

# SPARTON

## SPARTON TECHNOLOGY

October 20, 1993

Mr. Steven M. Alexander  
RCRA Technical Compliance Program Manager  
HAZARDOUS AND RADIOACTIVE MATERIALS BUREAU  
New Mexico Environment Department  
P.O. Box 26110  
525 Camino de los Marquez  
Santa Fe, New Mexico 87502

Re: Lab Report for Additional Sampling.

Dear Mr. Alexander:

Enclosed is one copy of a laboratory report from Analytical Technologies, Inc. (ATI Report No. 309309). Monitoring Wells MW-61 and MW-64 were sampled on September 3, 1993 as a confirmation to results obtained on MW-61 during the CME.

If you need additional information or have any questions please contact John Wakefield or myself at (505) 892-5300. Thank you for your attention to this matter.

Sincerely,  
SPARTON TECHNOLOGY, INC.

*RD Mico*

Richard D. Mico  
Vice President and General Manager

Enclosure

cc: (w/o enclosure)  
Mr. J. Appel  
Mr. P. Chandler  
Mr. G. Richardson  
Mr. J. Wakefield

*Enclosure  
not  
Found*





Analytical **Technologies**, Inc.

2709-D Pan American Freeway, NE Albuquerque, NM 87107  
Phone (505) 344-3777 FAX (505) 344-4413

ATI I.D. 309309

September 27, 1993

Sparton Technology, Inc.  
4901 Rockaway Blvd., SE  
Rio Rancho, NM 87124-4469

Project Name/Number: CRFGW-CONF. 090393-AD

Attention: John Wakefield

On 09/03/93, Analytical Technologies, Inc., (ADHS License No. AZ0015), 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.

EPA Method 8240 analyses were performed by Analytical Technologies, Inc., 225 Commerce Drive, Fort Collins, CO.

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

Adela M. Cantu  
Senior Organic Chemist

Letitia Krakowski  
Acting Laboratory Manager

LAK:jd

Enclosure



Analytical **Technologies**, Inc.

CLIENT : SPARTON TECHNOLOGY, INC.  
PROJECT # : 090393-AD  
PROJECT NAME: CRFGW-CONF.

DATE RECEIVED: 09/03/93

REPORT DATE : 09/27/93

ATI I.D.: 309309

ATI #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
01	MW-61	AQUEOUS	09/03/93
02	MW-64	AQUEOUS	09/03/93

-----TOTALS-----

MATRIX	# SAMPLES
AQUEOUS	2

ATI STANDARD DISPOSAL PRACTICE

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

007134



Analytical Technologies, Inc.

**VOLATILE ORGANICS**

Method 8240

MW-61  
UFZ

Lab Name: Analytical Technologies, Inc.  
Client Name: ATI-NM  
Client Project ID: Sparton - 309309  
Lab Sample ID: 93-09-035-01

Sample ID  
**309309-01**

Date Collected: 09/03/93  
Date Analyzed: 09/14/93

Sample Matrix: Water  
Sample Volume: 5 mL

Analyte	Results (ug/L)	Detection Limit (ug/L)
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	5
Acetone	ND	10
Carbon disulfide	ND	5
1,1-Dichloroethene	20	5
1,1-Dichloroethane	ND	5
cis-1,2-Dichloroethene	ND	5
trans-1,2-Dichloroethene	ND	5
Chloroform	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	6	5
Carbon tetrachloride	ND	5
Vinyl acetate	ND	10
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
Trichloroethene	490 E	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
trans-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10
4-Methyl-2-pentanone	ND	10
Tetrachloroethene	3 J	5
1,1,2,2-Tetrachloroethane	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethylbenzene	ND	5
Styrene	ND	5
Total Xylenes	ND	5

← see next page

**SURROGATE RECOVERIES**

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	110	76 - 114
Toluene-d8	99	88 - 110
Bromofluorobenzene	98	86 - 115

ND = Not Detected  
J = Estimated value, value found below detection limit  
E = Exceeds calibration range, see dilution

007135



Analytical Technologies, Inc.

