<0.02
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

SURROGATES:

BROMOCHLOROMETHANE (%)	98
TRIFLUOROTOLUENE (%)	101

GAS CHROMATOGRAPHY RESULTS - QUALITY CONTROL

TEST	: EPA 8010/8020	AEN I.D.	: 604358
BLANK I.D.	: 041596	MATRIX	: AIR
CLIENT	: SPARTON TECHNOLOGY INC.	DATE EXTRACTED	: NA
PROJECT #	: 041596	DATE ANALYZED	: 04/15/96
PROJECT NAME	: SVS-2Q96	DIL. FACTOR	: 1

PARAMETER	UNITS	
BENZENE	MG/M ³	<0.05
BROMODICHLOROMETHANE	MG/M ³	<0.02
BROMOFORM	MG/M ³	<0.05
BROMOMETHANE	MG/M ³	<0.10
CARBON TETRACHLORIDE	MG/M ³	<0.02
CHLORO BENZENE	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-DICHLORO BENZENE	MG/M ³	<0.05
1,3-DICHLORO BENZENE	MG/M ³	<0.05
1,4-DICHLORO BENZENE	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	<0.02
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
 SURROGATES:		
BROMOCHLOROMETHANE (%)		106
TRIFLUOROTOLUENE (%)		104

GAS CHROMATOGRAPHY - QUALITY CONTROL

MSMSD

TEST : PURGEABLE HALOCARBONS/AROMATICS (EPA 8010/8020)
 MSMSD # : 041596 AEN I.D. : 604358
 CLIENT : SPARTON TECHNOLOGY INC. DATE EXTRACTED : NA
 PROJECT # : 041596 DATE ANALYZED : 04/15/96
 PROJECT NAME : SVS-2Q96 SAMPLE MATRIX : AIR
 REF. I.D. : 041596 UNITS : MG/M³

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD
BENZENE	<0.05	1.00	1.04	104	0.87	87	18
CHLOROBENZENE	<0.05	1.00	1.05	105	0.95	95	10
1,1-DICHLOROETHENE	<0.02	1.00	0.81	81	0.69	69	16
TOLUENE	<0.05	1.00	1.05	105	0.88	88	18
TRICHLOROETHENE	<0.03	1.00	1.05	105	0.94	94	11

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

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



Analytical Technologies of New Mexico, Inc., Albuquerque, NM
 San Diego • Phoenix • Seattle • Pensacola • Ft. Collins • Portland • Albuquerque • Anchorage

CHAIN OF CUSTODY
 DATE: 4-15-96 PAGE: 1 OF 1

LAB USE ONLY

3WB - 00544 - SPARTON

PLEASE FILL THIS FORM IN COMPLETELY.

SHADED AREAS ARE FOR LAB USE ONLY.

PROJECT MANAGER: John W. Malotfield
 COMPANY: Spaeth Tech. Inc.
 ADDRESS: 9621 Coors Rd NW
Albuquerque NM 87114
 PHONE: 505 892-5300
 FAX: 505
 BILL TO: 11
 COMPANY: 11
 ADDRESS: 4901 Rockaway Blvd SE
Rio Rancho NW 87124

SAMPLE ID: MW-37 DATE: 4-15-96 MATRIX: AW

TEST	RESULTS	REMARKS
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)	X	
BTEX/MTBE/EDC & EDB (8020/8010/Short)	X	
Chlorinated Hydrocarbons (601/8010)	X	
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:		

PROJ. NO: 041596
 PROJ. NAME: SUS-2096
 SHIPPED VIA: Delivered
 COMMENTS: For Prelim to DMU
892-5515

RECEIVED BY (LAB)
 Signature: [Signature] Date: 4-15-96
 Company: STI

RECEIVED BY (CUST)
 Signature: [Signature] Date: 4-15-96
 Company: STI

ANALYTICAL TECHNOLOGIES OF NEW MEXICO
 1020095 All Labs San Diego (619) 438-9141 • Phoenix (602) 496-4000 • Seattle (206) 228-8706 • Pensacola (904) 721-1041 • Portland (503) 694-0447 • Albuquerque (505) 344-3777