**VOLATILE ORGANICS**

Method 8240

MW-61

Sample ID

309309-01 DL

Lab Name: Analytical Technologies, Inc.  
 Client Name: ATI-NM  
 Client Project ID: Sparto - 309309  
 Lab Sample ID: 93-09-035-01 DL

Date Collected: 09/03/93

Date Analyzed: 09/15/93

Sample Matrix: Water  
 Sample Volume: 1 mL

Analyte	Results (ug/L)	Detection Limit (ug/L)
Chloromethane	ND	50
Bromomethane	ND	50
Vinyl chloride	ND	50
Chloroethane	ND	50
Methylene chloride	ND	25
Acetone	ND	50
Carbon disulfide	ND	25
1,1-Dichloroethene	16 J	25
1,1-Dichloroethane	ND	25
cis-1,2-Dichloroethene	ND	25
trans-1,2-Dichloroethene	ND	25
Chloroform	ND	25
1,2-Dichloroethane	ND	25
2-Butanone	ND	50
1,1,1-Trichloroethane	ND	25
Carbon tetrachloride	ND	25
Vinyl acetate	ND	50
Bromodichloromethane	ND	25
1,2-Dichloropropane	ND	25
cis-1,3-Dichloropropene	ND	25
Trichloroethene	500	25
Dibromochloromethane	ND	25
1,1,2-Trichloroethane	ND	25
Benzene	ND	25
trans-1,3-Dichloropropene	ND	25
Bromoform	ND	25
2-Hexanone	ND	50
4-Methyl-2-pentanone	ND	50
Tetrachloroethene	ND	25
1,1,2,2-Tetrachloroethane	ND	25
Toluene	ND	25
Chlorobenzene	ND	25
Ethylbenzene	ND	25
Styrene	ND	25
Total Xlenes	ND	25

**SURROGATE RECOVERIES**

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	98	76 - 114
Toluene-d8	95	88 - 110
Bromofluorobenzene	97	86 - 115

ND = Not Detected

J = Estimated value, value found below detection limit

007136



Analytical Technologies, Inc.

## VOLATILE ORGANICS

Method 8240

MW-64  
ULFZ

Lab Name: Analytical Technologies, Inc.  
Client Name: ATI-NM  
Client Project ID: Sparton -- 309309  
Lab Sample ID: 93-09-035-02

Sample ID

309309-02

Date Collected: 09/03/93

Date Analyzed: 09/14/93

Sample Matrix: Water

Sample Volume: 5 mL

Analyte	Results (ug/L)	Detection Limit (ug/L)
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	5
Acetone	ND	10
Carbon disulfide	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
cis-1,2-Dichloroethene	ND	5
trans-1,2-Dichloroethene	ND	5
Chloroform	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Vinyl acetate	ND	10
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
trans-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10
4-Methyl-2-pentanone	ND	10
Tetrachloroethene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethylbenzene	ND	5
Styrene	ND	5
Total Xylenes	ND	5

## SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	108	76 - 114
Toluene-d8	99	88 - 110
Bromofluorobenzene	96	86 - 115

ND = Not Detected

007137



## VOLATILE ORGANICS

Method 8240

Sample ID

Lab Name: Analytical Technologies, Inc.

Client Name: ATI-NM

Client Project ID: Sparton - 309309

Lab Sample ID: WRB1 09/14/93

Reagent Blank

Date Collected: N/A

Date Analyzed: 09/14/93

Sample Matrix: Water

Sample Volume: 5 mL

Analvte	Results (ug/L)	Detection Limit (ug/L)
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	5
Acetone	ND	10
Carbon disulfide	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
cis-1,2-Dichloroethene	ND	5
trans-1,2-Dichloroethene	ND	5
Chloroform	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Vinyl acetate	ND	10
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
trans-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10
4-Methyl-2-pentanone	ND	10
Tetrachloroethene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethylbenzene	ND	5
Styrene	ND	5
Total Xylenes	ND	5

## SURROGATE RECOVERIES

Analvte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	105	76 - 114
Toluene-d8	99	88 - 110
Bromofluorobenzene	99	86 - 115

ND = Not Detected

007138



## VOLATILE ORGANICS

Method 8240

Sample ID

Lab Name: Analytical Technologies, Inc.

Client Name: ATI-NM

Client Project ID: Sparto - 309309

Lab Sample ID: WRB1 09/15/93

Reagent Blank

Date Collected: N/A

Date Analyzed: 09/15/93

Sample Matrix: Water

Sample Volume: 5 mL

Analyte	Results (ug/L)	Detection Limit (ug/L)
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	5
Acetone	ND	10
Carbon disulfide	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
cis-1,2-Dichloroethene	ND	5
trans-1,2-Dichloroethene	ND	5
Chloroform	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Vinyl acetate	ND	10
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
trans-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10
4-Methyl-2-pentanone	ND	10
Tetrachloroethene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethylbenzene	ND	5
Styrene	ND	5
Total Xylenes	ND	5

## SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	104	76 - 114
Toluene-d8	98	88 - 110
Bromofluorobenzene	98	86 - 115

ND = Not Detected

007139





Analytical Technologies, Inc.

**VOLATILE MATRIX SPIKE RECOVERY**

Method 8240

Sample ID

Lab Name: Analytical Technologies, Inc.

Client Name: ATI-NM

Client Project ID: Sparton -- 309309

Lab Sample ID: 93-09-031-01

In House

Date Collected: 09/01/93

Date Analyzed: 09/14,15/93

Sample Matrix: Water

Sample Volume: 5 mL

Analyte	Spike Added (ug/L)	Sample Concentration (ug/L)	MS Concentration (ug/L)	MS % Rec	QC Limit Recovery
1,1-Dichloroethene	50.0	ND	46.6	93	61-145
Trichloroethene	50.0	ND	44.9	90	71-120
Benzene	50.0	ND	49.7	99	76-127
Toluene	50.0	ND	42.0	84	76-125
Chlorobenzene	50.0	ND	45.5	91	75-130

Analyte	Spike Added (ug/L)	MSD Concentration (ug/L)	MSD % Recovery	% RPD	QC Limits RPD Rec
1,1-Dichloroethene	50.0	47.8	96	3	14   61-145
Trichloroethene	50.0	45.4	91	1	14   71-120
Benzene	50.0	50.6	101	2	11   76-127
Toluene	50.0	42.3	85	1	13   76-125
Chlorobenzene	50.0	44.3	89	3	13   75-130

ND = Not Detected

007140



# CHAIN OF CUSTODY

DATE: 9-3-93 PAGE 1 OF 1

ATI LAB I.D.

309309

PLEASE FILL THIS FORM IN COMPLETELY. SHADED AREAS ARE FOR LAB USE ONLY.

PROJECT MANAGER: John Wakefield

COMPANY: Spartan Technology Inc  
 ADDRESS: 9621 Coors Rd NW  
Albuquerque NM 87114

PHONE: 505 892-5300  
 FAX: 505 892-5515

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

## ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Petroleum Hydrocarbons (418.1)	(MOD 8015) Gas/Diesel	Diesel/Gasoline/BTXE/MTBE (MOD 8015/8020)	BTXE/MTBE (8020)	Chlorinated Hydrocarbons (601/8010)	Aromatic Hydrocarbons (602/8020)	SDWA Volatiles (502.1/503.1), 502.2 Reg. & Unreg.	Pesticides/PCB (608/8080)	Herbicides (615/8150)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Volatile Organics GC/MS (624/8240)	Polynuclear Aromatics (610/8310)	SDWA Primary Standards - Arizona	SDWA Secondary Standards - Arizona	SDWA Primary Standards - Federal	SDWA Secondary Standards - Federal	The 13 Priority Pollutant Metals	RCRA Metals by Total Digestion	RCRA Metals by TCLP (1311)	NUMBER OF CONTAINERS
MW-61	9-3-93	1026	HCl	01																				2
MW-64	9-3-93	1203	HCl	02																				2
007141																								

PROJECT INFORMATION	SAMPLE RECEIPT
PROJ. NO.: <u>090393-Ad</u>	NO. CONTAINERS <u>4</u>
PROJ. NAME: <u>CRFGW-Conf.</u>	CUSTODY SEALS <u>Y/N/NA</u>
P.O. NO.:	RECEIVED INTACT <u>Y</u>
SHIPPED VIA: <u>Delivered</u>	RECEIVED COLD <u>Y</u>

SAMPLED & RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: <u>John M. Wakefield</u> Time: <u>1545</u>	Signature:	Signature:
Printed Name: <u>John M. Wakefield</u> Date: <u>9-3-93</u>	Printed Name:	Printed Name:
Company: <u>STI</u> Phone: <u>892-5300</u>	Company:	Company:

**PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS**

(RUSH)  24hr  48hr  72hr  1 WEEK (NORMAL)  2 WEEK

Comments: CofC Seals on Cooler

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY: (LAB) 3.
Signature:	Signature:	Signature: <u>Wakefield</u> Time: <u>1545</u>
Printed Name:	Printed Name:	Printed Name: <u>Wakefield</u> Date: <u>9/3/93</u>
Company:	Company:	Analytical Technologies, Inc.

# Chain of Custody

93-09-035

DATE 9/3/93 PAGE 1 OF 1

NETWORK PROJECT MANAGER: BETH PROFFITT					ANALYSIS REQUEST																				
COMPANY: Analytical Technologies, Inc. ADDRESS: 2709-D Pan American Freeway, NE Albuquerque, NM 87107					TOX	TOC	ORGANIC LEAD	SULFIDE	SURFACTANTS (MBAS)	632/632 MOD	619/619 MOD	610/6310	8240 (TCLP 1311) ZHE	Diesel/Gasoline/BTXE/MTBE/ (MOD 8015/8020)	Volatile Organics GC/MS (624/8240)	NACE	ASBESTOS	BOD	TOTAL COLIFORM	FECAL COLIFORM	GROSS ALPHABETA	RADIUM 226/228	AIR - O2, CO2, METHANE	AIR/Diesel/Gasoline/BTXE/ (MOD 8015/8020)	NUMBER OF CONTAINERS
					CLIENT PROJECT MANAGER:	SAMPLE ID	DATE	TIME	MATRIX	LAB ID															
	309307-01	9/3/93	1020	Ag	01																				
	-02	9/3/93	1205	Ag	02																				

PROJECT INFORMATION		SAMPLE RECEIPT		SAMPLES SENT TO:		RELINQUISHED BY: 1.		RELINQUISHED BY: 2.	
PROJECT NUMBER: 309307	TOTAL NUMBER OF CONTAINERS: 4	PROJECT NAME: SPARTAN	CHAIN OF CUSTODY SEALS: 4	SAN DIEGO	Signature: [Signature]	Time: 15:50	Signature:	Time:	
QC LEVEL: STD. IV	INTACT?: 4	QC REQUIRED: MS MSD BLANK	RECEIVED GOOD COND./COLD	FT. COLLINS	Printed Name: [Signature]	Date: 9/3/93	Printed Name:	Date:	
TAT: STANDARD RUSH!	LAB NUMBER: 93-09-035			RENTON	Analytical Technologies, Inc. Albuquerque		Company: [Signature]		
DUE DATE: 9/20/93	WOLK031			PENSACOLA	RECEIVED BY: (LAB) 1.		RECEIVED BY: (LAB) 2.		
RUSH SURCHARGE:				PHOENIX	Signature:	Time:	Signature: [Signature]	Time: 11:00A	
CLIENT DISCOUNT: 10 %				BARRINGER	Printed Name:	Date:	Printed Name: VAC ROBINS	Date: 9/4/93	
				FIBERQUANT	Company: [Signature]		Company: A-T-I		

007142

2-VM  
↓